

Six Year Capital Improvement Plan Budget Year 2020-2021 by Program Name

All Projects Submitted for 2020-2021

Bold - Indicates	s projects occurring in the first FY of the plan.											
+ - Indicates pr	rojects with multiple funding									<u>Ove</u>	rall Programming	<u>ı Cost</u>
				Fiscal Year	Project	City	Non-City					
Project ID		Cat	Previous	2020-2021	2021-2022	2022-2023	2023-2024	2024-2025	2025-2026	Cost	Funds	Funds
Bridges												
714-20-CIP	200 Block Alley Enhanced Improvements	V	\$0	\$0	\$817,000	\$0	\$0	\$0	\$0	\$817,000	\$817,000	\$0
+ 58-20-CIP	Eighth Street Bridge Repair	V	\$0	\$1,357,217	\$0	\$0	\$0	\$0	\$0	\$1,520,426	\$644,717	\$712,500
+ 885-20-CIP	North Cass Street Bridge Rehabilitation	V	\$228,000	\$1,115,000	\$0	\$0	\$0	\$0	\$0	\$1,343,000	\$246,500	\$1,096,500
+ 586-20-CIP	Park Street Bridge Repair	V	\$0	\$957,500	\$0	\$0	\$0	\$0	\$0	\$640,965	\$150,000	\$807,500
+ 187-20-CIP	South Cass Street Bridge Repair	V	\$0	\$939,500	\$0	\$0	\$0	\$0	\$0	\$806,720	\$132,000	\$807,500
+ 186-20-CIP	South Union Street Bridge Repair	V	\$0	\$0	\$1,318,000	\$0	\$0	\$0	\$0	\$1,323,000	\$260,500	\$1,057,500
+ 535-20-CIP	West Front Street Bridge Replacement	V	\$0	\$1,550,935	\$0	\$0	\$0	\$0	\$0	\$1,829,538	\$369,375	\$1,181,560
Total Bridges	s			\$5,920,152	\$2,135,000	\$0	\$0	\$0	\$0	\$8,280,650	\$2,620,092	\$5,663,060



BRIDGES-20-CIP

Bridges

714-20-CIP 200 Block Alley Enhanced Improvements

Project Information

Rob Baciagalupi Submitted By:

Department: Department Head: **Downtown Development**

Pedestrian bridge, riverwalk and pedestrian improvements to north

East Front alley between Cass and Park.

Visionary Category:

Tax Increment Financing

Staff Priority:

\$0

Essential (Should Do)

Jean Derenzy

Fund Detail:

Fund Group:

TIF97

TIF 97

TIF 97

Council Priority:

200 Block Alley Enha 200 Block Alley Enhanced Improvements - Cost

Funding Sources:

Previous

\$0

2020/2021

2021/2022 \$817,000

2022/2023

\$0

2023/2024

\$0

2024/2025

\$0

2025/2026

Total \$817,000

\$0 Project Total:

\$817,000

COST DETAIL:

\$0 Study:

Land Acquisition / ROW: \$0 \$0

Engineering / Design:

\$817,000 Construction:

Annual Maint. Cost:

1905 Maint. Year Start:

Cost Total:

\$817,000

Project Difference:

\$0

Service Impact:

Landscaping and streetscape elements will result in additional services. Trash receptacle pick up

Project Justification:

TIF 97

Location Description:

Alley north of the 200 block of E. Front Street



BRIDGES-20-CIP

Category:

Bridges

58-20-CIP **Eighth Street Bridge Repair**

Project Information

Jean Derenzy Submitted By:

Tax Increment Financing Fund Group:

Visionary

TIF 2 Fund Detail:

Department: **Department Head:**

Staff Priority:

Council Priority:

Downtown Development

Tim Lodge

Imperitive (Must Do)

The work will include concrete box beam deck removal and replacement, railing replacement, sidewalk widening, riverbank slope protection, approach work and related work including aesthetic treatments. Twenty percent of the composite deck area is

delaminated/defective. The City received \$750,000 in funding thru the MDOT Local Bridge Program which requires a 5% local match and the

City to perform engineering for the project.

This project needs to be coordinated with the Midtown Water Transmission Line #115 project included in the Water Fund.

It is our intention to package the following bridges and bid as one large project: Eighth St, S. Cass St, Park St, and W. Front St. By doing so, the overall bid package will have an estimated surplus of \$7,501.89.

Eighth Street Bridge | Eighth Street Bridge Repair (+Grant) - Cost

Funding Sources:

		Previous	2020/2021	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	Total
ACPF	Available Capital Projects Fund	\$0	\$195,000	\$0	\$0	\$0	\$0	\$0	\$195,000
FSG	Federal / State Grant	\$0	\$712,500	\$0	\$0	\$0	\$0	\$0	\$712,500
TIFOT	TIF Old Town	\$0	\$150,000	\$0	\$0	\$0	\$0	\$0	\$150,000
WAT	Water Fund	\$0	\$299,717	\$0	\$0	\$0	\$0	\$0	\$299,717

\$1,357,217 **Project Total:**

\$-163,209

COST DETAIL:

\$0 Study: \$0 Land Acquisition / ROW:

\$35.506 Engineering / Design:

\$1,484,920 Construction: \$5,500

Cost Total: \$1.520.426

Project Difference:

Annual Maint. Cost: Maint. Year Start:

Service Impact:

See Project Description.

Project Justification:

See Project Description.

Location Description:



BRIDGES-20-CIP

Bridges



BRIDGES-20-CIP Bridges

885-20-CIP North Cass Street Bridge Rehabilitation

Project Information

Submitted By: Visionary

Jean Derenzy Department: **Downtown Development**

Imperitive (Must Do)

Category: Tax Increment Financing Fund Group:

Staff Priority:

Tim Lodge

existing concrete box beam supported deck, widening and replacement

The work anticipated includes the removal and replacement of the

of the sidewalks, railings, approach pavement and related work.

Fund Detail:

TIF 97

Council Priority:

Department Head:

North Cass Street Bri North Cass Street Bridge Rehabilitation (+ - Cost

Funding Sources:

		Previous	2020/2021	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	Total
FSG	Federal / State Grant	\$0	\$913,500	\$0	\$0	\$0	\$0	\$0	\$913,500
IN	Inkind	\$183,000	\$0	\$0	\$0	\$0	\$0	\$0	\$183,000
TIF97	TIF 97	\$45,000	\$201,500	\$0	\$0	\$0	\$0	\$0	\$246,500

Project Total:

Cost Total:

Project Difference:

\$1,343,000

\$1,343,000

COST DETAIL:

\$0 Study: \$0 Land Acquisition / ROW:

\$183,000 Engineering / Design:

Construction: \$1,160,000

Annual Maint. Cost:

1905 Maint. Year Start:

Service Impact:

Improvement should lessen service burden.

Project Justification:

Bridge rehabilitation due the deck condition and known foundation type information.

Location Description:

North Cass Street bridge located between Grandview Parkway and E. Front Street.



BRIDGES-20-CIP

Category:

Bridges

586-20-CIP Park Street Bridge Repair

Project Information

Rob Baciagalupi Submitted By:

Visionary

Tax Increment Financing Fund Group:

TIF 97 Fund Detail:

Department: **Downtown Development**

Jean Derenzy

Department Head:

Essential (Should Do) Staff Priority:

Council Priority:

Rehabilitate bridge superstructure.

It is our intention to package the following bridges and bid as one large project: Eighth St, S. Cass St, Park St, and W. Front St. By doing so, the

overall bid package will have an estimated surplus of \$7,501.89.

Park Street Bridge Re Park Street Bridge Repair - Cost

Funding Sources:

	Previous	2020/2021	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	Total
FSG Federal / State Grant	\$0	\$807,500	\$0	\$0	\$0	\$0	\$0	\$807,500
TIF97 TIF 97	\$0	\$150,000	\$0	\$0	\$0	\$0	\$0	\$150,000

COST DETAIL:

Annual Maint. Cost:

\$0 Study:

\$0 Land Acquisition / ROW:

\$24,705 Engineering / Design:

Construction: \$616,260

\$5,500

Cost Total:

Project Total:

\$316,535 **Project Difference:**

\$957,500

\$640,965

1905 Maint. Year Start:

Service Impact:

N/A

Project Justification:

Based on bridge assessment

Location Description:

Park St



BRIDGES-20-CIP Bridges

187-20-CIP South Cass Street Bridge Repair

TIF 97

Project Information

Submitted By: Jean Der

Jean Derenzy Department:

Downtown Development

Concrete arch rehabilitation.

Category: Visionary

Tax Increment Financing

Department Head:

Staff Priority:

Council Priority:

Tim Lodge
Essential (Should Do)

It is our intention to package the following bridges and bid as one large project: Eighth St, S. Cass St, Park St, and W. Front St. By doing so, the

overall bid package will have an estimated surplus of \$7,501.89.

South Cass Street Br South Cass Street Bridge Repair(+TIF2) - Cost

Funding Sources:

Fund Group:

Fund Detail:

		Previous	2020/2021	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	Total
FSG	Federal / State Grant	\$0	\$807,500	\$0	\$0	\$0	\$0	\$0	\$807,500
TIF97	TIF 97	\$0	\$66,000	\$0	\$0	\$0	\$0	\$0	\$66,000
TIFOT	TIF Old Town	\$0	\$66,000	\$0	\$0	\$0	\$0	\$0	\$66,000

COST DETAIL:

Study:

\$0 \$0

Land Acquisition / ROW:

Engineering / Design:

\$62,578

Construction: \$744,142

\$5,500

Cost Total:
Project Difference:

Project Total:

\$939,500

\$806,720

\$132,780

Annual Maint. Cost: Maint. Year Start:

Service Impact:

See Project Description.

Project Justification:

See Project Description.

Location Description:



BRIDGES-20-CIP

Bridges

186-20-CIP South Union Street Bridge Repair

Project Information

Submitted By: Jean Derenzy

Department:

Downtown Development

Rehabilitate bridge superstructure.

Category:

Visionary

Department Head:

Tim Lodge

Fund Group: Tax Increment Financing

Staff Priority:

Essential (Should Do)

Fund Detail: TIF 97

IF 97 Council Priority:

South Union Street B South Union Street Bridge Repair (+TIF2) - Cost

Funding Sources:

		Previous	2020/2021	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	Total
FSG	Federal / State Grant	\$0	\$0	\$1,057,500	\$0	\$0	\$0	\$0	\$1,057,500
GEN	General Fund	\$0	\$0	\$74,500	\$0	\$0	\$0	\$0	\$74,500
TIF97	TIF 97	\$0	\$0	\$93,000	\$0	\$0	\$0	\$0	\$93,000
TIFOT	TIF Old Town	\$0	\$0	\$93,000	\$0	\$0	\$0	\$0	\$93,000

Project Total: \$1,318,000

COST DETAIL:

Study:

\$0 \$0

Land Acquisition / ROW:

Engineering / Design:

\$189,000

Construction:

\$1,134,000

Annual Maint. Cost:

Project Difference:

Cost Total:

\$1,323,000 \$-5,000

Maint, Year Start: 1905

Service Impact:

See Project Description.

Project Justification:

See Project Description.

Location Description:



BRIDGES-20-CIP Bridges

535-20-CIP West Front Street Bridge Replacement

Project Information

Jean Derenzy Submitted By:

Visionary Category:

Tax Increment Financing **Fund Group:**

TIF 97 Fund Detail:

Department:

Staff Priority:

Council Priority:

Downtown Development

Tim Lodge **Department Head:**

Imperitive (Must Do)

This project includes the complete removal and replacement of the existing concrete arch bridge with a new concrete bridge including aesthetic treatments. The current condition of the Front Street bridge is poor and very poor and it cannot be properly evaluated and renovated to meet current service and load carrying requirements. The City received \$1,100,000 in funding thru the MDOT Local Bridge Program which requires a 5% local match and the City to perform engineering for the

It is our intention to package the following bridges and bid as one large project: Eighth St, S. Cass St, Park St, and W. Front St. By doing so, the overall bid package will have an estimated surplus of \$7,501.89.

West Front Street Bri West Front Street Bridge Replacement - Cost

Funding Sources:

		Previous	2020/2021	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	Total
FSG	Federal / State Grant	\$0	\$1,181,560	\$0	\$0	\$0	\$0	\$0	\$1,181,560
TIF97	TIF 97	\$0	\$220,000	\$0	\$0	\$0	\$0	\$0	\$220,000
WAT	Water Fund	\$0	\$149,375	\$0	\$0	\$0	\$0	\$0	\$149,375
							-		

project.

COST DETAIL:

\$0 Study: \$0

Land Acquisition / ROW: \$38.405 Engineering / Design:

\$1,791,133 Construction:

\$5,500 Annual Maint, Cost:

Maint. Year Start:

Cost Total:

Project Difference:

Project Total:

\$1,829,538 \$-278,604

\$1,550,935

Service Impact:

See Project Description.

Project Justification:

See Project Description.

Location Description:

Page: 10	

Six Year Capital Improvement Plan Budget Year 2020-2021 by Program Name

All Projects Submitted for 2020-2021

Date/Time Printed: 1/30/2020 3:26 pm

Bold - Indicates	projects occurring in the first FY of the plan.											
+ - Indicates pro	pjects with multiple funding									<u>Over</u>	all Programming	Cost
Project ID		Cat	Previous	Fiscal Year 2020-2021	Fiscal Year 2021-2022	Fiscal Year 2022-2023	Fiscal Year 2023-2024	Fiscal Year 2024-2025	Fiscal Year 2025-2026	Project Cost	City Funds	Non-City Funds
Brown Bridg	ge											
+ 1106-20-CIP	ADA Accessible Watercraft Landing	V	\$0	\$0	\$0	\$0	\$100,000	\$0	\$0	\$100,000	\$50,000	\$50,000
+ 1105-20-CIP	Boardman River Recreation Plan	V	\$5,000	\$25,000	\$0	\$0	\$0	\$0	\$0	\$30,000	\$5,000	\$25,000
+ 975-20-CIP	Fish & Wildlife Habitat Improvements	М	\$70,000	\$180,000	\$0	\$0	\$0	\$0	\$0	\$250,000	\$45,000	\$205,000
853-20-CIP	Invasive Species Treatment	М	\$5,000	\$0	\$5,000	\$0	\$0	\$0	\$0	\$10,000	\$10,000	\$0
+ 856-20-CIP	Overlook (2) and Access Steps (3 sets)	V	\$0	\$0	\$0	\$45,000	\$0	\$0	\$0	\$45,000	\$22,500	\$22,500
+ 855-20-CIP	Overlook and Historical Display at Former Powerho	V	\$0	\$0	\$0	\$20,000	\$0	\$0	\$0	\$20,000	\$10,000	\$10,000
Total Brown B	Bridge			\$205,000	\$5,000	\$65,000	\$100,000	\$0	\$0	\$455,000	\$142,500	\$312,500



Brown Bridge BB-20-CIP

1106-20-CIP **ADA Accessible Watercraft Landing**

Project Information

Grand Traverse Conservation E Submitted By:

Department:

Department of Public Services

Replace existing landing with ADA accessible watercraft landing.

2024/2025

Category:

Visionary

Department Head:

Frank Dituri

Fund Group:

Brown Bridge Trust Parks Impro

Staff Priority:

Essential (Should Do)

Fund Detail:

BBTP

FSG

Brown Bridge Trust Parks Impro

Council Priority:

\$0

ADA Accessible Wate ADA Accessible Watercraft Landing

Federal / State Grant

Funding Sources:

	Previous	2020/2021
Brown Bridge Trust Parks	\$0	\$0

\$0

\$0

\$0

2021/2022

2022/2023

\$0

\$0

\$0

\$0

2023/2024

\$50,000

\$50,000

\$0 \$0

2025/2026

\$50,000 \$50,000

Total

Project Total: \$100,000

COST DETAIL:

Study:

\$0

Land Acquisition / ROW:

\$0

Engineering / Design:

\$25,000

Construction:

\$75,000

Cost Total:

\$100,000

\$0

Annual Maint. Cost:

Project Difference:

Maint. Year Start:

Service Impact:

Resource Management Contract w/GTCD

Project Justification:

River access for those with physical disabilities

Location Description:



Brown Bridge BB-20-CIP

1105-20-CIP **Boardman River Recreation Plan**

Project Information

Category:

Fund Detail:

Grand Traverse Conservation E Submitted By:

Department:

Department Head:

Department of Public Services

Essential (Should Do)

Frank Dituri

Development of a recreation plan for the Boardman River post dam removal to protect the river at Brown Bridge and the quiet area its self.

\$30,000

\$30,000

Project Total:

Cost Total:

Visionary Brown Bridge Trust Parks Impro Fund Group:

Brown Bridge Trust Parks Impro

Staff Priority: **Council Priority:**

Boardman River Rec Boardman River Recreation Plan - Cost

Funding Sources:

		Previous	2020/2021	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	Total
BBTP	Brown Bridge Trust Parks	\$0	\$5,000	\$0	\$0	\$0	\$0	\$0	\$5,000
FSG	Federal / State Grant	\$0	\$20,000	\$0	\$0	\$0	\$0	\$0	\$20,000
Р	Private	\$5,000	\$0	\$0	\$0	\$0	\$0	\$0	\$5,000

COST DETAIL:

\$30.000 Study:

\$0 Land Acquisition / ROW: \$0 Engineering / Design:

Construction: \$0

Annual Maint. Cost: \$0 **Project Difference:**

Maint. Year Start:

Service Impact:

Resource Management Contract w/GTCD

Project Justification:

Resource Protection

Location Description:



BB-20-CIP Brown Bridge

849-20-CIP Bucks Landing Renovation

Project Information

Submitted By: Dave Green
Category: Maintenance

Department:
Department Head:

Staff Priority:

Department of Public Services

Gravel and re-grade existing parking lot at Bucks Landing off Brown

Bridge Road; Replace fencing

Fund Group: Brown Bridge Maintenance Fur

Fund Detail: Brown Bridge Maintenance Fur

Council Priority:

Funding Sources:

Previous 2020/2021

\$0

\$0

2021/2022

Frank Dituri

Important (Could Do)

2022/2023

\$0

2023/2024 \$0 **2024/2025** \$0 **2025/2026** \$0

\$0

Total

\$0

\$0

\$0

Project Total:

COST DETAIL:

\$0

Study: \$0

Land Acquisition / ROW: \$0

Engineering / Design: \$0

Construction: \$0

Annual Maint. Cost:

Cost Total:

Project Difference:

Maint. Year Start:

Service Impact:

Brown Bridge Resource Management Contract w/GTCD

Project Justification:

Public Access maintenace

Location Description:



BB-20-CIP **Brown Bridge**

975-20-CIP Fish & Wildlife Habitat Improvements

Project Information

Category:

Grand Traverse Conservation E Submitted By:

Maintenance

Brown Bridge Maintenance Fur Fund Group:

Fund Detail:

Brown Bridge Maintenance Fur

Department: Department of Public Services

Frank Dituri **Department Head:**

Staff Priority:

Council Priority:

Important (Could Do)

Phase II Wood - In stream habitat and native species planting to provide forage, nesting and breeding sites for fish & wildlife. Riparian Planting will provide bank stabilization as well as habitat benefits. \$15,000

Grant funded 2018/2019

Fish & Wildlife Habita Fish & Wildlife Habitat Improvements

Funding Sources:

		Previous	2020/2021	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	Total
BBM	Brown Bridge Maintenance Fund	\$0	\$5,000	\$0	\$0	\$0	\$0	\$0	\$5,000
BBTP	Brown Bridge Trust Parks	\$40,000	\$0	\$0	\$0	\$0	\$0	\$0	\$40,000
FSG	Federal / State Grant	\$30,000	\$175,000	\$0	\$0	\$0	\$0	\$0	\$205,000

Project Total:

Cost Total:

\$250,000

\$250,000

COST DETAIL:

\$0 Study:

\$0 Land Acquisition / ROW: \$0 Engineering / Design:

Construction: \$250,000

Annual Maint. Cost: **Project Difference:**

Maint. Year Start:

Service Impact:

Brown Bridge Resource Management Contract w/GTCD

Project Justification:

Dam Removal

Location Description:



BB-20-CIP **Brown Bridge**

853-20-CIP **Invasive Species Treatment**

Project Information

Grand Traverse Conservation E Submitted By:

Maintenance

Brown Bridge Maintenance Fur Fund Group:

Brown Bridge Maintenance Fur Fund Detail:

Department: Department of Public Services

Frank Dituri **Department Head:**

Essential (Should Do)

Invasive Species Trea Invasive Species Treatment - Cost

Brown Bridge Maintenance

Funding Sources:

Category:

BBM

Previous \$5.000

Fund

2020/2021

Staff Priority:

Council Priority:

\$0

2021/2022

\$5.000

2022/2023 \$0

2023/2024

\$0

Bridge.

\$0

2024/2025

Treat/remove invasive species that threaten ecologic integrity of Brown

2025/2026 \$0

\$10,000

Total

Project Total:

\$10,000

COST DETAIL:

\$0 Study: \$0 Land Acquisition / ROW:

Engineering / Design: \$0

Construction: \$10,000

Annual Maint, Cost:

Maint, Year Start:

Cost Total:

\$10,000

Project Difference:

\$0

Service Impact:

Brown Bridge Resource Management Contract w/GTCD

Project Justification:

Bottom lands management

Location Description:



BB-20-CIP Brown Bridge

856-20-CIP Overlook (2) and Access Steps (3 sets)

Project Information

Submitted By: Grand Traverse Conservation E

Department:

Staff Priority:

Department of Public Services

Visionary

Department Head: Frank Dituri

Provide viewing opportunities and river access points to the "new" section of river to limit stream bank erosion caused by recreational foot

Important (Could Do)

Fund Group: Brown Bridge Trust Parks Impro

Brown Bridge Trust Parks Impro Council Priority:

Overlook (2) and Acc Overlook (2) and Access Steps (3 sets) - Cost

Funding Sources:

Category:

Fund Detail:

		Previous	2020/2021	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	Total
BBTP	Brown Bridge Trust Parks	\$0	\$0	\$0	\$22,500	\$0	\$0	\$0	\$22,500
FSG	Federal / State Grant	\$0	\$0	\$0	\$11,250	\$0	\$0	\$0	\$11,250
Р	Private	\$0	\$0	\$0	\$11,250	\$0	\$0	\$0	\$11,250
							_		

Project Total:

Cost Total:

\$45,000

\$45,000

COST DETAIL:

Study:

\$0 \$0 traffic.

Land Acquisition / ROW:

Engineering / Design: \$0

Construction: \$45,000

Annual Maint. Cost:

Project Difference:

Maint. Year Start:

Service Impact:

Brown Bridge Resource Management Contract w/GTCD

Project Justification:

Improve Recreation Access

Location Description:



BB-20-CIP **Brown Bridge**

855-20-CIP Overlook and Historical Display at Former Powerho

Project Information

Category:

Grand Traverse Conservation E Submitted By:

Visionary

Brown Bridge Trust Parks Impro Fund Group:

Brown Bridge Trust Parks Impro Fund Detail:

Department: Department of Public Services

Frank Dituri **Department Head:**

Staff Priority:

Council Priority:

Essential (Should Do)

Design and install an overlook and historic display featuring one of the turbines removed from the powerhouse during decommissioning of the

\$20,000

\$20,000

\$0

Project Total:

Cost Total:

dam.

Overlook and Historic Overlook and Historical Display at Former - Cost

Funding Sources:

		Previous	2020/2021	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	Total
BBTP	Brown Bridge Trust Parks	\$0	\$0	\$0	\$10,000	\$0	\$0	\$0	\$10,000
FSG	Federal / State Grant	\$0	\$0	\$0	\$5,000	\$0	\$0	\$0	\$5,000
Р	Private	\$0	\$0	\$0	\$5,000	\$0	\$0	\$0	\$5,000

COST DETAIL:

\$0 Study:

\$0 Land Acquisition / ROW: \$0 Engineering / Design:

Construction: \$20,000

Annual Maint. Cost: Project Difference:

Maint. Year Start:

Service Impact:

Brown Bridge Resource Management Contract w/GTCD

Project Justification:

Improved Recreation experience

Location Description:

Page: 19

Date/Time Printed: 1/30/2020 3:26 pm

Six Year Capital Improvement Plan

Budget Year 2020-2021 by Program Name

All Projects Submitted for 2020-2021

Bold - Indicates	s projects occurring in the first FY of the plan.												
+ - Indicates pr	+ - Indicates projects with multiple funding										Overall Programming Cost		
Project ID		Cat	Previous	Fiscal Year 2020-2021	Fiscal Year 2021-2022	Fiscal Year 2022-2023	Fiscal Year 2023-2024	Fiscal Year 2024-2025	Fiscal Year 2025-2026	Project	City Funds	Non-City Funds	
Cemetery													
47-20-CIP	Install Cremation Niches in Mausoleum	V	\$0	\$0	\$0	\$22,000	\$0	\$0	\$0	\$22,000	\$22,000	\$0	
48-20-CIP	Paving of Main Loop in First Addition	V	\$0	\$0	\$110,000	\$0	\$0	\$0	\$0	\$110,000	\$110,000	\$0	
Total Cemete	ery			\$0	\$110,000	\$22,000	\$0	\$0	\$0	\$132,000	\$132,000	\$0	



CEMETERY-20-CIP

Cemetery

47-20-CIP **Install Cremation Niches in Mausoleum**

Project Information

Lauren Vaughn Submitted By:

Department:

Staff Priority:

Department of Public Services

This project would allow additional burial options for families and utilize an area of the mausoleum that is currently not being used. It would also

Visionary Frank Dituri Category: **Department Head:** Fund Group: General

\$0

Important (Could Do)

make the lobby area more attractive and provide more revenue

\$0

Fund Detail: Cemetery **Council Priority:**

Install Cremation Nicl Install Cremation Niches in Mausoleum - Cost

General Fund

Funding Sources:

GEN

Previous 2020/2021

\$0

2021/2022

2022/2023

\$22,000

2023/2024

\$0

potential.

2024/2025

2025/2026

\$22,000

Total

\$22,000

Project Total:

\$0

COST DETAIL:

\$0

\$0 Study:

Land Acquisition / ROW: \$0

Engineering / Design:

\$22,000 Construction:

\$300 **Annual Maint. Cost:**

\$0

Cost Total:

\$22,000

Project Difference:

\$0

1905 Maint. Year Start:

Service Impact:

Little to no maintenance outside of that related to the sale and subsequent use of a niche.

Project Justification:

As more families use cremation as an option, having a Niche inside the mausoleum would fill a service need and also provide a revenue potential for the cemetery.

Location Description:

1400 East 8th



CEMETERY-20-CIP

Cemetery

48-20-CIP Paving of Main Loop in First Addition

Project Information

Lauren Vaughn Submitted By: Category:

Visionary

General Fund

General Fund Group:

Fund Detail: Cemetery Department:

Department Head:

Staff Priority:

Council Priority:

\$0

Department of Public Services

Frank Dituri

Imperitive (Must Do)

The roads in this area are dusty gravel and often have rough areas. This project would provide paved connections to all main parts of the cemetery. This would tie together the main cemetery road through Plat 1

to First Addition and Fourth Addition.

Paving of Main Loop Paving of Main Loop in First Addition - Cost

Funding Sources:

GEN

Previous

\$0

2020/2021

2021/2022 \$110.000

2022/2023 \$0

\$0

2023/2024 \$0

2024/2025 \$0

2025/2026 \$0

\$110.000

\$110,000

Total

Project Total:

COST DETAIL:

Study:

\$0 Land Acquisition / ROW: \$0 Engineering / Design:

\$110,000 Construction:

Annual Maint. Cost: \$500

1905 Maint. Year Start:

Cost Total:

\$110,000

\$0

Project Difference:

Service Impact:

Future patching and longterm replacement will be required.

Project Justification:

Increasing the paved pathways through the cemetery would help with dust control, winter maintenance (plowing) and aesthetics.

Location Description:

1400 East 8th Street

Page: 23

Date/Time Printed: 1/30/2020 3:26 pm

Six Year Capital Improvement Plan

Budget Year 2020-2021 by Program Name

All Projects Submitted for 2020-2021

	s projects occurring in the first FY of the plan . ojects with multiple funding									<u>Ove</u>	rall Programming	Cost
Project ID		Cat	Previous	Fiscal Year 2020-2021	Fiscal Year 2021-2022	Fiscal Year 2022-2023	Fiscal Year 2023-2024	Fiscal Year 2024-2025	Fiscal Year 2025-2026	Project Cost	City Funds	Non-City Funds
Civic												_
+ 870-20-CIP	Civic Square	V	\$0	\$0	\$0	\$0	\$6,000,000	\$0	\$0	\$6,000,000	\$1,000,000	\$5,000,000
+ 781-20-CIP	Farmers Market	V	\$0	\$0	\$3,300,000	\$0	\$0	\$0	\$0	\$3,300,000	\$600,000	\$2,700,000
82-20-CIP	Lower Boardman River Universal Access	С	\$0	\$300,000	\$0	\$0	\$0	\$0	\$0	\$300,000	\$300,000	\$0
1141-20-CIP	Stormwater	С	\$0	\$300,000	\$0	\$0	\$0	\$0	\$0	\$300,000	\$300,000	\$0
Total Civic				\$600,000	\$3,300,000	\$0	\$6,000,000	\$0	\$0	\$9,900,000	\$2,200,000	\$7,700,000



CIVIC-20-CIP

Civic

870-20-CIP Civic Square

Project Information

Submitted By: Rob Baciagalupi

Department:

Downtown Development

Public gathering space for Traverse Cityans and visitors

Category:

TIF97

Visionary

Department Head:

Jean Derenzy

Fund Group: Tax Increment Financing

TIF 97

Staff Priority: Council Priority: Important (Could Do)

Fund Detail: TIF 97

Civic Square (+Privat Civic Square (+Private) - Cost Funding Sources:

 Previous
 2020/2021

 Private
 \$0
 \$0

\$0 \$0 \$0 \$0 **2021/2022** \$0 **2022/2023** \$0 \$0 **2023/2024** \$5,000,000 \$1,000,000

\$0 \$0

2024/2025

\$0 \$0

\$1,000,000

\$5,000,000

\$6,000,000

\$6,000,000

\$0

Total

Project Total:

2025/2026

COST DETAIL:

Study:

\$0

\$0

\$0

Land Acquisition / ROW:

\$1,000,000

Engineering / Design:
Construction:

\$5,000,000

Annual Maint. Cost:

Project Difference:

Cost Total:

Difference

Maint. Year Start: 1905

Service Impact:

Additional landscaping and streetscape elements will result in additional services. Addition of restrooms will result in contracting services for maintenance if open year round. Renovation of the space will may result in rental i.e. issuing permits for use

Project Justification:

TIF 97

Location Description:

NE corner of State and Cass is where it is designate in the TIF plan



CIVIC-20-CIP

Category:

Р

TIF97

Civic

781-20-CIP

Farmers Market

Project Information

Rob Baciagalupi Submitted By:

Visionary

Tax Increment Financing Fund Group:

TIF 97

Fund Detail:

Downtown Development Department:

Department Head:

Staff Priority:

Council Priority:

Jean Derenzy

Essential (Should Do)

Reconstruction of the Farmers Market Lot B with permanent structure, wider sidewalks, river enhancements, lighting, and reconstruction of

parking lot. \$400,000 from Parking Fund.

Farmers Market - Co: Farmers Market - Cost

Private

TIF 97

Funding Sources:

2020/2021 2021/2022 2022/2023 2023/2024 2024/2025 2025/2026 **Previous** Total \$0 \$0 \$2,700,000 \$0 \$0 \$0 \$0 \$2,700,000 \$0 \$0 \$600,000 \$0 \$0 \$0 \$0 \$600,000

> \$3,300,000 Project Total:

Cost Total:

\$3,300,000

COST DETAIL:

\$0 Study: \$0 Land Acquisition / ROW:

\$300.000 Engineering / Design:

\$3,000,000 Construction:

Annual Maint. Cost: \$10,000 \$0 **Project Difference:**

1905 Maint. Year Start:

Service Impact:

Additional landscaping and placement of shed will require additional snowplowing services. Addition of restrooms will result in contracting services for maintenance if open year round. Renovation of the space and "birdhouse" will may result in rental i.e. issuing permits for use

Project Justification:

Boardman River Enhancement

Location Description:

See Lot B Rehab.



CIVIC-20-CIP Civic

82-20-CIP **Lower Boardman River Universal Access**

Project Information

Rob Baciagalupi Submitted By:

Department:

Downtown Development

Essential (Should Do)

To beautify and enhance the river environment for recreationalist and

fisheries.

Capital Category:

Tax Increment Financing

Department Head: Staff Priority:

Council Priority:

\$300,000

TIF 97

TIF 97

Lower Boardman Riv Lower Boardman River Universal Access- Cost **Funding Sources:**

Fund Group:

Fund Detail:

TIF97

Previous 2020/2021

\$0

2021/2022

Jean Derenzy

2022/2023 \$0

2023/2024

\$0

2024/2025

\$0

2025/2026

\$0

Total \$300.000

\$300,000 **Project Total:**

COST DETAIL:

\$0

Study:

\$0 \$0

\$0

Land Acquisition / ROW:

Engineering / Design:

\$300,000

Cost Total:

\$300,000

\$0

Annual Maint. Cost:

Project Difference:

Maint. Year Start:

Construction:

Service Impact:

The project may be in conjunction with other items, but would most likely result in maintenance to a boardwalk and landscaping and require additional services for snow removal

Project Justification:

Boardman River Enhancement

Location Description:

Lower Boardman River



CIVIC-20-CIP

646-20-CIP Redevelopment of Lot O

Civic

Project Information

Submitted By: Jean Derenzy

Category: Visionary

Fund Group: Tax Increment Financing

Fund Detail: TIF 97

Department: Downtown Development

Department Head: Jean Derenzy

Staff Priority: Essential (Should Do)

Council Priority:

Funding Sources:

Previous 2020/2021 2021/2022 2022/2023 2023/2024 2024/2025 2025/2026 Total \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0

Project Total:

\$0

\$0

\$0

COST DETAIL:

Maint. Year Start:

Study: \$0

Land Acquisition / ROW: \$0

Engineering / Design: \$0

Construction: \$0

Annual Maint. Cost:

Project Difference:

Cost Total:

Private/public partnership for developing a mixed use development

Service Impact:

Remove 25 space parking lot to build a mixed use development

Project Justification:

Better land use

Location Description:

NW Corner of State and Cass



CIVIC-20-CIP

Civic

1141-20-CIP

Category:

TIF97

Stormwater

Project Information

Jean Derenzy Submitted By:

Capital

Tax Increment Financing Fund Group:

TIF 97 Fund Detail:

TIF 97

Department: **Department Head:**

Staff Priority:

Council Priority:

Downtown Development

Jean Derenzy

Essential (Should Do)

Essential (Should Do)

STORMWATER

STORMWATER

Funding Sources:

Previous

\$0

2020/2021 \$300,000

2021/2022 \$0

2022/2023 \$0

\$0

2023/2024 \$0

STUDY

2024/2025 \$0

STORMWATER IMPROVEMENTS FOR DDA DISTRICT PER AECOM

2025/2026 \$0

\$300,000

Total

\$300,000 **Project Total:**

COST DETAIL:

Study:

Land Acquisition / ROW: \$0

\$0 Engineering / Design:

Construction: \$300,000

Annual Maint. Cost: \$5,000 Cost Total:

\$300,000

Project Difference:

\$0

1905 Maint. Year Start:

Service Impact:

WILL REDUCE STORMWATER IMPACTS INTO BOARDMAN RIVER AND BAY

Project Justification:

AECOM STUDY

Location Description:

DDA DISTRICT

Date/Time Printed: 1/30/2020 3:26 pm

Six Year Capital Improvement Plan

Budget Year 2020-2021 by Program Name

All Projects Submitted for 2020-2021

Bold - Indicat	tes projects occurring in the first FY of the plan.											
+ - Indicates	projects with multiple funding							<u>Ove</u>	Overall Programming Cost			
				Fiscal Year	Project	City	Non-City					
Project ID		Cat	Previous	2020-2021	2021-2022	2022-2023	2023-2024	2024-2025	2025-2026	Cost	Funds	Funds
Facilities												
1074-20-CIF	P Harbor Master Building Foundation Repair	М	\$0	\$0	\$300,000	\$0	\$0	\$0	\$0	\$300,000	\$300,000	\$0
+ 1114-20-CIP	NOAA Culvert Replacement	М	\$1,302,300	\$866,300	\$0	\$0	\$0	\$0	\$0	\$2,168,600	\$358,000	\$1,810,600
168-20-CIP	Union Street Dam Improvements	V	\$1,000,000	\$9,000,000	\$9,000,000	\$0	\$0	\$0	\$0	\$19,000,000	\$0	\$19,000,000
Total Facilit	ies			\$9,866,300	\$9,300,000	\$0	\$0	\$0	\$0	\$25,468,600	\$4,408,000	\$21,060,600



FACILITIES-20-CIP

Category:

Facilities

1074-20-CIP **Harbor Master Building Foundation Repair**

Project Information

Barry Smith Submitted By:

Maintenance

Marina Fund

Marina Fund Group:

Fund Detail: Marina Department:

Department Head:

Staff Priority:

Council Priority:

Department of Public Services

Frank Dituri

Imperitive (Must Do)

exterior of the building per the recommendations from the crack monitoring done in the summer of 2018. Repairs to the exterior includes concrete removal and replacement, helical piles, backfilling

and mobilization and demobilization. Interior repairs include masonry remove and replace, joint repair, drywall repair, painting and caulking.

Repairs to the Harbor Master Building foundation and the interior and

Per cost estimate provided by Machin Engineering in 2018.

\$0

Harbor Master Buildir Harbor Master Building Foundation Repair

Funding Sources:

MAR

Previous

\$0

2020/2021

\$0

2021/2022 \$300,000

2022/2023 \$0

2023/2024

\$0

2024/2025

2025/2026 \$0

Total \$300,000

Project Total:

\$300,000

COST DETAIL:

Study:

Land Acquisition / ROW: \$0

Engineering / Design:

Construction: \$300,000

Annual Maint. Cost:

\$0

\$0

Maint. Year Start:

Cost Total:

\$300,000

Project Difference:

Service Impact:

Once the repairs are complete, there should be no additional future repairs for this issue as this project should resolve the cracking and foundation issues.

Project Justification:

The foundation at the marina is cracking and causing damage to the harbor master building. Delaying the repairs could mean additional damage to the building which could result in increased repair costs as the scope changes.

Location Description:

1011 E Grandview Pkwy, Traverse City, MI 49684



FACILITIES-20-CIP

Facilities

1114-20-CIP NOAA Culvert Replacement

Project Information

Submitted By: Tim Lodge
Category: Maintenance

Fund Group: General
Fund Detail: Facilities

Department:
Department Head:

Engineering

Tim Lodge

Essential (Should Do)

Staff Priority: Council Priority: Ongoing restoration work in Kids Creek by improving in-stream habitat on a 3,000-foot section of the creek on City property south of Silver Lake Road. Restoration includes riparian buffer plantings along the creek, large wood placement at key locations, and the placement of toe wood on outside of stream meanders for habitat purposes. The project will improve a total of 4 priority road crossings in the City of Traverse City along Kids Creek that are having a negative hydrological effect on the stream by removing undersized culverts and replacing them with open bottom bridge structures.

City Engineering will lead design and construction efforts for the road crossing improvements and will provide engineering services and construction oversight as project match at an estimated amount to be \$166,500 over a period of 4 years. Construction is slated for the first two crossings in 2021.

NOAA Culvert Replac NOAA Culvert Replacement-C

Funding Sources:

		Previous	2020/2021	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	Total
FSG	Federal / State Grant	\$822,000	\$822,000	\$0	\$0	\$0	\$0	\$0	\$1,644,000
IN	Inkind	\$122,300	\$44,300	\$0	\$0	\$0	\$0	\$0	\$166,600
S	Sewer Fund	\$162,000	\$0	\$0	\$0	\$0	\$0	\$0	\$162,000
WAT	Water Fund	\$196,000	\$0	\$0	\$0	\$0	\$0	\$0	\$196,000

Project Total: \$2,168,600

COST DETAIL:

Study: \$0
Land Acquisition / ROW: \$0

Engineering / Design: \$166,600

Construction: \$2,002,000 Cost Total: \$2,168,600

Annual Maint. Cost: Project Difference: \$0

Maint. Year Start:

Service Impact:

Replacement of four street and stream crossings for which the City would otherwise be responsible.

Project Justification:

Will allow us to leverage receipt of nearly \$2.3 million in grant funds for improvements to Kids Creek.



FACILITIES-20-CIP

Facilities

Location Description:

Kids Creek south of Silver Lake Rd.

2 locations on Cedar Street. One location on Sixth Street and one location of Tributary A on Elmwood Avenue near Seventh Street.



FACILITIES-20-CIP

Category:

Facilities

871-20-CIP Senior Center building renovation

Visionary

Project Information

Tim Lodge Submitted By:

Senior Center Fund Fund Group:

Senior Center Fund Detail:

Department:

Department Head:

Staff Priority: **Council Priority:** Engineering

Tim Lodge

Important (Could Do)

Building Renovation- The Grand Traverse County Senior Center Network is presently housed at the city owned building at 801 E. Front Street in Traverse City. For some years it has been apparent that the facility is inadequate to meet the numerous uses and needs of our local seniors. This program is presently managed by the Grand Traverse

County Commission on Aging.

The Senior Center Fund has \$423,000 in savings originally collected by donations to the center toward a new building and which the City Commission has agreed to release the funds for a building remodel. The existing building footprint is 5,760 square feet. A design consultant has been hired and a proposed site plan with a building of 12,000 sft is being presented to county/city boards.

Senior Center buildin Senior Center building renovation (+Privat - Cost

Funding Sources:

		Previous	2020/2021	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	Total
LFG	Local / Foundation Grant	\$250,000	\$0	\$0	\$0	\$0	\$0	\$0	\$250,000
Р	Private	\$3,327,000	\$0	\$0	\$0	\$0	\$0	\$0	\$3,327,000
SCB	Senior Center Building Fund	\$423,000	\$0	\$0	\$0	\$0	\$0	\$0	\$423,000
							_		

Project Total:

\$4,000,000

\$0

COST DETAIL:

\$0 Study: \$0 Land Acquisition / ROW:

\$320.000 Engineering / Design:

\$3,680,000 Construction:

Annual Maint. Cost:

\$4,000,000 Cost Total:

Project Difference:

Maint. Year Start:

Service Impact:

None.

Project Justification:

Building upgrade.

Location Description:

801 E. Front Street



FACILITIES-20-CIP Facilities

168-20-CIP Union Street Dam Improvements

Project Information

Submitted By: Tim Lodge

Category: Visionary
Fund Group: General

Fund Detail: Facilities

Department:
Department Head:

Engineering

Frank Dituri

Staff Priority: Essential (Should Do)

Council Priority:

The goal of FishPass is to provide bi-directional movement of native and desirable fishes while removing or blocking invasive fishes on the Boardman River, Michigan. As part of the ongoing Boardman River Restoration Project, the Union Street Dam will be removed and replaced with a new and improved barrier. Below the barrier, a facility with multiple sorting channels and nature-like channel will be constructed as a place to demonstrate an integrated suite of technologies and techniques for selective fish passage and invasive species control. The project consists of a 1,481 square foot building with an office, fabrication room and public bathrooms is planned in the vicinity where a small cement block building currently exists. There are plans for connecting walks to adjacent parks and properties along with other features shown in the attached report. Approved by the Planning Commission for consistency with Master Plan on 1/3/17.

Union Street Dam Im Union Street Dam Improvements- Cost

Funding Sources:

		Previous	2020/2021	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	Total
FSG	Federal / State Grant	\$0	\$9,000,000	\$9,000,000	\$0	\$0	\$0	\$0	\$18,000,000
Р	Private	\$1,000,000	\$0	\$0	\$0	\$0	\$0	\$0	\$1,000,000

Project Total: \$19,000,000

Cost Total:

\$19.000.000

COST DETAIL:

Study: \$0
Land Acquisition / ROW: \$0
Engineering / Design: \$0

Construction: \$19,000,000

Annual Maint. Cost: Project Difference: \$0

Maint. Year Start:

Service Impact:

The building and public restroom will require ongoing maintenance. The improvements to the grounds may also require additional maintenance.

Project Justification:

Boardman River Enhancement

Location Description:

235 S. Union Street. The project is located in and around the existing earthen Union Street Dam which is located on Boardman River between Cass and Union Streets south of State Street.

Page: 37

Date/Time Printed: 1/30/2020 3:26 pm

Six Year Capital Improvement Plan

Budget Year 2020-2021 by Program Name

All Projects Submitted for 2020-2021

Bold - Indicates	s projects occurring in the first FY of the plan.											
+ - Indicates projects with multiple funding										<u>Ove</u>	rall Programming	Cost Cost
Project ID		Cat	Previous	Fiscal Year 2020-2021	Fiscal Year 2021-2022	Fiscal Year 2022-2023	Fiscal Year 2023-2024	Fiscal Year 2024-2025	Fiscal Year 2025-2026	Project	City Funds	Non-City Funds
Fire												
977-20-CIP	Fire detection and suppression system installatio	М	\$0	\$131,250	\$89,250	\$0	\$0	\$0	\$0	\$220,500	\$220,500	\$0
Total Fire				\$131,250	\$89,250	\$0	\$0	\$0	\$0	\$220,500	\$220,500	\$0



TCFD-20-CIP

Category:

GEN

<u>Fire</u>

977-20-CIP Fire detection and suppression system installatio

Project Information

Submitted By: Jim Tuller

Maintenance

General Fund

Fund Group: General

Fund Detail: Fire

Department:

.

Jim Tuller

Fire

Imperitive (Must Do)

Both City fire stations currently have no fire detection or fire suppression systems in place to warn occupants of a fire, or to suppress a fire that breaks out. Both Stations house City Fire personnel 24/7 and hundreds

of thousands of dollars of emergency equipment.

Fire detection and su Fire detection and suppression system inst - Cost

Funding Sources:

Previous

\$0

2020/2021

\$131,250

Department Head:

Staff Priority:

Council Priority:

2021/2022

\$89,250

2022/2023

\$0

2023/2024 \$0 2024/2025

\$0

2025/2026 \$0

Cost Total:

Total \$220,500

\$220,500

Project Total: \$220,500

COST DETAIL:

Study: \$0

Land Acquisition / ROW: \$0 Engineering / Design: \$0

Construction: \$220,500

Annual Maint. Cost: Project Difference: \$0

Maint. Year Start:

Service Impact:

None.

Project Justification:

Protection of personnel and equipment

Location Description:

Traverse City Fire Department Station 1, 500 West Front Street and Station 2, 1313 E. 8th Street

Page: 40

Date/Time Printed: 1/30/2020 3:26 pm

Six Year Capital Improvement Plan

Budget Year 2020-2021 by Program Name

All Projects Submitted for 2020-2021

Bold - Indicates	projects occurring in the first FY of the plan .											
+ - Indicates pro	ejects with multiple funding									Ove	erall Programming	Cost
				Fiscal Year	Project	City	Non-City					
Project ID		Cat	Previous	2020-2021	2021-2022	2022-2023	2023-2024	2024-2025	2025-2026	Cost	Funds	Funds
Garage												
126-20-CIP	Annual Vehicle and Equipment Replacement	С	\$2,044,300	\$1,307,000	\$1,359,800	\$1,294,976	\$2,637,300	\$2,210,926	\$0	\$0	\$10,854,302	\$0
1187-20-CIP	Demolition of Building @ 535 Woodmere	С	\$0	\$150,000	\$0	\$0	\$0	\$0	\$0	\$150,000	\$150,000	\$0
1166-20-CIP	Hoist Replacement	С	\$0	\$0	\$0	\$0	\$220,000	\$0	\$0	\$220,000	\$220,000	\$0
1165-20-CIP	Old Salt Barn Repairs	М	\$0	\$55,000	\$0	\$0	\$0	\$0	\$0	\$55,000	\$55,000	\$0
Total Garage				\$1,512,000	\$1,359,800	\$1,294,976	\$2,857,300	\$2,210,926	\$0	\$425,000	\$11,279,302	\$0



GARAGE-20-CIP

Fund Group:

Fund Detail:

GAR

Garage

126-20-CIP Annual Vehicle and Equipment Replacement

Project Information

Submitted By: Dave Courtad

Department:

Department of Public Services

The garage annually purchases new equipment, vehicles, and

Category: Capital Department Head: Frank Dituri machinery to replace existing assets. These items to be replaced on an

Garage Staff Priority:

Garage Council Priority:

Imperitive (Must Do)

annual basis are based on cost effectiveness of ownership. This

allocation will not replace all vehicles and equipment

Annual Vehicle and E Annual Vehicle and Equipment Replacement - Cost

Funding Sources:

Previous \$2,044,300

2020/2021 \$1,307,000

2021/2022 \$1,359,800

2022/2023 \$1,294,976

2023/2024 \$2,637,300

2024/2025 \$2,210,926

2025/2026

\$0

Project Difference:

Total \$10,854,302

\$10,854,302

Project Total: \$10,854,302

COST DETAIL:

Study: \$0

Land Acquisition / ROW: \$0

Engineering / Design: \$0

Construction: \$0 Cost Total: \$0

Annual Maint. Cost:

Maint. Year Start:

Service Impact:

continued ability to carryout current level of service

Garage Fund

Project Justification:

work force equipment needs

Location Description:

City-wide



GARAGE-20-CIP

Category:

GAR

Garage

Demolition of Building @ 535 Woodmere 1187-20-CIP

Capital

Garage Fund

Project Information

Dave Courtad Submitted By:

Department:

Department of Public Services

Building at 535 Woodmere demolition and abatment of asbestos and

Frank Dituri **Department Head:**

Garage Fund Group:

Staff Priority:

\$150,000

Imperative (Must Do)

Fund Detail: Garage **Council Priority:**

Demolition of Building Demolition of Building @ 535 Woodmere

Funding Sources:

2020/2021 Previous

\$0

2021/2022

2022/2023

\$0

2023/2024

\$0

lead paint materials

2024/2025

\$0

2025/2026

\$0

Total \$150,000

\$150,000 **Project Total:**

COST DETAIL:

\$0

Study:

\$0 \$0

Land Acquisition / ROW:

\$0 Engineering / Design:

Construction: \$150,000

Project Difference:

Cost Total:

\$150,000 \$0

Annual Maint. Cost: Maint. Year Start:

Service Impact:

clearing of properties for future City use

Project Justification:

Garage Ad-Hoc request to determine use of property recently purchased by the Garage Fund

Location Description:

535 Woodmere Ave



GARAGE-20-CIP

Category:

GAR

Garage

1166-20-CIP

Hoist Replacement

Project Information

Dave Courtad Submitted By:

Capital

Garage Fund

Garage Fund Group:

Fund Detail: Garage Department:

Department of Public Services

Frank Dituri **Department Head:**

Staff Priority:

Council Priority:

Essential (Should Do)

Funding Sources:

Previous

\$0

\$0

2020/2021 2021/2022 2022/2023

\$0

2023/2024 \$220,000

2024/2025 \$0

Replacement of in ground Hoists, repair parts have become obsolete

2025/2026 \$0

\$220,000

Total

Project Total:

\$220,000

COST DETAIL:

\$0

Study: \$0

Land Acquisition / ROW: \$0

\$20.000 Engineering / Design:

Construction: \$200,000 **Annual Maint. Cost:** \$1,000

Cost Total:

Project Difference:

\$220,000

\$0

1905 Maint. Year Start:

Service Impact:

continued Garage use for reopairs

Project Justification:

Hoists are getting old and obsolete, repair parts such as seals are become difficult to find.

Location Description:

625 Woodmere



GARAGE-20-CIP

Category:

GAR

Garage

1165-20-CIP

Old Salt Barn Repairs

Project Information

Submitted By: Dave Courtad

Maintenance

Fund Group: Garage

Fund Detail: Garage

Department:

Staff Priority:

Department Head:

Council Priority:

\$55.000

Department of Public Services

Re roof Barn and add a lean too.

Frank Dituri

Imperative (Must Do)

Old Salt Barn Repair Old Salt Barn Repair

Garage Fund

Funding Sources:

Previous 20

\$0

2020/2021 2021/2022

2022 2022/2023

\$0

2023/2024

\$0

2024/2025

\$0

2025/2026 \$0 **Total** \$55,000

Project Total: \$55,000

COST DETAIL:

\$0

Study: \$0

Land Acquisition / ROW: \$0 Engineering / Design: \$0

Construction: \$55,000

Annual Maint. Cost:

Project Difference:

Cost Total:

\$55,000

\$0

Maint. Year Start:

Service Impact:

continued Streets division use

Project Justification:

Must be repaired to maintain the integrity of the building

Location Description:

625 Woodmere

Page: 46



Six Year Capital Improvement Plan

Budget Year 2020-2021 by Program Name

All Projects Submitted for 2020-2021

Bold - Indicates	projects occurring in the first FY of the plan.											
+ - Indicates pro	pjects with multiple funding									Ove	rall Programming	Cost
Project ID		Cat	Previous	Fiscal Year 2020-2021	Fiscal Year 2021-2022	Fiscal Year 2022-2023	Fiscal Year 2023-2024	Fiscal Year 2024-2025	Fiscal Year 2025-2026	Project	City	Non-City
General Gov	/ernment	Cat	Trevious					2021 2020	2020 2020	Cost	Funds	Funds
784-20-CIP	Annual City Computers	М	\$30,000	\$30,000	\$30,000	\$30,000	\$30,000	\$30,000	\$30,000	\$0	\$210,000	\$0
4-20-CIP	City Document Management System	V	\$0	\$25,000	\$25,000	\$25,000	\$0	\$0	\$0	\$0	\$75,000	\$0
1029-20-CIP	Master Plan Vision and Re-Write_PlanningCommission	V	\$20,000	\$0	\$80,000	\$0	\$0	\$0	\$0	\$100,000	\$100,000	\$0
1111-20-CIP	Network Upgrade & Redesign - City Portion	М	\$27,600	\$27,600	\$27,600	\$27,600	\$27,600	\$0	\$0	\$138,000	\$138,000	\$0
+ 1104-20-CIP	New Utility Billing Software	М	\$0	\$116,000	\$0	\$0	\$0	\$0	\$0	\$116,000	\$116,000	\$0
1112-20-CIP	Purchase & Install Backup Generator - Opera House	С	\$0	\$30,000	\$25,000	\$0	\$0	\$0	\$0	\$55,000	\$55,000	\$0
1103-20-CIP	Replace Boiler - Carnegie Building	М	\$0	\$12,000	\$0	\$0	\$0	\$0	\$0	\$12,000	\$12,000	\$0
1101-20-CIP	Replace Chiller Unit - Carnegie Building	М	\$0	\$0	\$0	\$0	\$0	\$0	\$36,500	\$36,200	\$36,500	\$0
1096-20-CIP	Replace Packaged A/C Rooftop Units - Opera House	М	\$0	\$15,000	\$20,000	\$0	\$0	\$0	\$0	\$35,000	\$35,000	\$0
Total General	Government			\$255,600	\$207,600	\$82,600	\$57,600	\$30,000	\$66,500	\$556,200	\$841,500	\$0



GEN GOVT-20-CIP

General Government

784-20-CIP Annual City Computers

Project Information

Submitted By: Penny Hill

Department:

Manager

Replacement of general computer hardware and software

Category:

Maintenance

Department Head:

Marty Colburn

Fund Group: General

Staff Priority:

Essential (Should Do)

Fund Detail:

GEN

General Government

Council Priority:

Annual City Compute Annual City Computers - Cost

General Fund

Funding Sources:

Previous \$30,000 **2020/2021** \$30,000

2021/2022 \$30,000

2022/2023 \$30,000

2023/2024 \$30,000

2024/2025 \$30,000

2025/2026

Total \$210,000

\$210,000

Pr

Project Total:

\$30,000

COST DETAIL:

Study: \$0

Land Acquisition / ROW: \$0 Engineering / Design: \$0

Construction: \$0

Annual Maint. Cost: \$30,000

Cost Total: Project Difference: \$0 \$210,000

Maint. Year Start:

Service Impact:

Provides efficiencies in operations City-wide

Project Justification:

Cycles out obsolete or non-functioning equipment

Location Description:

City Wide



GEN GOVT-20-CIP

Category:

Fund Group:

General Government

4-20-CIP **City Document Management System**

Project Information

Penny Hill Submitted By:

Visionary

General

General Government Fund Detail:

General Fund

Department: **Department Head:** Manager

Marty Colburn

Essential (Should Do) Staff Priority: Essential (Should Do) **Council Priority:**

Document Imaging various City records.

For FY 2020-2021, City Manager's Office: Scan all current City easements, coordinate with GIS, Assessing, and Asset Management to

include these easements in a GIS layer and database.

Future Imaging project include:

Treasurer's office: Image all invoices, journal entries, financial reports, and receipts that support financial transactions. These documents

would then be searchable by anyone with inquiry access.

\$0

City Document Mana City Document Management System - Cost

Funding Sources:

GEN

2020/2021 **Previous**

\$25,000

\$0

2021/2022

\$25,000

2022/2023 \$25.000

2023/2024

\$0

2024/2025

2025/2026

\$0

Total \$75.000

\$75,000

\$0

Project Total:

COST DETAIL:

Study:

\$0 \$0

\$0

Land Acquisition / ROW:

Engineering / Design:

\$0 Construction: **Annual Maint. Cost:**

\$9,400

Cost Total:

\$75,000

Project Difference:

Maint. Year Start:

Service Impact:

This will increase Efficiency in the operations of the City and its Departments, and will reduce the time necessary to research and locate documents.

Project Justification:

This will move the City toward its goal of becoming more paperless, creating less waste and reducing our carbon footprint.

Location Description:

City Wide



Manager

Marty Colburn

Imperitive (Must Do)

GEN GOVT-20-CIP

General Government

1098-20-CIP Lighting Retrofit - Incandescents - Opera House

Project Information

Penny Hill Submitted By:

Maintenance Category: Opera House Fund Group:

Opera House Fund Detail:

TIF 97

Department:

Department Head:

Staff Priority:

Council Priority:

Imperitive (Must Do)

Per the 2018 Energy Assessment through Michigan Energy Options and SEEDS, it is recommended that the incandescent lights be replaced with LED and TLED lights. 80% of energy consumed by incandescent

lights is lost in the form of heat.

Lighting Retrofit - Inca Lighting Retrofit - Incandescent - Opera House

Funding Sources:

TIF97

2020/2021 **Previous**

\$0

\$18.000

2021/2022 \$0

2022/2023 \$0

2023/2024 \$0

2024/2025 \$0

2025/2026 \$0

\$18,000

Total

Project Total:

\$18,000

COST DETAIL:

\$0 Study: \$0 Land Acquisition / ROW:

\$0 Engineering / Design:

\$18,000 Construction:

Annual Maint. Cost:

1905 Maint. Year Start:

Cost Total:

\$18,000

Project Difference:

\$0

Service Impact:

Reduces energy consumption

Project Justification:

The recommended measure should provide an annual electricity savings of 56,759 kWh. The recommended measure will provide a total annual cost savings of \$6,972.66. Using the estimated initial investment of \$17,276, the project will have a simple payback of 2.48 years, and a Savings to Investment ratio (SIR) of 6.004

Location Description:

106 E Front Street



GEN GOVT-20-CIP

Category:

Fund Detail:

GEN

General Government

1102-20-CIP Lighting Retrofit - T-8 fixtures - Carnegie Bldg

Project Information

Penny Hill Submitted By: Maintenance

Department: Department Head:

Staff Priority:

Manager

Marty Colburn

SEEDS, it is recommended that the current T-8 lights be retroffited with TLED Fixtures.

General Fund Group:

General Government

Council Priority:

Imperitive (Must Do) Essential (Should Do)

Lighting Retrofit - T-8 Lighting Retrofit - T-8 fixtures - Carnegie Bldg

General Fund

Funding Sources:

2020/2021 **Previous** \$16.500 \$0

2021/2022 \$0

2022/2023 \$0

\$0

2023/2024 \$0

2024/2025 \$0

Per the 2018 Energy Assessment through Michigan Energy Options and

2025/2026 \$0

Project Total:

\$16.500

\$16,500

Total

COST DETAIL:

Study: Land Acquisition / ROW:

\$0 \$0 Engineering / Design:

\$16,500 Construction:

Annual Maint. Cost:

1905 Maint. Year Start:

Cost Total:

Project Difference:

\$16.500

\$0

Service Impact:

Reduces Energy Consumption

Project Justification:

The recommended measure should provide an annual electricity savings of 17,652 kWh. The recommended measure will provide a total annual cost savings of \$2,215. Using the estimated initial investment of \$19,484, the project will have a simple payback of 8.80 years, and a Savings to Investment ratio (SIR) of 1.692

Location Description:

322 Sixth Street



GEN GOVT-20-CIP

General Government

1099-20-CIP Lighting Retrofit - T-8 fixtures - Opera House

Project Information

Penny Hill Submitted By: Maintenance

Department:

Manager

Per the 2018 Energy Assessment through Michigan Energy Options and SEEDS, it is recommended that all T-8 fluorescent lights lamps be

Category: Opera House Fund Group:

TIF 97

Department Head: Staff Priority: **Council Priority:**

Imperitive (Must Do)

Marty Colburn

Imperitive (Must Do)

replaced with LED Lamps and TLED lamps.

Lighting Retrofit - T-8 Lighting Retrofit - T-8 fixtures - Opera House

Opera House

Funding Sources:

Fund Detail:

TIF97

2020/2021 **Previous** \$17.500

\$0

2021/2022 \$0

2022/2023 \$0

\$0

\$0

\$0

2023/2024 \$0

2024/2025

\$0

2025/2026 \$0

\$17.500

Total

Project Total:

\$17,500

COST DETAIL:

Study:

Land Acquisition / ROW: Engineering / Design:

\$17,500 Construction:

Annual Maint. Cost:

Cost Total:

\$17.500

Project Difference:

\$0

1905 Maint. Year Start:

Service Impact:

Reduce Energy consumption

Project Justification:

The recommended measure should provide an annual electricity savings of \$,354 kWh. The recommended measure will provide a total annual cost savings of \$657.77. Using the estimated initial investment of \$5,657, the project will have a simple payback of 8.60 years, and a Savings to Investment ratio (SIR) of 1.73.

Location Description:

106 E Front St



GEN GOVT-20-CIP

General Government

1029-20-CIP Master Plan Vision and Re-Write PlanningCommission

Project Information

Missy Luick Submitted By: Category:

Visionary

General

Fund Group:

General Government Fund Detail:

General Fund

Department Head:

Department:

Staff Priority:

Council Priority:

\$0

Planning and Zoning

Russ Soyring

Imperitive (Must Do)

Master Plan Review Committee recommended that the Planning Commission add a project to the CIP for an eventual Master Plan re-write. The process they envisioned included a community

engagement/vision process that could be followed by a Master Plan

2024/2025

re-write should the vision process result in that outcome.

Master Plan Vision ar Master Plan Vision and Re-Write_PlanningCommission

Funding Sources:

GEN

Previous

\$20.000

2020/2021

2021/2022

\$80.000

2022/2023 \$0

2023/2024 \$0

\$0

2025/2026 \$0

\$100.000

Total

\$100,000 Project Total:

COST DETAIL:

Study:

\$100,000

Land Acquisition / ROW:

\$0 Engineering / Design:

\$0 Construction:

Annual Maint. Cost:

\$0

Project Difference:

Cost Total:

\$100,000

\$0

Maint. Year Start:

Service Impact:

None.

Project Justification:

To make sure the Master Plan reflects the communities values

Location Description:

City-wide



GEN GOVT-20-CIP

Category:

Fund Detail:

GEN

General Government

1111-20-CIP Network Upgrade & Redesign - City Portion

Maintenance

General Fund

Project Information

Penny Hill Submitted By:

Department: **Department Head:** Manager

Marty Colburn

City portion of City/County Network upgrade & redesign including Core/firewall, Distribution, Network Access Controls, and cabling

General Fund Group:

Staff Priority: **Council Priority:**

\$27.600

Imperitive (Must Do)

upgrades

Network Upgrade & F Network Upgrade & Redesign - City Portion

General Government

Funding Sources:

2020/2021 **Previous**

\$27.600

2021/2022

\$27.600

2022/2023

\$27.600

2023/2024 \$27.600

2024/2025

\$0

2025/2026

\$0

Total \$138,000

\$138,000 Project Total:

COST DETAIL:

Study:

\$0 \$0

Land Acquisition / ROW:

\$0 Engineering / Design:

Construction: \$138,000

Cost Total:

\$138,000

\$0

Annual Maint. Cost:

Project Difference:

Maint. Year Start:

Service Impact:

Improve efficiency in operations due to increased internet speed and capacity. Improve security and reliability.

Project Justification:

Included in Grand Traverse County IT Strategic Plan

Location Description:

400 Boardman Avenue



Manager

Essential (Should Do)

GEN GOVT-20-CIP

Category:

S

WAT

General Government

1104-20-CIP New Utility Billing Software

Project Information

Submitted By: Penny Hill

Maintenance

General

Fund Group: General

Fund Detail: General Government

Department:

Department Head: Marty Colburn

Staff Priority:

Council Priority:

Replace existing HTE-Sungard-Superion software with BS&A Software. HTE-Sungard-Superion utilizes the IBM iSeries (AS-400) platform. It is

the mutual goal of the City and Grand Traverse County to phase out

software applications based on the AS-400 platform.

New Utility Billing Sof New Utility Billing Software

Sewer Fund

Water Fund

Funding Sources:

2020/2021 2021/2022 2022/2023 2023/2024 2024/2025 2025/2026 **Previous** Total \$0 \$58.000 \$0 \$0 \$0 \$0 \$0 \$58,000 \$0 \$58.000 \$0 \$0 \$0 \$0 \$0 \$58,000

Project Total: \$116,000

Cost Total:

Project Difference:

\$116,000

\$0

COST DETAIL:

Study:

\$0 \$0

Land Acquisition / ROW:

Engineering / Design: \$0

Construction: \$116,000

Annual Maint. Cost: \$6,600

Maint, Year Start: 1905

Service Impact:

Improve Efficiency and reliability by using an integrated software system

Project Justification:

It is the mutual goal of the City and Grand Traverse County to phase out software applications based on the AS-400 platform.

Location Description:

400 Boardman Avenue



GEN GOVT-20-CIP

General Government

1112-20-CIP Purchase & Install Backup Generator - Opera House

Project Information

Submitted By: Penny

Penny Hill Capital

Opera House

Opera House

Department:
Department Head:

Manager

Marty Colburn

Essential (Should Do)

Purchase and install backup generator on rooftop for emergency

electricity.

Category: Capital
Fund Group: Opera House

Staff Priority:

\$30.000

Council Priority:

Purchase & Install Ba Purchase & Install Backup Generator - Opera House

Funding Sources:

Fund Detail:

OPH

Previous 2020/2021

\$0

2021/2022

\$25.000

2022/2023

\$0

2023/2024

\$0

2024/2025 \$0

2025/2026

\$0

Total \$55,000

Project Total: \$55,000

COST DETAIL:

Study:

\$0 \$0

Land Acquisition / ROW: Engineering / Design:

\$0

Construction:

\$55,000

Cost Total:

\$55,000

\$0

Annual Maint. Cost: Maint. Year Start:

1905

Project Difference:

Service Impact:

Improve reliability of systems in the event of power failure.

Project Justification:

Equipment is needed in the event of power failure, will prevent people from getting stuck in the elevator during a power outage.

Location Description:

106 E. Front Street



GEN GOVT-20-CIP

Category:

GEN

General Government

1103-20-CIP Replace Boiler - Carnegie Building

Project Information

Penny Hill Submitted By:

Maintenance

General Fund Group:

General Government Fund Detail:

Department: **Department Head:** Manager

Marty Colburn

Essential (Should Do) Staff Priority:

Council Priority:

Per the 2018 Energy Assessment through Michigan Energy Options and SEEDS, it is recommended that the existing two hydronic boilers be replaced with new, high efficiency condensing boilers, which will improve the overall heating efficiency from 80% to approximately 95%.

By recovering energy from condensed water in the exhaust stream, the

boiler requires less fuel input for the same output of heating.

In 2019 received a grant through MCACA to assist with this project.

Replace Boiler - Carr Replace Boiler - Carnegie Bldg

General Fund

Funding Sources:

2020/2021 **Previous**

\$12,000

\$0

2021/2022

2022/2023 \$0

2023/2024

\$0

2024/2025 \$0

2025/2026

\$0

Total \$12,000

\$12,000 Project Total:

COST DETAIL:

\$0

\$0 Study: \$0 Land Acquisition / ROW: \$0 Engineering / Design:

Construction: \$12,000

Annual Maint. Cost:

\$12,000

\$0

Project Difference:

Cost Total:

Maint. Year Start:

Service Impact:

Reduces Energy Consumption

Project Justification:

The recommended measure should provide an annual natural gas savings of 1,339 ccf and will provide a total annual cost savings of \$803. Using the estimated initial investment of \$11,625, the project will have a simple payback of 14.47 years, and a Savings to Investment ratio (SIR) of 1.028.

Location Description:

322 Sixth Street



GEN GOVT-20-CIP

General Government

1097-20-CIP Replace Boiler - Opera House

Project Information

Penny Hill Submitted By:

Maintenance Category: Opera House

Fund Group: Opera House

Fund Detail:

TIF 97

Department:

Manager

Marty Colburn **Department Head:**

Essential (Should Do) Staff Priority:

Per the 2018 Energy Assessment through Michigan Energy Options and SEEDS, it is recommended that the existing boiler be replaced with a new high efficiency condensing boiler. Condensing boilers are an efficient way to heat a building. By recovering energy from condensed water in the exhaust stream, the boiler requires less fuel input for the

same output of heat.

Replace Boiler - Oper Replace Boiler - Opera House

Funding Sources:

TIF97

Previous

\$12,000

2020/2021 \$0

Council Priority:

2021/2022 \$0

2022/2023 \$0

2023/2024 \$0

2024/2025 \$0

2025/2026 \$0

Total \$12,000

Project Total:

\$12,000

COST DETAIL:

\$0 Study: \$0 Land Acquisition / ROW: \$0 Engineering / Design:

\$12,000 Construction:

Annual Maint, Cost:

1905 Maint. Year Start:

Cost Total:

\$12,000

Project Difference:

\$0

Service Impact:

Reduces Energy Consumption

Project Justification:

The recommended measure should provide an annual natural gas savings of -2,015 ccf and an annual cost savings of \$1,758.49. Using the estimated initial investment of \$11,325.00, the project will have a simple payback of 6.44 years, and a Savings to Investment ratio (SIR) of 2.31

Location Description:

106 F Front Street



GEN GOVT-20-CIP

Category:

Fund Detail:

GEN

General Government

1101-20-CIP Replace Chiller Unit - Carnegie Building

Project Information

Penny Hill Submitted By: Maintenance

Department: **Department Head:**

\$0

Manager

Marty Colburn

Essential (Should Do)

SEEDS, it is recommended that the current Chiller rooftop unit is approaching the end of its useful life, and should be replaced with a

General Fund Group:

General Government

Staff Priority: **Council Priority:**

\$0

new, higher efficiency unit.

Replace Chiller Unit - Replace Chiller Unit - Carnegie Bldg

General Fund

Funding Sources:

2020/2021 Previous

2021/2022 2022/2023 \$0

\$0

2023/2024

\$0

2024/2025 \$0

Per the 2018 Energy Assessment through Michigan Energy Options and

2025/2026 \$36.500

\$36.500 \$36,500

Total

COST DETAIL:

Study:

\$0 Land Acquisition / ROW: \$0 Engineering / Design:

\$36,200 Construction:

Annual Maint. Cost: Maint. Year Start:

1905

\$0

Cost Total:

Project Total:

\$36,200

Project Difference:

\$300

Service Impact:

Reduces energy consumption

Project Justification:

The recommended measure should provide an annual electricity savings of 8,293 kWh. The recommended measure will provide a total annual cost savings of \$1,041. Using the estimated initial investment of \$36,200, the project will have a simple payback of 34.78 years, and a Savings to Investment ratio (SIR) of .501.

Location Description:

322 Sixth Street



GEN GOVT-20-CIP

Fund Group:

Fund Detail:

OPH

General Government

1096-20-CIP Replace Packaged A/C Rooftop Units - Opera House

Project Information

Penny Hill Submitted By: Maintenance Category:

Opera House

Opera House

Opera House

Department:

\$15.000

Staff Priority:

Manager

Per the 2018 Energy Assessment through Michigan Energy Options and

SEEDS, it is recommended that the five rooftop A/C units are Marty Colburn **Department Head:** approaching the end of their useful lives, and should be replaced with

Essential (Should Do) new, high efficiency units

Council Priority:

\$0

Replace Packaged A/C Rooftop Units - Opera House

Funding Sources:

2020/2021 **Previous**

2021/2022

\$0

2022/2023 2023/2024

\$0

2024/2025 \$0

2025/2026 \$0

\$35,000

Total

\$35,000

\$35,000

COST DETAIL:

\$20.000

Study:

\$0 Land Acquisition / ROW:

\$0 Engineering / Design:

\$35,000 Construction:

Annual Maint. Cost:

\$0

Cost Total:

Project Total:

Project Difference: \$0

1905 Maint. Year Start:

Service Impact:

Reduces Energy Consumption

Project Justification:

The recommended measure will provide an annual electricity savings of 6,552 kWh, and provide a an annual cost savings of \$804.59. Using the estimated initial investment of \$34,675, the project will have a simple payback of 43.096 years and a Savings to Investment ratio (SIR) of 0.345.

Location Description:

106 E Front Street

Page: 61



Six Year Capital Improvement Plan Budget Year 2020-2021 by Program Name

All Projects Submitted for 2020-2021

	projects occurring in the first FY of the plan. pjects with multiple funding									- Ov	erall Programming	Cost
· - maicates pre	Joes with multiple funding			Fiscal Year	_		_					
Project ID		Cat	Previous	2020-2021	2021-2022	2022-2023	2023-2024	2024-2025	2025-2026	Project Cost	City Funds	Non-Ci Fund
ght and Po	ower											
1041-20-CIP	ALLEY BETWEEN STATE AND FRONT STREET	С	\$0	\$0	\$0	\$0	\$0	\$0	\$1,500,000	\$1,500,000	\$1,500,000	Ş
1039-20-CIP	BUILDING D REHABILITATION	С	\$50,000	\$0	\$250,000	\$0	\$0	\$0	\$0	\$300,000	\$300,000	:
1108-20-CIP	CRITICAL AND LARGE CUSTOMERS	С	\$925,000	\$925,000	\$0	\$0	\$0	\$0	\$0	\$1,850,000	\$1,850,000	:
1043-20-CIP	EAST FRONT STREET STREETSCAPE LIGHTING	С	\$0	\$0	\$0	\$0	\$56,000	\$0	\$0	\$56,000	\$56,000	,
808-20-CIP	EXTENSIONS AND NEW SERVICES	С	\$600,000	\$650,000	\$700,000	\$750,000	\$800,000	\$850,000	\$900,000	\$5,250,000	\$5,250,000	5
1030-20-CIP	FIBER TO THE PREMISE	С	\$4,050,000	\$4,050,000	\$4,050,000	\$4,050,000	\$0	\$0	\$0	\$16,200,000	\$16,200,000	5
1038-20-CIP	GRAND TRAVERSE SUBSTATION UPGRADES	С	\$500,000	\$693,000	\$0	\$0	\$0	\$0	\$0	\$1,193,000	\$1,193,000	Ş
1005-20-CIP	HARTMAN ROAD OVERHEAD TIE	С	\$0	\$400,000	\$600,000	\$0	\$0	\$0	\$0	\$1,000,000	\$1,000,000	(
824-20-CIP	HASTINGS SERVICE CENTER FACILITY IMPROVEMENTS	С	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$350,000	\$350,000	;
811-20-CIP	OVERHEAD LINE IMPROVEMENTS	С	\$350,000	\$400,000	\$450,000	\$500,000	\$550,000	\$600,000	\$650,000	\$3,500,000	\$3,500,000	5
1179-20-CIP	REBUILD CIRCUIT - CD-24 - SECTIONALIZING (NEW)	С	\$0	\$0	\$0	\$0	\$0	\$0	\$250,000	\$250,000	\$250,000	(
1125-20-CIP	REBUILD CIRCUIT - CD-31/SS-30 - SMART GRID	С	\$0	\$0	\$0	\$0	\$0	\$200,000	\$0	\$200,000	\$200,000	;
1116-20-CIP	REBUILD CIRCUIT - GRANDVIEW PKWY - PRIMARY	С	\$0	\$0	\$0	\$650,000	\$650,000	\$0	\$0	\$1,300,000	\$1,300,000	
1124-20-CIP	REBUILD CIRCUIT - HL-33 - LOCUST STREET	С	\$0	\$0	\$0	\$0	\$0	\$400,000	\$0	\$400,000	\$400,000	
1117-20-CIP	REBUILD CIRCUIT - HL-33 - WADSWORTH ST	С	\$0	\$0	\$0	\$0	\$0	\$85,000	\$0	\$85,000	\$85,000	
1180-20-CIP	REBUILD CIRCUIT - PC 32 - ASPEN DRIVE (NEW)	С	\$0	\$0	\$0	\$0	\$0	\$0	\$250,000	\$250,000	\$250,000	
1127-20-CIP	REBUILD CIRCUIT - PC-22 - PARSONS RD/MUNSON AVE	С	\$0	\$0	\$82,000	\$0	\$0	\$0	\$0	\$82,000	\$82,000	
1121-20-CIP	REBUILD CIRCUIT - PC-22 - MUNSON AVE - AVE B TO E	С	\$0	\$0	\$0	\$0	\$300,000	\$0	\$0	\$300,000	\$300,000	
1118-20-CIP	REBUILD CIRCUIT - PC-22 - MUNSON, DAVIS TO 3 MILE	С	\$0	\$0	\$0	\$0	\$0	\$370,000	\$0	\$370,000	\$370,000	
1122-20-CIP	REBUILD CIRCUIT - PC-22 - TOM'S MARKET EAST	С	\$0	\$0	\$0	\$0	\$0	\$150,000	\$0	\$150,000	\$150,000	



Six Year Capital Improvement Plan

Budget Year 2020-2021 by Program Name

All Projects Submitted for 2020-2021

	projects occurring in the first FY of the plan.									0	roll Drogramasia	Coot
Project ID	geas with multiple fulfalling	Cat	Previous	Fiscal Year 2020-2021	Fiscal Year 2021-2022	Fiscal Year 2022-2023	Fiscal Year 2023-2024	Fiscal Year 2024-2025	Fiscal Year 2025-2026	Project Cost	erall Programming City Funds	Non-Cit Fund
ight and Po	ower											
809-20-CIP	REBUILD CIRCUIT - PC-23 - MITCHELL CREEK	С	\$0	\$0	\$0	\$125,000	\$0	\$0	\$0	\$125,000	\$125,000	\$
1119-20-CIP	REBUILD CIRCUIT - PC-23 - MUNSON AVENUE	С	\$0	\$0	\$0	\$0	\$0	\$320,000	\$0	\$320,000	\$320,000	\$
1123-20-CIP	REBUILD CIRCUIT - SS-31 - CRESTWOOD	С	\$0	\$0	\$0	\$0	\$0	\$250,000	\$0	\$250,000	\$250,000	\$
1040-20-CIP	SCADA SYSTEM UPGRADE	С	\$0	\$0	\$0	\$250,000	\$0	\$0	\$0	\$250,000	\$250,000	\$
1177-20-CIP	SUBSTATION IMPROVEMENT - DISTRIBUTION RELAY (NEW)	С	\$0	\$0	\$0	\$0	\$0	\$0	\$250,000	\$250,000	\$250,000	\$
1178-20-CIP	SUBSTATION IMPROVEMENT - TRANSMISSION RELAY (NEW)	С	\$0	\$0	\$0	\$0	\$0	\$0	\$600,000	\$600,000	\$600,000	\$
815-20-CIP	SUBSTATION SWITCHING STATIONS	С	\$998,000	\$1,200,000	\$0	\$0	\$0	\$0	\$0	\$2,198,000	\$2,198,000	\$
819-20-CIP	SUBSTATION TRANSFORMER UPGRADES	С	\$0	\$0	\$0	\$0	\$1,525,000	\$0	\$0	\$1,525,000	\$1,525,000	\$
820-20-CIP	TRANSMISSION LINE RECONSTRUCTION	С	\$0	\$0	\$1,500,000	\$1,500,000	\$0	\$1,045,000	\$0	\$4,045,000	\$4,045,000	\$
1109-20-CIP	UNDERGROUND LINE IMPROVEMENTS	С	\$275,000	\$325,000	\$375,000	\$425,000	\$475,000	\$525,000	\$575,000	\$2,975,000	\$2,975,000	\$
829-20-CIP	UPGRADE FRONT ST LIGHTING CIRCUITS & RECEPTACLES	С	\$0	\$0	\$0	\$0	\$0	\$0	\$1,340,000	\$1,340,000	\$1,340,000	\$
1110-20-CIP	UTILITY BILLING SOFTWARE	С	\$0	\$350,000	\$0	\$0	\$0	\$0	\$0	\$350,000	\$350,000	\$
otal Light and	d Power			\$9,043,000	\$8,057,000	\$8,300,000	\$4,406,000	\$4,845,000	\$6,365,000	\$48,814,000	\$48,814,000	\$0



TCLP-20-CIP

Light and Power

1041-20-CIP ALLEY BETWEEN STATE AND FRONT STREET

Project Information

Submitted By: Karla Myers-Beman

Department:

Light and Power Service

Remove all overhead lines and transformers and install new

Category: Capital

Fund Group: Light and Power

Light and Power

Staff Priority: Council Priority:

Department Head:

2020/2021

\$0

Essential (Should Do)

Tim Arends

underground lines and transformers. The utility may need to purchase easements/real estate to set equipment or purchase vaults to set in

alley right of way.

\$0

ALLEY BETWEEN STATE AND FRONT STREET

Light and Power

Funding Sources:

Fund Detail:

LAP

Previous

\$0

2021/2022 \$0 2022/2023

\$0

2023/2024

2024/2025

2025/2026 \$1,500,000

Project Total:

Cost Total:

Project Difference:

Total \$1,500,000

\$0

\$1,500,000

\$1,500,000

\$0

COST DETAIL:

Study: \$0

Land Acquisition / ROW: \$0

Engineering / Design: \$0

Construction: \$1,500,000

Annual Maint. Cost:

Maint. Year Start:

Service Impact:

Increase reliability and aesthetics of the system

Project Justification:

Joint Project

Location Description:

Alley between State and Front Street



TCLP-20-CIP **Light and Power**

1039-20-CIP **BUILDING D REHABILITATION**

Project Information

Karla Myers-Beman Submitted By:

Capital

Light and Power

Light and Power

Department:

Staff Priority:

Council Priority:

\$0

Light and Power **Department Head:**

Tim Arends

Essential (Should Do)

Eliminate driveway, demolish the front office portion of the building, brick the new front of the building to match the existing service center

building.

BUILDING D REHAB BUILDING D REHABILITIATION

Light and Power

Funding Sources:

Category:

Fund Group:

Fund Detail:

LAP

Previous \$50.000

2020/2021

2021/2022 \$250.000

2022/2023 \$0

2023/2024 \$0

2024/2025 \$0

2025/2026 \$0

\$300.000

Total

\$300,000 **Project Total:**

COST DETAIL:

Maint. Year Start:

Study:

\$0 \$0

\$0

Land Acquisition / ROW: Engineering / Design:

Construction:

Annual Maint, Cost:

\$300,000

Cost Total:

\$300,000

\$0

Project Difference:

Service Impact:

Improve the inventory cycle process

Project Justification:

Internal analysis

Location Description:

1125 Hastings Street



TCLP-20-CIP

Light and Power

1108-20-CIP **CRITICAL AND LARGE CUSTOMERS**

Project Information

Karla Myers-Beman Submitted By:

Department:

Light and Power Service

Imperitive (Must Do)

Replacement of underground distribution facilities involving the use of

wire, meters, cabinets and transformers.

Capital Category: Light and Power Fund Group:

Staff Priority:

\$925.000

Department Head:

Fund Detail:

LAP

Light and Power **Council Priority:**

CRITICAL AND LARC CRITICAL AND LARGE CUSTOMER

Light and Power

Funding Sources:

2020/2021 Previous

\$925,000

2021/2022

Tim Arends

2022/2023

\$0

2023/2024

\$0

2024/2025

\$0

2025/2026

\$0

Total \$1.850.000

\$1.850.000

\$0

\$1,850,000 Project Total:

COST DETAIL:

\$0

Study:

\$0 \$0

Land Acquisition / ROW:

\$0 Engineering / Design:

Construction: \$1,850,000

Annual Maint. Cost:

Project Difference:

Cost Total:

Maint. Year Start:

Service Impact:

Upgrading lines will improve system reliability and minimize future maintenance costs.

Project Justification:

System study

Location Description:

Aero Park Industrial Park



TCLP-20-CIP **Light and Power**

1043-20-CIP EAST FRONT STREET STREETSCAPE LIGHTING

Project Information

Submitted By: Capital

Karla Myers-Beman

Light and Power

Light and Power

Light and Power

Department: **Department Head:** Light and Power Service

Tim Arends

Staff Priority: **Council Priority:**

\$0

Essential (Should Do)

New street lighting installations in conjunction with planned

streetscapes on East Front Street from Boardman Avenue to Holiday Inn with funding in accordance with TCL&P Street Lighting Operations and

Maintenance Planning and Decorative Lighting Policy.

EAST FRONT STREI EAST FRONT STREET STREETSCAPE LIGHTING

Funding Sources:

Category:

Fund Group:

Fund Detail:

LAP

2020/2021 **Previous**

\$0

2021/2022

2022/2023

\$0

2023/2024

\$56,000

2024/2025

\$0

2025/2026

Cost Total:

Project Difference:

\$0

Total \$56,000

\$56,000

\$56,000

\$0

Project Total:

COST DETAIL:

\$0

Study:

\$0 \$0

\$0

Land Acquisition / ROW:

Engineering / Design:

Construction: \$56,000

Annual Maint. Cost:

Maint. Year Start:

Service Impact:

Joint Project

Project Justification:

Joint Project

Location Description:

East Front Street between Boardman Avenue and Holiday Inn.



TCLP-20-CIP

Light and Power

808-20-CIP

EXTENSIONS AND NEW SERVICES

Project Information

Submitted By: Capital

Karla Myers-Beman

Department:

Light and Power Service

Construction/replacements of services involving the use of wire, poles,

Category: Light and Power Fund Group:

Department Head: Staff Priority:

\$650,000

Imperitive (Must Do)

Tim Arends

Fund Detail:

Distribution **Council Priority:**

EXTENSIONS AND 1 EXTENSIONS AND NEW SERVICES

Light and Power

Funding Sources:

LAP

2020/2021 Previous

\$600,000

2021/2022 \$700.000

2022/2023 \$750.000

2023/2024 \$800,000

meters, cabinets and transformers.

2024/2025 \$850.000

2025/2026

\$900.000

Total \$5.250.000

\$5,250,000 Project Total:

COST DETAIL:

Study:

\$0 \$0

\$0

Land Acquisition / ROW:

Engineering / Design:

\$5,250,000 Construction:

Annual Maint. Cost:

Project Difference:

Cost Total:

\$5,250,000

\$0

Maint. Year Start:

Service Impact:

Upgrading lines and extension and installing new services improving reliability and minimizing maintenance costs.

Project Justification:

New extensions and some upgrades are request of new customers and other improvements are to increase reliability of the system.

Location Description:

Entire service area



TCLP-20-CIP

Light and Power

1030-20-CIP

FIBER TO THE PREMISE

Project Information

Submitted By: Karla Myers-Beman

Department:

Light and Power Service

Deployment of a fiber optic network.

Category: Cap

Capital

Department Head:

\$4,050,000

Tim Arends

Fund Group: Light and Power

Staff Priority: Council Priority: Essential (Should Do)

Fund Detail:

FBR

Light and Power

FIBER TO THE PREI FIBER TO THE PREMISE

FIBER

Funding Sources:

Previous 2020/2021

\$4,050,000

2021/2022

\$4,050,000

2022/2023 \$4,050,000

2023/2024

\$0

2024/2025

\$0

2025/2026

\$0

Total \$16,200,000

Project Total: \$16,200,000

COST DETAIL:

Study:

\$0 \$0

Land Acquisition / ROW:

Engineering / Design: \$0

Construction:

\$16,200,000

Project Difference:

Cost Total:

\$16,200,000

\$0

Annual Maint. Cost:

Maint. Year Start:

Service Impact:

A new business within the utility

Project Justification:

Economic development

Location Description:

Entire service area.



TCLP-20-CIP

Light and Power

1038-20-CIP **GRAND TRAVERSE SUBSTATION UPGRADES**

Project Information

Submitted By: Capital

Karla Myers-Beman Department:

Light and Power Department Head:

Tim Arends

Installation of new control system, breakers, and switches along with land improvements of removing an unused foundation and expanding

the fence perimeter. Imperitive (Must Do)

Light and Power Fund Group:

Light and Power

Light and Power

Staff Priority: **Council Priority:**

\$693.000

GRAND TRAVERSE GRAND TRAVERSE SUBSTATION UPGRADES

Funding Sources:

Category:

Fund Detail:

LAP

2020/2021 **Previous**

\$500.000

2021/2022

2022/2023 \$0

\$0

2023/2024

\$0

2024/2025

\$0

2025/2026

Cost Total:

Project Difference:

\$0

Total \$1.193.000

\$1,193,000

\$1.193.000

\$0

Project Total:

COST DETAIL:

Study:

\$0

\$0 Land Acquisition / ROW:

\$0 Engineering / Design:

Construction: \$1,193,000

Annual Maint. Cost:

Maint. Year Start:

Service Impact:

Improve reliability

Project Justification:

Internal analysis and analysis completed by Wolverine Power Cooperative

Location Description:

Grand Traverse Substation - Keystone Road



TCLP-20-CIP **Light and Power**

1005-20-CIP HARTMAN ROAD OVERHEAD TIE

Project Information

Karla Myers-Beman Submitted By:

Department:

Light and Power Service

Essential (Should Do)

Allow a second feed into a circuit to enhance reliability in the southwest

service area.

Capital Category: Light and Power Fund Group:

Staff Priority:

Department Head:

\$400.000

Distribution Fund Detail: **Council Priority:**

HARTMAN ROAD O' HARTMAN ROAD OVERHEAD TIE

Light and Power

Funding Sources:

LAP

2020/2021 Previous

\$0

2021/2022

\$600.000

Tim Arends

2022/2023

\$0

2023/2024

\$0

2024/2025

\$0

2025/2026

Total \$1.000.000

\$1,000,000 **Project Total:**

COST DETAIL:

Study:

\$0

\$0 \$0

Land Acquisition / ROW: Engineering / Design:

\$1,000,000

Cost Total:

\$1.000.000

Annual Maint. Cost:

Project Difference:

\$0

\$0

Maint. Year Start:

Construction:

Service Impact:

Reduce the potential of future maintenance costs and increase reliability of the system.

Project Justification:

System study

Location Description:

Southeast part of the distribution system.



TCLP-20-CIP **Light and Power**

824-20-CIP HASTINGS SERVICE CENTER FACILITY IMPROVEMENTS

Project Information

Karla Myers-Beman Submitted By:

Light and Power Service Department:

Site improvements to existing facility.

Category:

Capital

Light and Power

Department Head:

\$50.000

Tim Arends

Light and Power Fund Group:

Staff Priority:

Essential (Should Do)

Facilities Fund Detail: **Council Priority:**

HASTINGS SERVICE HASTINGS SERVICE CENTER FACILITY IMPROVEMENTS

Funding Sources:

LAP

Previous 2020/2021

\$50.000

2021/2022

2022/2023

\$50.000

2023/2024 \$50,000

2024/2025 \$50.000

2025/2026

\$50.000

Project Total:

Total \$350,000

\$350,000

COST DETAIL:

\$50.000

Study:

\$0

\$0

Land Acquisition / ROW:

\$0 Engineering / Design:

Construction: \$350,000

Annual Maint. Cost:

Cost Total:

\$350,000

\$0 **Project Difference:**

Maint. Year Start:

Service Impact:

Efficiency of operations

Project Justification:

Internal analysis

Location Description:

1131 Hastings Street



TCLP-20-CIP

Light and Power

811-20-CIP **OVERHEAD LINE IMPROVEMENTS**

Project Information

Karla Myers-Beman Submitted By: Capital Category:

Department:

Light and Power

Accumulation of small construction/replacement projects of overhead distribution facilities involving the use of wire, poles, meters, cabinets

Department Head:

\$400.000

Staff Priority:

Tim Arends Imperitive (Must Do)

and transformers.

Light and Power Fund Group:

> Distribution **Council Priority:**

OVERHEAD LINE IM OVERHEAD LINE IMPROVEMENTS

Light and Power

Funding Sources:

Fund Detail:

LAP

2020/2021 Previous

\$350,000

2021/2022

\$450.000

2022/2023 \$500.000

2023/2024 \$550.000

2024/2025 \$600.000

2025/2026

Cost Total:

Project Difference:

\$650,000

Total \$3.500.000

\$3,500,000

\$3,500,000

\$0

Project Total:

COST DETAIL:

Study:

\$0 \$0

Land Acquisition / ROW:

\$0 Engineering / Design:

Construction: \$3,500,000

Annual Maint. Cost:

Maint. Year Start:

Service Impact:

Reduce the potential of future maintenance costs.

Project Justification:

Reliability of the system.

Location Description:

Entire Service Area



TCLP-20-CIP **Light and Power**

1179-20-CIP **REBUILD CIRCUIT - CD-24 - SECTIONALIZING (NEW)**

Project Information

Submitted By:

Karla Myers-Beman

Light and Power Department:

Replace deteriorated overhead/underground facilities with new wire, conduit, poles, et to include conversion of overhead facilities to

Capital Category: Light and Power Fund Group:

Light and Power

Department Head: Staff Priority:

Imperative (Must Do)

Tim Arends

underground as appropriate.

Council Priority: REBUILD CIRCUIT - REBUILD CIRCUIT - CD 24 - SECTIONALIZING (NEW)

Funding Sources:

Fund Detail:

LAP

2020/2021 2021/2022 2022/2023 2023/2024 2024/2025 2025/2026 **Previous** Total Light and Power \$0 \$0 \$0 \$0 \$0 \$0 \$250,000 \$250.000

\$0

\$250,000 Project Total:

Project Difference:

\$0

COST DETAIL:

Study:

\$0 Land Acquisition / ROW: \$0

Engineering / Design:

\$250,000 Construction: \$250,000 Cost Total:

Annual Maint. Cost:

Maint. Year Start:

Service Impact:

Rebuilding circuits to increase reliability of the system and minimize the potential of future maintenance costs.

Project Justification:

System study

Location Description:

Pine St south of Fourteenth St



TCLP-20-CIP **Light and Power**

Capital

Light and Power

Light and Power

1125-20-CIP **REBUILD CIRCUIT - CD-31/SS-30 - SMART GRID**

Project Information

Karla Myers-Beman Submitted By:

Department:

Light and Power

Replace deteriorated overhead/underground facilities with new wire, conduit, poles, etc to include conversion of overhead facilities to Tim Arends

Light and Power Fund Group:

Department Head: Staff Priority: **Council Priority:**

Imperitive (Must Do)

underground as appropriate.

REBUILD CIRCUIT- | REBUILD CIRCUIT- CD 31/SS-30 - SMART GRID

Funding Sources:

Category:

Fund Detail:

LAP

Previous 2020/2021 2021/2022 2022/2023 2023/2024 2024/2025 2025/2026 Total \$0 \$0 \$0 \$0 \$0 \$200.000 \$0 \$200.000

> \$200,000 Project Total:

Cost Total:

Project Difference:

\$200,000

\$0

COST DETAIL:

\$0 Study:

\$0 Land Acquisition / ROW: \$0 Engineering / Design:

Construction: \$200,000

Annual Maint. Cost:

Maint. Year Start:

Service Impact:

Rebuilding circuits to increase reliability of the system and minimize the potential of future maintenance costs.

Project Justification:

System study

Location Description:

Smart Grid Automatic Restoration



TCLP-20-CIP **Light and Power**

1116-20-CIP **REBUILD CIRCUIT - GRANDVIEW PKWY - PRIMARY**

Project Information

Category:

Fund Detail:

LAP

Submitted By:

Karla Myers-Beman Department:

Department Head:

Light and Power

Tim Arends

Replace deteriorated overhead/underground facilities with new wire, conduit, poles, etc to include conversion of overhead facilities to

Imperitive (Must Do)

Light and Power Fund Group:

Distribution

Light and Power

Capital

Staff Priority: **Council Priority:**

\$0

underground as appropriate.

REBUILD CIRCUIT - REBUILD CIRCUIT - GRANDVIEW PKWY - PRIMARY

Funding Sources:

2020/2021 **Previous**

\$0

2021/2022

2022/2023 \$650.000

2023/2024 \$650.000

2024/2025

\$0

2025/2026

\$0

Total \$1.300.000

\$1,300,000

\$0

\$1,300,000 Project Total:

COST DETAIL:

\$0

Study:

\$0 \$0

Land Acquisition / ROW:

\$0 Engineering / Design:

Construction: \$1,300,000

Annual Maint. Cost:

Project Difference:

Cost Total:

Maint. Year Start:

Service Impact:

Rebuilding circuits to increase reliability of the system and minimize the potential of future maintenance costs.

Project Justification:

System study

Location Description:

Grandview Parkway and behind buildings north of Front Street



TCLP-20-CIP **Light and Power**

1124-20-CIP **REBUILD CIRCUIT - HL-33 - LOCUST STREET**

Light and Power

Light and Power

Light and Power

Project Information

Category:

Fund Group:

Fund Detail:

LAP

Submitted By: Capital

Karla Myers-Beman Department:

\$0

Department Head:

Staff Priority:

Council Priority:

\$0

Light and Power

Tim Arends

Imperitive (Must Do)

Replace deteriorated overhead/underground facilities with new wire, conduit, poles, etc to include conversion of overhead facilties to

underground as appropriate.

REBUILD CIRCUIT - REBUILD CIRCUIT - HL-33 - LOCUST STREET

Funding Sources:

Previous 2020/2021 2021/2022

2022/2023

\$0

2023/2024

\$0

2024/2025 \$400.000

2025/2026

\$0

Total \$400.000

\$400,000 Project Total:

COST DETAIL:

\$0

Study:

\$0

Land Acquisition / ROW: Engineering / Design:

\$0 \$0

Construction: \$400,000

Project Difference:

Cost Total:

\$400,000

\$0

Annual Maint. Cost: Maint. Year Start:

Service Impact:

Rebuilding circuits to increase reliability of the system and minimize the potential of future maintenance costs.

Project Justification:

System study

Location Description:

Locust Street



TCLP-20-CIP **Light and Power**

1117-20-CIP **REBUILD CIRCUIT - HL-33 - WADSWORTH ST**

Project Information

Category:

LAP

Karla Myers-Beman Submitted By: Capital

Department:

Staff Priority:

Council Priority:

\$0

Light and Power Tim Arends

Replace deteriorated overhead/underground facilities with new wire, conduit, poles, etc to include conversion of overhead facilities to

Department Head:

Imperitive (Must Do)

underground as appropriate.

Light and Power Fund Group:

Light and Power Fund Detail:

Light and Power

REBUILD CIRCUIT - REBUILD CIRCUIT - HL-33 - WADSWORTH ST

\$0

Funding Sources:

Previous 2020/2021 2021/2022

2022/2023

\$0

2023/2024

\$0

2024/2025 \$85.000

2025/2026

\$0

Total \$85,000

\$85,000 Project Total:

COST DETAIL:

\$0

Study:

\$0

\$0

\$0 Land Acquisition / ROW:

Engineering / Design:

Construction: \$85,000

Annual Maint. Cost:

Project Difference:

Cost Total:

\$85,000

\$0

Maint. Year Start:

Service Impact:

Rebuilding circuits to increase reliability of the system and minimize the potential of future maintenance costs.

Project Justification:

System study

Location Description:

Wadsworth St from Fifth to Thirteenth Street



TCLP-20-CIP **Light and Power**

Light and Power

1180-20-CIP **REBUILD CIRCUIT - PC 32 - ASPEN DRIVE (NEW)**

Project Information

Submitted By:

Karla Myers-Beman Capital

Light and Power Department:

Replace deteriorate and overhead/underground facilities with new wire,

conduit, poles, etc to include conversion of overhead facilities to underground as appropriate.

Light and Power Fund Group:

Department Head: Staff Priority:

Imperative (Must Do)

Tim Arends

Light and Power Fund Detail: **Council Priority:**

REBUILD CIRCUIT - REBUILD CIRCUIT - PC 32 - ASPEN DRIVE (NEW)

Funding Sources:

Category:

LAP

2020/2021 2021/2022 2022/2023 2023/2024 2024/2025 2025/2026 **Previous** Total \$0 \$0 \$0 \$0 \$0 \$0 \$250,000 \$250.000

> \$250,000 Project Total:

Project Difference:

\$0

COST DETAIL:

\$0 Study:

\$0 Land Acquisition / ROW: \$0 Engineering / Design:

Construction: \$250,000

\$250,000 Cost Total:

Annual Maint. Cost:

Maint. Year Start:

Service Impact:

Rebuilding circuits to increase reliability of the system and minimize the potential of future maintenance costs.

Project Justification:

System study

Location Description:

Aspen Drive



TCLP-20-CIP **Light and Power**

1127-20-CIP REBUILD CIRCUIT - PC-22 - PARSONS RD/MUNSON AVE

Project Information

Category:

Fund Detail:

LAP

Submitted By: Capital

Karla Myers-Beman Department: Light and Power

Replace deteriorated overhead/underground facilities with new wire, conduit, poles, etc to include conversion of overhead facilities to

Tim Arends **Department Head:**

Light and Power Fund Group:

Staff Priority: **Council Priority:**

underground as appropriate. Imperitive (Must Do)

REBUILD CIRCUIT - REBUILD CIRCUIT - PC-22 - MUNSON AVENUE

Light and Power

Light and Power

Funding Sources:

2020/2021 2021/2022 2022/2023 2023/2024 2024/2025 2025/2026 **Previous** Total \$0 \$0 \$82.000 \$0 \$0 \$0 \$0 \$82,000

> \$82,000 Project Total:

> > \$82,000

\$0

COST DETAIL:

\$0 Study:

\$0 Land Acquisition / ROW: \$0 Engineering / Design:

Construction:

\$82,000

Annual Maint. Cost:

Project Difference:

Cost Total:

Maint. Year Start:

Service Impact:

Rebuilding circuits to increase reliability of the system and minimize the potential of future maintenance costs.

Project Justification:

System study

Location Description:

Back lot area from Parsons Rd to Munson Ave



TCLP-20-CIP **Light and Power**

1121-20-CIP REBUILD CIRCUIT - PC-22 - MUNSON AVE - AVE B TO E

Project Information

Karla Myers-Beman Submitted By: Capital

Department:

Light and Power

Replace deteriorated overhead/underground facilities with new wire, counduit, poles, etc to include conversion of overhead facilities to

Tim Arends **Department Head:** Imperitive (Must Do) Staff Priority:

Light and Power Fund Group:

Light and Power

Light and Power **Council Priority:** underground as appropriate.

REBUILD CIRCUIT - REBUILD CIRCUIT - PC-22 - MUNSON AVE - AVE B TO E

Funding Sources:

Category:

Fund Detail:

LAP

2020/2021 **Previous** \$0 \$0

2021/2022

2022/2023

\$0

\$0

\$0

2023/2024 \$300.000

2024/2025

\$0

2025/2026 \$0

\$300.000

\$300,000

Total

Project Total:

COST DETAIL:

\$0

Study:

\$0 Land Acquisition / ROW:

Engineering / Design:

Construction: \$300,000

Annual Maint. Cost:

Project Difference:

Cost Total:

\$300,000

\$0

Maint. Year Start:

Service Impact:

Rebuilding circuits to increase reliability of the system and minimize the potential of future maintenance costs.

Project Justification:

System study

Location Description:

Munson Avenue from Avenue B to Avenue E



TCLP-20-CIP **Light and Power**

1118-20-CIP **REBUILD CIRCUIT - PC-22 - MUNSON, DAVIS TO 3 MILE**

Project Information

Karla Myers-Beman Submitted By: Capital

Department:

Light and Power Tim Arends

Imperitive (Must Do)

Replace deteriorated overhead/underground facilities with new wire, conduit, poles, etc to include conversion of overhead facilities to

Department Head:

Staff Priority:

underground as appropriate.

Light and Power Fund Detail: **Council Priority:**

Light and Power

Light and Power

REBUILD CIRCUIT - REBUILD CIRCUIT - PC-22 - MUNSON, DAVIS TO 3 MILE

Funding Sources:

Category:

LAP

Fund Group:

2020/2021 2021/2022 2022/2023 2023/2024 2024/2025 2025/2026 **Previous** Total \$0 \$0 \$0 \$0 \$0 \$370.000 \$0 \$370.000

\$0

\$370,000 Project Total:

\$370,000

\$0

COST DETAIL:

Study:

\$0 Land Acquisition / ROW:

\$0 Engineering / Design:

Construction: \$370,000 Cost Total:

Annual Maint. Cost:

Project Difference:

Maint. Year Start:

Service Impact:

Rebuilding circuits to increase reliability of the system and minimize the potential of future maintenance costs.

Project Justification:

System study

Location Description:

OH Munson Avenue from Davis Street to Three Mile Rd



TCLP-20-CIP **Light and Power**

1122-20-CIP **REBUILD CIRCUIT - PC-22 - TOM'S MARKET EAST**

Project Information

Karla Myers-Beman Submitted By: Capital

Department:

Council Priority:

\$0

2020/2021

Light and Power Tim Arends

Replace deteriorated overhead/underground facilities with new wire, conduit, poles, etc to include conversion of overhead facilities to

Category: **Department Head:** Light and Power Fund Group:

Light and Power

Light and Power

Imperitive (Must Do) Staff Priority:

underground as appropriate.

REBUILD CIRCUIT - REBUILD CIRCUIT - PC-22 - TOM'S MARKET EAST

Funding Sources:

Fund Detail:

LAP

Previous

\$0

2021/2022

2022/2023

\$0

2023/2024

\$0

2024/2025 \$150.000

2025/2026

\$0

Total \$150,000

\$150,000

\$150,000

\$0

Project Total:

COST DETAIL:

\$0

Study:

\$0 \$0

Land Acquisition / ROW:

\$0 Engineering / Design:

Construction: \$150,000

Project Difference:

Cost Total:

Maint. Year Start:

Annual Maint. Cost:

Service Impact:

Rebuilding circuits to increase reliability of the system and minimize the potential of future maintenance costs.

Project Justification:

System study

Location Description:

Behind Tom's Market East Bay



TCLP-20-CIP **Light and Power**

809-20-CIP REBUILD CIRCUIT - PC-23 - MITCHELL CREEK

Project Information

Submitted By: Capital

Karla Myers-Beman Department: Light and Power Service

Department Head:

Staff Priority:

Council Priority:

Tim Arends

Imperitive (Must Do)

Replace deteriorated overhead/underground facilities with new wire, conduit, poles, etc to include conversion of overhead facilities to

underground as appropriate.

REBUILD CIRCUIT F REBUILD CIRCUIT PC-23- MITCHELL CREEK

Light and Power

Distribution

Light and Power

Funding Sources:

Category:

Fund Group:

Fund Detail:

LAP

Previous 2020/2021 2021/2022 2022/2023 2023/2024 2024/2025 2025/2026 Total \$0 \$0 \$0 \$125.000 \$0 \$0 \$0 \$125,000

> \$125,000 Project Total:

Cost Total:

Project Difference:

\$125,000

\$0

COST DETAIL:

\$0 Study:

\$0 Land Acquisition / ROW: \$0 Engineering / Design:

Construction: \$125,000

Annual Maint. Cost:

Maint. Year Start:

Service Impact:

Rebuilding circuits to increase reliability of the system and minimize the potential of future maintenance costs.

Project Justification:

System study

Location Description:

Mitchell Creek



TCLP-20-CIP **Light and Power**

Light and Power

1119-20-CIP **REBUILD CIRCUIT - PC-23 - MUNSON AVENUE**

Project Information

Submitted By:

Karla Myers-Beman Capital

Department: **Department Head:**

Staff Priority:

Council Priority:

\$0

Light and Power Tim Arends

Replace deteriorated overhead/underground facilities with new wire, conduit, poles, etc to include conversion of overhead facilities to

Light and Power Fund Group:

Light and Power

Imperitive (Must Do)

underground as appropriate.

REBUILD CIRCUIT - REBUILD CIRCUIT - PC-23 - MUNSON AVENUE

Funding Sources:

Category:

Fund Detail:

LAP

2020/2021 **Previous**

\$0

2021/2022

2022/2023

\$0

2023/2024

\$0

2024/2025 \$320.000

2025/2026

\$0

Total \$320.000

Project Total:

\$320,000

COST DETAIL:

\$0

Study:

\$0 \$0

Land Acquisition / ROW:

\$0 Engineering / Design:

Construction: \$320,000

Annual Maint. Cost:

Project Difference:

Cost Total:

\$320,000

\$0

Maint. Year Start:

Service Impact:

Rebuilding circuits to increase reliability of the system and minimize the potential of future maintenance costs.

Project Justification:

System study

Location Description:

Munson Avenue from Three Mile to Four Mile Road



TCLP-20-CIP **Light and Power**

1123-20-CIP **REBUILD CIRCUIT - SS-31 - CRESTWOOD**

Project Information

Karla Myers-Beman Submitted By: Capital

Department:

Council Priority:

Light and Power Tim Arends

Replace deteriorated overhead/underground facilities with new wire, conduit, poles, etc to include conversion of overhead facilities to

Department Head: Light and Power Fund Group: Staff Priority:

Light and Power Fund Detail:

Light and Power

Imperitive (Must Do)

underground as appropriate.

REBUILD CIRCUIT - REBUILD CIRCUIT - SS-31 - CRESTWOOD

Funding Sources:

Category:

LAP

Previous 2020/2021 2021/2022 2022/2023 2023/2024 2024/2025 2025/2026 \$0 \$0 \$0 \$0 \$0 \$250.000 \$0

> \$250,000 Project Total:

Project Difference:

Total

\$0

\$250.000

COST DETAIL:

\$0 Study:

\$0 Land Acquisition / ROW:

\$0 Engineering / Design:

\$250,000 Construction: \$250,000 Cost Total:

Annual Maint. Cost:

Maint. Year Start:

Service Impact:

Rebuilding circuits to increase reliability of the system and minimize the potential of future maintenance costs.

Project Justification:

System study

Location Description:

Crestwood



TCLP-20-CIP

Category:

LAP

Light and Power

1040-20-CIP

SCADA SYSTEM UPGRADE

Project Information

Karla Myers-Beman Submitted By:

Capital

Light and Power Fund Group:

Light and Power Fund Detail:

Light and Power Service Department:

Department Head:

Staff Priority:

Council Priority:

\$0

\$0 \$0 Upgrade the system to allow it to interconnect with other related systems such as AMI, billing, GIS, OMS and other technologies.

SCADA SYSTEM UP SCADA SYSTEM UPGRADE

Light and Power

Funding Sources:

Previous 2020/2021

\$0

\$0

2021/2022

2022/2023 \$250.000

2023/2024 \$0

2024/2025 \$0

2025/2026 \$0

\$250,000

\$250,000

Total

Project Total:

Cost Total:

COST DETAIL:

Tim Arends

Essential (Should Do)

Study:

\$0

Land Acquisition / ROW:

Engineering / Design:

Construction: \$250,000

Annual Maint, Cost:

Project Difference:

\$250,000

\$0

Maint. Year Start:

Service Impact:

Improve reliability of the system

Project Justification:

Internal analysis

Location Description:

1131 Hastings Street and Substations



TCLP-20-CIP **Light and Power**

Capital

Light and Power

1177-20-CIP SUBSTATION IMPROVEMENT - DISTRIBUTION RELAY (NEW)

Project Information

Karla Myers-Beman Submitted By:

Department:

Light and Power

Tim Arends

Installation of more advanced relays to allow for faster identification and

clearing of faults within the distribution system.

Light and Power Fund Group:

Department Head: Staff Priority:

\$0

Imperative (Must Do)

Light and Power Fund Detail: **Council Priority:**

SUBSTATION IMPRC SUBSTATION IMPROVEMENT - DISTRIBUTION RELAY (NEW)

\$0

Funding Sources:

Category:

LAP

Previous 2020/2021 2021/2022

2022/2023

\$0

2023/2024

\$0

2024/2025

\$0

2025/2026

\$250,000

Total \$250,000

\$250,000

\$0

\$250,000 Project Total:

COST DETAIL:

\$0

Study:

\$0

Land Acquisition / ROW: \$0

\$0 Engineering / Design:

Construction: \$250,000

Annual Maint. Cost:

Project Difference:

Cost Total:

Maint. Year Start:

Service Impact:

Increase distribution system reliability.

Project Justification:

System study

Location Description:

All distribution substations



TCLP-20-CIP **Light and Power**

1178-20-CIP SUBSTATION IMPROVEMENT - TRANSMISSION RELAY (NEW)

Project Information

Karla Myers-Beman Submitted By:

Department:

Light and Power Tim Arends

Installatio of more advanced relays to allow for faster identification and

clearing of faults within the transmission system.

Category: Light and Power Fund Group:

Department Head: Staff Priority: **Council Priority:**

Imperative (Must Do)

Light and Power Fund Detail:

Capital

Light and Power

SUBSTATION IMPRC SUBSTATION IMPROVEMENT - TRANSMISSION RELAY (NEW)

\$0

Funding Sources:

LAP

Previous 2020/2021

\$0

2021/2022

2022/2023

\$0

2023/2024

\$0

2024/2025

\$0

2025/2026

\$600,000

Total \$600,000

\$600,000 Project Total:

COST DETAIL:

Study:

\$0

\$0 \$0

Land Acquisition / ROW:

Engineering / Design:

\$0

Construction: \$600,000

Cost Total:

\$600,000

\$0 **Project Difference:**

Annual Maint. Cost: Maint. Year Start:

Service Impact:

Increase system reliability

Project Justification:

System study

Location Description:

Transmission Substations



TCLP-20-CIP

Category:

Fund Group:

Fund Detail:

LAP

Light and Power

815-20-CIP SUBSTATION SWITCHING STATIONS

Project Information

Karla Myers-Beman Submitted By:

Capital

Light and Power

Light and Power

Light and Power

Light and Power Service Department:

Tim Arends **Department Head:**

Staff Priority:

\$1,200,000

Council Priority:

Installation of substation infrastructure and equipment. The addition of

switching equipment will allow for switching load on the looped transmission system for increased reliability.

SUBSTATION SWITC SUBSTATION SWITCHING STATION

Funding Sources:

2020/2021 Previous

\$998.000

2021/2022

2022/2023

\$0

Imperitive (Must Do)

\$0

2023/2024 \$0

2024/2025 \$0

\$0

2025/2026

Cost Total:

Project Difference:

\$2.198.000

\$2.198.000

\$0

Total

\$2,198,000 Project Total:

COST DETAIL:

\$0

Study:

Land Acquisition / ROW: \$0

\$0 Engineering / Design:

Construction: \$2,198,000

Annual Maint. Cost:

Maint. Year Start:

Service Impact:

Increase system reliability

Project Justification:

System study

Location Description:

Barlow Street Substation



TCLP-20-CIP Light and Power

819-20-CIP SUBSTATION TRANSFORMER UPGRADES

Project Information

Submitted By: Karla M
Category: Capital

Karla Myers-Beman **Department:**

Light and Power Service

Installation of higher rated transformers as recommended by Engineers for system reliability due to load growth and age of

Category: Capital

Fund Group: Light and Power

Substation

Light and Power

Department Head: Staff Priority:

Council Priority:

Imperitive (Must Do)

Tim Arends

transformers.

SUBSTATION TRANS SUBSTATION TRANSFORMER UPGRADES

Funding Sources:

Fund Detail:

LAP

Previous 2020/2021 2021/2022 2022/2023 2023/2024 2024/2025 2025/2026 Total \$0 \$0 \$0 \$0 \$1.525.000 \$0 \$0 \$1.525.000

Project Total: \$1,525,000

Project Difference:

\$0

COST DETAIL:

Study: \$0

Land Acquisition / ROW: \$0

Engineering / Design: \$0

Construction: \$1,525,000 **Cost Total:** \$1,525,000

Annual Maint. Cost:

Maint. Year Start:

Service Impact:

Minimize the potential of future maintenance costs.

Project Justification:

System study

Location Description:

Cass and Parsons Road Substations



TCLP-20-CIP

Category:

Fund Group:

Fund Detail:

LAP

Light and Power

820-20-CIP

TRANSMISSION LINE RECONSTRUCTION

Project Information

Submitted By: Capital

Karla Myers-Beman

Light and Power

Transmission

Light and Power

Department: **Department Head:**

Council Priority:

\$0

Light and Power

Tim Arends

Staff Priority:

Imperitive (Must Do)

Reconductor/rebuilding of existing 69kv transmission lines with new lines, higher poles and undergrounding portion of the line to bring

circuits to current day standards and in compliance with FAA

regulations.

TRANSMISSION LIN TRANSMISSION LINE RECONSTRUCTION

Funding Sources:

Previous

\$0

2020/2021 2021/2022 2022/2023

\$1.500.000

2023/2024

\$0

2024/2025 \$1.045.000 2025/2026

Total \$4.045.000

Project Total:

Cost Total:

\$0

\$4,045,000

COST DETAIL:

\$1.500.000

Study:

\$0 \$0

Land Acquisition / ROW:

\$0 Engineering / Design:

\$4,045,000 Construction:

Annual Maint. Cost:

Project Difference:

\$4,045,000

\$0

Maint. Year Start:

Service Impact:

Minimize the potential of future maintenance costs and increase reliability of the system.

Project Justification:

System study

Location Description:

1) Cass Road Substation to Cass Road Junction 2) Cass Road Junction to Hall Street Substation 3) Barlow Street Substation to Parsons Road Substation



TCLP-20-CIP **Light and Power**

Capital

Light and Power

1109-20-CIP UNDERGROUND LINE IMPROVEMENTS

Light and Power

Light and Power

Project Information

Karla Myers-Beman Submitted By:

Department: **Department Head:**

Staff Priority:

Council Priority:

\$325.000

Light and Power Service

Tim Arends

Imperitive (Must Do)

Accumulation of small construction/replacement projects of underground distribution facilities involving the use of wire, poles,

meters, cabinets and transformers.

UNDERGROUND LIN UNDERGROUND LINE IMPROVEMENTS

Funding Sources:

Category:

Fund Group:

Fund Detail:

LAP

Previous

\$275.000

2020/2021 2021/2022 2022/2023

\$425.000

\$0

2023/2024 \$475.000

2024/2025 \$525.000

2025/2026 \$575.000

Total \$2.975.000

\$2,975,000 **Project Total:**

COST DETAIL:

\$375.000

Study:

Land Acquisition / ROW: \$0 \$0

Engineering / Design:

Construction: \$2,975,000

Annual Maint, Cost:

Cost Total:

\$2,975,000

Project Difference:

\$0

Maint. Year Start:

Service Impact:

Improve reliability of the system.

Project Justification:

Internal analysis

Location Description:

Entire service area.



TCLP-20-CIP **Light and Power**

829-20-CIP **UPGRADE FRONT ST LIGHTING CIRCUITS & RECEPTACLES**

Project Information

Karla Myers-Beman Submitted By:

Department:

Light and Power

Tim Arends

Upgrade circuit to accommodate increased load and will consist of new

conduit, wire and addition of event outlets.

Light and Power Fund Group:

Department Head: Staff Priority: **Council Priority:**

\$0

Essential (Should Do)

Joint Projects Fund Detail:

Light and Power

Capital

UPGRADE FRONT S UPGRADE FRONT ST LIGHTING CIRCUITS & RECEPTACLES

\$0

Funding Sources:

Category:

LAP

2020/2021 **Previous**

2021/2022

2022/2023

\$0

2023/2024

\$0

2024/2025

\$0

2025/2026 \$1.340.000

Total \$1,340,000

\$1.340.000

\$1,340,000 Project Total:

COST DETAIL:

\$0

Study:

\$0 \$0

Land Acquisition / ROW:

\$0 Engineering / Design:

Construction: \$1,340,000

Cost Total:

Annual Maint. Cost:

Project Difference:

\$0

Maint. Year Start:

Service Impact:

Increase reliability and service to event holders for that circuit.

Project Justification:

Internal analysis

Location Description:

Downtown north and south along Front Street.



TCLP-20-CIP Light and Power

1110-20-CIP UTILITY BILLING SOFTWARE

Project Information

Submitted By: Karla Myers-Beman

Category: Capital

Fund Group: Light and Power

Fund Detail: Light and Power

Department: Light and Power Service

Department Head: Tim Arends

Council Priority:

Staff Priority: Imperitive (Must Do)

needed to integrate with the other software programs used at Light and Power to manage system outages, the GIS System and engineering analysis. Nor does it have a suitable customer service platform that provides the customer instantaneous information or requested variety of payment options. Additionally, the current software company has been sold several times with continuing diminish customer service with

The current utility billing software does not have multi-speak capability

\$350,000

\$350,000

\$0

Project Total:

Cost Total:

Project Difference:

upgrades and customer cases.

UTILITY BILLING SC UTILITY BILLING SOFTWARE

Funding Sources:

2021/2022 2020/2021 2022/2023 2023/2024 2024/2025 2025/2026 Previous Total LAP Light and Power \$0 \$350.000 \$0 \$0 \$0 \$0 \$0 \$350.000

COST DETAIL:

Study: \$0
Land Acquisition / ROW: \$0
Engineering / Design: \$0

Engineering / Design: \$0

Construction: \$350,000

Annual Maint. Cost:

Maint. Year Start:

Service Impact:

Improve customer service

Project Justification:

Internal analysis

Location Description:

Utility billing and Hastings Service Center

Page: 96	



Six Year Capital Improvement Plan Budget Year 2020-2021 by Program Name

All Projects Submitted for 2020-2021

	projects occurring in the first FY of the plan .									Ovo	rall Programming	Cost
Project ID	peed with manapic following	Cat	Previous	Fiscal Year 2020-2021	Fiscal Year 2021-2022	Fiscal Year 2022-2023	Fiscal Year 2023-2024	Fiscal Year 2024-2025	Fiscal Year 2025-2026	Project Cost	City Funds	Non-City Funds
Parking												
1133-20-CIP	Bike Infrastructure Expansion	V	\$0	\$20,000	\$20,000	\$20,000	\$20,000	\$20,000	\$0	\$100,000	\$100,000	\$0
1135-20-CIP	Hardy Handicap Door Operators	М	\$0	\$0	\$24,000	\$0	\$0	\$0	\$0	\$24,000	\$24,000	\$0
545-20-CIP	Lot B Rehab	V	\$0	\$0	\$400,000	\$0	\$0	\$0	\$0	\$400,000	\$400,000	\$0
979-20-CIP	Lot C Resurfacing	М	\$0	\$80,000	\$0	\$0	\$0	\$0	\$0	\$80,000	\$80,000	\$0
980-20-CIP	Lot J Resurfacing	М	\$0	\$50,000	\$0	\$0	\$0	\$0	\$0	\$50,000	\$50,000	\$0
981-20-CIP	Lot K Resurfacing	М	\$0	\$0	\$0	\$0	\$30,000	\$0	\$0	\$30,000	\$30,000	\$0
708-20-CIP	Lot O Remediation	М	\$0	\$0	\$430,000	\$0	\$0	\$0	\$0	\$430,000	\$430,000	\$0
982-20-CIP	Lot T Resurfacing	М	\$0	\$0	\$200,000	\$0	\$0	\$0	\$0	\$200,000	\$200,000	\$0
1134-20-CIP	Mobility Amenities	V	\$0	\$15,000	\$15,000	\$10,000	\$10,000	\$0	\$0	\$50,000	\$50,000	\$0
1136-20-CIP	Old Town ADA Door Operators	М	\$0	\$18,000	\$0	\$0	\$0	\$0	\$0	\$18,000	\$18,000	\$0
1082-20-CIP	Old Town Battery Backup Convert to Generator	М	\$0	\$50,000	\$0	\$0	\$0	\$0	\$0	\$50,000	\$50,000	\$0
1138-20-CIP	Old Town Boiler #1 and Pump Replacement	С	\$0	\$0	\$30,000	\$0	\$0	\$0	\$0	\$30,000	\$30,000	\$0
1139-20-CIP	Old Town Boiler #2 and Pump Replacement	С	\$0	\$0	\$15,000	\$0	\$0	\$0	\$0	\$15,000	\$15,000	\$0
1140-20-CIP	Old Town Boiler #3 and Pump Replacement	С	\$0	\$0	\$0	\$15,000	\$0	\$0	\$0	\$15,000	\$15,000	\$0
1072-20-CIP	Old Town Boiler Replacement	М	\$0	\$0	\$0	\$0	\$80,000	\$0	\$0	\$80,000	\$80,000	\$0
1059-20-CIP	Old Town Garage LED Light Conversion	М	\$0	\$0	\$0	\$100,000	\$0	\$0	\$0	\$100,000	\$100,000	\$0
1083-20-CIP	Old Town PTAC Units	М	\$0	\$0	\$0	\$0	\$50,000	\$0	\$0	\$50,000	\$50,000	\$0
1137-20-CIP	Old Town Solar Panels/Inverters	М	\$0	\$0	\$0	\$0	\$0	\$30,000	\$0	\$30,000	\$30,000	\$0
1132-20-CIP	Single Space Meter Expansion	V	\$0	\$20,000	\$20,000	\$20,000	\$20,000	\$20,000	\$0	\$100,000	\$100,000	\$0
1131-20-CIP	Single Space Meter Replacement	С	\$0	\$100,000	\$0	\$100,000	\$100,000	\$0	\$0	\$300,000	\$300,000	\$0
645-20-CIP	West Front St Redevelopment (BOND)	V	\$0	\$0	\$652,975	\$611,657	\$631,548	\$670,993	\$909,511	\$11,350,000	\$3,476,684	\$0
otal Parking				\$353,000	\$1,806,975	\$876,657	\$941,548	\$740,993	\$909,511	\$13,532,000	\$5,658,684	\$0



PARKING-20-CIP

Parking

Traverse City Parking System

1133-20-CIP **Bike Infrastructure Expansion**

Project Information

Nicole VanNess Submitted By:

Department:

Parking Services Jean Derenzy

Important (Could Do)

Expand bike parking options throughout the City; new or replace

inverted Us, bike shelter, bike shelter construction.

Category:

Fund Group:

Fund Detail:

APS

Visionary

Parking System

Department Head:

Staff Priority:

Council Priority:

Bike Infrastructure Expansion

Parking System

Funding Sources:

Previous

\$0

2020/2021 \$20,000

2021/2022

\$20,000

2022/2023 \$20,000

2023/2024 \$20,000

2024/2025

\$20,000

2025/2026

\$0

Total \$100,000

Project Total:

\$100,000

COST DETAIL:

Maint. Year Start:

\$0 Study:

Land Acquisition / ROW: \$0 \$0 Engineering / Design:

\$100,000 Construction:

\$2,000 **Annual Maint. Cost:** 1905

Cost Total:

\$100,000

\$0

Project Difference:

Service Impact:

No service impact

Project Justification:

Meets the objectives of the TDM Study

Location Description:

Any locations identified where bike parking should be replaced or added



PARKING-20-CIP Parking

1135-20-CIP **Hardy Handicap Door Operators**

Project Information

Nicole VanNess Submitted By:

Parking Services Department:

Scheduled replacement for 13 automatic door openers, replacement

Maintenance Category:

Department Head:

hardware and contractor services Jean Derenzy

Traverse City Parking System Fund Group:

Parking System

Essential (Should Do) Staff Priority:

Fund Detail: **Council Priority:**

Hardy Handicap Door Openers

Parking System

Funding Sources:

APS

2020/2021 2021/2022 2022/2023 2023/2024 2024/2025 2025/2026 Previous Total \$0 \$0 \$24.000 \$0 \$0 \$0 \$0 \$24,000

> \$24,000 Project Total:

Cost Total:

Project Difference:

\$24,000

\$0

COST DETAIL:

\$0 Study:

\$0 Land Acquisition / ROW: \$0 Engineering / Design:

Construction: \$24,000

Annual Maint. Cost: \$500

1905 Maint. Year Start:

Service Impact:

Temporary pedestrian tower access restrictions during replacement

Project Justification:

Scheduled replacement of existing automated buttons to increase performance

Location Description:

Hardy Parking Garage, 303 E State Street



PARKING-20-CIP Parking

Hardy PTAC Units 1081-20-CIP

Project Information

Nicole VanNess Submitted By:

Department:

Parking Services

Replace all PTAC units at the Hardy Parking Garage

Maintenance Category:

Traverse City Parking System

Department Head: Staff Priority:

Essential (Should Do)

Jean Derenzy

Fund Group: Fund Detail:

Parking System **Council Priority:**

Hardy PTAC Units - C Hardy PTAC Units - Cost

Parking System

Funding Sources:

APS

Previous 2020/2021

\$0

\$30,000

2021/2022

2022/2023

\$0

2023/2024

\$0

2024/2025

\$0

2025/2026

Project Total:

\$0

Total \$30,000

\$30,000

COST DETAIL:

Construction:

\$0

Study:

\$0

\$0 \$0

Land Acquisition / ROW: Engineering / Design:

\$30,000

Cost Total: **Project Difference:** \$30,000

\$0

Annual Maint. Cost:

1905 Maint. Year Start:

Service Impact:

No service impact

Project Justification:

Routine replacement, equipment at end of life

Location Description:

Hardy Parking Garage, 303 E State Street



PARKING-20-CIP Parking

545-20-CIP Lot B Rehab

Project Information

Submitted By: Nicole VanNess

Visionary

Fund Group: Traverse City Parking System

Parking System

Fund Detail: Parking System

y Department Head:

Council Priority:

Department:

Staff Priority:

\$0

Parking Services

Jean Derenzy

Important (Could Do)

Reconstruct Lot B per Farmers Market Plan. Could include the

replacement of meters with pay stations.

Lot B Rehab - Cost

Lot B Rehab - Cost

Funding Sources:

Category:

APS

Previous 2020/2021

\$0

2021/2022

2021/2022 202 \$400.000 \$0

2022/2023

\$0

\$0 \$0 **2023/2024** \$0 **2024/2025** \$0 **2025/2026** \$0 **Total** \$400,000

\$400,000

Project Total:

COST DETAIL:

Study:

Land Acquisition / ROW: Engineering / Design:

Construction: \$400,000

Annual Maint. Cost: \$2,500

Maint. Year Start: 1905

Cost Total:

\$400,000

Project Difference:

\$0

Service Impact:

Stop patches and replace lot.

Project Justification:

Lot is at max life. We need to replace top coat and reconstruct.

Location Description:

100 E. Grandview Pkwy; corner of Cass/Grandview Pkwy



PARKING-20-CIP Parking

979-20-CIP Lot C Resurfacing

Project Information

Submitted By: Nicole VanNess

Department:

Parking Services
Jean Derenzy

Resurface Lot C, which serves Clinch Park and downtown businesses

Category: Maintenance

Traverse City Parking System

Department Head: Staff Priority:

\$80.000

Essential (Should Do)

Fund Group: Fund Detail:

Parking System

Council Priority:

Lot C Resurfacing - C Lot C Resurfacing - Cost

Parking System

Funding Sources:

APS

Previous 2020/2021

\$0

2021/2022

2022/2023

\$0

2023/2024

\$0

2024/2025

\$0

2025/2026

\$0

Total \$80,000

\$80,000

Project Total:

COST DETAIL:

Construction:

\$0

Study:

\$0

\$0 \$0

Land Acquisition / ROW: Engineering / Design:

\$80,000

Cost Total:

\$80,000

Annual Maint. Cost:

Project Difference:

\$0

Maint. Year Start: 1905

Service Impact:

Stop patches and replace lot.

Project Justification:

Lot will near end of life. Should be included in Pavement Preservation for replacement.

Location Description:

200 E. Grandview Pkwy



PARKING-20-CIP **Parking**

980-20-CIP Lot J Resurfacing

Project Information

Nicole VanNess Submitted By:

Department:

Parking Services Jean Derenzy

Resurface Lot J, which serves the Union Street Dam area.

Maintenance Category:

Department Head: Traverse City Parking System

Staff Priority:

\$50.000

Essential (Should Do)

Fund Detail:

Fund Group:

APS

Parking System **Council Priority:**

\$0

Lot J Resurfacing - C Lot J Resurfacing - Cost

Parking System

Funding Sources:

2020/2021 **Previous**

2021/2022

2022/2023

2023/2024

\$0

2024/2025

\$0

2025/2026

\$0

Total \$50,000

\$50,000

Project Total:

COST DETAIL:

\$0

Study:

\$0 \$0

Land Acquisition / ROW: Engineering / Design:

\$0

\$0

Construction:

\$50,000

Cost Total: **Project Difference:** \$50,000

\$0

Annual Maint. Cost:

1905 Maint. Year Start:

Service Impact:

Stop patches and replace lot.

Project Justification:

Lot will near end of life. Should be included in Pavement Preservation for replacement.

Location Description:

300 S. Union/Union Street Dam



PARKING-20-CIP Parking

981-20-CIP Lot K Resurfacing

Project Information

Nicole VanNess Submitted By:

Maintenance

Traverse City Parking System

Fund Detail:

Parking System

Department: Parking Services

Department Head: Jean Derenzy

Council Priority:

Essential (Should Do) Staff Priority:

Add approximately 8 parking spaces east of existing Lot K if City is able to acquire/lease the Consumers Energy Property just north of the Union

Street Dam

Lot K resurfacing- Co Lot K resurfacing- Cost

Parking System

Funding Sources:

Category:

APS

Fund Group:

Previous 2020/2021 2021/2022 2022/2023 2023/2024 2024/2025 2025/2026 Total \$0 \$0 \$0 \$0 \$30.000 \$0 \$0 \$30,000

> \$30,000 **Project Total:**

COST DETAIL:

Study: \$0

Land Acquisition / ROW: \$0 \$0 Engineering / Design:

Construction: \$30,000

Annual Maint. Cost:

1905

Cost Total:

Project Difference:

\$0

\$30,000

Maint. Year Start:

Service Impact:

None.

Project Justification:

Maintenance

Location Description:

North of Union Street Dam



PARKING-20-CIP Parking

708-20-CIP Lot O Remediation

Project Information

Category:

APS

Fund Group:

Nicole VanNess Submitted By:

Maintenance

Traverse City Parking System

Parking System Fund Detail:

Parking Services Department: Jean Derenzy

Department Head:

Council Priority:

\$0

Staff Priority:

Important (Could Do)

Mitigation of contamination that likely is affecting adjacent properties

and the water table in close proximity to the Boardman River.

Five underground storage tanks exist at Lot O and likely are contributing

to soil contamination.

Lot O Remediation - (Lot O Remediation - Cost

Parking System

Funding Sources:

2020/2021 **Previous**

\$0

2021/2022 \$430.000

2022/2023 \$0

2023/2024 \$0

2024/2025 \$0

2025/2026 \$0

\$430.000

Total

\$430,000 Project Total:

COST DETAIL:

\$0 Study: \$0

Land Acquisition / ROW: \$0 Engineering / Design:

Construction: \$430,000

Annual Maint. Cost:

1905 Maint. Year Start:

Cost Total:

\$430,000

Project Difference:

\$0

Service Impact:

Stop patches and replace lot.

Project Justification:

Lot will near end of life. Should be included in Pavement Preservation for replacement.

Location Description:

100 E. State Street. Corner of State/Cass.



PARKING-20-CIP Parking

982-20-CIP Lot T Resurfacing

Project Information

Nicole VanNess Submitted By:

Department:

Parking Services

Essential (Should Do)

Resurface Lot T

Maintenance Category:

Traverse City Parking System

Department Head: Staff Priority:

Jean Derenzy

Fund Group:

Fund Detail:

APS

Parking System

Council Priority:

\$0

Lot T Resurfacing - C Lot T Resurfacing - Cost

Parking System

Funding Sources:

2020/2021 **Previous**

\$0

2021/2022 \$200,000

2022/2023

\$0

2023/2024

\$0

2024/2025

\$0

2025/2026

\$0

Total \$200,000

\$200,000 **Project Total:**

COST DETAIL:

Construction:

Study:

\$0

\$0

\$0

Land Acquisition / ROW: Engineering / Design:

\$200,000

Cost Total:

\$200,000

Annual Maint. Cost: Maint. Year Start:

1905

Project Difference:

\$0

Service Impact:

Stop patches and replace lot

Project Justification:

Lot near end of life. Should be included in Pavement Preservation for replacement.

Location Description:

100 E. Grandview Pkwy, Corner of Grandview Parkway/Union.



PARKING-20-CIP **Parking**

1134-20-CIP **Mobility Amenities**

Project Information

Nicole VanNess Submitted By:

> Visionary **Department Head:**

> > \$0

Traverse City Parking System Fund Group:

Parking System Fund Detail:

Mobility Amenities

Category:

APS

Mobility Amenities

Funding Sources:

Parking System

Previous

Department:

Staff Priority:

Council Priority:

2020/2021 \$15.000

2021/2022 \$15.000

Parking Services

Important (Could Do)

Jean Derenzy

2022/2023 \$10.000

2023/2024 \$10,000

2024/2025 \$0

Expand mobility amenities near parking locations.

2025/2026 \$0

\$50,000

Total

Project Total:

\$50,000

COST DETAIL:

Study: \$0

Land Acquisition / ROW: \$0 \$0 Engineering / Design:

Construction: \$50,000

Annual Maint. Cost: 1905 Maint. Year Start:

\$1,000

Cost Total:

\$50,000

\$0

Project Difference:

Service Impact:

No service impact.

Project Justification:

Meets the recommendations of the TDM Study

Location Description:

Any area near a parking location that will aid in park-once initiatives or make mobility options more appealing.



PARKING-20-CIP **Parking**

1136-20-CIP **Old Town ADA Door Operators**

Project Information

Nicole VanNess Submitted By:

Department: Parking Services Replace ADA door openers at all pedestrian doors.

Maintenance Category:

Traverse City Parking System Staff Priority: Jean Derenzy Essential (Should Do)

Fund Group: Parking System

Council Priority:

Department Head:

Old Town ADA Door (Old Town ADA Door Operators

Parking System

Funding Sources:

Fund Detail:

APS

2020/2021 2021/2022 2022/2023 2023/2024 2024/2025 2025/2026 Previous Total \$0 \$18.000 \$0 \$0 \$0 \$0 \$0 \$18,000

> \$18,000 **Project Total:**

> > \$18,000

\$0

COST DETAIL:

\$0 Study:

Land Acquisition / ROW: \$0 \$0 Engineering / Design:

Construction: \$18,000

Annual Maint. Cost: \$500 1905 Maint. Year Start:

Cost Total: **Project Difference:**

Service Impact:

Minimal impact during replacement

Project Justification:

The ADA openers are original to the install and need to be replaced to increase performance.

Location Description:

125 E Eighth Street at the Old Town Parking Garage



PARKING-20-CIP Parking

1082-20-CIP **Old Town Battery Backup Convert to Generator**

Project Information

Nicole VanNess Submitted By:

Department:

Parking Services

Replace battery backup system with a natural gas powered generator

Maintenance Category:

Department Head:

\$0

Jean Derenzy

Traverse City Parking System Fund Group:

Parking System

Staff Priority:

\$50.000

Important (Could Do)

Fund Detail:

APS

Parking System **Council Priority:**

Old Town Battery Bac Old Town Battery Backup Convert to Generator - Cos

Funding Sources:

2020/2021 **Previous**

2021/2022

2022/2023

\$0

2023/2024

\$0

2024/2025

\$0

2025/2026

\$0

Total \$50,000

\$50,000

Project Total:

COST DETAIL:

Construction:

\$0

Study:

\$0

Land Acquisition / ROW:

\$0 \$0

Engineering / Design:

\$50,000

\$1,500

Cost Total:

\$50,000

Annual Maint. Cost:

Project Difference:

Maint. Year Start:

1905

\$0

Service Impact:

Failure of battery backup system could result in failure of emergency lighting, inoperable equipment, and inoperable elevators

Project Justification:

A natural gas powered generator is cheaper than purchasing a replacement battery back up system, and the generator life is longer than the battery.

Location Description:

Old Town Parking Garage, 125 E Eighth Street



PARKING-20-CIP Parking

1138-20-CIP Old Town Boiler #1 and Pump Replacement

Project Information

Submitted By: Nicole VanNess Department: Parking Services Unit has exceeded useful life and should be replaced. This

Category: Capital Department Head: Jean Derenzy replacement will include the pump and relocating the sensor from Level

Fund Group: Traverse City Parking System Staff Priority: Imperative (Must Do) 4 to the ground level. The snowmelt controlls the entry/exit lanes at Old Town.

Fund Detail: Parking System Council Priority:

Old Town Boiler #1 aı Old Town Boiler #1 and Pump Replacement

Funding Sources:

2020/2021 2021/2022 2022/2023 2023/2024 2024/2025 2025/2026 **Previous** Total APS Parking System \$0 \$0 \$30.000 \$0 \$0 \$0 \$0 \$30,000

Project Total: \$30,000

\$30,000

\$0

Cost Total:

Project Difference:

COST DETAIL:

Study: \$0

Land Acquisition / ROW: \$0
Engineering / Design: \$0

Construction: \$30,000

Annual Maint. Cost: \$3,000

Maint, Year Start: 1905

Service Impact:

System will be inoperable during replacement. Additional annual maintenance contract for HVAC services and increase gas billing during months of operation.

Project Justification:

Needed to ensure lanes are clear from snow and ice.

Location Description:

125 E Eighth Street at the Old Town Parking Garage



PARKING-20-CIP **Parking**

1139-20-CIP Old Town Boiler #2 and Pump Replacement

Project Information

Nicole VanNess Submitted By:

Department:

Parking Services

Replace boiler #2 that provides snow melt

Category:

Capital

Parking System

Department Head:

Jean Derenzy

Fund Group:

Traverse City Parking System

Staff Priority:

Imperative (Must Do)

Fund Detail:

Parking System

Council Priority:

Old Town Boiler #2 aı Old Town Boiler #2 and Pump Replacement

Funding Sources:

2020/2021 Previous

\$0

2021/2022

2022/2023

2023/2024

2024/2025

2025/2026

Total

APS

\$0

\$15.000

\$0

\$0

\$0

\$0

\$15,000

Project Total:

\$15,000

COST DETAIL:

Annual Maint. Cost:

Study:

\$0 \$0

Land Acquisition / ROW:

\$0 Engineering / Design:

Construction: \$15,000

\$3,000

Cost Total:

\$15,000

\$0

Project Difference:

1905 Maint. Year Start:

Service Impact:

Annual HVAC contract services and increase gas billing during months of operation

Project Justification:

Needed to ensure lanes are clear of snow and ice

Location Description:

125 E Eighth Street at the Old Town Parking Garage



PARKING-20-CIP Parking

1140-20-CIP Old Town Boiler #3 and Pump Replacement

Project Information

Submitted By:

Nicole VanNess

Parking System

Department:

Parking Services

Replace boiler #3 and pump

Category:

Capital

Parking System

Department Head:

Jean Derenzy

Traverse City Parking System Fund Group:

Staff Priority: **Council Priority:**

\$0

Imperative (Must Do)

Old Town Boiler #3 aı Old Town Boiler #3 and Pump Replacement

Funding Sources:

Fund Detail:

APS

Previous

\$0

2020/2021 2021/2022

2022/2023

2023/2024

\$0

2024/2025

\$0

2025/2026

\$0

Total \$15,000

\$15,000 **Project Total:**

COST DETAIL:

\$0

Study:

\$0

Land Acquisition / ROW: \$0

\$15.000

Engineering / Design:

\$15,000

\$0

Cost Total:

\$15,000

Annual Maint. Cost:

Construction:

\$3,000

Project Difference:

Maint. Year Start:

1905

\$0

Service Impact:

Annual HVAC maintenance and increased gas billing during months of operation

Project Justification:

Needed to ensure lanes are free and clear of snow and ice.

Location Description:

125 E Eighth Street at Old Town Parking Garage



PARKING-20-CIP

Parking

1072-20-CIP **Old Town Boiler Replacement**

Project Information

Nicole VanNess Submitted By: Maintenance

Department: **Department Head:** Parking Services Jean Derenzy

Boilers are original to 2009 install. Boiler life is 10 years. 3 boilers

onsite.

Fund Group:

Category:

APS

Traverse City Parking System

Staff Priority:

Essential (Should Do)

Parking System Fund Detail:

Council Priority:

Old Town Boiler Repl. Old Town Boiler Replacement-C

Parking System

Funding Sources:

Previous 2020/2021 2021/2022 2022/2023 2023/2024 2024/2025 2025/2026 Total \$0 \$0 \$0 \$0 \$80.000 \$0 \$0 \$80,000

> \$80,000 **Project Total:**

COST DETAIL:

Study: \$0

Land Acquisition / ROW: \$0 \$0 Engineering / Design:

Construction: \$80,000

Annual Maint. Cost: Maint. Year Start:

1905

Cost Total:

\$80,000

\$0

Project Difference:

Service Impact:

None.

Project Justification:

Ensure operational snow melt

Location Description:

Old Town Parking Garage, 125 E. Eighth St.



PARKING-20-CIP **Parking**

1059-20-CIP **Old Town Garage LED Light Conversion**

Project Information

Nicole VanNess Submitted By:

Department:

Parking Services

Concert lighting to LED in order to reduce lighting costs and repairs.

Maintenance Category:

Department Head:

\$0

Jean Derenzy

Traverse City Parking System Fund Group:

Parking System

Staff Priority:

\$0

Important (Could Do)

Parking System Fund Detail: **Council Priority:**

Old Town Garage LEI Old Town Garage LED Light Conversion-Cost

Funding Sources:

APS

2020/2021 Previous

2021/2022

2022/2023 2023/2024

\$0

2024/2025

\$0

2025/2026

\$0

Total \$100,000

\$100,000 Project Total:

COST DETAIL:

\$0

Study:

\$0

\$0

\$0

\$100.000

Land Acquisition / ROW:

Engineering / Design:

Construction:

\$100,000

Cost Total:

\$100,000

Annual Maint. Cost:

Project Difference:

\$0

1905 Maint. Year Start:

Service Impact:

Lighting swap out may reduce lighting on some levels as conversion is taking place over replacement period.

Project Justification:

Replace all existing lighting and convert to a more energy efficient lighting system.

Location Description:

125 E. Eighth Street. Old Town Garage



PARKING-20-CIP

Parking

1083-20-CIP

Old Town PTAC Units

Project Information

Nicole VanNess Submitted By:

Department: **Department Head:** Parking Services

Replace all PTAC units at the Old Town Parking Garage. Replacement

Jean Derenzy

Maintenance Traverse City Parking System Fund Group:

Staff Priority:

Essential (Should Do)

Fund Detail:

Category:

APS

Parking System

Council Priority:

\$0

Old Town PTAC Units Old Town PTAC Units - Cost

Parking System

Funding Sources:

2020/2021 **Previous**

\$0

2021/2022

2022/2023

\$0

2023/2024 \$50.000

will be from the Old Town Fund 585-587

2024/2025

\$0

2025/2026 \$0

Total \$50,000

Project Total:

\$50,000

COST DETAIL:

\$0

Study:

\$0

Land Acquisition / ROW:

Engineering / Design:

Maint. Year Start:

\$0 \$0

Construction: \$50,000

Annual Maint. Cost:

\$1,000

1905

Cost Total:

\$50,000

\$0

Project Difference:

Service Impact:

No impact, equipment replacement

Project Justification:

Routine equipment replacement for end of life equipment.

Location Description:

Old Town Parking Garage, 125 E Eighth Street



PARKING-20-CIP Parking

1137-20-CIP Old Town Solar Panels/Inverters

Project Information

Nicole VanNess Submitted By:

Department: Parking Services Replace inverters for the solar panels

Maintenance Category:

Department Head:

Jean Derenzy

Traverse City Parking System Fund Group:

Staff Priority:

Important (Could Do)

Parking System Fund Detail:

Council Priority:

\$0

Old Town Solar Pane Old Town Solar Panels/Inverters

Parking System

Funding Sources:

APS

Previous 2020/2021

\$0

2021/2022

2022/2023

\$0

2023/2024

\$0

2024/2025 \$30,000

2025/2026

Project Total:

Total

\$30,000

\$0 \$30,000

COST DETAIL:

\$0

Study:

\$0

\$0

Land Acquisition / ROW:

\$0 Engineering / Design:

Construction: \$30,000

Annual Maint. Cost: \$1,500

Cost Total: **Project Difference:** \$30,000

\$0

1905 Maint. Year Start:

Service Impact: Minimal impact

Project Justification:

Extend useful life

Location Description:

125 E Eighth Street at the Old Town Parking Garage



PARKING-20-CIP **Parking**

1132-20-CIP **Single Space Meter Expansion**

Project Information

Nicole VanNess Submitted By:

Department:

Parking Services Jean Derenzy

This project will allow for expanding meter districts and adding metered

parking.

Category: Traverse City Parking System

Visionary

Department Head: Staff Priority:

Important (Could Do)

Fund Group: Fund Detail:

APS

Parking System

Council Priority:

\$20.000

Single Space Meter E Single Space Meter Expansion

Parking System

Funding Sources:

2020/2021 **Previous**

\$0

2021/2022 \$20,000

2022/2023 \$20.000

2023/2024 \$20,000

2024/2025 \$20,000

2025/2026 \$0

Total \$100,000

\$100,000 **Project Total:**

COST DETAIL:

Study:

\$0

1905

Land Acquisition / ROW:

Engineering / Design:

Maint. Year Start:

\$0 \$0

Construction: \$100,000

Annual Maint. Cost: \$5,000

\$100,000

\$0

Project Difference:

Cost Total:

Service Impact:

No service impact

Project Justification:

Planning for meter zone expansion and the costs associated with adding newly metered areas.

Location Description:

Newly created metered zones



PARKING-20-CIP Parking

1131-20-CIP **Single Space Meter Replacement**

Project Information

Nicole VanNess Submitted By:

Department:

Parking Services Jean Derenzy

This project will replace existing coin only meters with pay stations or

single space mechanisms that accept coin, cash and credit.

Capital Category: Fund Group:

Traverse City Parking System

Department Head: Staff Priority:

\$100,000

Essential (Should Do)

Fund Detail:

Parking System **Council Priority:**

\$0

Single Space Meter F Single Space Meter Replacement

Parking System

Funding Sources:

APS

2020/2021 **Previous**

2021/2022

2022/2023 \$100.000

2023/2024 \$100.000

2024/2025

\$0

2025/2026

\$0

Total \$300.000

\$300,000 Project Total:

COST DETAIL:

\$0

Study:

\$0 \$0

Land Acquisition / ROW: Engineering / Design:

\$0 \$300,000

Construction: **Annual Maint. Cost:**

\$20,000

Cost Total: **Project Difference:** \$300,000

\$0

1905 Maint. Year Start:

Service Impact:

Improved service to the public. Change over will require additional monthly fees for credit card processing and software subscription.

Project Justification:

Newer mechanisms will offer better reporting and ability to configure/schedule rate changes.

Location Description:

Metered zones throughout Traverse City



PARKING-20-CIP Parking

645-20-CIP West Front St Redevelopment (BOND)

Project Information

Jean Derenzy Submitted By: Visionary Category:

Department:

Parking Services

Build an approximately 410 space parking deck to serve the west side

Department Head:

Jean Derenzy

Tax Increment Financing Fund Group:

TIF 97

Staff Priority:

\$0

Essential (Should Do)

TIF 97 Fund Detail: **Council Priority:**

West Front St Redev West Front St Redevelopment (BOND) - Cost

Funding Sources:

TIF97

Previous

\$0

2020/2021 2021/2022 2022/2023

\$611.657

2023/2024 \$631.548

of downtown. This project is a bond.

2024/2025 \$670.993

2025/2026

\$909.511

Total \$3,476,684

Project Total: \$3,476,684

COST DETAIL:

\$652.975

Study:

\$0

Land Acquisition / ROW:

\$0

Engineering / Design:

\$1.050.000

Construction:

\$10,300,000

Cost Total:

\$11,350,000

Annual Maint, Cost:

\$220,000

Project Difference:

\$-7,873,316

Maint. Year Start:

1905

Service Impact:

Estimated annual maintenance of \$220,000

Project Justification:

Provide parking on west end. Free up existing surface lots for development.

Location Description:

145 W. Front Street. Corner W. Front/Pine.



Six Year Capital Improvement Plan Budget Year 2020-2021 by Program Name

All Projects Submitted for 2020-2021

	es projects occurring in the first FY of the plan.									Over	all Programming	Cost
Project ID	rojects with multiple funding	Cat	Previous	Fiscal Year 2020-2021	Fiscal Year 2021-2022	Fiscal Year 2022-2023	Fiscal Year 2023-2024	Fiscal Year 2024-2025	Fiscal Year 2025-2026	Project Cost	City Funds	Non-City Funds
Parks												
+ 928-20-CIP	American Legion Park Improvements	V	\$0	\$0	\$150,000	\$0	\$0	\$0	\$0	\$150,000	\$35,000	\$115,000
306-20-CIP	Ashton Park Playground	V	\$0	\$0	\$0	\$30,000	\$0	\$0	\$0	\$30,000	\$30,000	\$0
539-20-CIP	Boon Street Park Playground Improvements	V	\$0	\$58,000	\$0	\$0	\$0	\$0	\$0	\$58,000	\$58,000	\$0
+ 26-20-CIP	Bryant Park Improvements	V	\$15,000	\$50,000	\$145,000	\$0	\$0	\$0	\$0	\$210,000	\$95,000	\$115,000
1188-20-CIP	F&M Park Basketball Court Upgrade	M	\$0	\$30,000	\$0	\$0	\$0	\$0	\$0	\$30,000	\$30,000	\$0
1090-20-CIP	Franklin Street Promenade	С	\$0	\$0	\$0	\$0	\$79,500	\$0	\$0	\$79,500	\$79,500	\$0
1192-20-CIP	Hickory Hills Site Work	M	\$0	\$35,000	\$0	\$0	\$0	\$0	\$0	\$35,000	\$35,000	\$0
+ 1164-20-CIP	Hickory Hills Snowmaking	М	\$0	\$100,000	\$0	\$0	\$0	\$0	\$0	\$100,000	\$0	\$100,000
1190-20-CIP	Highland Park Play Equipment and entrance	С	\$0	\$30,000	\$0	\$0	\$0	\$0	\$0	\$30,000	\$30,000	\$0
+ 309-20-CIP	Indian Woods Playground	V	\$0	\$112,000	\$0	\$0	\$0	\$0	\$0	\$120,000	\$62,000	\$50,000
• 972-20-CIP	Mini Park Upgrade and East Downtown Entrance	V	\$0	\$0	\$0	\$0	\$55,000	\$0	\$0	\$55,000	\$30,000	\$25,000
785-20-CIP	Natural Features Inventory (Planning Commission)	V	\$0	\$20,000	\$0	\$0	\$0	\$0	\$0	\$20,000	\$20,000	\$0
684-20-CIP	Park Sign Replacement	M	\$30,000	\$30,000	\$0	\$0	\$0	\$0	\$0	\$60,000	\$60,000	\$0
543-20-CIP	Rose and Boyd Triangle Park (Jupiter Gardens)	V	\$0	\$23,000	\$0	\$0	\$0	\$0	\$0	\$23,000	\$23,000	\$0
+ 602-20-CIP	Senior Center -Bayfront Plan	V	\$0	\$0	\$0	\$0	\$0	\$161,888	\$0	\$161,888	\$0	\$161,888
+ 926-20-CIP	Senior Citizen Park Improvements	V	\$0	\$0	\$0	\$0	\$0	\$75,000	\$0	\$75,000	\$35,000	\$40,000
+ 927-20-CIP	Sunset Park Improvements	V	\$0	\$0	\$0	\$250,000	\$0	\$0	\$0	\$250,000	\$100,000	\$150,000
+ 1020-20-CIP	West End Beach Bathhouse Project	V	\$0	\$100,000	\$283,000	\$0	\$0	\$0	\$0	\$383,000	\$163,000	\$220,000
Total Parks				\$588,000	\$578,000	\$280,000	\$134,500	\$236,888	\$0	\$1,870,388	\$885,500	\$976,888



PARK-20-CIP

Category:

Fund Group:

Parks

928-20-CIP **American Legion Park Improvements**

Project Information

Derek Melville Submitted By:

Visionary

General

Fund Detail: Parks & Rec Department:

Department Head:

Staff Priority:

Important (Could Do) **Council Priority:**

The improvements to American Legion Park could include terracing to create different levels of the park to make it more usable for sitting

areas, small events and river access opportunities. Landscaping

around the Veteran's monument would also be important.

American Legion Par American Legion Park Improvements (+Grant - Cost

Funding Sources:

		Previous	2020/2021	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	Total
BBTP	Brown Bridge Trust Parks	\$0	\$0	\$35,000	\$0	\$0	\$0	\$0	\$35,000
LFG	Local / Foundation Grant	\$0	\$0	\$65,000	\$0	\$0	\$0	\$0	\$65,000
Р	Private	\$0	\$0	\$50,000	\$0	\$0	\$0	\$0	\$50,000

Department of Public Services

Frank Dituri

Project Total: \$150,000

\$150,000

COST DETAIL:

Study:

\$0 \$0

Land Acquisition / ROW:

Engineering / Design:

\$10,000

Construction:

\$140,000

\$1,000 **Annual Maint. Cost:**

Project Difference:

Cost Total:

Maint. Year Start:

1905

Service Impact:

Minimal increased costs for maintenance as compared to current operations.

Project Justification:

Currently the landscape of the park makes it difficult for the space to be used for gathering or small events so improvements would help activate the park. This project is listed in the Parks & Recreation 5 year master plan.

Location Description:

200 Washington Street



PARK-20-CIP **Parks**

306-20-CIP **Ashton Park Playground**

Project Information

Derek Melville Submitted By:

Visionary Category: General Fund Group:

Parks & Rec Fund Detail:

Department of Public Services Department:

Frank Dituri **Department Head:**

Council Priority:

Essential (Should Do) Staff Priority:

Replace existing play equipment with small structure designed for younger children. Larger play structure for older children is available at Willow Hill Elementary School. The new equipment would meet current

safety and ADA accessibility standards.

Ashton Park Playgrou Ashton Park Playground - Cost

Brown Bridge Trust Parks

Funding Sources:

BBTP

2020/2021 2021/2022 2022/2023 2023/2024 2024/2025 2025/2026 **Previous** Total \$0 \$0 \$0 \$30.000 \$0 \$0 \$0 \$30,000

> \$30,000 Project Total:

Cost Total:

Project Difference:

\$30,000

\$0

COST DETAIL:

\$0 Study:

\$0 Land Acquisition / ROW: \$0 Engineering / Design:

\$30,000 Construction:

Annual Maint. Cost: \$500

1905 Maint. Year Start:

Service Impact:

Minor impacts for City Parks operations. Annually wood chips will need to be spread.

Project Justification:

The existing playground equipment is outdated and non-ADA accessible. All new equipment will be selected to increase safety and ADA accessability.

Location Description:

1200 Wayne Street



PARK-20-CIP **Parks**

539-20-CIP **Boon Street Park Playground Improvements**

Project Information

Derek Melville Submitted By: Category:

Visionary

Brown Bridge Trust Parks

General Fund Group:

Parks & Rec Fund Detail:

Department: **Department Head:**

Staff Priority:

Council Priority:

\$58.000

Department of Public Services

Frank Dituri

Essential (Should Do)

This neighborhood park has a mixture of thirty year old and older pieces of play equipment. All equipment should be replaced, a new picnic area should be established and the trail should have defined ada pathways

(sidewalk or limestone fines) to improve access.

Boon Street Park Pla Boon Street Park Playground Improvements - Cost

Funding Sources:

BBTP

2020/2021 **Previous**

\$0

2021/2022

2022/2023

\$0

\$0

2023/2024

\$0

2024/2025

\$0

2025/2026 \$0

\$58.000

\$58,000

\$58,000

\$0

Total

Project Total:

COST DETAIL:

\$0

Study:

\$0 Land Acquisition / ROW:

Engineering / Design: \$3.000

\$55,000 Construction: **Annual Maint. Cost:** \$1,000

1905 Maint. Year Start:

Cost Total:

Project Difference:

Service Impact:

Annually the parks department would have to spread woodchips and minor increased maintenance activities when the picnic area is heavily used.

Project Justification:

All playground equipment is in need of replacement along with the addition of ADA accessible play pieces and general park accessibility. Creating an improved picnic area will increase park use over time.

Location Description:

925 Boon Street



PARK-20-CIP **Parks**

26-20-CIP **Bryant Park Improvements**

Project Information

Lauren Vaughn Submitted By:

Visionary Category:

General Fund Group:

Parks & Rec Fund Detail:

Department of Public Services Department:

Frank Dituri **Department Head:**

Council Priority:

Staff Priority:

Essential (Should Do)

Bryant Park is one of the most utilized parks in the City, so it has been identified that expanding and updating the bathhouse, adding an outside foot wash station and creating small picnic ares with mini pavilions and grills are desired. Additionally, a retaining wall will greatly reduce the amount of sand that blows up into the turf area during the late fall to early spring period. It will also help to stop the encroachment of the sand and shrinking of the turf areas.

Bryant Park Improver Bryant Park Improvements

Funding Sources:

		Previous	2020/2021	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	Total
BBTP	Brown Bridge Trust Parks	\$0	\$0	\$95,000	\$0	\$0	\$0	\$0	\$95,000
FSG	Federal / State Grant	\$0	\$50,000	\$50,000	\$0	\$0	\$0	\$0	\$100,000
LFG	Local / Foundation Grant	\$15,000	\$0	\$0	\$0	\$0	\$0	\$0	\$15,000

COST DETAIL:

Annual Maint, Cost:

\$0 Study:

\$0 Land Acquisition / ROW:

\$15,000 Engineering / Design:

\$195.000 Construction:

\$2.000

1905

Cost Total:

Project Total:

Project Difference:

\$210,000 \$0

\$210,000

Maint. Year Start:

Service Impact:

Increased cleaning costs will come from a larger facility, as well as increased maintenance costs of additional pavilions and the retaining wall.

Project Justification:

The installation of a retaining wall at Bryant Park is identified in the Parks & Recreation 5 year master plan, and the other amenities have been identified as needed due to the high use the park sees throughout the summer, specifically on weekends and during special events.

Location Description:

1101 Peninsula Dr



Parks PARK-20-CIP

1188-20-CIP F&M Park Basketball Court Upgrade

Brown Bridge Trust Parks

Project Information

Derek Melville Submitted By: Maintenance

Department: Department Head:

Staff Priority:

Department of Public Services

Replace ashplalt at F&M Court and replace basketball hoops with new system. Paint lines on court.

Frank Dituri Essential (Should Do)

Brown Bridge Trust Parks Impro Fund Group:

Brown Bridge Trust Parks Impro

\$30.000

Council Priority:

\$0

Funding Sources:

Category:

Fund Detail:

BBTP

2020/2021 **Previous**

2021/2022

2022/2023

\$0

2023/2024

\$0

2024/2025

\$0

2025/2026 \$0

\$30,000

Total

\$30,000

Project Total:

COST DETAIL:

\$0

Study:

\$0 Land Acquisition / ROW:

Engineering / Design:

\$2.000

\$0

Construction: Annual Maint. Cost: \$28,000

Project Difference:

Cost Total:

\$30,000 \$0

Maint. Year Start:

Service Impact:

Very little cost for future mainteanace. Should not impact any future operations.

Project Justification:

Requested by Parks & Rec Commission as part of their CIP list and also approved as part of the BBTF ballot initiative.

Location Description:

716 E State St, Traverse City, MI 49686



PARK-20-CIP **Parks**

1090-20-CIP Franklin Street Promenade

General

Project Information

Russ Soyring Submitted By:

Capital Category:

Fund Group:

Parks & Rec Fund Detail:

Planning and Zoning Department:

Russ Soyring **Department Head:**

Staff Priority:

Council Priority:

Important (Could Do)

Phase 1: An extension of Franklin Street as a promenade to connect the North Boardman Lake District to Boardman Lake. To do this, the project includes moving security gates for the wastewater treatment plant and

relocating security fencing.

Phase 2: At a future time when Franklin Street is reconstructed, the street ending should be re-built as a shared street with pedestrian

amenities.

Franklin Street Prome Franklin Street Promenade-Cost

Funding Sources:

2020/2021 2021/2022 2022/2023 2023/2024 2024/2025 2025/2026 Previous Total GEN General Fund \$0 \$0 \$0 \$0 \$0 \$0 \$79.500 \$79.500

Project Total:

Cost Total:

Project Difference:

\$79,500

\$79,500

\$0

COST DETAIL:

\$0 Study: \$0 Land Acquisition / ROW: \$0 Engineering / Design:

\$79,500 Construction:

Annual Maint, Cost:

Maint. Year Start:

Service Impact:

Increase service impact due to landscaping, lighting.

Project Justification:

Envision 8th Master Plan

Location Description:

Extension of the 500 block of Franklin to Boardman Lake



PARK-20-CIP **Parks**

1192-20-CIP **Hickory Hills Site Work**

Project Information

Category:

GEN

Derek Melville Submitted By:

Maintenance

General Fund Group:

Parks & Rec Fund Detail:

Department: Department of Public Services

Frank Dituri **Department Head:**

Essential (Should Do)

Council Priority:

Staff Priority:

Hickory Hills Site Wor Hickory Hills Site Work

General Fund

Funding Sources:

2020/2021 2021/2022 2022/2023 2023/2024 2024/2025 2025/2026 **Previous** Total \$0 \$35.000 \$0 \$0 \$0 \$0 \$0 \$35,000

for future use of the space.

\$35,000 Project Total:

Project Difference:

\$35,000

\$0

Demolition of the old lodge on site and restoration of the area to allow

COST DETAIL:

\$0 Study: \$0 Land Acquisition / ROW:

\$0 Engineering / Design:

\$35,000 Cost Total: Construction:

Annual Maint. Cost:

Maint. Year Start:

Service Impact:

Upon completion this will reduce long term maintenance and repair costs to upkeep this aging building.

Project Justification:

The removal of the old lodge upon completion of the new lodge has been part of the Hickory Hills Master Plan discussions for a number of years.

Location Description:

2000 Randolph Street



PARK-20-CIP Parks

1164-20-CIP Hickory Hills Snowmaking

Project Information

Category:

FSG

Fund Group:

Submitted By: Derek Melville

Maintenance

Other

Private

Fund Detail: Parks & Rec

Department:

Staff Priority:

Council Priority:

Department Head:

Department of Public Services

Frank Dituri

Essential (Should Do)

Snowmaking project at Hickory Hills to expand infrastructure to serve the Nordic Trails as well as the addition of a booster pump and an

expansion to the pump house.

Hickory Hills Snowmaking Expansion

Federal / State Grant

Funding Sources:

Previous	s 2020/2021	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	Total
\$0	\$50,000	\$0	\$0	\$0	\$0	\$0	\$50,000
\$0	\$50,000	\$0	\$0	\$0	\$0	\$0	\$50,000

Project Total: \$100,000

Cost Total:

Project Difference:

\$100,000

\$0

COST DETAIL:

Study: \$0
Land Acquisition / ROW: \$0
Engineering / Design: \$0

Construction: \$100,000

Annual Maint. Cost: \$1,000

Maint, Year Start: 1905

Service Impact:

Increased skiing days for the Nordic community, therefore increased revenue potential. Increased maintenance costs are limited to long term repairs, electricity to run the well and pumps and equipment, which can vary greatly depending on weather.

Project Justification:

Part of the Hickory Hills Master Plan.

Location Description:

2000 Randolph Street



PARK-20-CIP **Parks**

1190-20-CIP **Highland Park Play Equipment and entrance**

Project Information

Derek Melville Submitted By:

Department:

Department of Public Services

Replace existing playground equipment at Highland Park, improve entrance area with signage, bike parking, bench.

Capital Category:

Brown Bridge Trust Parks

Department Head: Staff Priority:

Important (Could Do)

Frank Dituri

Fund Group: Fund Detail:

BBTP

Brown Bridge Trust Parks Impro

Brown Bridge Trust Parks Impro

Council Priority:

\$30.000

Funding Sources:

2020/2021 **Previous**

\$0

2021/2022

2022/2023

\$0

2023/2024

\$0

2024/2025

\$0

2025/2026

\$0

Total \$30,000

\$30,000

Project Total:

COST DETAIL:

\$0

Study:

\$0 \$0

Land Acquisition / ROW:

\$0 Engineering / Design:

Construction:

\$30,000

Cost Total: **Project Difference:** \$30,000

\$0

Annual Maint, Cost:

Maint. Year Start:

Service Impact:

Minor maintenance costs, no operational impact.

Project Justification:

Included within BBTF ballot renewal plan.

Location Description:

HIGHLAND PARK Dr



PARK-20-CIP **Parks**

309-20-CIP Indian Woods Playground

Project Information

Lauren Vaughn Submitted By:

Visionary Category:

General Fund Group:

Parks & Rec Fund Detail:

Department:

Department of Public Services

Frank Dituri **Department Head:**

Essential (Should Do) Staff Priority:

Council Priority:

This would replace most of the existing play equipment with a small new structure that would meet current safety and ADA accessibility standards. Some of the existing play pieces could remain as they were replaced and/or added in the past 15 years. Additionally, the

neighborhood has identified they'd like to have a connection between the upper and lower tiers of the park, possibly through a sidewalk or trail. Also, hill slides and an improved picnic area has been identified to

be added.

Indian Woods Playground - Cost

Funding Sources:

		Previous	2020/2021	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	Total
BBTP	Brown Bridge Trust Parks	\$0	\$62,000	\$0	\$0	\$0	\$0	\$0	\$62,000
FSG	Federal / State Grant	\$0	\$50,000	\$0	\$0	\$0	\$0	\$0	\$50,000
							-		

Project Total:

COST DETAIL:

\$0 Study:

\$0 Land Acquisition / ROW:

\$10,000 Engineering / Design:

\$110,000 Construction:

\$1,000 Annual Maint, Cost:

1905 Maint. Year Start:

Cost Total:

Project Difference:

\$-8.000

\$120,000

\$112,000

Service Impact:

Ongoing repairs and maintenance to the improved facilities will be similar to existing levels.

Project Justification:

Improving Indian Woods Park and playground is identified in the Parks & Recreation 5 year master plan. Due to the age and condition of the existing playground equipment it should be replaced with ADA compliant pieces. Additionally, connecting the two tiers, if possible, would be a positive improvement for users of all abilities.

Location Description:

1765 Indian Woods Drive



PARK-20-CIP

Parks

972-20-CIP Mini Park Upgrade and East Downtown Entrance

Project Information

Lauren Vaughn Submitted By: Category:

Visionary

General Fund Group:

Parks & Rec Fund Detail:

Department:

Department Head:

Staff Priority: Council Priority: Frank Dituri

Important (Could Do)

Improvements to Mini Park at the corner of East Front Street and Grandview Parkway will become a focal point for the entrance to downtown. Improvements should include lighting, reworked trails

around the "guardian" plaza and landscaping updates.

Mini Park Upgrade ar Mini Park Upgrade and East Downtown Entran - Cost

Funding Sources:

		Previous	2020/2021	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	Total
BBTP	Brown Bridge Trust Parks	\$0	\$0	\$0	\$0	\$25,000	\$0	\$0	\$25,000
GEN	General Fund	\$0	\$0	\$0	\$0	\$5,000	\$0	\$0	\$5,000
Р	Private	\$0	\$0	\$0	\$0	\$25,000	\$0	\$0	\$25,000

Department of Public Services

COST DETAIL:

Study:

\$0

\$0 Land Acquisition / ROW:

\$10,000 Engineering / Design:

\$45,000 Construction: Annual Maint, Cost: \$1,000

1905 Maint. Year Start:

Cost Total:

\$55,000

\$55,000

\$0

Project Difference:

Project Total:

Service Impact:

With increased use of the area the Parks department will have to increase general maintenance and trash removal.

Project Justification:

With the new Coast Guard plaza, reworking the bike traffic and trails is crucial to help with traffic flow and safety. Lighting and other amenities in collaboration with a streetscape improvement will tie the parcel together.

Location Description:

539 East Front Street



PARK-20-CIP

Category:

GEN

Parks

785-20-CIP **Natural Features Inventory (Planning Commission)**

Project Information

Russ Soyring Submitted By:

Visionary

General Fund

General Fund Group:

Parks & Rec Fund Detail:

Department:

Department Head:

Staff Priority:

Council Priority:

Planning and Zoning

Russ Soyring

Important (Could Do)

Conduct an extensive Natural Features Inventory (NFI), including flora, fauna, soil types, air quality and water quality to establish baseline criteria on city properties. After the completion of the NFI, specific priorities, goals and standards can be developed. Currently, some natural features data is being collected as part of the SAW grant.

Natural Features Inve Natural Features Inventory (Planning) - Cost

Funding Sources:

Previous

\$0

2020/2021 \$20.000

2021/2022 \$0

2022/2023 \$0

2023/2024 \$0

2024/2025 \$0

\$0

\$20,000

Total

Project Total:

2025/2026

\$20,000

COST DETAIL:

Study:

\$20.000

\$0

Land Acquisition / ROW:

\$0 Engineering / Design:

\$0 Construction:

Annual Maint. Cost:

Maint. Year Start:

Cost Total:

\$20,000

Project Difference:

\$0

Service Impact:

None.

Project Justification:

Natural Resources Element in the Master Plan calls for this plan to provide a baseline for policy making.

Location Description:

City-wide.



PARK-20-CIP

684-20-CIP Park Sign Replacement

Project Information

Category:

Submitted By: Lauren Vaughn

Maintenance

Fund Group: General

Fund Detail: Parks & Re

Parks & Rec

Parks

Department: Department of Public Services

Department Head: Frank Dituri

Staff Priority:

Council Priority:

Essential (Should Do)

This project would replace all main park entrance signs with a different style and color to bring the parks up to date. This would also include a new branding design (logo) on the signs and some additional signs for

marking trails and for wayfinding.

Park Sign Replacemet - Cost

Funding Sources:

2020/2021 2021/2022 2022/2023 2023/2024 2024/2025 2025/2026 **Previous** Total **GEN** General Fund \$30.000 \$30.000 \$0 \$0 \$0 \$0 \$0 \$60,000

Project Total:

COST DETAIL:

Study: \$0

Land Acquisition / ROW: \$0
Engineering / Design: \$4,000

Construction: \$56,000

Annual Maint. Cost: \$500

Maint. Year Start: 1905

Cost Total:

Project Difference: \$0

\$60,000

\$60,000

Service Impact:

A full sign replacement will result in an immediate decrease of park sign maintenance costs, but ongoing replacement for damaged/vandalized signs should be built into the budget.

Project Justification:

The Parks & Recreation 5 year master plan identifies a sign replacement project as a priority, as the P&R Commission has identified a desire to re-brand the Parks as a whole, with all new signs being part of that plan. Additionally, many of the Parks signs are past their useful life and need to be replaced so they reflect positively on the City.

Location Description:

n/a



PARK-20-CIP **Parks**

543-20-CIP Rose and Boyd Triangle Park (Jupiter Gardens)

Project Information

Category:

BBTP

Derek Melville Submitted By:

Visionary

General Fund Group:

Fund Detail:

Parks & Rec

Brown Bridge Trust Parks

Department of Public Services Department:

Frank Dituri **Department Head:**

Staff Priority:

Essential (Should Do)

The North Traverse Heights neighborhood group and other individuals have expressed an interest in seeing improvements to this park to include: a small trailside shelter, sidewalks, native/edible gardens, water and bike repair stations, natural playscapes and trails within the park. The use of this park could greatly increase if these amenities are

added.

Jupiter Gardens Upgr Jupiter Gardens Upgrade

Funding Sources:

Previous

\$0

2020/2021 \$23,000

Council Priority:

2021/2022 \$0

2022/2023 \$0

2023/2024 \$0

2024/2025 \$0

2025/2026

\$0

Total \$23,000

Project Total:

\$23,000

COST DETAIL:

Study:

\$0 \$0

\$1,000

Land Acquisition / ROW:

Engineering / Design:

\$22,000 Construction: \$1,500 Annual Maint, Cost:

1905 Maint. Year Start:

Cost Total:

Project Difference:

\$23,000 \$0

Service Impact:

The gardens would require seasonal attention and the natural areas would require annual woodchips/mulch.

Project Justification:

Users of the TART trail and neighborhood residents would benefit most from this improvement that would create a stopping point for trail traffic and a community garden that residents could help support. Additionally, the natural playscapes would allow for opportunities for play for young children without the need for a large playground.

Location Description:

912 Boyd Ave



PARK-20-CIP Parks

602-20-CIP Senior Center -Bayfront Plan

Project Information

Submitted By: Russ Soyring
Category: Visionary

Department:
Department Head:

Planning and Zoning

Frank Dituri

Sidewalks, new parking lot improvement and Stormwater Treatment

Structure are key elements of the project.

Fund Group: Bayfront Plan NON-TIF Implem

.,

Staff Priority: Important (Could Do)

Fund Detail: Parks & Rec Council Priority:

Senior Center Bayfro Senior Center Bayfront Phase (+Grant) - Cost

Funding Sources:

2020/2021 2021/2022 2022/2023 2023/2024 2024/2025 2025/2026 Previous Total FSG Federal / State Grant \$0 \$0 \$0 \$0 \$0 \$50.000 \$0 \$50,000 Private \$0 \$0 \$0 \$0 \$0 \$111.888 \$0 \$111,888

Project Total: \$161,888

Cost Total:

\$161,888

COST DETAIL:

Study: \$4,000

Land Acquisition / ROW: \$0

Engineering / Design: \$11,410

Construction: \$146,478

Annual Maint. Cost: \$8,000 Project Difference: \$0

Maint. Year Start:

Service Impact:

Service requirements would increase- Sidewalk and stormwater maintenance

Project Justification:

2010 Bayfront Plan

Location Description:

801 E. Front Street



PARK-20-CIP **Parks**

926-20-CIP Senior Citizen Park Improvements

Project Information

Lauren Vaughn Submitted By: Category:

Visionary

General Fund Group:

Parks & Rec Fund Detail:

Department of Public Services Department:

Frank Dituri **Department Head:**

Staff Priority:

Council Priority:

Essential (Should Do)

These improvements would include an adult "playground" with components designed to help the Senior population with strength, balance, and mobility and a path connecting these features.

Additionally, irrigation for the grounds and improved parking should be part of this project or it could aligned with the new Senior Center building discussions to create a comprehensive plan for the space.

Senior Citizen Park Ir Senior Citizen Park Improvements (Grant +P - Cost

Funding Sources:

		Previous	2020/2021	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	Total
BBTP	Brown Bridge Trust Parks	\$0	\$0	\$0	\$0	\$0	\$35,000	\$0	\$35,000
LFG	Local / Foundation Grant	\$0	\$0	\$0	\$0	\$0	\$35,000	\$0	\$35,000
Р	Private	\$0	\$0	\$0	\$0	\$0	\$5,000	\$0	\$5,000

Project Total: \$75,000

Cost Total:

Project Difference:

\$75,000

\$0

COST DETAIL:

\$0 Study:

\$0 Land Acquisition / ROW:

\$2,000 Engineering / Design:

\$73,000 Construction:

\$500 Annual Maint, Cost:

1905 Maint. Year Start:

Service Impact:

The installation of an irrigation system and fitness amenities will require seasonal and periodic preventative maintenance, repair and servicing of the equipment.

Project Justification:

This project is listed as part of the Parks and Recreation 5 year master plan. Providing a fitness loop for senior center users onsite would

Location Description:

801 E Front Street



PARK-20-CIP **Parks**

927-20-CIP **Sunset Park Improvements**

Project Information

Lauren Vaughn Submitted By: Category:

Visionary

General Fund Group:

Parks & Rec Fund Detail:

Staff Priority: **Council Priority:**

Department of Public Services Department:

Frank Dituri **Department Head:**

Essential (Should Do)

The improvements to Sunset Parks would include: a small picnic pavilion with restrooms, a new playground, fitness stations, a walking path, landscaping, irrigation and retaining wall at the sand/grass interface and a drinking fountain/water bottle filling station. It was also recently supported by the Parks & Recreation Commission that a potential raquetball/handball court be placed as part of this project.

Sunset Park Improve Sunset Park Improvements (+Grant +Private - Cost

Funding Sources:

		Previous	2020/2021	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	Total
BBTP Br	rown Bridge Trust Parks	\$0	\$0	\$0	\$100,000	\$0	\$0	\$0	\$100,000
FSG Fe	ederal / State Grant	\$0	\$0	\$0	\$100,000	\$0	\$0	\$0	\$100,000
LFG Lo	ocal / Foundation Grant	\$0	\$0	\$0	\$25,000	\$0	\$0	\$0	\$25,000
P Pri	rivate	\$0	\$0	\$0	\$25,000	\$0	\$0	\$0	\$25,000

COST DETAIL:

Study:

\$0 \$0

Land Acquisition / ROW:

Engineering / Design:

\$20,000

Construction:

\$230,000 \$2.500 Annual Maint, Cost:

Maint. Year Start: 1905 Cost Total: \$250,000

\$250,000

\$0

Project Difference:

Project Total:

Service Impact:

The cleaning and maintenance of the restrooms will be the source of the largest maintenance cost increase, with a need for repair and part replacement for the fitness and playground equipment.

Project Justification:

The 5 year Parks and Rec Master Plan highlights the need to update Sunset Park with the proposed amenities. A conceptual plan has been approved by the Parks and Rec Commission, with further refining needed as the project nears.

Location Description:

635 E Front



PARK-20-CIP

1020-20-CIP West End Beach Bathhouse Project

Parks

Project Information

Derek Melville Submitted By: Category:

Visionary

General Fund Group:

Parks & Rec Fund Detail:

Department:

Staff Priority:

Council Priority:

Department Head:

Department of Public Services

Frank Dituri

Essential (Should Do)

The existing bathroom facility is old, non-ADA compliant and in disrepair. This project proposes to build a new bathhouse/changing room that will be a modern, energy efficient ADA compliant facility. Additionally, the addition of an ADA access to the beach along with picnic & seating areas around the rebuilt bathhouse will be important.

\$383,000

\$383,000

Project Total:

Cost Total:

Project Difference:

West End Beach Batl West End Beach Bathhouse Project

Funding Sources:

		Previous	2020/2021	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	Total
BBTP	Brown Bridge Trust Parks	\$0	\$0	\$120,000	\$0	\$0	\$0	\$0	\$120,000
GEN	General Fund	\$0	\$0	\$43,000	\$0	\$0	\$0	\$0	\$43,000
LFG	Local / Foundation Grant	\$0	\$100,000	\$120,000	\$0	\$0	\$0	\$0	\$220,000

COST DETAIL:

Study:

\$0 Land Acquisition / ROW:

\$43,000 Engineering / Design:

\$0

\$340,000 Construction:

Annual Maint, Cost: \$2,000 1905 Maint. Year Start:

Service Impact:

Minimal impact to city operations with regard to maintenance or cost increases as there is an existing bathouse we currently maintain.

Project Justification:

Existing bathhouse is in disrepair and not ADA compliant. This project is referenced in the Parks & Recreation 5 year master plan as a necessity due to the lack of ADA usability. The addition of an ADA access to the beach will provide access to the beach on the West End to all users in proximity to parking.

Location Description:

706 West Grandview Parkway- West End

Date/Time Printed: 1/30/2020 3:26 pm

Six Year Capital Improvement Plan

Budget Year 2020-2021 by Program Name

All Projects Submitted for 2020-2021

	s projects occurring in the first FY of the plan . ojects with multiple funding									<u>Over</u>	all Programming	Cost
Project ID		Cat	Previous	Fiscal Year 2020-2021	Fiscal Year 2021-2022	Fiscal Year 2022-2023	Fiscal Year 2023-2024	Fiscal Year 2024-2025	Fiscal Year 2025-2026	Project	City Funds	Non-City Funds
Police												
+ 1154-20-CIP	Digital Cameras for Downtown Traverse City	С	\$0	\$125,000	\$0	\$0	\$0	\$0	\$0	\$125,000	\$25,000	\$100,000
Total Police				\$125,000	\$0	\$0	\$0	\$0	\$0	\$125,000	\$25,000	\$100,000



POLICE-20-CIP

Police

1154-20-CIP

Digital Cameras for Downtown Traverse City

Project Information

Submitted By:

Jeffery O'Brien

Department:

Police

Digital Cameras to be installed on city streets to increase the public's

2024/2025

Category:

FSG

TIF97

Capital

Department Head:

Jeffery O'Brien

Imperative (Must Do)

safety and to reduce illicit behavior in our downtown.

Fund Group: General Fund Detail:

Police

Federal / State Grant

TIF 97

Staff Priority: **Council Priority:**

\$25,000

Funding Sources:

2020/2021 **Previous** \$0 \$100,000

\$0

2021/2022 \$0

2022/2023 \$0 \$0

2023/2024 \$0

\$0

\$0 \$0

\$0 \$0

2025/2026

Project Total:

\$25,000 \$125,000

\$100,000

Total

COST DETAIL:

\$0

Study:

\$0

Land Acquisition / ROW: Engineering / Design:

\$0 \$0

Construction:

Annual Maint. Cost:

\$125,000

\$10,000

Project Difference:

Cost Total:

\$125,000

\$0

1905 Maint. Year Start:

Service Impact:

Minimal maintenance is expected on these cameras as they will be stationary - Hardware maintenance and possible software updates.

Project Justification:

We have an active downtown area where we have experienced increased issues concerning public safety and well-being of our citizens. Cameras will help capture undesirable activities within the downtown area.

Location Description:

Throughout the City of Traverse City - initial focus on the downtown area/establishments

Page: 143



Six Year Capital Improvement Plan

Budget Year 2020-2021 by Program Name

All Projects Submitted for 2020-2021

Bold - Indicates projects occurring in the first FY of the plan . + - Indicates projects with multiple funding							Overall Programming Cost					
Project ID Cat		Cat	Previous	Fiscal Year 2020-2021	Fiscal Year 2021-2022	Fiscal Year 2022-2023	Fiscal Year 2023-2024	Fiscal Year 2024-2025	Fiscal Year 2025-2026	Project Cost	City Funds	Non-City Funds
Streets												
+ 14-20-CIP	Annual Street Reconstruction Program	М	\$2,473,638	\$1,331,181	\$519,046	\$510,000	\$515,738	\$0	\$0	\$0	\$5,349,602	\$0
320-20-CIP	Division Street	V	\$100,000	\$25,000	\$0	\$0	\$0	\$0	\$0	\$0	\$125,000	\$0
+ 717-20-CIP	East Front St Reconstruction (400-500 blocks)	V	\$0	\$0	\$0	\$0	\$915,000	\$0	\$0	\$915,000	\$915,000	\$0
1087-20-CIP	Front Street Streetscapes	М	\$0	\$250,000	\$500,000	\$250,000	\$0	\$0	\$0	\$1,000,000	\$1,000,000	\$0
+ 1115-20-CIP	Garfield Ave Reconstruction (Hannah to Front St)	С	\$0	\$0	\$412,500	\$0	\$0	\$0	\$0	\$412,500	\$82,500	\$330,000
616-20-CIP	Grand Traverse Commons Infrastructure	V	\$0	\$223,095	\$690,000	\$310,000	\$0	\$0	\$0	\$1,223,095	\$0	\$1,223,095
713-20-CIP	Grandview Parkway Pedestrian Crossing Enhancement	V	\$0	\$0	\$0	\$0	\$500,000	\$0	\$0	\$500,000	\$500,000	\$0
+ 1130-20-CIP	Highway Safety Improvement Program (HSIP)	С	\$20,000	\$600,000	\$0	\$0	\$0	\$0	\$0	\$620,000	\$80,000	\$540,000
1088-20-CIP	State Street Streetscapes	М	\$0	\$250,000	\$500,000	\$250,000	\$0	\$0	\$0	\$1,000,000	\$1,000,000	\$0
889-20-CIP	Traffic Calming	V	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$0	\$0	\$0	\$500,000	\$0
15-20-CIP	Traffic Signal Power Backup	V	\$22,500	\$22,500	\$22,500	\$22,500	\$0	\$0	\$0	\$0	\$90,000	\$0
16-20-CIP	Traffic Signal Upgrades	V	\$120,000	\$60,000	\$60,000	\$60,000	\$60,000	\$0	\$0	\$0	\$360,000	\$0
1089-20-CIP	Tree Replacement	М	\$0	\$50,000	\$50,000	\$0	\$0	\$0	\$0	\$100,000	\$100,000	\$0
Total Streets				\$2,911,776	\$2,854,046	\$1,502,500	\$2,090,738	\$0	\$0	\$5,870,595	\$10,202,102	\$2,093,095



STREETS-20-CIP

Category:

Streets

14-20-CIP **Annual Street Reconstruction Program**

Project Information

Tim Lodge Submitted By:

Maintenance

General Fund Group:

Streets Fund Detail:

Department:

Engineering

Department Head:

Tim Lodge

Staff Priority: **Council Priority:** Essential (Should Do)

This is an annual program that provides funds to resurface major and minor streets within the city limits. The streets division determines locations for pavement preservation funded by the Grand Traverse County Road Commission Millage. Funds can only be used for street reconstruction and/or rehabilitation. Sidewalk or utility projects are not eligible. The Eighth Street Reconstruction project utilized the general fund allocations for 2019/20 and 2020/21 fiscal years. Randolph Street from Bay Street to Division St. will be reconstructed in 2020. This location was deferred from 2019 to ensure that the 8th Street project was fully funded. In the coming fiscal years the following streets: E. 11th, E. 10th, Jefferson, Monroe, Madison, 7th, Sheffer, Pinecrest, W. Orchard, E. Orchard, S. Orchard, N. Orchard, and existing gravel streets (Griffin, Fulton) are on the list for street reconstruction and are

Annual Street Recon: Annual Street Reconstruction Program (+GTC - Cost

Funding Sources	:
-----------------	---

	Previous	2020/2021	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	Total
ACPF Available Capital Projects Fund	\$330,000	\$0	\$0	\$0	\$0	\$0	\$0	\$330,000
GEN General Fund	\$523,638	\$521,181	\$519,046	\$510,000	\$515,738	\$0	\$0	\$2,589,602
RCMF Road Commission Millage Fund	\$1,620,000	\$810,000	\$0	\$0	\$0	\$0	\$0	\$2,430,000

Project Total:

Project Difference:

\$5,349,602

\$5,349,602

\$0

COST DETAIL:

Study:

\$0 \$0

\$0

Land Acquisition / ROW:

Engineering / Design:

\$0 Construction: Cost Total:

coordinated with utility fund projects.

Annual Maint. Cost:

Maint. Year Start:

Service Impact:

None.

Project Justification:

Maintenance

Location Description:



City-wide



STREETS-20-CIP

Streets

320-20-CIP **Division Street**

Project Information

Tim Lodge Submitted By:

Visionary Category: General

Fund Group: Streets Fund Detail:

Department: **Department Head:**

Staff Priority:

Council Priority:

Engineering

Tim Lodge

Important (Could Do)

In 2015/16, MDOT completed a PEL Study for the corridor. To implement a portion of the study, MDOT secured funding for improvements to Division Street. MDOT will be making improvements between 10th Street and Griffin St. along Division St. MDOT's two primary goals are to

provide a left-turn lane into 11th Street and to provide some pedestrian refuge. MDOT will also add sidewalk and landscaping along Division St. The City will provide funds to relocate power poles on the east side

in the MDOT right-of-way, lighting enhancements, streetscape amenities, irrigation, and other project enhancements. Construction is

anticipated for Fall 2020/Spring 2021.

Division Street - Cost Division Street - Cost

General Fund

Funding Sources:

GEN

2020/2021 Previous \$100,000 \$25.000

2021/2022 \$0

2022/2023 \$0

2023/2024 \$0

2024/2025 \$0

2025/2026 \$0

\$125.000

Total

\$125,000 Project Total:

COST DETAIL:

Study:

\$0 \$0 Land Acquisition / ROW:

\$0 Engineering / Design:

\$0 Construction:

Annual Maint, Cost:

Maint. Year Start:

Cost Total:

Project Difference:

\$125,000

\$0

Service Impact:

Additional infrastructure requiring operation, maintenance, and replacement.

Project Justification:

Partnering with MDOT for value added features of their impovement project.

Location Description:

Division Street from 10th Street to Griffin Street.



STREETS-20-CIP

Fund Group:

Streets

717-20-CIP East Front St Reconstruction (400-500 blocks)

Project Information

Tim Lodge Submitted By: Category:

Visionary

Tax Increment Financing

Fund Detail:

TIF 97

Department:

Department Head:

Staff Priority:

Council Priority:

Engineering

Tim Lodge

Essential (Should Do)

Street reconstruction with utility rehabilitation and replacement. New curbs, street trees, benches, bike racks, and sidewalk along East Front between Park Street and Grandview Parkway. Project pending SID.

The City will request participation from TCLP for lighting associated with the streetscape. Utility funds will be utilized and coordinated with the street project. The utility projects associated with this project are in the

CIP: 1052-19-CIP and 1053-19-CIP.

East Front Reconstru East Front Reconstructio (Park to Grand - Cost

Funding Sources:

		Previous	2020/2021	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	Total
FSG	Federal / State Grant	\$0	\$0	\$0	\$0	\$400,000	\$0	\$0	\$400,000
SAF	Special Assessment Fund	\$0	\$0	\$0	\$0	\$257,500	\$0	\$0	\$257,500
TIF97	TIF 97	\$0	\$0	\$0	\$0	\$257,500	\$0	\$0	\$257,500

Project Total: \$915,000

COST DETAIL:

Study:

\$0

\$0

\$0 Land Acquisition / ROW:

Engineering / Design:

Construction: \$915.000

Annual Maint, Cost:

Project Difference:

Cost Total:

\$915,000

\$0

Maint. Year Start:

Service Impact:

Increased service likely due to addition of street trees and site amenities.

Project Justification:

TIF 97

Location Description:

East Front Street 400-500 blocks.



STREETS-20-CIP

Category:

TIF97

Streets

1087-20-CIP **Front Street Streetscapes**

Project Information

Jean Derenzy Submitted By:

Maintenance

Tax Increment Financing Fund Group:

TIF 97

TIF 97 Fund Detail:

Department: **Downtown Development**

Department Head: Jean Derenzy

Essential (Should Do) Staff Priority:

Council Priority:

\$250,000

Front Street Streetscapes Cost

Funding Sources:

2020/2021 Previous

\$0

2021/2022 \$500,000

2022/2023

\$250.000

2023/2024 \$0

2024/2025

\$0

Upgrade streetscapes in the 100 and 200 blocks of East Front

2025/2026 \$0

\$1,000,000

Total

\$1,000,000 **Project Total:**

COST DETAIL:

Study: \$0 Land Acquisition / ROW: \$0

\$0 Engineering / Design:

Construction: \$1,000,000

Annual Maint. Cost:

Project Difference:

Cost Total:

\$1.000.000

\$0

1905

Maint. Year Start:

Service Impact:

Minor sidewalk and street closures

Project Justification:

Original streetscapes at end of life and need to be upgraded

Location Description:

100/200 blocks of East Front Street



STREETS-20-CIP Streets

1115-20-CIP **Garfield Ave Reconstruction (Hannah to Front St)**

Project Information

Tim Lodge Submitted By: Category:

Capital

General

Streets

Department: **Department Head:**

Council Priority:

Staff Priority:

Engineering

Tim Lodge

Essential (Should Do)

Garfield Ave. Reconstruction project to utilize small urban funds.

Proposed work includes mill and pave with 4 to 3 lane conversion with bike lanes south of Eighth St. (existing 2 lane section with bike lanes north of Eighth St). Narrow width of roadway near intersection of Garfield

Ave. and Front St; new sidewalks.

TBD Street Reconstru TBD Street Reconstruction-C

Funding Sources:

Fund Group:

Fund Detail:

		Previous	2020/2021	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	Total
FSG	Federal / State Grant	\$0	\$0	\$330,000	\$0	\$0	\$0	\$0	\$330,000
GEN	General Fund	\$0	\$0	\$82,500	\$0	\$0	\$0	\$0	\$82,500

Project Total: \$412,500

Cost Total:

\$412.500

COST DETAIL:

\$0 Study: \$0 Land Acquisition / ROW:

\$0 Engineering / Design:

Construction: \$412,500

Annual Maint. Cost: Project Difference:

Maint. Year Start:

Service Impact:

None.

Project Justification:

Street Reconstruction

Location Description:

Garfield Ave. between Hannah and Front Street (.6 miles)



STREETS-20-CIP

Streets

616-20-CIP **Grand Traverse Commons Infrastructure**

Project Information

Tim Lodge Submitted By:

Visionary Category: General **Fund Group:**

Fund Detail: Streets Department:

Staff Priority:

Engineering

Department Head:

Tim Lodge

Imperitive (Must Do)

Council Priority:

Please refer to the Brownfield Plan for detailed project plans at grandtraverse.org/444/Grand-Traverse-Commons

This project is comprised of street and utility infrastructure

improvements and site preparation at the Grand Traverse Commons Development within the City limits. Reimbursement anticipated from Brownfield TIF. All infrastructure improvements proposed will be publicly owned, maintained and operated. This project will promote the reuse of vacant and environmentally distressed property; rehabilitation and reuse of historically significant buildings, and preservation of rare architectural elements; remediation of contamination and abatement of significant quantities of hazardous substances, thus enhancing public health; creation of a walkable neighborhood; substantial enhancement of the tax base for the City; creation of permanent jobs and opportunities

for new business.

Grand Traverse Com Grand Traverse Commons Infrastructure - Cost

Funding Sources:

2020/2021 **Previous** BR Brownfield \$0 \$223.095

2022/2023 \$310.000

2023/2024 \$0

2024/2025

\$0

2025/2026

\$0

Project Total: \$1,223,095

Total

\$1.223.095

COST DETAIL:

2021/2022

\$690,000

\$0 Study: \$0 Land Acquisition / ROW: \$0 Engineering / Design:

\$1,223,095 Construction:

Annual Maint, Cost: Maint. Year Start:

\$1,223,095 Cost Total:

Project Difference: \$0

Service Impact:

Converting private utilities to public utilities.

Project Justification:

Replacing aged infrastructure as part of Brownfield Place.

Location Description:

Grand Traverse Commons Development.



STREETS-20-CIP Streets

713-20-CIP **Grandview Parkway Pedestrian Crossing Enhancement**

Project Information

Rob Baciagalupi Submitted By:

Visionary

Department Head: Staff Priority:

Tax Increment Financing Fund Group:

TIF 97

TIF 97 Fund Detail:

Downtown Development Department:

Jean Derenzy

Pedestrian enhancements to cross Grandview Parkway between Hall Street to Cass Street. Possible gateway treatment at Union Street.

Project to be coordinated with MDOT enhancements in 2022.

Grandview Parkway I Grandview Parkway Pedestrian Crossing Enha - Cost

Funding Sources:

Category:

TIF97

Previous

\$0

2020/2021 \$0

Council Priority:

2021/2022

2022/2023 \$0

2023/2024 \$500.000

2024/2025

\$0

\$0

2025/2026

Total \$500.000

\$500,000 Project Total:

COST DETAIL:

\$0

Study:

\$0 \$0

\$0

Land Acquisition / ROW:

Engineering / Design:

Construction: \$500,000

Annual Maint. Cost:

Project Difference:

Cost Total:

\$500,000

\$0

Maint. Year Start:

Service Impact: None foreseen

Project Justification:

Crossing enhancement/Connectivity

Location Description:

Grandview Parkway



STREETS-20-CIP

<u>Streets</u>

1130-20-CIP Highway Safety Improvement Program (HSIP)

Project Information

Submitted By: Tim Lodge

Department:

Engineering

Category: Capital

Department Head:

Tim Lodge

Fund Group: General

General Staff Priority:
Available Capital Projects Fund Council Priority:

Essential (Should Do)

Intersection with a roundabout for MDOT's 2020 fiscal year. The project is valued at \$600,000 for which the City is responsible for 10% or \$60,000 with the program paying the other 90%. The City will be responsible for other costs such as engineering, surveying and construction testing. Pedestrian improvements will accommodate pedestrians wish to cross at the intersection and provide easier access to the existing shared path that runs parallel to Parsons (south side) to help reduce the number of pedestrians and cyclists in the roadway.

Replacement of the traffic signal at the Parsons and Airport Access

Highway Safety Impro Highway Safety Improvement Program (HSIP)

Funding Sources:

FSG GEN

Fund Detail:

	Previous	2020/2021	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	Total
Federal / State Grant	\$0	\$540,000	\$0	\$0	\$0	\$0	\$0	\$540,000
General Fund	\$20,000	\$60,000	\$0	\$0	\$0	\$0	\$0	\$80,000

Project Total: \$620,000

COST DETAIL:

Study:

\$0

Land Acquisition / ROW:

\$0

\$20.000

Engineering / Design:

Construction: \$600,000

Annual Maint. Cost:

__

Cost Total:

Project Difference:

\$620,000 \$0

Maint. Year Start:

Service Impact:

We would optimize the footprint to reduce maintenance costs. The roundabout will eliminate replacement costs of the traffic signal, as well as cost of operating the traffic signal.

Project Justification:

Converting intersection to a roundabout to reduce speed, therefore reducing the number and severity of accidents.

Location Description:

Intersection of Parsons Rd and Airport Access Rd.



STREETS-20-CIP

Streets

1088-20-CIP State Street Streetscapes

Project Information

Submitted By: Jean Derenzy

Category: Maintenance

TIF 97

Department Head:

\$0

Downtown Development

Upgrade streetscapes in the 100 and 200 blocks of East State Street

Category: Fund Group:

Tax Increment Financing

Staff Priority: Council Priority:

\$250,000

Department:

Essential (Should Do)

Jean Derenzy

Fund Detail: TIF 97

State Street Streetscapes Cost

Funding Sources:

TIF97

Previous 2020/2021

2021/2022

\$500,000

2022/2023 \$250.000

2023/2024

\$0

2024/2025

\$0

2025/2026

Project Total:

\$0

Total \$1,000,000

\$1,000,000

COST DETAIL:

Study:

\$0

\$0

Land Acquisition / ROW:

Engineering / Design: \$0

Construction: \$1

\$1,000,000

Cost Total: Project Difference:

\$1,000,000

\$0

Annual Maint. Cost:

Maint, Year Start: 1905

Service Impact:

Temporary sidewalk and street closures

Project Justification:

Current streetscapes are near end of life and need to be upgraded

Location Description:

100/200 East State Street



STREETS-20-CIP

Category:

GEN

Streets

889-20-CIP Traffic Calming

Project Information

Submitted By: Tim Lodge

Visionary

Fund Group: General

Fund Detail: Streets

Department:
Department Head:

\$100,000

Staff Priority:

Council Priority:

Engineering

Tim Lodge

Important (Could Do)

Funding for Traffic Calming infrastructure improvements per City

Commission.

Traffic Calming - Cos Traffic Calming - Cost

General Fund

Funding Sources:

Previous

\$100,000

2020/2021 2

2021/2022

\$100,000

2022/2023 \$100,000 **2023/2024** \$100,000

\$0

2024/2025

2025/2026 \$0 Total \$500,000

Project Total: \$500,000

COST DETAIL:

Study:

\$0 \$0

Land Acquisition / ROW:

Engineering / Design: \$0

Construction: \$
Annual Maint. Cost:

\$0

Cost Total:

\$0

Project Difference: \$500,000

Maint. Year Start:

Service Impact:

Additional infrastructure requiring operation, maintenance, and replacement.

Project Justification:

Improving safety and traffic concerns.

Location Description:

City-wide.



STREETS-20-CIP

Streets

1070-20-CIP

Category:

TIF97

Traffic Signal Mast Arm

Project Information

Jean Derenzy Submitted By:

Capital

Tax Increment Financing Fund Group:

TIF 97 Fund Detail:

Department: **Downtown Development**

Department Head: Tim Lodge

Essential (Should Do)

For installing mast arm signal posts in conjunction with MDOT Traffic Signal Upgrade project at the Grandview Parkway/E. Front intersection

and Grandview Parkway/Union Street intersection.

Traffic Signal Mast Ar Traffic Signal Mast Arm

TIF 97

Funding Sources:

Previous 2020/2021

\$100.000

Staff Priority:

Council Priority:

\$0

2021/2022

2022/2023

\$0

2023/2024

\$0

2024/2025

\$0

2025/2026

\$0

Total \$100,000

\$100,000 **Project Total:**

COST DETAIL:

\$0

\$0 Study:

\$0 Land Acquisition / ROW: \$0 Engineering / Design:

Construction: \$100,000

Annual Maint. Cost:

Cost Total:

Project Difference:

\$100,000

\$0

Maint. Year Start:

Service Impact:

None.

Project Justification:

Signal Upgrade

Location Description:

Grandview pkwy/E. Front and Grandview pkwy/Union St



STREETS-20-CIP

Streets

15-20-CIP **Traffic Signal Power Backup**

Project Information

Tim Lodge Submitted By: Visionary Category:

Department: **Department Head:** Engineering Tim Lodge

Essential (Should Do)

Provide funding to install battery backup power systems in all signal

equipment by 2022.

General Fund Group:

Staff Priority:

Council Priority:

\$22.500

Traffic Signal Power I Traffic Signal Power Backup - Cost

Streets

General Fund

Funding Sources:

Fund Detail:

GEN

2020/2021 **Previous**

\$22,500

2021/2022

\$22,500

2022/2023

\$22,500

2023/2024

\$0

2024/2025 \$0

2025/2026 \$0

Total \$90,000

\$90,000

Project Total:

COST DETAIL:

Study:

\$0 \$0

Land Acquisition / ROW:

\$0 Engineering / Design:

Construction: \$0

Cost Total:

Project Difference:

\$0

\$90,000

Annual Maint. Cost:

Maint. Year Start:

Service Impact:

Reducing the need for response in brief power outages.

Project Justification:

Replacing aged traffic signal equipment and providing back up emergency power.

Location Description:

Various locations city-wide.



STREETS-20-CIP

Category:

GEN

Streets

16-20-CIP **Traffic Signal Upgrades**

Project Information

Tim Lodge Submitted By:

Visionary

General Fund Group:

Streets Fund Detail:

Department:

Staff Priority:

Department Head:

Council Priority:

Engineering

Tim Lodge

Essential (Should Do)

This is an annual program that will fund traffic signal consulting and design for upgrade to the Garfield/Hannah, Parsons traffic signal and

the Parsons/Hastings intersection signal.

Traffic Signal Upgrad Traffic Signal Upgrades - Cost

General Fund

Funding Sources:

2020/2021 **Previous**

\$60.000

\$120.000

2021/2022

2022/2023 \$60.000

\$0

2023/2024 \$60,000

2024/2025 \$0

2025/2026 \$0

Total \$360,000

\$360,000 **Project Total:**

COST DETAIL:

\$60.000

Study:

\$0 Land Acquisition / ROW:

\$0 Engineering / Design:

Construction: \$0

Annual Maint. Cost:

Maint. Year Start:

Cost Total:

Project Difference:

\$0 \$360,000

Service Impact:

Reduce operational and maintenance costs.

Project Justification:

Replacing aged traffic signal equipment.

Location Description:

Various locations city-wide.



STREETS-20-CIP

Category:

TIF97

Streets

1089-20-CIP

Tree Replacement

Project Information

Jean Derenzy Submitted By:

Maintenance

Tax Increment Financing Fund Group:

TIF 97 Fund Detail:

Department: Downtown Development

Department Head: Jean Derenzy

Essential (Should Do) Staff Priority:

Council Priority:

\$50.000

Tree Replacement Co Tree Replacement Cost

TIF 97

Funding Sources:

Previous 2020/2021

\$0

2021/2022 \$50,000

2022/2023

\$0

2023/2024 \$0

2024/2025 \$0

Replace Trees throughout the DDA District

2025/2026 \$0

Total \$100,000

\$100,000 **Project Total:**

COST DETAIL:

Study: \$0

Land Acquisition / ROW: \$0 \$0 Engineering / Design:

Construction: \$100,000

Annual Maint. Cost:

1905 Maint. Year Start:

Cost Total:

\$100,000

\$0 **Project Difference:**

Service Impact:

Temporary Sidewalk Closures

Project Justification:

Trees are overgrown/dying and need to be replaced.

Location Description:

DDA District



Six Year Capital Improvement Plan

Budget Year 2020-2021 by Program Name

All Projects Submitted for 2020-2021

Bold - Indicates	projects occurring in the first FY of the plan .											
+ - Indicates pro	ejects with multiple funding									Ove	erall Programming	Cost Cost
				Fiscal Year	Project	City	Non-City					
Project ID		Cat	Previous	2020-2021	2021-2022	2022-2023	2023-2024	2024-2025	2025-2026	Cost	Funds	Funds
Walkways												
+ 570-20-CIP	Boardman Lake Trail-West (14th to S. Airport)	V	\$652,538	\$6,378,599	\$81,132	\$71,503	\$61,551	\$51,200	\$193,729	\$7,490,252	\$0	\$7,490,252
316-20-CIP	Boardman River Walk south of 8th Street Bridge	V	\$0	\$0	\$0	\$0	\$0	\$690,700	\$0	\$690,700	\$690,700	\$0
946-20-CIP	Expand Sidewalk System/Infill Gaps	V	\$431,347	\$373,215	\$375,351	\$377,165	\$378,659	\$374,911	\$375,923	\$4,500,000	\$2,686,571	\$0
+ 1023-20-CIP	Expand Sidewalk System/Infill Gaps (SR2S)	С	\$1,250,000	\$1,150,000	\$0	\$0	\$0	\$0	\$0	\$2,400,000	\$400,000	\$2,000,000
1191-20-CIP	M-72 Sidewalk New Construction	V	\$0	\$0	\$0	\$206,553	\$0	\$0	\$0	\$206,553	\$206,553	\$0
1025-20-CIP	Rivers Edge Riverwalk Decking Replacement	М	\$0	\$106,869	\$0	\$0	\$0	\$0	\$0	\$106,869	\$106,869	\$0
1193-20-CIP	Sidewalk construction on the north side of Hill St	V	\$0	\$0	\$0	\$896,000	\$0	\$0	\$0	\$896,000	\$896,000	\$0
1069-20-CIP	Wellington Plaza Erosion Stabilization Project	M	\$0	\$50,000	\$0	\$0	\$0	\$0	\$0	\$50,000	\$50,000	\$0
Total Walkway	ys			\$8,058,683	\$456,483	\$1,551,221	\$440,210	\$1,116,811	\$569,652	\$16,340,374	\$5,036,693	\$9,490,252



WALK-20-CIP **Walkways**

570-20-CIP Boardman Lake Trail-West (14th to S. Airport)

Project Information

Category:

Russ Soyring Submitted By:

Visionary

General Fund Group:

Walkways/Bike Paths Fund Detail:

Department:

Department Head:

Staff Priority:

Council Priority:

Planning and Zoning

Russ Soyring

Important (Could Do)

The City of Traverse City is working with TART Trails, Garfield Township and Grand Traverse County to complete the final segment of the Boardman Lake Trail. The proposed two and a half mile segment along the west side of the lake is needed to complete the five mile trail encircling Boardman Lake which was first conceptualized more than 25 years ago with a trail master plan funded by the Coastal Zone Management Program.

The expenses below demonstrate the revenues that will pay back the bond. Bond payments will be made over a 10-year period with the final bond payment scheduled for 6/30/2029. Multiple funding sources are being used to pay for the project: TAP, MDNRTF, L&WCF, TART, County, Garfield Township, and Brownfield.

The "Study" cost detail represents the interest that will be paid on the bond.

Boardman Lake Trail- Boardman Lake Trail-West (14th to S. Airpo - Cost

Funding Sources:

		Previous	2020/2021	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	Total
BR	Brownfield	\$142,988	\$4,654,237	\$81,132	\$71,503	\$61,551	\$51,200	\$193,729	\$5,256,340
FSG	Federal / State Grant	\$0	\$1,724,362	\$0	\$0	\$0	\$0	\$0	\$1,724,362
Р	Private	\$509,550	\$0	\$0	\$0	\$0	\$0	\$0	\$509,550

\$7,490,252 Project Total:

Cost Total:

Project Difference:

\$7.490.252

\$0

COST DETAIL:

\$622,931 Study:

\$0 Land Acquisition / ROW:

\$594,441 Engineering / Design:

\$6,272,880 Construction: \$12,000 **Annual Maint. Cost:**

1905

Maint. Year Start:

Service Impact:

Operations and Maintenance Agreement is necessary among project partners

Project Justification:

Parks and Recreation Element of Master Plan

^{**}The Brownfield allocation includes anticipated additional revenues in addition to the amount currently authorized.



Location Description:

West side of Boardman Lake



WALK-20-CIP **Walkways**

316-20-CIP Boardman River Walk south of 8th Street Bridge

Project Information

Rob Baciagalupi Submitted By:

Visionary

General Fund Group:

Walkways/Bike Paths Fund Detail:

TIF Old Town

Department:

Department Head:

Staff Priority: **Council Priority:**

\$0

Important (Could Do)

Russ Soyring

Downtown Development

River Boardwalk from the 8th Street bridge to the Boardman Lake Trail. The project includes a 840 linear feet of elevated boardwalk, low-level

lighting, fishing and resting platforms and landscaping.

Boardman River Wall Boardman River Walk south of 8th Street Br - Cost

Funding Sources:

Category:

TIFOT

Previous

\$0

2020/2021

2021/2022 \$0

2022/2023 \$0

\$0

2023/2024 \$0

2024/2025 \$690.700

\$0

\$690.700 \$690,700

Total

Project Total:

2025/2026

COST DETAIL:

Study:

\$0 Land Acquisition / ROW:

\$81.800 Engineering / Design:

Construction: \$608,900

Annual Maint. Cost:

\$2,000

Cost Total:

\$690,700

\$0

Project Difference:

Maint. Year Start:

Service Impact:

Increased service and maintenance.

Project Justification:

Boardman River Enhancement

Location Description:

Boardman River bank between 8th Street bridge and Boardman Lake Trail



WALK-20-CIP **Walkways**

946-20-CIP **Expand Sidewalk System/Infill Gaps**

Visionary

Project Information

Submitted By: Tim Lodge

Category: General **Fund Group:**

Fund Detail: Walkways/Bike Paths

General Fund

Department: **Department Head:** Engineering

Tim Lodge

Essential (Should Do) Staff Priority: **Council Priority:**

Imperitive (Must Do)

Enhance public service and access through improved walkability throughout the City. Ongoing expansion of City's sidewalk

infrastructures. Infill existing gaps in sidewalk system according to map on file in Engineering. Maintenance of existing sidewalks. Targeted areas are major street corridors and locations in proximity to public facilities. Current estimates call for \$3.4 million for infill/gaps and

\$600,000 in sidewalk repair. \$500,000 is allotted for

design/engineering and bond costs.

This project will be financed via bond over a 15-year bond payment at approximately \$366,500 a year. The current CIP report only demonstrates the bond payments through fiscal year 25/26. Bond payments will be made until fiscal year 33/34, thus offsetting the project

difference.

Expand Sidewalk Sys Expand Sidewalk System/Infill Gaps (+SID + - Cost

Funding Sources:

GEN

Previous \$431.347 \$373.215

2020/2021

2021/2022 \$375.351

2022/2023 \$377.165

2023/2024 \$378.659

2024/2025 \$374.911

2025/2026

\$375.923

Cost Total:

Total \$2.686.571

\$4,500,000

Project Total: \$2,686,571

COST DETAIL:

\$0 Study: \$0 Land Acquisition / ROW:

\$500,000 Engineering / Design:

\$4,000,000 Construction:

Annual Maint. Cost: Project Difference: \$-1.813.429

Maint. Year Start:

Service Impact:

Additional infrastructure requiring operation, maintenance, and replacement. Enhance public service and access through improved walkability through the City.

Project Justification:

Enhance public service and access through improved walkability through the City.

Location Description:

City-wide with an initial focus on Traverse Heights Neighborhood.



WALK-20-CIP

Category:

Walkways

1023-20-CIP Expand Sidewalk System/Infill Gaps (SR2S)

Project Information

Missy Luick Submitted By:

Capital

General Fund Group:

Walkways/Bike Paths Fund Detail:

Department:

Engineering

Tim Lodge **Department Head:**

Essential (Should Do) Staff Priority: **Council Priority:**

Imperitive (Must Do)

In July 2018, the City of Traverse City received notification from the Michigan Department of Transportation that our multi-school \$2M Safe Routes to School (SRTS) infrastructure grant received conditional commitment for 4.9 miles of linear trail/sidewalk expansion, bike lanes, traffic calming, crosswalk improvements and signage upgrades. The

project will enhance public service and access through improved infrastructure near schools. The project will be designed by the Engineering Department (In-kind contribution). It is anticipated that

professional services will need to be allocated for project implementation. Additionally, there are several non-participating

improvements and in-eligible costs that the city will need to provide

Cost Total:

\$2,400,000

\$0

match for.

Expand Sidewalk Sys Expand Sidewalk System/Infill Gaps (SR2S) - C

Funding Sources:

		Previous	2020/2021	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	Total
FSG	Federal / State Grant	\$1,000,000	\$1,000,000	\$0	\$0	\$0	\$0	\$0	\$2,000,000
GEN	General Fund	\$50,000	\$50,000	\$0	\$0	\$0	\$0	\$0	\$100,000
IN	Inkind	\$200,000	\$100,000	\$0	\$0	\$0	\$0	\$0	\$300,000
								Project Total:	\$2,400,000

COST DETAIL:

\$0 Study: \$0

Land Acquisition / ROW: \$400.000 Engineering / Design:

\$2,000,000 Construction:

Annual Maint. Cost: **Project Difference:**

Maint. Year Start:

Service Impact:

Additional infrastructure will increase operations and maintenance.

Project Justification:

Transportation Element and Parks and Recreation Element call for non-motorized connections.

Location Description:

City-wide



WALK-20-CIP

1191-20-CIP M-72 Sidewalk New Construction

Walkways

Project Information

Russ Soyring Submitted By: Category:

Visionary

Other Fund Group:

Available Capital Projects Fund Fund Detail:

General Fund

Department: **Department Head:**

Staff Priority:

Council Priority:

\$0

Planning and Zoning

Russ Soyring

Essential (Should Do)

New sidewalk construction on the north side of M-72 from Old Morgan Trail to the corner of M-72 (East Traverse Highway) and Southwest

Bayshore Drive/Grandview Parkway.

M-72 Sidewalk (New M-72 Sidewalk (New construction)

Funding Sources:

GEN

Previous 2020/2021

\$0

2021/2022

2022/2023 \$206.553

2023/2024 \$0

2024/2025

\$0

2025/2026 \$0

Cost Total:

Project Difference:

Total \$206.553

\$206.553

\$0

\$206,553 **Project Total:**

COST DETAIL:

\$0

\$0 Study:

Land Acquisition / ROW: \$0

\$12.910 Engineering / Design:

Construction: \$193,644

Annual Maint. Cost:

Maint. Year Start:

Service Impact:

TBD

Project Justification:

TBD

Location Description:

Old Morgan Trail extending to Southwest Bayshore Drive.



WALK-20-CIP Walkways

1025-20-CIP Rivers Edge Riverwalk Decking Replacement

Project Information

Submitted By: Rob Baciagalupi

Category: Maintenance

Department:

Downtown Development

Replacement of decking on River's Edge Riverwalk

Category: Fund Group:

Tax Increment Financing

Department Head: Staff Priority:

Fund Detail: Walkways/Bike Paths

TIF Old Town

Council Priority:

\$106.869

Rivers Edge Riverwa Rivers Edge Riverwalk Decking Replacement - Cost

Funding Sources:

TIFOT

Previous 2020/2021

\$0

2021/2022

Jean Derenzy

2022/2023

\$0

2023/2024

\$0

2024/2025

\$0

2025/2026

Project Total:

\$0

Total \$106.869

\$106,869

COST DETAIL:

\$0

Study:

\$0 \$0

\$0

Land Acquisition / ROW:

Engineering / Design:

\$106,869

Cost Total:

\$106.869

Annual Maint. Cost:

Project Difference:

Oifference: \$0

Maint. Year Start:

Construction:

Service Impact: None foreseen

Project Justification:

Replacement of old decking

Location Description:

River's Edge



WALK-20-CIP **Walkways**

1193-20-CIP Sidewalk construction on the north side of Hill St

Project Information

Russ Soyring Submitted By:

Visionary Category: General Fund Group:

General Government Fund Detail:

General Fund

Department:

Staff Priority:

Council Priority:

\$0

Department Head:

Planning and Zoning

Russ Soyring

Essential (Should Do)

Construction on the north side of Hill Street, west of Elmwood to Willow Hill Elementary School. This sidewalk section was orginally part of the Safe Routes to School plan; however, due to grading and ADA complexities the SRTS grant could not fund the necessary construction

for the project. Consideration of road narrowing and a traffic circle at Monroe and Hill Street will also be implemented in this project. This project will connect the pathways indicated by the SRTS heat index maps to be vital to promote a safer, more walkable pathway to and from

school.

Funding Sources:

GEN

2020/2021 **Previous** \$0

2021/2022

2022/2023

\$896,000

2023/2024

\$0

2024/2025

\$0

2025/2026 \$0

Cost Total:

Project Difference:

\$896,000 Project Total:

Total

\$896.000

\$896,000

\$0

COST DETAIL:

\$0

\$0 Study: \$0

Land Acquisition / ROW: \$96.000 Engineering / Design:

\$800,000 Construction:

Annual Maint. Cost:

Maint. Year Start:

Service Impact:

2022/23 CIP year, TBD.

Project Justification:

This section of sidewalk was charted to be of substaintial impact by Safe Routes to School for a safer, and more walkable pathway for local school children to travel to and from school.

Location Description:

North section of Hill Street, west of Elmwood to Willow Hill Elementary School.



WALK-20-CIP **Walkways**

1069-20-CIP **Wellington Plaza Erosion Stabilization Project**

Project Information

Category:

TIF97

Rob Baciagalupi Submitted By:

Department: Maintenance **Department Head:** **Downtown Development**

Important (Could Do)

Corrective measures to stabilize erosion damage beneath the walkway

platform at Wellington Plaza on the Boardman River.

Tax Increment Financing Fund Group:

Council Priority:

TIF 97 Fund Detail:

Wellington Plaza Ero: Wellington Plaza Erosion

TIF 97

Funding Sources:

Previous 2020/2021 \$0 \$50.000

Staff Priority:

2021/2022

Jean Derenzy

2022/2023

2023/2024

\$0

2024/2025

\$0

2025/2026 \$0

Total \$50,000

\$50,000 **Project Total:**

COST DETAIL:

\$0

Study:

\$0 \$0

\$0

Land Acquisition / ROW: Engineering / Design:

Maint. Year Start:

Construction: \$50,000

\$0

Annual Maint, Cost:

\$500

Cost Total:

\$50,000

1905

Project Difference:

\$0

Service Impact:

None

Project Justification:

Maintenance

Location Description:

501 E Front Street

Page: 171



Six Year Capital Improvement Plan Budget Year 2020-2021 by Program Name

All Projects Submitted for 2020-2021

		projects occurring in the first FY of the plan . jects with multiple funding									Overall Programming Cost		
	Project ID		Cat	Previous	Fiscal Year 2020-2021	Fiscal Year 2021-2022	Fiscal Year 2022-2023	Fiscal Year 2023-2024	Fiscal Year 2024-2025	Fiscal Year 2025-2026	Project	City	Non-City
			Cat	Previous	2020-2021	2021-2022	2022-2023	2025-2024	2024-2023	2020-2020	Cost	Funds	Funds
	astewater												
+	912-20-CIP	Condition Assessment of Digesters 1 and 2	М	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$80,000	\$0	\$0
	1052-20-CIP	16" San. Forcemain East Front L.S. To Wellington	M	\$0	\$0	\$0	\$0	\$100,000	\$0	\$0	\$100,000	\$100,000	\$0
+	1044-20-CIP	2nd Membrane Replacement	М	\$0	\$0	\$0	\$0	\$0	\$0	\$1,000,000	\$6,000,000	\$500,000	\$500,000
+	1171-20-CIP	Aeration Basin /Aerating Equipment Upgrade	С	\$0	\$0	\$0	\$0	\$2,000,000	\$0	\$0	\$2,000,000	\$2,000,000	\$0
	366-20-CIP	Annual Sewer Rehab/Replace	V	\$450,000	\$450,000	\$450,000	\$450,000	\$450,000	\$450,000	\$450,000	\$3,150,000	\$3,150,000	\$0
	13-20-CIP	Annual Storm Water Mngt Program	М	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$350,000	\$350,000	\$0
+	1175-20-CIP	Digester 4 and 5 Condition Assessment	V	\$0	\$0	\$190,000	\$0	\$0	\$0	\$0	\$190,000	\$190,000	\$0
+	1036-20-CIP	Digester 5 Cleaning and Reconditioning Equipment	М	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$590,000	\$0	\$0
+	1037-20-CIP	Digester Gas Metering	V	\$0	\$0	\$70,000	\$0	\$0	\$0	\$0	\$70,000	\$35,000	\$35,000
+	971-20-CIP	Enclose Membrane Trains	С	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$500,000	\$0	\$0
	967-20-CIP	Engineering Evaluation of Clinch -Coast Guard LS	V	\$0	\$0	\$0	\$30,000	\$0	\$0	\$0	\$30,000	\$30,000	\$0
	1031-20-CIP	Engineering Evaluation-Woodmere&Riverine Lift St.	V	\$0	\$0	\$30,000	\$0	\$0	\$0	\$0	\$30,000	\$30,000	\$0
+	1019-20-CIP	Engineering Study Pertaining to Facility Plan	V	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$30,000	\$0	\$0
	1002-20-CIP	Front St LS- Engineering Evaluation/Capacity Study	V	\$0	\$50,000	\$0	\$0	\$0	\$0	\$0	\$50,000	\$50,000	\$0
	1001-20-CIP	Front ST. LS- Upgrade	С	\$0	\$0	\$0	\$0	\$0	\$0	\$550,000	\$550,000	\$550,000	\$0
+	900-20-CIP	Membrane Distribution & RAS Channel Aeration Line	M	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$95,400	\$0	\$0
+	1172-20-CIP	Membrane Tank Covers or Enclosure Eng. Eval	V	\$0	\$0	\$0	\$0	\$0	\$0	\$30,000	\$30,000	\$30,000	\$0
	1032-20-CIP	New Portable Generator for Lift Stations	С	\$0	\$0	\$0	\$0	\$150,000	\$0	\$0	\$150,000	\$150,000	\$0
+	890-20-CIP	Plant-Membrane Replacement	М	\$860,000	\$860,000	\$0	\$0	\$0	\$0	\$0	\$1,720,000	\$860,000	\$860,000
+	902-20-CIP	Primary Header Replacement	С	\$0	\$1,500,000	\$0	\$0	\$0	\$0	\$0	\$1,500,000	\$750,000	\$750,000
+	1176-20-CIP	RTWWTP-Digester 4 Reconditioning	С	\$0	\$0	\$0	\$0	\$1,100,000	\$0	\$0	\$1,100,000	\$1,100,000	\$0
+	1075-20-CIP	RWWTP-ADMINISTRATION BLDG HVAC UPGRADE	M	\$0	\$45,000	\$0	\$0	\$0	\$0	\$0	\$45,000	\$22,500	\$22,500
+	1079-20-CIP	RWWTP-Aeration Basin/Aerating Equipment Evaluation	V	\$0	\$0	\$30,000	\$0	\$0	\$0	\$0	\$30,000	\$15,000	\$15,000

Page: 172



Six Year Capital Improvement Plan Budget Year 2020-2021 by Program Name

All Projects Submitted for 2020-2021

Bold - Indicates	projects occurring in the first FY of the plan.											
+ - Indicates proj	jects with multiple funding									Ove	erall Programming	Cost Cost
				Fiscal Year	Project	City	Non-City					
Project ID		Cat	Previous	2020-2021	2021-2022	2022-2023	2023-2024	2024-2025	2025-2026	Cost	Funds	Funds
Wastewater												
+ 1174-20-CIP	RWWTP-Annual Equipment Rehab/Replace (> or = \$9K)	М	\$0	\$200,000	\$200,000	\$200,000	\$200,000	\$200,000	\$200,000	\$0	\$1,200,000	\$0
+ 1077-20-CIP	RWWTP-BOILER CONTROLS UPGRADE	М	\$0	\$56,000	\$0	\$0	\$0	\$0	\$0	\$56,000	\$28,000	\$28,000
+ 1076-20-CIP	RWWTP-CRANE AND HOIST PAINTING	М	\$0	\$52,500	\$0	\$0	\$0	\$0	\$0	\$52,500	\$26,250	\$26,250
+ 1078-20-CIP	RWWTP-UPGRADE DIGESTED SOLIDS THICKENING EQUIPMENT	С	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,500,000	\$0	\$0
+ 1173-20-CIP	RWWTP-Yard Piping Engineering Evaluation	V	\$0	\$0	\$0	\$0	\$0	\$0	\$60,000	\$60,000	\$60,000	\$0
+ 795-20-CIP	SCADA Upgrade	М	\$0	\$0	\$155,000	\$0	\$0	\$0	\$0	\$155,000	\$77,500	\$77,500
+ 1073-20-CIP	Scour Air Blower Overhaul-5 blowers at TCRWWTP	М	\$45,000	\$47,250	\$47,250	\$48,250	\$48,250	\$0	\$0	\$236,000	\$118,000	\$118,000
+ 1167-20-CIP	Screw Pump 2 and 3 Engineering Study	V	\$0	\$20,000	\$0	\$0	\$0	\$0	\$0	\$20,000	\$20,000	\$0
+ 893-20-CIP	Screw Pump 2 and 3 Replacement	С	\$0	\$0	\$1,160,000	\$0	\$0	\$0	\$0	\$1,160,000	\$580,000	\$580,000
+ 970-20-CIP	TCRWWTP- PLC Upgrade	М	\$0	\$0	\$300,000	\$0	\$0	\$0	\$0	\$300,000	\$150,000	\$150,000
+ 1168-20-CIP	TRWWTP-Plant Electrical Engineering Evaluation	V	\$0	\$0	\$50,000	\$0	\$0	\$0	\$0	\$50,000	\$50,000	\$0
+ 1169-20-CIP	TRWWTP-Structural Condition Assessment	V	\$0	\$0	\$50,000	\$0	\$0	\$0	\$0	\$50,000	\$50,000	\$0
+ 1033-20-CIP	UV System and Related Structures Upgrade	С	\$0	\$0	\$0	\$0	\$0	\$3,000,000	\$0	\$3,000,000	\$1,500,000	\$1,500,000
+ 1170-20-CIP	UV System Upgrade Engineering	V	\$0	\$0	\$50,000	\$0	\$0	\$0	\$0	\$50,000	\$50,000	\$0
+ 764-20-CIP	Window Replacement 503 Hannah Ave.	V	\$0	\$60,000	\$0	\$0	\$0	\$0	\$0	\$60,000	\$60,000	\$0
1058-20-CIP	WW Gravity Main Rehab\Repair and PACP Inspections	М	\$0	\$0	\$0	\$385,000	\$385,000	\$385,000	\$385,000	\$1,540,000	\$1,540,000	\$0
1057-20-CIP	WW Manholes Rehab\Repair and MACP Inspections	M	\$0	\$0	\$0	\$50,000	\$50,000	\$50,000	\$50,000	\$200,000	\$200,000	\$0
+ 904-20-CIP	WW-Primary Clarification Upgrade	С	\$0	\$0	\$0	\$3,000,000	\$0	\$0	\$0	\$3,000,000	\$1,500,000	\$1,500,000
Total Wastewa	ater			\$3,390,750	\$2,832,250	\$4,213,250	\$4,533,250	\$4,135,000	\$2,775,000	\$30,773,900	\$17,569,250	\$6,609,250



WW-20-CIP Wastewater

912-20-CIP Condition Assessment of Digesters 1 and 2

Project Information

Submitted By: Elizabeth Hart

Maintenance

Waste Water

Sewer Plant and Buildings

Department: Department of Municipal Utilitie

Department Head:

Staff Priority: Council Priority: Important (Could Do)

Art Krueger

Future Project for FY2030-31, so negative "Project Difference";

Condition Assessment and Engineering Study of Digesters 1 and 2. The project will identify the best use of the vessels and thus the

necessary related upgrades and reconditioning.

Reconditioning Diges Reconditioning Digesters 1 and 2 - Cost

Funding Sources:

Category:

Fund Group:

Fund Detail:

S

	Previous	2020/2021	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	Total
Private	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Sewer Fund	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0

Project Total:

COST DETAIL:

Study: \$0

Land Acquisition / ROW: \$0

Engineering / Design: \$0

Construction: \$80,000 **Cost Total:** \$80,000

Annual Maint. Cost: Project Difference: \$-80,000

Maint. Year Start:

Service Impact:

Digesters 1 and 2 are out of service because they aren't in proper condition to be used for sludge stabilization. An overall evaluation of how best to optimize their use and an assessment of their condition is needed.

Project Justification:

Optimize the use of equipment and available space at the WWTP.

Location Description:

606 Hannah Ave



WW-20-CIP Wastewater

1052-20-CIP 16" San. Forcemain East Front L.S. To Wellington

Project Information

Submitted By: Art Krueger
Category: Maintenance

Department:
Department Head:

Department of Municipal Utilitie

Essential (Should Do)

Art Krueger

Replace approx. 300 lineal feet of aging 16" forcemain from the Front Street Lift Station along E. Front Street to Wellington Street. This project

would be part of the East Front St. Reconstruction Project.

Fund Group: Waste Water Staff Priority:

Fund Detail: Sewer Collection System Council Priority:

Sewer Fund

16" San. Forcemain E 16" San. Forcemain East Front L.S. To Wellington

Funding Sources:

S

2020/2021 2021/2022 2022/2023 2023/2024 2024/2025 2025/2026 **Previous** Total \$0 \$0 \$0 \$0 \$100.000 \$0 \$0 \$100.000

Project Total: \$100,000

Cost Total:

\$100,000

COST DETAIL:

Study: \$0
Land Acquisition / ROW: \$0
Engineering / Design: \$0

Construction: \$100,000

Annual Maint. Cost: Project Difference: \$0

Maint. Year Start:

Service Impact:

The pipe condition could not be assessed during the 2015 SAW Grant project since it is always under pressure and full flow. This project provides an opportunity to assess the pipe condition and make informed decisions regarding this and other forcemains in the City.

Project Justification:

2015 SAW Grant recommended replacing this forcemain due to it's age.

Location Description:

Front St. Lift Station along E. Front Street to Wellington Street.



WW-20-CIP Wastewater

1044-20-CIP 2nd Membrane Replacement

Project Information

Elizabeth Hart Submitted By: Category:

Maintenance

Waste Water Fund Group:

Sewer Plant and Buildings Fund Detail:

Department of Municipal Utilitie Department:

Art Krueger **Department Head:**

Staff Priority:

Council Priority:

Essential (Should Do)

Future Project for FY2025-26 through FY2030-31, so negative "Project Difference"; Replace 1 train of membranes each year until all 8 trains of

membranes are replaced.

2nd Membrane Replacement

Funding Sources:

		Previous	2020/2021	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	Total
P	Private	\$0	\$0	\$0	\$0	\$0	\$0	\$500,000	\$500,000
S	Sewer Fund	\$0	\$0	\$0	\$0	\$0	\$0	\$500,000	\$500,000

Project Total: \$1,000,000

Cost Total:

\$6,000,000

COST DETAIL:

\$0 Study: \$0 Land Acquisition / ROW: \$0 Engineering / Design:

\$6,000,000 Construction:

Annual Maint. Cost: \$-5,000,000 **Project Difference:**

Maint. Year Start:

Service Impact:

This project will allow the waste water treatment facility to maintain plant capacity, ensuring we can permeate at a rate that meets influent flow demands. Outside the initial purchase of the replacement membrane, there is very little future anticipated maintenance costs. It is recommended that the City budget to replace this train of membranes 8 years after its installation, however, they membranes are expected to last 10 years. This approach will ensure funds are available if something unforeseen occurs that effects the membrane life.

Project Justification:

This project will allow the waste water treatment facility to maintain plant capacity, ensuring we can permeate at a rate that meets influent flow demands and meet the requirement of the facility's NPDES permit.

Location Description:

606 Hannah Avenue



WW-20-CIP Wastewater

1171-20-CIP Aeration Basin /Aerating Equipment Upgrade

Project Information

Category:

Fund Detail:

Elizabeth Hart Submitted By: Capital

Department:

Department of Municipal Utilitie

Aeration Basin / Aerating Equipment Upgrade per Evaluation of Tasks 6 and portions of task 3 of the 2018-2019 Facility Plan-to include

Ammonia Monitoring for Aeration Control and New Aeration

Waste Water **Fund Group:**

Staff Priority: **Council Priority:**

Department Head:

Imperative (Must Do)

Art Krueger

Equipment-Condition Assessment Rated Seconday Treatment process 9th highest risk however blowers have no redundancy are inefficient, and are reaching the end of their useful life-Cost to be updated after

Cost Total:

Project Difference:

\$2,000,000

\$0

2021-2022 evaluation

Aeration Basin / Aerat Aeration Basin / Aerating Equipment Upgrade

Sewer Plant and Buildings

Funding Sources:

								Project Total:	\$2,000,000
S	Sewer Fund	\$0	\$0	\$0	\$0	\$1,000,000	\$0	\$0	\$1,000,000
Р	Private	\$0	\$0	\$0	\$0	\$1,000,000	\$0	\$0	\$1,000,000
		Previous	2020/2021	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	Total

COST DETAIL:

Study:

\$0

Land Acquisition / ROW:

\$0 \$0 Engineering / Design:

\$2,000,000 Construction:

Annual Maint. Cost:

Maint. Year Start:

Service Impact:

This project will address any structural issues indentified in the 2021-2022 evaluation, upgrade aerating equipment (including blowers) and add redundacy.

Project Justification:

The blowers currently in service will need to be overhauled/replaced in the near future. These blowers are not as efficient in their energy use as newer blowers. We believe we could save a great deal of energy by upgrading the blowers, the aeration grid or distribution system, and the way we control aeration output. There is also new mixing technologies that would benefit the secondary treatment process by reducing maintenance cost and providing efficiency in electrical usage. In addition, portions of the tank walls have repair exposed and need to be address, and the portion of the tank that the weirs are located is very degradated.

Location Description:

606 Hannah Ave.



WW-20-CIP Wastewater

366-20-CIP Annual Sewer Rehab/Replace

Project Information

Justin Roy Submitted By: Visionary Category:

Department: **Department Head:** Department of Municipal Utilitie

Provide \$450,000 annually in both the water and wastewater funds to continue systematic improvements (repair and replacement) of our

Staff Priority:

Waste Water Fund Group:

Sewer Collection System

Imperitive (Must Do)

Art Krueger

underground infrastructure.

\$450.000

Annual Sewer Rehab Annual Sewer Rehab/Replace - Cost

Sewer Fund

Funding Sources:

Fund Detail:

S

2020/2021 **Previous**

\$450,000

Council Priority:

\$450,000

2021/2022

2022/2023 2023/2024

\$450,000

\$0

\$0

2024/2025 \$450.000

2025/2026

\$3.150.000

\$3,150,000

Total

Project Total:

\$450,000

COST DETAIL:

Study:

\$450.000

\$0 Land Acquisition / ROW:

Engineering / Design:

\$3,150,000 Construction:

Annual Maint. Cost:

Maint. Year Start:

Cost Total:

\$3,150,000

Project Difference:

\$0

Service Impact:

Replacing sewer mains with historical maintenance issues that cause sewer backups will increase collection system reliability and minimize risk to property damage.

Project Justification:

This money gets programmed into larger street replacement projects to pay for the sewer portion of the street project.

Location Description:

City wide.



WW-20-CIP

Category:

Fund Detail:

S

Wastewater

13-20-CIP **Annual Storm Water Mngt Program**

Sewer Fund

Project Information

Tim Lodge Submitted By: Maintenance

Department: **Department Head:** Department of Municipal Utilitie

This line item will guarantee funds to construct and repair city storm sewer lines. Funds may be used to disconnect sanitary sewers as well

Essential (Should Do)

Art Krueger

Waste Water Fund Group:

Staff Priority: **Council Priority:** as construct water quality related infrastructure.

Annual Storm Water | Annual Storm Water Management Program - Cost

Sewer Collection System

Funding Sources:

2020/2021 **Previous**

\$50.000

\$50.000

2021/2022 2022/2023

2023/2024

\$50.000

2024/2025 \$50.000

2025/2026

Project Total:

\$50.000 \$350.000

COST DETAIL:

\$50.000

Study:

\$0 \$0

Land Acquisition / ROW:

\$0 Engineering / Design:

\$50.000

Construction:

\$350,000

Cost Total:

Project Difference:

\$0

Total

\$350,000

\$350,000

Annual Maint. Cost: Maint. Year Start:

Service Impact:

Will require operation, maintenance, and replacement as additional infrastructure is installed.

Project Justification:

To maintain and improve water quality.

Location Description:

Various locations city-wide. Refer to the Stormwater Management Plan prepared in 2017.



WW-20-CIP Wastewater

948-20-CIP **Digester 3 Reconditioning**

Project Information

Elizabeth Hart Submitted By: Category:

Maintenance

Waste Water Fund Group:

Fund Detail:

Sewer Plant and Buildings

Department of Municipal Utilitie Department:

Art Krueger **Department Head:**

Staff Priority:

Council Priority:

Imperitive (Must Do)

WW-Digester 3 Reconditioning -This project is prioritized inaccordance with the Asset Management Plan for the Facility and Lift Stations

-Condition Assessment Rated Digestion as highest risk

Digester 3 Recondition Digester 3 Reconditioning

Private

Sewer Fund

Funding Sources:

Ρ

2020/2021 2021/2022 2022/2023 2023/2024 2024/2025 2025/2026 **Previous** Total \$447.000 \$0 \$0 \$0 \$0 \$0 \$0 \$447.000 \$447.000 \$0 \$0 \$0 \$0 \$0 \$447,000 \$0

> \$894,000 Project Total:

Cost Total:

\$894,000

COST DETAIL:

\$0 Study: \$0 Land Acquisition / ROW: \$0 Engineering / Design:

\$894,000 Construction:

Annual Maint, Cost: \$0 **Project Difference:**

Maint. Year Start:

Service Impact:

Digester 3 is currently out of service, this limits the facility's capacity to treat biosolids. Digester 4 is the same age and is in need of a condition assessment and related upgrade to ensure full capacity of the solids treatment process is restore and maintained.

Project Justification:

Maintains suitable solids treatment capabilities to meet regulations for biosolids land application per federal code of regulations 503.

Location Description:

606 Hannah Ave



WW-20-CIP Wastewater

1175-20-CIP Digester 4 and 5 Condition Assessment

Project Information

Elizabeth Hart Submitted By: Category:

Visionary

Waste Water **Fund Group:**

Sewer Plant and Buildings Fund Detail:

Department:

Council Priority:

Art Krueger **Department Head:**

Imperative (Must Do) Staff Priority:

Department of Municipal Utilitie Digester 4 and 5 Condition Assessment plus other items detailed in Task 7, Task 9, and related portions of Tasks 3 and 5 of the 2018-2019

Facility's Proirity Improvements Plan-Includes cost of cleaning vessels-This project is prioritized inaccordance with the Asset

Management Plan for the Facility and Lift Stations -Condition Assement

Project Total:

Cost Total:

Project Difference:

\$190,000

\$190,000

\$0

Rated Digestion as highest risk

Digester 4 and 5 Cor Digester 4 and 5 Condition Assessment

Funding Sources:

Ρ S

	Previous	2020/2021	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	Total
Private	\$0	\$0	\$95,000	\$0	\$0	\$0	\$0	\$95,000
Sewer Fund	\$0	\$0	\$95,000	\$0	\$0	\$0	\$0	\$95,000

COST DETAIL:

\$0 Study:

\$0 Land Acquisition / ROW: \$190,000 Engineering / Design:

\$0 Construction:

Annual Maint, Cost: Maint. Year Start:

Service Impact:

This project ensures the treatment facility is able to properly treat solids created in the process of treating waste water. If we don't treat to a certain quality of solids the biosolids would be unable to be land applied and disposal costs then more than double. This project would add a spare pump its anticipated that quarterly the shaft will have to be rotated and other minor tasks perform to maintain its operability. The cost related to this activity is estimated to be less than \$300/yr.

Project Justification:

Maintain class B biosolids so the facility can utilize land application for disposal which is far less expensive than other means of disposal.

Location Description:



WW-20-CIP Wastewater

1036-20-CIP Digester 5 Cleaning and Reconditioning Equipment

Project Information

Elizabeth Hart Submitted By: Category:

Maintenance

Waste Water

Sewer Plant and Buildings

Department:

Department Head:

Staff Priority: **Council Priority:** Department of Municipal Utilitie

Art Krueger

Essential (Should Do)

Future Project for FY2026-27, so negative "Project Difference"; Digester 5 Cleaning and Reconditioning-Per Facilty's Priority Improvements Plan Task 7 and Task 9 Evaluation performed 2021-2022-Update Cost per evaluation-This project is prioritized inaccordance with the Asset

Management Plan for the Facility and Lift Stations -Condition Assement

Rated Digestion as highest risk

Digester 5 Cleaning ε Digester 5 Cleaning and Reconditioning Equipment

Funding Sources:

Fund Group:

Fund Detail:

								_	Project Total:	\$0
5	3	Sewer Fund	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
F	•	Private	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
			Previous	2020/2021	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	Total

COST DETAIL:

\$0 Study: \$0 Land Acquisition / ROW: \$0 Engineering / Design:

\$590,000 Construction:

Annual Maint. Cost:

Maint. Year Start:

Cost Total:

\$590,000

\$-590,000 **Project Difference:**

Service Impact:

This project ensures the treatment facility is able to properly treat solids created in the process of treating waste water. If we don't treat to a certain quality of solids the biosolids would be unable to be land applied and disposal costs then more than double. This project would add a spare pump its anticipated that quarterly the shaft will have to be rotated and other minor tasks perform to maintain its operability. The cost related to this activity is estimated to be less than \$300/yr.

Project Justification:

Digester 5 has been in service for 15 years and has not been cleaned or inspected since commissioned. Digesters accumulate grit and other debris in them that reduces their capacity, and causes pumping and mixing issues. We need to clean this debris out of the digester to maintain adequate treatment conditions for the solids byproduct created when treating waste water. We need to ensure the pumps are in conditions that will allow them to mix the digester properly to avoid foaming issues and treatment short falls. Recoating the digester and inner piping prevents degradation of the digester concrete and the increased cost to of related restoration.

Location Description:



WW-20-CIP Wastewater

1037-20-CIP Digester Gas Metering

Project Information

Submitted By: Elizabeth Hart

Visionary Department Head:

Department of Municipal Utilitie

WW-Add metering and monitoring capabilities to the digester gas

system.

Fund Group: Waste Water

Staff Priority:

Department:

Important (Could Do)

Art Krueger

Fund Detail:

Category:

Р

Sewer Plant and Buildings Council Priority:

Digester Gas Meterin Digester Gas Metering

Private Sewer Fund

Funding Sources:

Previous	2020/2021	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	Total
\$0	\$0	\$35,000	\$0	\$0	\$0	\$0	\$35,000
\$0	\$0	\$35,000	\$0	\$0	\$0	\$0	\$35,000

Project Total: \$70,000

Cost Total:

\$70,000

COST DETAIL:

Study: \$0
Land Acquisition / ROW: \$0
Engineering / Design: \$0

Construction: \$70,000

Annual Maint. Cost: Project Difference: \$0

Maint. Year Start:

Service Impact:

This project could help us expand the use of digester gas, and reduce the use of natural gas at the Waste Water Treatment Plant. The monitor will require sensor replacement at a minimum every year, and the device measuring the volume of gas produced will require annual verification/calibration to maintain accuracy of measurements. We have not yet ID the particular devices to be used so the cost involved in this ongoing maintenance is an estimate, and is estimated to be \$5,000/yr

Project Justification:

Having the ability to monitor the makeup of the digester gas will better help us identify the current "health" of the digester in real time. Having the ability to measure the volume of digester gas produced will help to understand the limitations to our expansion of its use in an effort to meet green team objectives of reducing the City's Carbon foot print.

Location Description:



WW-20-CIP Wastewater

971-20-CIP **Enclose Membrane Trains**

Project Information

Elizabeth Hart Submitted By:

Capital

Private Sewer Fund

Waste Water Fund Group:

Fund Detail:

Ρ

Category:

Sewer Plant and Buildings **Council Priority:**

Department of Municipal Utilitie Department:

Art Krueger **Department Head:**

Staff Priority:

Important (Could Do)

Future Project for FY2029-30, so negative "Project Difference"; Membrane Tank Covers or Enclosure Upgrade per 2025-2026

Engineering Study

Enclose Membrane T Enclose Membrane Trains - Cost

Funding Sources:

Previou	s 2020/2021	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	Total
\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0

Project Total:

COST DETAIL:

\$0 Study: \$0 Land Acquisition / ROW: \$0 Engineering / Design:

\$500,000 Construction:

Annual Maint, Cost:

\$500,000 **Cost Total:**

\$0

\$-500,000 **Project Difference:**

Maint. Year Start:

Service Impact:

The membranes can not be exposed to ambient temperature below 45 degrees. Currently, there is not a structure around the membrane tanks. Having a structure in place would shelter the membranes from the outside elements, greatly reducing the risk of the membranes freezing, and allowing for maintenance activities year round.

Project Justification:

Improves the ability of the facility to maintain needed equipment vital to meeting the requirements of the facility's NPDES permit.

Location Description:



WW-20-CIP Wastewater

967-20-CIP **Engineering Evaluation of Clinch -Coast Guard LS**

Project Information

Elizabeth Hart Submitted By: Category:

Visionary

Waste Water

Sewer Collection System Fund Detail:

Sewer Fund

Department:

Department Head:

Staff Priority: **Council Priority:** Department of Municipal Utilitie

Art Krueger

Essential (Should Do)

WW-Engineering Evaluation of Clinch Park and Coast Guard Lift Stations- Capacity and Condition Assessment, including controls upgrade and telemetry-Upgrade per evaluation to be added to CIP in

Accordance with AMP prioritization-Upgrade per evaluation to be added

to CIP in Accordance with AMP prioritization

Engineering Evaluatic Engineering Evaluation-Clinch -Coast Guard LS

Funding Sources:

Fund Group:

S

2020/2021 **Previous**

\$0

\$0 \$0

2021/2022

2022/2023 \$30.000

2023/2024 \$0

2024/2025 \$0

2025/2026 \$0

\$30,000

Total

Project Total:

\$30,000

COST DETAIL:

Study:

\$0 \$0

Land Acquisition / ROW: Engineering / Design:

\$30.000

\$0 Construction:

Annual Maint. Cost:

Cost Total: **Project Difference:** \$30,000

\$0

Maint. Year Start:

Service Impact:

This project would evaluate if the lift stations' structures and equipment are sized appropriately to meet the demands of future growth, and would identify station maintenance needs and related costs.

Project Justification:

These lift stations are 2 of 8 major lift stations in Traverse City, it is imperative that they are in good operable condition and properly sized in order to ensure waste water is successfully pumped to the treatment plant at all times from the areas they serve.

Location Description:

Clinch Park Lift Station-111 E. Grandview Parkway

Coast Guard-911 Airport Access Rd.



WW-20-CIP Wastewater

1031-20-CIP Engineering Evaluation-Woodmere&Riverine Lift St.

Project Information

Submitted By: Elizabeth
Category: Visionary

Elizabeth Hart Department:

Department of Municipal Utilitie

Art Krueger

Engineering Evaluation/Condition Assessment Woodmere and Riverine Lift Stations, including controls upgrade and Telemetry-Upgrade per

Fund Group: Waste Water

Sewer Fund

Department Head: Staff Priority:

Essential (Should Do)

evaluation to be added to CIP in Accordance with AMP prioritization

Fund Detail: Sewer Collection System Council Priority:

Engineering Evaluatic Engineering Evaluation Woodmere and Riverine LS

Funding Sources:

S

2020/2021 2021/2022 2022/2023 2023/2024 2024/2025 2025/2026 **Previous** Total \$0 \$0 \$30.000 \$0 \$0 \$0 \$0 \$30,000

Project Total: \$30,000

\$30,000

COST DETAIL:

Study: \$0

Land Acquisition / ROW: \$0

Engineering / Design: \$30,000

Construction: \$0 Cost Total:

Annual Maint. Cost: Project Difference: \$0

Maint. Year Start:

Service Impact:

This project would evaluate if the lift station structures and equipment are sized appropriately to meet the demands of future growth, and would identify station maintenance needs and related costs.

Project Justification:

Woodmere and Riverine lift stations are one of 8 major lift stations in Traverse City, it is imperative that it is in good operable condition and properly sized in order to ensure waste water is successfully pumped to the treatment plant at all times from the area it serves.

Location Description:

645 Woodmere Ave.



WW-20-CIP Wastewater

1019-20-CIP Engineering Study Pertaining to Facility Plan

Project Information

Submitted By: Elizabeth Hart
Category: Visionary

Department:
Department Head:

Staff Priority:

Council Priority:

Department of Municipal Utilitie

Future Project for FY2026-27, so negative "Project Difference"; This study will encompass tasks 10, 11, and 13 of the Facility's Priority

Art Krueger

Fund Group: Waste Water

Sewer Plant and Buildings

Essential (Should Do)

Improvement Plan.

Engineering Study Pe Engineering Study Pertaining to Facility Plan

Funding Sources:

Fund Detail:

P S

	Previous	2020/2021	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	Total
Private	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Sewer Fund	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0

Project Total:

\$0

COST DETAIL:

Study: \$0
Land Acquisition / ROW: \$0

Engineering / Design: \$30,000

Construction: \$0 Cost Total: \$30,000

Annual Maint. Cost: Project Difference: \$-30,000

Maint. Year Start:

Service Impact:

Evaluate the facility's HVAC systems for condition and offer more energy efficient options for replacement. In addition, The valving and piping in the biosolids storage buildings will be evaluated and options for valve automation, and piping repair recommendations will result. Lastly, the windows at the facility will be evaluated for upgrade and to add energy efficiency to the buildings.

Project Justification:

HVAC systems at the facility are a source of repeated repairs and are not efficient. Upgrading the systems could reduce repair costs and add efficiency. The piping in the biosolids storage building has not been assessed in decades, and the valving system is antiquated. Evaluating the piping can ensure we do not experience unforeseen failures and that we are able to better plan fiscally for any repairs needed. Updating the valving could make operations safer and reduce the time needed to make valving changes. Several of the windows at the facility are very old, replacement will add energy efficiencies and improve security.

Location Description:



WW-20-CIP Wastewater

1002-20-CIP Front St LS- Engineering Evaluation/Capacity Study

Project Information

Elizabeth Hart Submitted By: Category:

Visionary

Waste Water

Fund Detail:

Sewer Fund

Sewer Collection System

Department:

Department Head:

Staff Priority:

\$50.000

Council Priority:

Department of Municipal Utilitie

Art Krueger

Essential (Should Do)

Front Street Lift Station Engineering Evaluation-To look at Capacity and options for upgrade-including VFDs and telemetry (PLC updated

2018-2019)-This project is prioritized inaccordance with the Asset Management Plan for the Facility and Lift Stations -Condition Assement

2024/2025

Rated Front St. Lift Station as 3rd highest risk

Front St LS- Enginee Front St LS- Engineering Evaluation

Funding Sources:

Fund Group:

S

2020/2021 **Previous**

\$0

2021/2022 \$0

2022/2023 \$0

2023/2024 \$0

\$0

\$0

2025/2026

Project Total:

\$50.000

\$50,000

\$50,000

\$0

Total

COST DETAIL:

Study:

\$0 Land Acquisition / ROW:

\$0

\$50.000

Engineering / Design:

\$0 Construction:

Annual Maint. Cost:

Project Difference:

Cost Total:

Maint. Year Start:

Service Impact:

This project would evaluate if the lift station structures and equipment are sized appropriately to meet the demands of future growth, and would identify station maintenance needs and related costs.

Project Justification:

This lift station is the biggest of 8 major lift stations in Traverse City and most crucial to the downtown area, it is imperative that it is in good operable condition and properly sized in order to ensure waste water is successfully pumped to the treatment plant at all times from the area it serves.

Location Description:

Front St.



WW-20-CIP

Wastewater

1001-20-CIP Front ST. LS- Upgrade

Project Information

Elizabeth Hart Submitted By:

Capital

Waste Water Fund Group:

Fund Detail:

S

Category:

Sewer Collection System **Council Priority:**

\$0

Department of Municipal Utilitie Department:

Art Krueger **Department Head:**

Essential (Should Do)

WW-Front Street Lift Station Upgrade in relation to 2020-2021

Engineering Study-This project is prioritized inaccordance with the Asset Management Plan for the Facility and Lift Stations -Condition

Assement Rated Front St. Lift Station as 3rd highest risk

\$0

Front ST. Lift Station Front ST. Lift Station Upgrade

Sewer Fund

Funding Sources:

2020/2021 **Previous**

\$0

Staff Priority:

2021/2022

2022/2023 \$0

2023/2024 \$0

2024/2025

2025/2026 \$550,000

Cost Total:

Total \$550.000

\$550,000 Project Total:

COST DETAIL:

\$0

\$0 Study:

\$0 Land Acquisition / ROW: \$0 Engineering / Design:

\$550,000 Construction:

Annual Maint. Cost:

Project Difference:

\$550,000

\$0

Maint. Year Start:

Service Impact:

Lift station's wet well, piping, metering, and pumps should be upgraded to add dependability and functionality. This cost is an estimate and will be subject to change once the 2020-2021 engineering study has been performed.

Project Justification:

Ensures wastewater can be properly conducted to the treatment plant for treatment. Helps to plan and budgeted any needed upgrades.

Location Description:

Front St.



WW-20-CIP Wastewater

900-20-CIP Membrane Distribution & RAS Channel Aeration Line

Project Information

Submitted By: Elizabeth Hart
Category: Maintenance

Department:

Department of Municipal Utilitie

Future Project for FY2029-30, so negative "Project Difference"; Remove and replace aging aeration line in the membrane distribution and RAS

Department Head: Art Krueger

Fund Group: Waste Water

Staff Priority: Council Priority: Essential (Should Do)

channel with SCH 80 PVC.

Fund Detail: Sewer Plant and Buildings Council Priority:

Membrane Distributic Membrane Distribution and RAS Channel Aera - Cost

Funding Sources:

Ρ

2020/2021 2021/2022 2022/2023 2023/2024 2024/2025 2025/2026 **Previous** Total Private \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 Sewer Fund \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0

Project Total:

Cost Total:

\$0

\$95,400

\$-95,400

COST DETAIL:

Study: \$0
Land Acquisition / ROW: \$0
Engineering / Design: \$0

Construction: \$95,400

Annual Maint. Cost: Project Difference:

Maint. Year Start:

Service Impact:

The aeration in the distribution channel to the membranes and the return activated sludge channel is need to keep the solids from settling in the channels causing decreased capacity and short circuiting.

Project Justification:

Some portions of the current aeration grid in these channels has failed and been patched, and other areas are in poor conditions. Replacing the line with schedule 80 PVC will provide a robust aeration grid for the 2 channels far into the feature and ensure plant effluent is of a quality that meets the facility's NPDES permit.

Location Description:



WW-20-CIP Wastewater

1172-20-CIP Membrane Tank Covers or Enclosure Eng. Eval

Project Information

Elizabeth Hart Submitted By: Visionary

Department:

Department of Municipal Utilitie

WW-Membrane Tank Covers or Enclosure Engineering Evaluation per

Task 8 of the Facility's Priority Plan Art Krueger **Department Head:**

Waste Water Fund Group:

Staff Priority:

Important (Could Do)

Sewer Plant and Buildings Fund Detail:

Council Priority:

Membrane Tank Cove Membrane Tank Covers or Enclosure Eng. Eval

Funding Sources:

Category:

		Previous	2020/2021	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	Total
Р	Private	\$0	\$0	\$0	\$0	\$0	\$0	\$15,000	\$15,000
S	Sewer Fund	\$0	\$0	\$0	\$0	\$0	\$0	\$15,000	\$15,000

Project Total: \$30,000

COST DETAIL:

\$0 Study:

\$0 Land Acquisition / ROW:

\$30.000 Engineering / Design:

\$30,000 \$0 Cost Total: Construction:

Annual Maint. Cost: \$0 **Project Difference:**

Maint. Year Start:

Service Impact:

This study will evaluate options for covering or enclosing the membrane tanks, and includes a cost comparison of options provided.

Project Justification:

Currently, we can not perfrom recovery cleans or maintenance tasks on the membranes when ambient air temperatures fall below 40 degrees, because they are not covered and exposure to cold temperatures will damage the membrane fibers.

Location Description:



WW-20-CIP Wastewater

1032-20-CIP **New Portable Generator for Lift Stations**

Project Information

Elizabeth Hart Submitted By:

Department:

Department of Municipal Utilitie

Capital Category: Waste Water Fund Group:

Sewer Fund

Department Head: Staff Priority: **Council Priority:**

\$0

Imperitive (Must Do)

Art Krueger

WW-Current generator is obsolete as of 2017. Parts are difficult to obtain and repairs are difficult to complete. This generator would be used to prevent sewer overflows at lift stations in the event of power

outages.

New Portable General New Portable Generator for Lift Stations

Sewer Collection System

Funding Sources:

Fund Detail:

S

2020/2021 **Previous**

\$0

2021/2022 2022/2023

2023/2024 \$150,000

2024/2025

\$0

2025/2026

\$0

Total \$150,000

\$150,000

Project Total:

COST DETAIL:

\$0

Study:

\$0 \$0

Land Acquisition / ROW:

\$0

\$0

Construction:

\$150,000

Cost Total:

\$150,000

\$0

Annual Maint. Cost: Maint. Year Start:

Engineering / Design:

Project Difference:

Service Impact:

Allows critical lift stations to stay in operation when line power is unavailable preventing sewer backups, and overflows.

Project Justification:

Prevents sewer backups and overflows that could occur at lift stations when line power in unavailable. When overflows occur waste water spills onto the ground around the lift station and this is a violation of regulatory requirements. When sewer backups occur at businesses or residents the public health is at risk.

Location Description:



WW-20-CIP Wastewater

890-20-CIP Plant-Membrane Replacement

Project Information

Submitted By: Elizabeth Hart
Category: Maintenance

Department:

Department of Municipal Utilitie

Replace 1 Train of Membranes each year until remaining 4 trains of

Department Head: Art Krueger 500C membrane cassettes are replaced.

Fund Group: Waste Water

Staff Priority:

Imperitive (Must Do)

Fund Detail: Sewer Plant and Buildings Council Priority:

Plant-Membrane Rep Plant-Membrane Replacement - Cost

Funding Sources:

		Previous	2020/2021	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	Total
Р	Private	\$430,000	\$430,000	\$0	\$0	\$0	\$0	\$0	\$860,000
S	Sewer Fund	\$430,000	\$430,000	\$0	\$0	\$0	\$0	\$0	\$860,000

Project Total: \$1,720,000

Cost Total:

\$1,720,000

COST DETAIL:

Study: \$0
Land Acquisition / ROW: \$0
Engineering / Design: \$0

Construction: \$1,720,000

Annual Maint. Cost: Project Difference: \$0

Maint. Year Start:

Service Impact:

This project will allow the waste water treatment facility to maintain plant capacity, ensuring we can permeate at a rate that meets influent flow demands. Outside the initial purchase of the replacement membrane, there is very little future anticipated maintenance costs. It is recommended that the City budget to replace this train of membranes 8 years after its installation, however, the membranes are expected to last 10 years. This approach will ensure funds are available if something unforeseen occurs that effects the membrane life.

Project Justification:

This project will allow the waste water treatment facility to maintain plant capacity, ensuring we can permeate at a rate that meets influent flow demands and meet the requirement of the facility's NPDES permit.

Location Description:

606 Hannah



WW-20-CIP Wastewater

902-20-CIP **Primary Header Replacement**

Project Information

Elizabeth Hart Submitted By: Category:

Capital

Waste Water Fund Group:

Sewer Plant and Buildings Fund Detail:

Department: **Department Head:**

Staff Priority:

Council Priority:

Art Krueger

Imperitive (Must Do)

Department of Municipal Utilitie

WW-Primary Header Replacement per HRC Evaluation performed in 2019-2020-This project is prioritized inaccordance with the Asset Management Plan for the Facility and Lift Stations -Condition Assessment Rated Primary Treatment as 2nd highest risk prior to primary header failing and after digester 3 being taken out of service

Primary Header Repl Primary Header Replacement - Cost

Funding Sources:

Р

	Previous	2020/2021	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	Total
Private	\$0	\$750,000	\$0	\$0	\$0	\$0	\$0	\$750,000
Sewer Fund	\$0	\$750,000	\$0	\$0	\$0	\$0	\$0	\$750,000

Project Total: \$1,500,000

Cost Total:

\$1,500,000

COST DETAIL:

\$0 Study: \$0 Land Acquisition / ROW: \$0 Engineering / Design:

\$1,500,000 Construction:

Annual Maint. Cost: \$0 **Project Difference:**

Maint. Year Start:

Service Impact:

If the primary header fails the waste coming into the facility will have to be pumped to upstream processes with a temporary distribution grid and multiple portable pumps this will be costly. The failure of this line could lead to permit noncompliance, and the flooding and damaging of many plant assets.

Project Justification:

The facility is required to be maintained adequately in order to meet standards of the facility's NPDES permit. The use of auxillary equipment to meet influent flow demands and properly treat the waste stream would only be allowed on a temporary basis.

Location Description:



WW-20-CIP Wastewater

1176-20-CIP RTWWTP-Digester 4 Reconditioning

Project Information

Category:

P S

Submitted By: Elizabeth Hart

Capital

Сарітаі

Fund Group: Waste Water

Fund Detail: Sewer Plant and Buildings

Department:
Department Head:

Staff Priority:

Council Priority:

Department of Municipal Utilitie

Art Krueger

Imperative (Must Do)

Digester 4 Reconditioning per Facility's Priority Improvements Plan Task 7 Evaluation performed 2021-2022 -Update Digester 4 Rehab after condition assessment is complete in 2021-2022-This project is prioritized inaccordance with the Asset Management Plan for the Facility and Lift Stations -Condition Assessment Rated Digestion as highest

risk-Note: For digester 4 cost includes cleaning of vessel

Digester 4 Reconditio Digester 4 Reconditioning

Funding Sources:

		Previous	2020/2021	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	Total
	Private	\$0	\$0	\$0	\$0	\$550,000	\$0	\$0	\$550,000
8	Sewer Fund	\$0	\$0	\$0	\$0	\$550,000	\$0	\$0	\$550,000

Project Total: \$1,100,000

Cost Total:

\$1,100,000

COST DETAIL:

Study: \$0

Land Acquisition / ROW: \$0 Engineering / Design: \$0

Construction: \$1,100,000

Annual Maint. Cost: Project Difference: \$0

Maint. Year Start:

Service Impact:

This project ensures the treatment facility is able to properly treat solids created in the process of treating waste water. If we don't treat to a certain quality of solids the biosolids would be unable to be land applied and disposal costs then more than double. In addition, digester 4 has a floating cover the purpose of which is to store digester gas for use in the boilers. If this digester is inoperable we will not have a way to utilize digester gas for heating and will have to solely use natural gas.

Project Justification:

Maintain class B biosolids so the facility can utilize land application for disposal which is far less expensive than other means of disposal.

Location Description:



WW-20-CIP Wastewater

Maintenance

1075-20-CIP RWWTP-ADMINISTRATION BLDG HVAC UPGRADE

Project Information

Submitted By: Elizabeth Hart

Department:

Department of Municipal Utilitie

The HVAC system in the administration building at the facility does not

temperature, particularly in the laboratory, can be controlled adequately.

Project Total:

\$45,000

\$45,000

Department Head: Art Krueger work properly. This project would upgrade the system so that

Fund Group: Waste Water Staff Priority: Essential (Should Do)

Fund Detail: Sewer Plant and Buildings Council Priority:

RWWTP-ADMINISTF RWWTP-ADMINISTRATION BLDG HVAC SYSTEM UPGRADE

Funding Sources:

Category:

		Previous	2020/2021	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	Total
Р	Private	\$0	\$22,500	\$0	\$0	\$0	\$0	\$0	\$22,500
S	Sewer Fund	\$0	\$22,500	\$0	\$0	\$0	\$0	\$0	\$22,500

COST DETAIL:

Study: \$0
Land Acquisition / ROW: \$0

Engineering / Design: \$0

Construction: \$45,000 Cost Total:

Annual Maint. Cost: Project Difference: \$0

Maint. Year Start:

Service Impact:

We believe that an upgrade will reduces current maintenance expenses.

Project Justification:

Upgrading the HVAC system in the administration bldg will allow us to control the temperature in the building, particularly in the laboratory where temperature variation effects the equipment we use to analyze samples for the purpose of obtaining data we report to the regulators to prove plant compliance.

Location Description:



WW-20-CIP Wastewater

1079-20-CIP RWWTP-Aeration Basin/Aerating Equipment Evaluation

Project Information

Elizabeth Hart Submitted By: Category:

Visionary

Waste Water

Sewer Plant and Buildings Fund Detail:

Department: **Department Head:**

Staff Priority:

Council Priority:

Department of Municipal Utilitie

Art Krueger

Imperitive (Must Do)

Aeration Basin / Aerating Equipment Evaluation per Tasks 6 and portions of task 3 of the 2018-2019 Facility Plan-to include Ammonia Monitoring for Aeration Control and New Aeration Equipment-Condition Assessment Rated Seconday Treatment process 9th highest risk

however blowers have no redundancy are inefficient, and are reaching

the end of their useful life

RWWTP-AERATION RWWTP-AERATION BASIN/AERATING EQUIP ENG. EVAL

Funding Sources:

Fund Group:

Ρ S

Sewer Fund \$0 \$0 \$15,000 \$0 \$0 \$0 \$0 \$0 \$0 \$15,000	Sewer Fund \$0 \$0 \$0 \$15,000 \$0 \$0 \$0 \$0	00
Sewer Fund \$0 \$0 \$15,000 \$0 \$0 \$0 \$0 \$0 \$0 \$15,000 \$0 \$0 \$15,000	Sewer Fund \$0 \$0 \$15,000 \$0 \$0 \$0 \$0	

COST DETAIL:

\$0 Study: \$0 Land Acquisition / ROW:

\$30.000 Engineering / Design:

\$0 Construction:

Annual Maint. Cost:

Project Difference:

Cost Total:

\$30,000

\$0

Maint. Year Start:

Service Impact:

This project will indentify the most cost effective approach to upgrading aeration basin equipment, and help plan for the cost of addressing any structual issues that are present. Currently, there are two blowers in place, this leaves no redundancy in aeration during the summer months.

Project Justification:

The blowers currently in service will need to be overhauled in the near future. These blowers are not as efficient in their energy use as newer blowers. We believe we could save a great deal of energy by upgrading the blowers, the aeration grid or distribution system, and the way we control aeration output.

Location Description:



WW-20-CIP Wastewater

1174-20-CIP RWWTP-Annual Equipment Rehab/Replace (> or = \$9K)

Project Information

Elizabeth Hart Submitted By: Maintenance Category:

Department:

Department of Municipal Utilitie

Annual Equipment Rehab/Replace (Items over \$9,000)-all items subject to prior City Commission Approval-Funds maintenance of 1,954

Waste Water Fund Group:

> Private Sewer Fund

Department Head: Staff Priority:

Council Priority:

Important (Could Do)

Art Krueger

assets to ensure they can be properly maintained per state regulator approved asset management plan.

Annual Equipment Re Annual Equipment Rehab/Replace

Sewer Plant and Buildings

Funding Sources:

Fund Detail:

Р

Previous	2020/2021	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	Total
\$0	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$600,000
\$0	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$600,000

Project Total: \$1,200,000

COST DETAIL:

\$0 Study:

\$0 Land Acquisition / ROW: \$0 Engineering / Design:

\$0 \$0 Construction: Cost Total:

\$2,200,000 Annual Maint, Cost: \$1,200,000 **Project Difference:**

Maint. Year Start:

Service Impact:

The facility and lift stations utilize a total of 1,954 assets. This line item is meant to ensure these assets are maintained in a fashion that reduces vunerabilities and optimizes process/lift station operations in order to meet regulatory requirements.

Project Justification:

This line item is meant to ensure there are funds available to properly maintain facility and lift station assets per the Asset Management Plan approved by state regulators.

Location Description:

606 Hannah Ave and 9 City Lift Stations



WW-20-CIP Wastewater

1077-20-CIP RWWTP-BOILER CONTROLS UPGRADE

Project Information

Elizabeth Hart Submitted By: Maintenance

Department of Municipal Utilitie Department:

Category: Waste Water Fund Group:

Art Krueger **Department Head:** Essential (Should Do)

Staff Priority:

Council Priority:

The boiler controls at the Regional Waste Water Treatment Plant are obsolete and unsupported. Currently, the controls are bypassed to allow for boiler operation. This project would update the controls with a

supported technology.

Sewer Plant and Buildings RWWTP-BOILER CC RWWTP-BOILER CONTROLS UPGRADE

Funding Sources:

Fund Detail:

		Previous	2020/2021	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	Total
Р	Private	\$0	\$28,000	\$0	\$0	\$0	\$0	\$0	\$28,000
S	Sewer Fund	\$0	\$28,000	\$0	\$0	\$0	\$0	\$0	\$28,000

Project Total:

Cost Total:

\$56,000

\$56,000

COST DETAIL:

\$0 Study: \$0 Land Acquisition / ROW:

\$0 Engineering / Design:

Construction: \$56,000

Annual Maint. Cost: \$0 **Project Difference:**

Maint. Year Start:

Service Impact:

Maintenance costs are not anticipated to be substantial.

Project Justification:

Proper control of the duel fuel boilers at the facility will ensure that the boilers operate as efficiently as possible, using digester gas whenever it is available which will reduce the use of natural gas.

Location Description:



WW-20-CIP Wastewater

1076-20-CIP **RWWTP-CRANE AND HOIST PAINTING**

Project Information

Elizabeth Hart Submitted By: Maintenance Category:

Department: **Department Head:** Department of Municipal Utilitie

Art Krueger Essential (Should Do)

Waste Water Fund Group: Sewer Plant and Buildings Fund Detail: **Council Priority:**

Staff Priority:

The crane and hoist painting projects includes all the cranes and hoists at the RWWTP. Painting the cranes and hoists will prevent premature deterioration of these assets. They will be painted with commercial

grade paint.

RWWTP-CRANE AN RWWTP-CRANE AND HOIST PAINTING

Funding Sources:

		Previous	2020/2021	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	Total
Р	Private	\$0	\$26,250	\$0	\$0	\$0	\$0	\$0	\$26,250
S	Sewer Fund	\$0	\$26,250	\$0	\$0	\$0	\$0	\$0	\$26,250

\$52,500 **Project Total:**

Cost Total:

\$52,500

COST DETAIL:

\$0 Study: \$0 Land Acquisition / ROW:

\$0 Engineering / Design:

\$52,500 Construction:

Annual Maint. Cost: \$0 **Project Difference:**

Maint. Year Start:

Service Impact:

The cranes and hoist should be painted every 10 years at a minimum. This is the only ongoing expense we anticipate until they are replaced. They also have to be rated and inspected annually, this requirement will not change when they are painted.

Project Justification:

Painting the hoists and cranes at the facility will help prevent the untimely deterioration of these assets.

Location Description:



WW-20-CIP Wastewater

1078-20-CIP RWWTP-UPGRADE DIGESTED SOLIDS THICKENING EQUIPMENT

Project Information

Elizabeth Hart Submitted By: Category:

Capital

Waste Water

Fund Group:

Sewer Plant and Buildings Fund Detail:

Department of Municipal Utilitie Department:

Department Head:

Council Priority:

Staff Priority:

Essential (Should Do)

Art Krueger

Future Project for FY2027-28, so negative "Project Difference"; Upgrade Digested Solids Thickening Equipment per 2018-2019 Facility Plan Tasks 7 and 9 Engineering Study Performed in 2021-2022-This project is prioritized inaccordance with the Asset Management Plan for the Facility and Lift Stations-Condition Assessment Rated Solids Handling as the 7th highest risk t Plan for the Facility and Lift Stations-Condition Assessment Rated Solids Handling as the 7th highest risk

RWWTP-Upgrade Dig RWWTP-Upgrade Digested Solids Thickening Equipment

Funding Sources:

							_	Project Total:	\$0
S	Sewer Fund	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
P	Private	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
		Previous	2020/2021	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	Total

COST DETAIL:

Study:

\$0 Land Acquisition / ROW:

\$0

\$0

Engineering / Design:

\$1,500,000 Construction:

Annual Maint. Cost:

\$1,500,000 Cost Total:

\$-1,500,000 **Project Difference:**

Maint. Year Start:

Service Impact:

This upgrade is not well defined at this point, but we do not anticipate maintenance expenses outside that of the prescribed preventive maintenance.

Project Justification:

The upgrade of the digested solids thickening equipment will result in the ability to better thicken solids sent to the biosolids storage tanks, reducing the volume sent to the storage tanks, and the volume needing to be hauled. With will save in biosolids hauling expenses.

Location Description:



WW-20-CIP Wastewater

1173-20-CIP **RWWTP-Yard Piping Engineering Evaluation**

Project Information

Elizabeth Hart Submitted By:

Department:

Department of Municipal Utilitie

Yard Piping Engineering Evalution per Task 12 for the Facility's Priority

Visionary Category:

Department Head:

Art Krueger

Plan-Upgrade per evaluation to be added to CIP per AMP prioritization

Waste Water Fund Group:

Staff Priority:

Essential (Should Do)

Sewer Plant and Buildings Fund Detail: **Council Priority:**

Yard Piping Engineer Yard Piping Engineering Evaluation

Funding Sources:

		Previous	2020/2021	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	Total
Р	Private	\$0	\$0	\$0	\$0	\$0	\$0	\$30,000	\$30,000
S	Sewer Fund	\$0	\$0	\$0	\$0	\$0	\$0	\$30,000	\$30,000

Project Total:

\$60,000

COST DETAIL:

\$0 Study:

\$0 Land Acquisition / ROW: \$60,000 Engineering / Design:

\$60,000 \$0 Cost Total: Construction:

Annual Maint, Cost: \$0 **Project Difference:**

Maint. Year Start:

Service Impact:

Evaluation of yard piping will indentify the condition of the underground pipes at the facility, most of which are several decades old, and provide cost for any related refurbishing/replacement recommendations that result.

Project Justification:

The piping at the facility has not been evaluated for many years and if it fails it will cause a permit violation, and obviously interfere with proper treatment of wastewater that is flowing through the pipes. This proactive approach to evaluating the condition of the piping will hopefully prevent a very expensive emergency response to a pipe failure.

Location Description:



WW-20-CIP

Wastewater

795-20-CIP SCADA Upgrade

Project Information

Elizabeth Hart Submitted By:

Department Head:

Department of Municipal Utilitie Upgrade SCADA system that controls the plant.

Maintenance Category: Waste Water

Staff Priority:

Department:

Essential (Should Do)

Art Krueger

Fund Detail:

Fund Group:

Ρ

Sewer Plant and Buildings

Council Priority:

SCADA Upgrade - Cc SCADA Upgrade - Cost

Private Sewer Fund

Funding Sources:

Previous	2020/2021	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	Total
\$0	\$0	\$77,500	\$0	\$0	\$0	\$0	\$77,500
\$0	\$0	\$77,500	\$0	\$0	\$0	\$0	\$77,500

Project Total: \$155,000

Cost Total:

\$155,000

COST DETAIL:

\$0 Study: \$0 Land Acquisition / ROW: \$0 Engineering / Design:

\$155,000 Construction:

Annual Maint. Cost: \$0 **Project Difference:**

Maint. Year Start:

Service Impact:

There is very little if any on going maintenance cost related to the upgrade of the SCADA system.

Project Justification:

The SCADA system is the brains of the automated operations components at the facility if it fails or has issues it creates many vulnerabilities related to compliance, safety, and could result in costly ramifications. The SCADA was last upgraded in 2014.

Location Description:



WW-20-CIP Wastewater

1073-20-CIP Scour Air Blower Overhaul-5 blowers at TCRWWTP

Project Information

Category:

Submitted By: Elizabeth Hart

Maintenance

Fund Group: Waste Water

Fund Detail: Sewer Plant and Buildings

Department: Department of Municipal Utilitie

Department Head: Art Krueger

Council Priority:

Staff Priority: Imperitive (Must Do)

The Scour Air Blowers at the TCRWWTP are used in the membrane process to periodically clear solids from the membrane surface in order to maintain permeability. The blowers have been in service since 2004 and based on the run times, and recent inspection by Aerzen, they are in need of an overhaul. Aerzen, the blower manufacturer, has an exchange program that will allow us to keep 5 scour air blowers in services while the inspect and overhaul the blower that was in service at the facility. The service Aerzen provides removal and install of the blowers which are very heavy. We will only be charge for the actual items needing overhauled once the blower has been inspected in the shop. We will need to front the cost of the exchange unit and also bay for install and removal. Once the system is assessed, we will be reimbursed for the actual cost of the overhaul. The exchange cost is the maximum cost of the Overhaul.

Scour Air Blower Ove Scour Air Blower Overhaul

Funding Sources:

		Previous	2020/2021	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	Total
Р	Private	\$22,500	\$23,625	\$23,625	\$24,125	\$24,125	\$0	\$0	\$118,000
S	Sewer Fund	\$22,500	\$23,625	\$23,625	\$24,125	\$24,125	\$0	\$0	\$118,000

Project Total:

Cost Total:

\$236,000

\$236,000

COST DETAIL:

Study: \$0
Land Acquisition / ROW: \$0

Engineering / Design: \$0

Construction: \$236,000

Annual Maint. Cost: Project Difference: \$0

Maint. Year Start:

Service Impact:

These blowers provide scour air to the blowers. The air scouring is necessary to remove solids buildup from the membrane fibers that occurs during the process of permeating through the fibers, allowing the permeating process to continue and preventing plant backups.

Project Justification:

Scour Air is needed for the proper operation of the membranes which are vital to the facility's treatment process, and to meeting NPDES permit requirements.

Location Description:



WW-20-CIP Wastewater

1167-20-CIP Screw Pump 2 and 3 Engineering Study

Project Information

Elizabeth Hart Submitted By: Category:

Visionary

Waste Water

Sewer Plant and Buildings Fund Detail:

Department:

Department Head:

Staff Priority:

Council Priority:

Department of Municipal Utilitie

Art Krueger

Imperative (Must Do)

Screw Pump 2 and 3 Engineering Study including related portions of Tasks 3 and 5 of the 2018-2019 Facility's Priority Plan-This project is prioritized inaccordance with the Asset Management Plan for the Facility and Lift Stations -Condition Assement Rated Primary Treatment, which screw pumps are apart of, as 2nd highest risk prior to primary header

failing and after digester 3 being taken out of service

Screw Pump 2 and 3 Screw Pump 2 and 3 Engineering Study

Funding Sources:

Fund Group:

		Previous	2020/2021	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	Total
P	Private	\$0	\$10,000	\$0	\$0	\$0	\$0	\$0	\$10,000
S	Sewer Fund	\$0	\$10,000	\$0	\$0	\$0	\$0 	\$0	\$10,000

Project Total:

\$20,000

COST DETAIL:

\$0 Study:

\$0 Land Acquisition / ROW:

\$20,000 Engineering / Design:

\$0 Construction:

Annual Maint, Cost:

Project Difference:

\$20,000

Cost Total:

\$0

Maint. Year Start:

Service Impact:

These pumps lift the waste water from the primary treatment process to the secondary treatment process for additional treatment necessary to meet the facility's NPDES permit.

Project Justification:

Pumps are needed to keep the waste stream moving through the facility for proper treatment and compliance with the facility's NPDES permit.

Location Description:



WW-20-CIP Wastewater

893-20-CIP Screw Pump 2 and 3 Replacement

Project Information

Category:

Elizabeth Hart Submitted By:

Capital

Waste Water Fund Group:

Sewer Plant and Buildings Fund Detail:

Department: **Department Head:**

Staff Priority:

Council Priority:

Department of Municipal Utilitie

Art Krueger

Imperitive (Must Do)

WW-Screw Pump 2 and 3 Upgrade per 2020-2021 Engineering Study-Update Cost After Study-This project is prioritized inaccordance with the Asset Management Plan for the Facility and Lift Stations

-Condition Assement Rated Primary Treatment, which screw pumps are apart of, as 2nd highest risk prior to primary header failing and after

Project Total:

Cost Total:

Project Difference:

\$1,160,000

\$1,160,000

\$0

digester 3 being taken out of service

Screw Pump Replace Screw Pump Replacement - Cost

Funding Sources:

		Previous	2020/2021	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	Total
Р	Private	\$0	\$0	\$580,000	\$0	\$0	\$0	\$0	\$580,000
S	Sewer Fund	\$0	\$0	\$580,000	\$0	\$0	\$0	\$0	\$580,000

COST DETAIL:

\$0 Study:

\$0 Land Acquisition / ROW: \$0 Engineering / Design:

Construction:

\$1,160,000

Annual Maint, Cost:

Maint. Year Start:

Service Impact:

These pumps lift the waste water from the primary treatment process to the secondary treatment process for additional treatment necessary to meet the facility's NPDES permit.

Project Justification:

Pumps are needed to keep the waste stream moving through the facility for proper treatment and compliance with the facility's NPDES permit.

Location Description:



WW-20-CIP

Category:

Р

Wastewater

970-20-CIP

TCRWWTP-PLC Upgrade

Project Information

Elizabeth Hart Submitted By:

Maintenance

Waste Water **Fund Group:**

Fund Detail:

Sewer Plant and Buildings

Private Sewer Fund Department:

Department Head:

Staff Priority:

Council Priority:

Department of Municipal Utilitie

Art Krueger

Imperitive (Must Do)

Upgrade PLC (Programmable Logic Controls) to maintain current plant

functionality. Contains 12 PLCs and includes adding additional processors to allow membrane trains to operate on their own

processor.

Plant PLC Upgrade - Plant PLC Upgrade - Cost

Funding Sources:

P	revious	2020/2021	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	Total
\$	0	\$0	\$150,000	\$0	\$0	\$0	\$0	\$150,000
\$	0	\$0	\$150,000	\$0	\$0	\$0	\$0	\$150,000

Project Total:

Cost Total:

\$300,000

\$300,000

COST DETAIL:

\$0 Study: \$0 Land Acquisition / ROW: \$0 Engineering / Design:

\$300,000 Construction:

Annual Maint. Cost: Project Difference:

Maint. Year Start:

Service Impact:

Many of the PLCs at the treatment facility were commissioned in 2005, they are or are becoming obsolete, which means they aren't going to be supported in the near future. The PLCs are the nerves of the treatment plant, they take in data from different monitoring devices (nerve endings) and communicate it to the SCADA (the brain of the plant) so that automated functions are modified to meet the current plant conditions, and initiates alarms to be triggered notifying staff there is an abnormal condition present. This project would ensure that the PLCs in the plant are well supported and thus able to be maintained.

Project Justification:

Maintain treatment capabilities to meet the requirements of the facility's NPDES permit.

Location Description:

606 Hannah



WW-20-CIP Wastewater

1168-20-CIP **TRWWTP-Plant Electrical Engineering Evaluation**

Project Information

Elizabeth Hart Submitted By: Visionary

Department:

Department of Municipal Utilitie

Plant Electrical Engineering Evaluation per Task 4 of 2018-2019 Facility's Priority Plan-Upgrade per evaluation to be added to CIP in

Category: Waste Water **Department Head:** Staff Priority:

Essential (Should Do)

Art Krueger

Accordance with AMP prioritization

Fund Group:

Sewer Plant and Buildings

Council Priority:

Plant Electrical Engin Plant Electrical Engineering Evaluation

Funding Sources:

Fund Detail:

Р

S

		Previous	2020/2021	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	Total
Р	Private	\$0	\$0	\$25,000	\$0	\$0	\$0	\$0	\$25,000
S	Sewer Fund	\$0	\$0	\$25,000	\$0	\$0	\$0	\$0	\$25,000

Project Total: \$50,000

Cost Total:

\$50,000

COST DETAIL:

\$0 Study: \$0

Land Acquisition / ROW: \$50,000 Engineering / Design:

\$0 Construction:

Annual Maint. Cost: Project Difference:

Maint. Year Start:

Service Impact:

This project will indentify electrical inefficiencies and safety vunerabilities, and make recommendations for addressing these issues complete with cost projections.

Project Justification:

The old plant or aeration plant is served by 13.8 kV switchgear. The switchgear feeds two transformers that step the 13.8 kV down to 480 V in the Blower Room. The transformers are connected to the 480 V substation that provides power to the plant motor control centers (MCCs). The existing plant switchgear, transformers, and substation were originally installed in the early 1970s. The membrane building is supplied by a separate 13.8 kV feed and 480 V stepdown transformer installed in 2004. Membrane process generator transfer switch is not provided with a removable tie-breaker that can be serviced. Upgrading the transfer switch will increase safety and reduce

vulnerabilities present by not being able to properly isolate.

The Administration Building generator only has capacity to run one screw pump, the UV system and Administration Building lighting. Increasing the capacity of the generator would benefit the facility by allowing for more equipment to operate if line power is lost.

Location Description:



WW-20-CIP Wastewater

1169-20-CIP **TRWWTP-Structural Condition Assessment**

Project Information

Elizabeth Hart Submitted By:

Visionary

Waste Water Fund Group:

Fund Detail:

Category:

Sewer Plant and Buildings

Department: **Department Head:**

Staff Priority:

Council Priority:

Department of Municipal Utilitie

Art Krueger

Essential (Should Do)

Structural Condition Assessment (Task 3 of Facility Plan) and Sludge Storage Tank Engineering Evaluation (Task 10 of Facility Plan):

Structures included=East and West Biosolids Storage Tanks, Hallway between the heat exchange room and primary pumping room, Maintenance Shop inside and out, maintenance shop basement, adjacent room, and loading dock per Facility's Priority Plan Task

3-Upgrade per evaluation to be added to CIP in Accordance with AMP prioritization

Structural Condition A Structural Condition Assessment

Funding Sources:

		Previous	2020/2021	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	Total
Р	Private	\$0	\$0	\$25,000	\$0	\$0	\$0	\$0	\$25,000
S	Sewer Fund	\$0	\$0	\$25,000	\$0	\$0	\$0	\$0	\$25,000

COST DETAIL:

Study:

\$0

\$0 Land Acquisition / ROW:

\$50.000 Engineering / Design:

\$0 Construction:

Annual Maint. Cost:

Cost Total: **Project Difference:**

Project Total:

\$50,000

\$50,000

\$0

Maint. Year Start:

Service Impact:

There are many aging structures at the TCRWWTP. Their structual evaluation will help plan and prioritize their reconditioning schedule.

Project Justification:

The tanks/ structures being evaluated are showing significant signs of degradation.

Location Description:



WW-20-CIP Wastewater

1033-20-CIP UV System and Related Structures Upgrade

Project Information

Submitted By: Elizabe

Elizabeth Hart

Department:

Department of Municipal Utilitie

WW-UV System Upgrade-To be completed by July 1, 2026 per July 3rd,

Category: Capital
Fund Group: Waste Water

Private Sewer Fund Department Head: Staff Priority:

Council Priority:

Art Krueger

2019 ACO and is inaccordance with the AMP prioritization-Condition Assessment rated the UV process the 4th highest risk prior to UV

Imperative (Must Do)

limited capacity being ID'd

UV System and Relat UV System and Related Structures Upgrade

Sewer Plant and Buildings

Funding Sources:

Fund Detail:

Р

Previous	2020/2021	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	Total
\$0	\$0	\$0	\$0	\$0	\$1,500,000	\$0	\$1,500,000
\$0	\$0	\$0	\$0	\$0	\$1,500,000	\$0	\$1,500,000

Project Total: \$3,000,000

Cost Total:

\$3,000,000

COST DETAIL:

Study: \$0
Land Acquisition / ROW: \$0

Land Acquisition / ROW: \$0 Engineering / Design: \$0

Construction: \$3,000,000

Annual Maint. Cost: Project Difference: \$0

Maint. Year Start:

Service Impact:

It has been found that the UV system was not designed to handle current design peak flow for the plant. This project would upgrade the system to meet peak flow demands, and to meet the MDEQ's current requirement of meeting 10 state standards as it relates to waste water treatment plant design criteria, it also allows the facility to meet the permit requirement of disinfecting 100% of the facility effluent at peak flows.

Project Justification:

This project is necessary for the facility to remain in compliance with its discharge permit issued be the MDEQ.

Location Description:



WW-20-CIP Wastewater

1170-20-CIP **UV System Upgrade Engineering**

Project Information

Elizabeth Hart Submitted By: Category:

Visionary

Waste Water Fund Group:

Fund Detail:

Sewer Plant and Buildings

Department: **Department Head:**

Staff Priority:

Council Priority:

Department of Municipal Utilitie

Art Krueger

Imperative (Must Do)

UV System Upgrade Engineering Including Part 41 Submission to EGLE by December 31st, 2024 per July 3rd, 2019 ACO and is

inaccordance with the AMP prioritization-Condition Assessment rated the UV process the 4th highest risk prior to UV limited capacity being

ID'd

UV System Upgrade UV System Upgrade Engineering

Funding Sources:

		Previous	2020/2021	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	Total
Р	Private	\$0	\$0	\$25,000	\$0	\$0	\$0	\$0	\$25,000
S	Sewer Fund	\$0	\$0	\$25,000	\$0	\$0	\$0	\$0	\$25,000

Project Total:

\$50,000

\$50,000

\$0

COST DETAIL:

\$0 Study: \$0 Land Acquisition / ROW:

\$50.000 Engineering / Design:

\$0 Construction:

Annual Maint. Cost:

Project Difference:

Cost Total:

Maint. Year Start:

Service Impact:

This project will increase capacity of the UV system, and upgrade obsolete technology currently in place. Upgrade is manadated by the state regulators to be complete by July 1, 2026.

Project Justification:

This project was manadated through a consent order issued by the state of Michigan, because the UV system is not properly sized to meet peak flow demands. This under capacity has/could result in portions of the plant effluent not being disinfected. It is a permit requirement that 100% of the effluent be disinfected 100% of the time.

Location Description:



WW-20-CIP Wastewater

764-20-CIP Window Replacement 503 Hannah Ave.

Project Information

Submitted By: Justin Roy Category: Visionary

Justin Roy Department:

Department of Municipal Utilitie

Replace original single pane windows and doors with new energy

efficient windows and doors.

Fund Group: Waste Water

Department Head: Staff Priority:

ad: Art Krueger
Essential (Should Do)

Fund Detail: Sewer P

Sewer Plant and Buildings

Council Priority:

Window Replacement 503 Hannah Ave. - Cost

Funding Sources:

S

WAT

	Previous	2020/2021	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	Total
Sewer Fund	\$0	\$30,000	\$0	\$0	\$0	\$0	\$0	\$30,000
Water Fund	\$0	\$30,000	\$0	\$0	\$0	\$0	\$0	\$30,000

Project Total: \$60,000

COST DETAIL:

Study: \$0

Land Acquisition / ROW: \$0

Engineering / Design: \$0

Construction: \$60,000 **Cost Total:** \$60,000

Annual Maint. Cost: Project Difference: \$0

Maint. Year Start:

Service Impact:

Increase energy efficiency and reduce heating costs.

Project Justification:

Windows need to be replaced - good stewardship.

Location Description:

Water / Sewer Maintenance Building at 507 Hannah.



WW-20-CIP Wastewater

1058-20-CIP WW Gravity Main Rehab\Repair and PACP Inspections

Project Information

Submitted By: Art Krueger
Category: Maintenance

Art Krueger Department:

Maintenance Department Head:

Department of Municipal Utilitie

Rehabilitate and Repair Wastewater Gravity Mains that were recommended in the 2015 SAW Grant Asset Management Plan. Also, continue to clean and perform PACP inspections for the entire system

Fund Group: Waste Water

Staff Priority: Council Priority: Essential (Should Do)

Art Krueger

within a seven year cycle.

PACP Sanitary Sewer PACP Sanitary Sewer Video Inspections

Sewer Fund

Sewer Collection System

Funding Sources:

Fund Detail:

S

2020/2021 2021/2022 2022/2023 2023/2024 2024/2025 2025/2026 **Previous** Total \$0 \$0 \$0 \$385,000 \$385.000 \$385.000 \$385,000 \$1.540.000

Project Total: \$1,540,000

Cost Total:

\$1.540.000

\$0

COST DETAIL:

Study: \$0
Land Acquisition / ROW: \$0
Engineering / Design: \$0

Construction: \$1,540,000

Annual Maint. Cost: Project Difference:

Maint. Year Start:

Service Impact:

Repairs to gravity sewer mains will increase reliability and reduce sewer back ups and City's liability to customers property damage claims.

Project Justification:

Repair portions of gravity sewer mains already noted as needing repair in the 2015 SAW Grant and continue to clean, televise and inspect remaining portion (+/-50%) of the City's collection system that was not evaluated during the SAW Grant.

Location Description:

City wide.



WW-20-CIP Wastewater

1057-20-CIP WW Manholes Rehab\Repair and MACP Inspections

Project Information

Art Krueger Submitted By: Category:

Maintenance

Waste Water Fund Group:

Fund Detail:

Sewer Fund

Sewer Collection System

Department of Municipal Utilitie Department:

Art Krueger **Department Head:**

Essential (Should Do)

Rehabilitate and Repair Wastewater Manholes that were

recommended in the 2015 SAW Grant Asset Management Plan. Also, continue to MACP inspect on all remaining Wastewater Manholes that

were not inspected during the 2015 SAW Grant Project.

MACP Manhole Inspections

Funding Sources:

S

2020/2021 **Previous**

\$0

Staff Priority:

Council Priority:

\$0

2021/2022 \$0

2022/2023 \$50.000

2023/2024 \$50.000

2024/2025 \$50.000

2025/2026 \$50.000

\$200.000

Total

\$200,000 Project Total:

COST DETAIL:

\$0 Study:

\$0 Land Acquisition / ROW: \$0 Engineering / Design:

\$200,000 Construction:

Annual Maint. Cost:

Project Difference:

Cost Total:

\$200,000

\$0

Maint. Year Start:

Service Impact:

Repair manhole structure covers before they fail (sink down) which negatively impacts our streets and increases maintenance cost.

Project Justification:

Recommended in the 2015 SAW Grant Project.

Location Description:

City-wide.



WW-20-CIP Wastewater

904-20-CIP WW-Primary Clarification Upgrade

Project Information

Elizabeth Hart Submitted By: Category:

Capital

Waste Water

Fund Group:

Sewer Plant and Buildings Fund Detail:

Department:

Department Head:

Staff Priority:

Council Priority:

Department of Municipal Utilitie

Art Krueger

Imperitive (Must Do)

WW-Primary Clarification Upgrade per HRC Engineering Study Performed 2019-2020-This project is prioritized inaccordance with the Asset Management Plan for the Facility and Lift Stations -Condition Assement Rated Primary Treatment as 2nd highest risk prior to primary

header failing and after digester 3 being taken out of service-Cost to be

Project Total:

Cost Total:

Project Difference:

\$3,000,000

\$3,000,000

\$0

updated after completion of 2019-2020 evaluation

Primary Clarification | Primary Clarification Upgrade

Funding Sources:

		Previous	2020/2021	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	Total
Р	Private	\$0	\$0	\$0	\$1,500,000	\$0	\$0	\$0	\$1,500,000
S	Sewer Fund	\$0	\$0	\$0	\$1,500,000	\$0	\$ 0	\$0	\$1,500,000

COST DETAIL:

\$0 Study:

\$0 Land Acquisition / ROW: \$0 Engineering / Design:

\$3,000,000 Construction:

Annual Maint, Cost:

Maint. Year Start:

Service Impact:

This project will upgrade the primary treatment process by way of reconditioning and/or replacement equipment and structures.

Project Justification:

Primary treatment is an essential process in treating wastewater. If not operating effectively, it can compromise treatment and lead to additional costs.

Location Description:

Page: 216



Six Year Capital Improvement Plan Budget Year 2020-2021 by Program Name

All Projects Submitted for 2020-2021

	projects occurring in the first FY of the plan. pjects with multiple funding									Over	rall Programming	Cost
+ - indicates pro	ojecis with multiple funding			Fiscal Year								
Project ID		Cat	Previous	2020-2021	2021-2022	2022-2023	2023-2024	2024-2025	2025-2026	Project Cost	City Funds	Non-City Funds
Water												
367-20-CIP	Annual Water Rehab/Replace	V	\$0	\$450,000	\$450,000	\$450,000	\$450,000	\$450,000	\$450,000	\$2,700,000	\$2,700,000	\$0
933-20-CIP	Chemical System Upgrades-Ferric, Chlorine&Fluoride	V	\$0	\$250,000	\$0	\$0	\$0	\$0	\$0	\$250,000	\$250,000	\$0
935-20-CIP	East - West Transmission Main Upgrade	С	\$2,273,000	\$1,024,000	\$0	\$1,280,000	\$1,180,000	\$1,470,000	\$1,250,000	\$8,477,000	\$8,477,000	\$0
1053-20-CIP	East Front Street 16" Watermain	С	\$0	\$0	\$0	\$0	\$420,000	\$0	\$0	\$420,000	\$420,000	\$0
930-20-CIP	Electrical Gear Upgrades at WTP & Low Service	V	\$0	\$0	\$850,000	\$0	\$0	\$0	\$0	\$850,000	\$850,000	\$0
932-20-CIP	Hannah Ave Water Main Upgrade	V	\$0	\$0	\$0	\$0	\$0	\$0	\$360,000	\$360,000	\$360,000	\$0
770-20-CIP	High & Low Service Pump Repairs	С	\$320,000	\$80,000	\$80,000	\$0	\$0	\$0	\$0	\$480,000	\$480,000	\$0
1028-20-CIP	Lagoon Maintenance	М	\$60,000	\$0	\$60,000	\$0	\$60,000	\$0	\$0	\$180,000	\$180,000	\$0
1186-20-CIP	Low Service Pump Station - Standby Generator	С	\$0	\$0	\$0	\$100,000	\$0	\$0	\$0	\$100,000	\$100,000	\$0
+ 1027-20-CIP	Park Place Area Infrastructure Improvements	С	\$0	\$0	\$1,225,000	\$0	\$0	\$0	\$0	\$1,225,000	\$1,225,000	\$0
1086-20-CIP	Phase 2 Security Barrier @ Water Treatment Plant	С	\$0	\$100,000	\$0	\$0	\$0	\$0	\$0	\$100,000	\$100,000	\$0
121-20-CIP	Plant - Freight Elevator Compliance	V	\$0	\$0	\$0	\$100,000	\$0	\$0	\$0	\$100,000	\$100,000	\$0
1092-20-CIP	Remove and Replace Galvanized Water Services	М	\$0	\$0	\$500,000	\$500,000	\$500,000	\$500,000	\$500,000	\$2,500,000	\$2,500,000	\$0
1181-20-CIP	Replace 16" Water Main Valves along Wash& Front St	M	\$0	\$100,000	\$0	\$0	\$0	\$0	\$0	\$100,000	\$100,000	\$0
1054-20-CIP	Union St. 12" Watermain	С	\$100,000	\$185,000	\$0	\$0	\$0	\$0	\$0	\$285,000	\$285,000	\$0
1016-20-CIP	Veterans Drive Water Main Replacement Project.	С	\$0	\$0	\$0	\$0	\$0	\$0	\$450,000	\$450,000	\$450,000	\$0
1049-20-CIP	Wayne Hill Fire Pump	С	\$0	\$100,000	\$0	\$0	\$0	\$0	\$0	\$100,000	\$100,000	\$0
1183-20-CIP	WTP Backwash & Surface Wash Pumps	М	\$0	\$0	\$0	\$150,000	\$0	\$0	\$0	\$150,000	\$150,000	\$0
1182-20-CIP	WTP High Service - Cone Valve Replacement	М	\$0	\$0	\$0	\$100,000	\$0	\$0	\$0	\$100,000	\$100,000	\$0
1017-20-CIP	WTP Standby Generator Replacement Project	М	\$0	\$0	\$0	\$0	\$0	\$300,000	\$0	\$300,000	\$300,000	\$0
1065-20-CIP	WTP Sump Pump Discharge Flow Meter	С	\$0	\$20,000	\$0	\$0	\$0	\$0	\$0	\$20,000	\$20,000	\$0
1047-20-CIP	WTP Turbidimeters Replacement	М	\$0	\$0	\$0	\$15,000	\$10,000	\$0	\$0	\$25,000	\$25,000	\$0
1045-20-CIP	WTP Water Quality In-Line Instrumentation	С	\$0	\$25,000	\$0	\$0	\$0	\$0	\$0	\$25,000	\$25,000	\$0

Date/Time Printed: 1/30/2020 3:26 pm

Six Year Capital Improvement Plan

Budget Year 2020-2021 by Program Name

All Projects Submitted for 2020-2021

Bold - Indicates projects occurring in the first FY of the plan . + - Indicates projects with multiple funding									<u>Ove</u>	erall Programming	Cost
Project ID	Cat	Previous	Fiscal Year 2020-2021	Fiscal Year 2021-2022	Fiscal Year 2022-2023	Fiscal Year 2023-2024	Fiscal Year 2024-2025	Fiscal Year 2025-2026	Project Cost	City Funds	Non-City Funds
Water											
1184-20-CIP WTP Windows Replacement Project	М	\$0	\$0	\$0	\$0	\$0	\$0	\$90,000	\$90,000	\$90,000	\$0
Total Water			\$2,334,000	\$3,165,000	\$2,695,000	\$2,620,000	\$2,720,000	\$3,100,000	\$19,797,000	\$19,797,000	\$0



WATER-20-CIP

Water

1084-20-CIP

Category:

WAT

Abandon 12" Water Main Under River at Pine & Front

Project Information

Submitted By: Art Krueger

Maintenance

Fund Group: Water

Fund Detail: Water Distribution System

Water Fund

Department:

Department Head:

Staff Priority: Council Priority:

rity: Imperitive (Must Do)

Department of Municipal Utilitie Thi

Bridge

This project will be completed after Project 535-19-CIP West Front St Bridge Replacement is complete. The bridge project includes a new 12" water main along Front St between Pine and Hall St. This will

improve hydraulics to the service areas west and south of Hall St.

Abandon 12" Water N Abandon 12" Water Main Under River at Pine & Front

Funding Sources:

Previous \$10,000 **2020/2021** \$0 2021/2022

Art Krueger

2022/2023 \$0 2023/2024

\$0

2024/2025

\$0

2025/2026

\$0

Total \$10,000

Project Total: \$10,000

COST DETAIL:

\$0

Study: \$0

Land Acquisition / ROW: \$0 Engineering / Design: \$0

Construction: \$10,000

Annual Maint. Cost:

ψ10,000

D 1 4 DICC

\$10,000

Project Difference:

Cost Total:

¢0

Maint. Year Start:

Service Impact:

Improve water system hydraulics to west side and decrease water loss.

Project Justification:

Abandoning this segment of water main after constructing a new water main with the West Front St Bridge project is more cost effective and beneficial than repairing it.

Location Description:

North of Pine and Front St under Boardman River



WATER-20-CIP Water

367-20-CIP Annual Water Rehab/Replace

Project Information

Category:

WAT

Fund Group:

Submitted By: Justin Roy

Visionary

Water

Water Fund

Fund Detail: Water Distribution System

Department:
Department Head:

Council Priority:

\$450.000

Art Krueger

Staff Priority: Essential (Should Do)

Provide \$450,000 annually in the water fund to continue systematic

improvements (repair and replacement) of the underground infrastructure. The Public Improvement Plan will also contain more

detailed descriptions of proposed near-term projects.

Annual Water Rehab/ Annual Water Rehab/Replace - Cost

Funding Sources:

Previous 2020/2021

\$0

2021/2022

\$450.000

2022/2023 \$450.000

\$0

2023/2024 \$450.000 **2024/2025** \$450.000 **2025/2026** \$450.000

Cost Total:

Project Difference:

\$2.700.000

\$2,700,000

\$0

Total

Project Total: \$2,700,000

COST DETAIL:

Study:

Land Acquisition / ROW: \$0 Engineering / Design: \$0

Construction: \$2,700,000

Department of Municipal Utilitie

Annual Maint. Cost:

Maint. Year Start:

Service Impact:

Replacing old water mains will reduce emergency repairs and long-term maintenance costs.

Project Justification:

2014 Water System Reliability Study recommends replacing aging water mains where more frequent breaks are known to occur. This cost will be applied to the water main portion of an annual full street reconstruction project.

Location Description:

City wide.



WATER-20-CIP

Water

933-20-CIP Chemical System Upgrades-Ferric, Chlorine&Fluoride

Project Information

Art Krueger Submitted By: Category:

Visionary

Water Fund

Water Fund Group:

Water Treatment Fund Detail:

Department:

Staff Priority:

Council Priority:

Department of Municipal Utilitie

Art Krueger **Department Head:**

Essential (Should Do)

Of these three (3) chemical systems, the Fluoride and Ferric chemical systems have already been completely upgraded as of 2017. The Chlorine system's chemical feed portion was also upgraded in 2012, so the two (2) 8,000 gal. chlorine bulk storage tanks (installed 1994) are the only remaining items needing to be upgraded since they are

reaching the end of their useful life.

Chemical System Up Chemical System Upgrades (Alum, Chlorine & - Cost

Funding Sources:

WAT

Previous

\$0

2020/2021 \$250,000

2021/2022

2022/2023

\$0

2023/2024

\$0

2024/2025 \$0

2025/2026

\$0

Total \$250,000

\$250,000

Project Total:

COST DETAIL:

\$0

Study:

\$0 Land Acquisition / ROW:

Engineering / Design:

\$10,000

\$0

\$240,000 Construction:

Annual Maint, Cost:

Cost Total:

\$250,000

Project Difference:

\$0

Maint. Year Start:

Service Impact:

Restore reliability of Chlorine bulk storage. One tank currently is leaking, leaving only one aging tank available for storage. Chlorine is critical for disinfection in the water treatment process.

Project Justification:

Project recommended in the 2014 Water System Reliability Study.

Location Description:



WATER-20-CIP

Category:

Water

935-20-CIP East - West Transmission Main Upgrade

Project Information

Submitted By: Art Krueger

Capital

Fund Group: Water

vvalei

Fund Detail: Water System Reliability Projec

Department:

Department Head:

Staff Priority:

Council Priority:

Department of Municipal Utilitie

Art Krueger

Essential (Should Do)

Projects recommended in the 2014 Water System Reliability Study Table 23, Projects P-3 and P-9. Costs/phases updated in 2017 by Wade Trim & DMU 2019. Replace aged smaller diameter mains with new 12,135 lineal feet (LF) of 24-inch main and 3,125 LF of new 16-inch

main.

FY18-19: Phase 3A: 24" main - Lake Ave from 8th to Cass (Completed) FY19-20: Phase 2: 24" main - 8th from Boardman Ave to Railroad Ave. &

16" main - Franklin, 8th to Wash. (Completed)

FY20-21: Phase 1: 20" & 24" main with 8th St Bridge Project (Water main cost included in Project 58-20-CIP); Phase 3B: 24" main - Lake Ave from Cass to Union & Phase 4: 24" main; 7th from Union to

Wadsworth

FY21-22: Park Place Area Infrastructure Improvements - Project

1027-20-CIP

FY22-23: Phase 5B: 24" main - Railroad Ave from 8th to Webster &

Webster from Railroad Ave to Rose St.

FY23-24: Phase 5A: 24" main - Garfield from Washington to Webster &

Webster to Rose St.

FY24-25: Phase 6: 24" main - 7th from Wadsworth to Spruce FY25-26: Phase 7: 16" main - Spruce from 7th to Wayne St.

East - West Transmis East - West Transmission Main Upgrade - Cost

Funding Sources:

WAT

2020/2021 2021/2022 2022/2023 2023/2024 2024/2025 2025/2026 **Previous** Total Water Fund \$2,273,000 \$0 \$1.280.000 \$1,470,000 \$1.250.000 \$8,477,000 \$1.024.000 \$1.180.000

Project Total:

t Total: \$8,477,000

\$0

COST DETAIL:

Study: \$0
Land Acquisition / ROW: \$0

Engineering / Design: \$1,874,265

Construction: \$6,602,735 **Cost Total:** \$8,477,000

Annual Maint. Cost: Project Difference:

Maint. Year Start:

Service Impact:

Increase transmission capacity to west side of City and provide redundancy to the aging 16" water main along Front St. and Wayne St. to the Wayne Hill reservoir.

Project Justification:



WATER-20-CIP

<u>Water</u>

Projects recommended in the 2014 Water System Reliability Study based upon water model.

Location Description:

Various locations as noted in project description.



WATER-20-CIP

Water

1053-20-CIP East Front Street 16" Watermain

Project Information

Art Krueger Submitted By: Capital

Department:

Department of Municipal Utilitie

Replace approx. 1230 lineal feet of existing 16" pit cast main from the

Department Head:

Art Krueger

early 1900's in E. Front Street between Railroad and Boardman Avenues.

Essential (Should Do)

\$0

\$0

Fund Group:

Category:

WAT

Water

Staff Priority:

Water Distribution System Fund Detail:

Water Fund

Council Priority:

East Front Street 16" East Front Street 16" Watermain

Funding Sources:

2020/2021 **Previous** \$0 \$0 \$0

2021/2022 2022/2023

\$0

2023/2024 \$420,000

2024/2025

\$0

2025/2026

\$420.000

Total

\$420,000

Project Total:

COST DETAIL:

Study:

\$0 Land Acquisition / ROW:

Engineering / Design:

\$420,000 Construction:

Annual Maint. Cost:

\$0

\$420,000

Project Difference:

Cost Total:

\$0

Maint. Year Start:

Service Impact:

Increase reliability of a significant portion of aging 16" water main and will decrease overall maintenance costs by reducing emergency repairs on E Front St.

Project Justification:

2014 Water System Reliability Study references concerns for this segment of water main due to it's age.

Location Description:

E. Front Street between Railroad and Boardman Avenues.



WATER-20-CIP **Water** 930-20-CIP **Electrical Gear Upgrades at WTP & Low Service Project Information** Art Krueger Submitted By: Department of Municipal Utilitie Project recommended in the 2014 Water System Reliability Study Table Department: 23, Project P-5. Visionary Category: Art Krueger **Department Head:** Update original (1965 and 1972) electrical equipment for both High Water Essential (Should Do) Fund Group: Staff Priority: Service and Low Service pumps. Project will also increase electric Water System Reliability Projec Fund Detail: **Council Priority:** efficiency and reliability. Electrical Gear Upgra Electrical Gear Upgrades at WTP & Low Serv - Cost **Funding Sources:** 2020/2021 2021/2022 2022/2023 2023/2024 2024/2025 2025/2026 **Previous** Total WAT Water Fund \$0 \$0 \$850.000 \$0 \$0 \$0 \$0 \$850.000 \$850,000 Project Total: **COST DETAIL:** \$0 Study: \$0 Land Acquisition / ROW: \$0 Engineering / Design: \$850,000 Construction: \$850,000 Cost Total: **Annual Maint. Cost: Project Difference:** \$0 Maint. Year Start: Service Impact:

Project Justification:

Location Description:



WATER-20-CIP

Water

934-20-CIP Filters 1, 2 & 3 Valve Replacement

Project Information

Submitted By: Art Krueger

Department:
Department Head:

Department of Municipal Utilitie

Replace 8 of 9 valves per filter; 24 valves total in the three oldest filters that were originally built in 1965 (Filters 1 & 2) and 1972 (Filter 3).

Category: Visionary
Fund Group: Water

Staff Priority:

Council Priority:

\$0

2020/2021

Essential (Should Do)

These valves are at the end of their useful life. The main effluent control valve in these three filters was replaced with the SCADA Project ID#103

in 2015-2016.

\$0

Filters 1, 2 & 3 Valve Filters 1, 2 & 3 Valve Replacement - Cost

Water Treatment

Water Fund

Funding Sources:

Fund Detail:

WAT

Previous

\$400.000

2021/2022

Art Krueger

2022/2023

\$0

2023/2024

2024/2025

\$0

2025/2026

\$400,000 \$400,000

\$400.000

\$0

Total

COST DETAIL:

\$0

Study:

\$0

Land Acquisition / ROW: \$0

Engineering / Design: \$25,000

Construction: \$375,000

Annual Maint. Cost:

Project Difference:

Cost Total:

\$0

Project Total:

Maint. Year Start:

Service Impact:

Restore reliability in 3 of the 5 filters at the WTP. Valves are critical to filter operations and must be in operable condition at all times. Will decrease long term maintenance costs.

Project Justification:

Project recommended in the 2014 Water System Reliability Study.

Location Description:



WATER-20-CIP

Water

932-20-CIP Hannah Ave Water Main Upgrade

Project Information

Art Krueger Submitted By: Visionary

Department: **Department Head:** Department of Municipal Utilitie

Replace 1,900 lineal feet of aging 6-inch main on Hannah Ave. with

12-inch main from Bates Street to S. Garfield Ave.

Category: Water Fund Group:

Staff Priority:

\$0

Essential (Should Do)

Fund Detail:

WAT

Water Distribution System **Council Priority:**

Hannah Ave Water M Hannah Ave Water Main Upgrade - Cost

Water Fund

Funding Sources:

2020/2021 Previous

\$0

2021/2022

Art Krueger

2022/2023

\$0

2023/2024

\$0

2024/2025

\$0

2025/2026 \$360,000

Total \$360,000

\$360,000 Project Total:

COST DETAIL:

\$0

Study:

\$0

\$0 Land Acquisition / ROW: \$0 Engineering / Design:

Construction: \$360,000

Cost Total:

\$360,000

\$0

Annual Maint. Cost:

Project Difference:

Maint. Year Start:

Service Impact:

Increase system reliability and flows to immediate service area.

Project Justification:

Project recommended in the 2014 Water System Reliability Study

Location Description:

Hannah Ave. from Bates Street to S. Garfield Ave.



WATER-20-CIP Water

770-20-CIP **High & Low Service Pump Repairs**

Project Information

Art Krueger Submitted By: Category:

Capital

Water

Water Fund

Fund Group:

Water System Reliability Projec Fund Detail:

Department:

Department Head:

Staff Priority: **Council Priority:** Department of Municipal Utilitie

Art Krueger

Imperitive (Must Do)

4 High Service and 3 Low Service pumps and motors need to be pulled and rebuilt by a pump service company. The motor windings need to be replaced so that a variable frequency drive (VFD) can be installed on the pumps. VFD's allow significant energy savings and assist in overall

WTP operations.

High & Low Service F High & Low Service Pump Repairs - Cost

Funding Sources:

WAT

Previous \$320,000

2020/2021 \$80.000

2021/2022

\$80.000

2022/2023 \$0

2023/2024 \$0

2024/2025 \$0

2025/2026 \$0

\$480.000

\$480,000

Total

Project Total:

COST DETAIL:

Study:

\$0 \$0

Land Acquisition / ROW:

\$0 Engineering / Design:

\$480,000 Construction:

Annual Maint. Cost:

Cost Total:

\$480,000

Project Difference:

\$0

Maint. Year Start:

Service Impact:

Increase pump reliability, reduce energy consumption and reduce overall maintenance / emergency costs.

Project Justification:

Pumps are critical to WTP operations and need to be service regularly.

Location Description:



WATER-20-CIP

Category:

WAT

Water

1028-20-CIP **Lagoon Maintenance**

Project Information

Art Krueger Submitted By:

Maintenance

Water Fund Group:

Water Treatment Fund Detail:

Department:

Staff Priority:

Council Priority:

\$0

Department Head:

Department of Municipal Utilitie

Art Krueger

Imperitive (Must Do)

There are 2 washwater lagoons behind the water treatment plant facility and the sludge from the filter backwashing process must be removed

and hauled to the landfill.

Lagoon Maintenance Lagoon Maintenance- Cost

Water Fund

Funding Sources:

Previous

\$60,000

2020/2021 2021/2022

2022/2023

\$0

2023/2024 \$60,000

2024/2025 \$0

2025/2026 \$0

Project Total:

\$180,000 \$180,000

\$180,000

\$0

Total

COST DETAIL:

\$60,000

\$0 Study: \$0 Land Acquisition / ROW:

\$0 Engineering / Design:

\$180,000 Construction:

Annual Maint. Cost: Maint. Year Start:

Project Difference:

Cost Total:

Service Impact:

Backwashing filters is critical to water treatment. Solids must be settled out of filter backwash water before releasing the clean water back to East Bay as allowed in the NPDES permit.

Project Justification:

Required by suspended solids limits set in NPDES permit.

Location Description:



WATER-20-CIP

Category:

Water

1186-20-CIP Low Service Pump Station - Standby Generator

Project Information

Art Krueger Submitted By:

Capital

Water Fund

Water **Fund Group:**

Water Treatment Fund Detail:

Department:

Council Priority:

Department of Municipal Utilitie

Art Krueger **Department Head:**

Staff Priority:

Essential (Should Do)

Currently, the standby generator at the Water Treatment Plant (WTP) is used to provide back up power to both the Low Service Pump Station and the WTP. This divides the available back up power between the two locations and limits the overall capacity that the plant can produce when running on generator power. Therefore, if a separate generator was installed at the Low Service Pump Station to serve that facility, the main plant generator could be dedicated to serve the WTP, thereby increasing capacity during a potential extended power outage.

Low Service Pump Station - Standby Generator

Funding Sources:

WAT

2020/2021 Previous \$0 \$0

2021/2022 \$0

2022/2023 \$100,000

2023/2024 \$0

2024/2025 \$0

2025/2026 \$0

Total \$100.000

\$100,000

Project Total:

COST DETAIL:

\$0 Study: \$0 Land Acquisition / ROW:

\$0 Engineering / Design:

\$100,000 Construction:

Annual Maint, Cost:

Cost Total:

\$100,000

Project Difference:

\$0

Maint. Year Start:

Service Impact:

Project would boost resiliency and reliability of the WTP increasing capacity when operating under back up power, which occurrs at times.

Project Justification:

Need to increase WTP's available capacity when running under standby generator power, especially if during high demand summer months.

Location Description:

Low Service Pump Station



Engineering

Tim Lodge

WATER-20-CIP

<u>Water</u>

1027-20-CIP Park Place Area Infrastructure Improvements

Project Information

Missy Luick Submitted By: Category:

Capital

Water

Fund Group: Fund Detail:

Water System Reliability Projec

Department:

Department Head:

Staff Priority:

Council Priority:

The Park Place Brownfield Plan identifies water main and storm sewer water quality improvements. Watermain- An upgraded 12" watermain will be installed from Boardman to Cass and will go down a portion of

State Street and Washington Streets. Storm Sewer Water Quality- This improvement will include a combination of infiltration and filtration to improve water quality for a significant portion of the downtown area.

Both projects will be reimbursed using Brownfield funds.

Park Place Area Infra Park Place Area Infrastructure Improvements- Cost

Funding Sources:

BR S WAT

	Previous	2020/2021	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	Total
Brownfield	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Sewer Fund	\$0	\$0	\$250,000	\$0	\$0	\$0	\$0	\$250,000
Water Fund	\$0	\$0	\$975,000	\$0	\$0	\$0	\$0	\$975,000

Project Total: \$1,225,000

Cost Total:

Project Difference:

\$1,225,000

\$0

COST DETAIL:

Study:

\$0 \$0

Land Acquisition / ROW:

\$0 Engineering / Design:

Construction: \$1.225.000

Annual Maint, Cost:

Maint. Year Start:

Service Impact:

The improvement will upgrade the city's water distribution system to current standards for fire protection and will implement best practices for storm water management. there could be an increase in maintenance costs

Project Justification:

Park Place Brownfield Plan, Water Reliability Study, Improve Water Quality.

Location Description:

Park Place vicinity



WATER-20-CIP

Category:

WAT

Water

Phase 2 Security Barrier @ Water Treatment Plant 1086-20-CIP

Project Information

Art Krueger Submitted By:

Department:

Department of Municipal Utilitie

Imperitive (Must Do)

Art Krueger

This project adds Phase 2 to the completed security gate project to increase the level of security by installing a physical vehicular barrier

along Eastern Ave.

Fund Group:

Capital Water

Water Fund

Staff Priority:

Department Head:

\$100,000

Council Priority:

Water Treatment Fund Detail:

Phase 2 Security Bar Phase 2 Security Barrier @ Water Treatment Plant

Funding Sources:

2020/2021 **Previous**

\$0

2021/2022

2022/2023

\$0

2023/2024

\$0

2024/2025

\$0

2025/2026

\$0

Total \$100,000

Project Total:

\$100,000

COST DETAIL:

\$0

Study:

\$0

Land Acquisition / ROW:

Engineering / Design:

\$0 \$0

Construction: \$100,000

Cost Total:

Project Difference:

\$100,000

\$0

Annual Maint. Cost:

Maint. Year Start:

Service Impact:

Increase security level at Water Treatment Plant

Project Justification:

Homeland Security Recommendations

Location Description:

2010 Eastern Ave



WATER-20-CIP

Water

121-20-CIP **Plant - Freight Elevator Compliance**

Project Information

Art Krueger Submitted By: Visionary Category:

Department:

Department of Municipal Utilitie

Replacement of elevator's original steel single wall casing hydraulic

cylinder (1965) with double wall casing cylinder.

Art Krueger **Department Head:**

Fund Group:

Water

Water Fund

Staff Priority:

Essential (Should Do)

Water Treatment Fund Detail: **Council Priority:**

Plant - Freight Elevat Plant - Freight Elevator Compliance - Cost

Funding Sources:

WAT

Previous

\$0

2020/2021

\$0

2021/2022

2022/2023

\$100.000

2023/2024 \$0

2024/2025 \$0

2025/2026 \$0

Total \$100,000

\$100,000 Project Total:

COST DETAIL:

\$0

Study:

\$0 \$0

Land Acquisition / ROW:

\$0 Engineering / Design:

\$100,000 Construction:

Annual Maint. Cost: Maint. Year Start:

Project Difference:

Cost Total:

\$100,000

\$0

Service Impact:

Project would protect ground water from contamination if the single wall cylinder were to fail and leak hydraulic fluid which would be an environmental liability for the City.

Project Justification:

Elevator inspections have not revealed any issues but due to the age of the elevator, the single wall hydraulic cylinder should be replaced to provide secondary containment.

Location Description:



WATER-20-CIP

<u>Water</u>

1092-20-CIP Remove and Replace Galvanized Water Services

Project Information

Category:

Submitted By: Art Krueger

Maintenance

Fund Group: Water

Fund Detail: Water Distribution System

Water Fund

Department:

Department Head:

Staff Priority:

Council Priority:

Department of Municipal Utilitie

Art Krueger

Essential (Should Do)

Michigan's new Lead and Copper Rule (LCR passed June 2018) requires that water utilities must pay for replacement of up to 5% per year of privately owned galvanized water services from the curb stop to inside the building if the service "is" or "was" connected to a lead pipe

(gooseneck). An updated estimate based upon the AMI meter project is that 25% of all private City water services may be galvanized, which is approximately 1,850 services. 5% per year is 90 to 100 services at cost of \$5,000 each or \$500,000 per year for 20 years with the first year

planned to begin in FY2021.

Remove and Replace Remove and Replace Galvanized Water Services

Funding Sources:

WAT

 Previous
 2020/2021
 2021/2022
 2022/2023
 2023/2024
 2024/2025

 \$0
 \$0
 \$500,000
 \$500,000
 \$500,000
 \$500,000

Project Total: \$2,500,000

Total

\$2.500.000

\$2,500,000

2025/2026

\$500.000

Cost Total:

COST DETAIL:

Study: \$0

Land Acquisition / ROW: \$0 Engineering / Design: \$0

Construction: \$2,500,000

ψ2,000,000

Annual Maint. Cost: Project Difference: \$0

Maint. Year Start:

Service Impact:

Minimal service impact since private water services are maintained by owner. Overall, could reduce long term water loss (leaks) due to old galvanized services being replaced with new copper over a 20 year period.

Project Justification:

Required by State law.

Location Description:

City-wide



WATER-20-CIP

Fund Group:

WAT

Water

1181-20-CIP Replace 16" Water Main Valves along Wash& Front St

Project Information

Art Krueger Submitted By: Category:

Maintenance

Water

\$0

Water Distribution System Fund Detail:

Water Fund

Department Head:

Council Priority:

Department:

Staff Priority:

\$100.000

Department of Municipal Utilitie

Art Krueger

Essential (Should Do)

The older segment of 16" Water Main on Washington, Franklin and Front St. has several inoperable valves that need replacing to restore reliability in order to isolate smaller service areas in a water main break emergency. This work may also require installing line stops to allow

existing valves to be excavated, removed and replaced.

Funding Sources:

2020/2021 **Previous**

2021/2022

2022/2023 \$0

2023/2024 \$0

2024/2025 \$0

2025/2026 \$0

Total \$100.000

\$100,000

Project Total:

COST DETAIL:

\$0

\$0 Study: \$0 Land Acquisition / ROW:

\$0 Engineering / Design:

\$100,000 Construction:

Annual Maint, Cost:

Maint. Year Start:

\$100,000

Cost Total:

\$0 **Project Difference:**

Service Impact:

Project will help to minimize property damage and limit area of disrupted water service in the event of a water main break emergency.

Project Justification:

Need to improve water system reliability through main downtown commercial corridor (Front St & Washington St).

Location Description:

Washington St from Hope St west to Franklin; Franklin north to E. Front St; E. Front St west to Union St.



WATER-20-CIP

Category:

WAT

Water

1054-20-CIP Union St. 12" Watermain

Project Information

Art Krueger Submitted By:

Capital

Water Fund Group:

Water Distribution System Fund Detail:

Department of Municipal Utilitie Department:

Department Head:

Council Priority:

\$185,000

Staff Priority:

Imperitive (Must Do)

Art Krueger

Install approx. 300 lineal feet of 12" main under Boardman River near Union Street bridge from south side of river to alley north of river to replace existing 12" main across the Union Street Dam. This project will be included in the 2020 Fish Pass (Union St. Dam) Project.

Union St. 12" Waterm Union St. 12" Watermain

Water Fund

Funding Sources:

2020/2021 **Previous**

\$100,000

2021/2022 \$0

COST DETAIL:

2022/2023

\$0

2023/2024 \$0

2024/2025 \$0

2025/2026 \$0

\$285.000 \$285,000

Total

Project Total:

\$0 Study:

\$0 Land Acquisition / ROW: \$0 Engineering / Design:

\$285,000 Construction:

Annual Maint. Cost:

Maint. Year Start:

Cost Total:

\$285,000

Project Difference:

\$0

Service Impact:

Replacement will reduce overall maintenance costs and increase reliability since it will be directionally drilled under the river vs. currently laying across the dam exposed to the elements, i.e. no bury on pipe.

Project Justification:

Needs to be replaced due to removal of existing 12" water main over Union St. dam with the 2020 Fish Pass project.

Location Description:

Between existing Union St. dam and Union Street bridge.



WATER-20-CIP

Water

1016-20-CIP Veterans Drive Water Main Replacement Project.

Project Information

Submitted By: Capital

Justin Roy

Department:

Department of Municipal Utilitie

Replace 6" and 8" diameter water main with 12" between 14th Street

and Georgetown Place.

Fund Group:

Water

Water Fund

Department Head: Staff Priority:

\$0

Essential (Should Do)

Fund Detail:

Category:

WAT

Water Distribution System **Council Priority:**

\$0

Veterans Drive Water Veterans Drive Water Main Replacement Project.

Funding Sources:

Previous 2020/2021 2021/2022

Art Krueger

2022/2023 \$0

2023/2024

\$0

2024/2025

\$0

2025/2026

\$450,000

Project Total:

Total \$450.000

\$450,000

COST DETAIL:

\$0

Study:

\$0

Land Acquisition / ROW:

Engineering / Design:

\$0

\$0

\$450,000

Cost Total:

\$450,000

\$0

Annual Maint. Cost:

Project Difference:

Maint. Year Start:

Construction:

Service Impact:

Decrease overall maintenance costs and improve water supply / fire flows in this area.

Project Justification:

Project recommended in 2014 Water System Reliability Study.

Location Description:

Veterans Drive between 14th St. and Georgetown Place.



WATER-20-CIP

Category:

WAT

Water

1049-20-CIP

Wayne Hill Fire Pump

Project Information

Art Krueger Submitted By:

Capital

Water Fund Group:

Water Distribution System Fund Detail:

Department:

Staff Priority:

Department Head:

Council Priority:

\$100,000

Department of Municipal Utilitie

Art Krueger

Imperitive (Must Do)

Need to improve fire protection in the Wayne Hill, Incochee and Morgan

Farms area pressure districts which are fed from the Wayne Hill Booster Station.

Wayne Hill Fire Pump Wayne Hill Fire Pump

Water Fund

Funding Sources:

Previous

\$0

2020/2021

2021/2022

2022/2023

\$0

\$0

\$0

2023/2024 \$0

2024/2025 \$0

2025/2026 \$0

\$100,000

Total

\$100,000 Project Total:

COST DETAIL:

\$0

Study:

\$0 Land Acquisition / ROW:

Engineering / Design:

Construction: \$100,000

Annual Maint, Cost:

Maint. Year Start:

Cost Total:

Project Difference:

\$100,000

\$0

Service Impact:

Improved fire flow and increased high pressure loop system reliability

Project Justification:

Need to improve fire protection in this service area.

Location Description:

Wayne Hill Booster Station - Wayne St. and Incochee Rd.



WATER-20-CIP

Water

1183-20-CIP WTP Backwash & Surface Wash Pumps

Project Information

Submitted By: Art Krueger
Category: Maintenance

Department:
Department Head:

Council Priority:

\$0

Department of Municipal Utilitie

The Water Treatment Plant has original filter backwash and surface wash pumps from 1965. These pumps need to be rebuilt or replaced

Fund Group: Water Staff Priority:

Fund Detail: Water Treatment

Water Fund

Essential (Should Do)

Art Krueger

in the near future.

WTP Backwash & Su WTP Backwash & Surface Wash Pumps

Funding Sources:

WAT

Previous 2020/2021

\$0

2021/2022 2022/2023

\$150.000

\$0

\$0

2023/2024

\$0

2024/2025

\$0

2025/2026 \$0

\$150,000

\$150,000

\$150,000

\$0

Total

Project Total:

COST DETAIL:

\$0

Study:

Land Acquisition / ROW: \$0

Engineering / Design:

Construction: \$150,000

Annual Maint. Cost:

Project Difference:

Cost Total:

Maint. Year Start:

Service Impact:

The proper function of these pumps is essential to filter washing operations. If the backwash pump were to fail, an alternative operation does exist via the high service pumps, but if the surface wash pump were to fail, there is no back up alternative.

Project Justification:

Need to improve reliability of filter washing operation at the WTP.

Location Description:

WTP basement.



WATER-20-CIP

Water

1182-20-CIP WTP High Service - Cone Valve Replacement

Project Information

Art Krueger Submitted By:

Maintenance Category:

Water Fund Group:

Water Treatment Fund Detail:

Water Fund

Department:

Staff Priority:

Council Priority:

\$0

Department of Municipal Utilitie

Art Krueger **Department Head:**

Essential (Should Do)

The Water Treatment Plant has 4 old cone valves (original from 1965) that operate with High Service Pump #'s 1, 2, 3 & 4 which need to be

replaced with new electric plug valves. Currently High Service Pump #5

has a newer electric plug valve which was installed in 2012.

Funding Sources:

WAT

2020/2021 **Previous**

\$0

2021/2022

2022/2023 \$100.000

\$0

\$0

2023/2024

\$0

2024/2025

\$0

2025/2026 \$0

Total \$100.000

\$100,000

\$0

Project Total:

Cost Total:

Project Difference:

\$100,000

COST DETAIL:

\$0

Study:

\$0 Land Acquisition / ROW:

Engineering / Design:

\$100,000 Construction:

Annual Maint. Cost:

Maint. Year Start:

Service Impact:

Proper cone / plug valve operation is essential to water supply pumping operations.

Project Justification:

Need to improve reliability of 4 High Service pump valves.

Location Description:

Water Treatment Plant - High Service Pump Room (Basement)



WATER-20-CIP

Water

1017-20-CIP WTP Standby Generator Replacement Project

Project Information

Art Krueger Submitted By:

Department:

\$0

Department of Municipal Utilitie

Existing generator is over 20 years old and is nearing the end of its useful life. This project will replace it with a new, more efficient model.

Maintenance Category:

Water Fund

Department Head: Staff Priority:

Essential (Should Do)

Art Krueger

Water Fund Group:

Water System Reliability Projec

Council Priority:

WTP Standby General WTP Standby Generator Replacement Project

Funding Sources:

Fund Detail:

WAT

Previous

\$0

2020/2021

2021/2022

2022/2023

\$0

2023/2024 \$0

2024/2025 \$300.000

2025/2026 \$0

\$300.000

Total

Project Total:

\$300,000

COST DETAIL:

\$0

Study:

\$0 \$0

Land Acquisition / ROW: Engineering / Design:

\$0

Construction:

\$300,000

Cost Total:

Project Difference:

\$300,000

\$0

Annual Maint. Cost: Maint. Year Start:

Service Impact:

Increase reliability and efficiency by replacing the plant generator when it is at the end of it's useful life.

Project Justification:

Recommended in the 2014 Water System Reliability Study.

Location Description:



WATER-20-CIP

Water

1065-20-CIP WTP Sump Pump Discharge Flow Meter

Project Information

Art Krueger Submitted By:

Department:

Department of Municipal Utilitie

Install flow meter to accurately measure lagoon discharge (from filter

backwash) to East Bay as required per the NPDES permit.

Capital Category: Water

Water Fund

Art Krueger **Department Head:** Essential (Should Do) Staff Priority:

Fund Group: Fund Detail:

Water Treatment

Council Priority:

\$20.000

WTP Sump Pump Dis WTP Sump Pump Discharge Flow Meter

Funding Sources:

WAT

2020/2021 **Previous**

2021/2022

2022/2023

\$0

2023/2024

\$0

2024/2025 \$0

2025/2026

\$0

Total \$20,000

Project Total:

\$20,000

COST DETAIL:

\$0

Study:

\$0 \$0

\$0

Land Acquisition / ROW:

Engineering / Design:

\$20,000 Construction:

Annual Maint. Cost:

Project Difference:

\$20,000

\$0

Cost Total:

Maint. Year Start:

Service Impact:

Currently, flows are estimated and inaccurate due to the variables of incoming flow to the Sump Pump station and one or two pumps in operation. Over estimating flow requires notices to the MDEQ which could be eliminated if an accurate flow meter was installed.

Project Justification:

Increased compliance with NPDES permit requirements to report accurate flows discharged to East Bay.

\$0

Location Description:

Water Treatment Plant, 2010 Eastern Ave.



WATER-20-CIP

Water

1047-20-CIP WTP Turbidimeters Replacement

Project Information

Art Krueger Submitted By: Maintenance Category:

Department: **Department Head:**

Council Priority:

Department of Municipal Utilitie

\$0

\$0

Turbidity meters at the WTP will need to be replaced as they reach the end of their useful life. Reliable equipment and accurate readings are

required by the MDEQ for water quality monitoring / compliance.

2024/2025

\$0

Water Fund Group:

Imperitive (Must Do) Staff Priority:

WTP Turbidimeters R WTP Turbidimeters Replacement

Water Fund

Water Treatment

Funding Sources:

Fund Detail:

WAT

2020/2021 2021/2022 2022/2023 2023/2024 Previous \$0 \$0 \$0 \$15.000 \$10.000

Art Krueger

\$25,000 Project Total:

Total

\$25,000

\$25,000

\$0

2025/2026

Cost Total:

Project Difference:

\$0

COST DETAIL:

Study:

\$0 Land Acquisition / ROW:

Engineering / Design:

\$25,000 Construction:

Annual Maint. Cost:

Maint. Year Start:

Service Impact:

Restore reliability of instruments required for water quality as mandated by MDEQ.

Project Justification:

Replace critical instruments when they reach end of useful life.

Location Description:

Water Treatment Plant - 2010 Eastern Ave.



WATER-20-CIP

Category:

WAT

Water

1045-20-CIP WTP Water Quality In-Line Instrumentation

Project Information

Art Krueger Submitted By:

Department:

Department of Municipal Utilitie

Install a streaming current monitor instrument to monitor water

chemistry in order to optimize daily coagulant dosing.

Art Krueger

Fund Group:

Capital Water

Water Fund

Department Head: Staff Priority:

\$25.000

Essential (Should Do)

Water Treatment Fund Detail: **Council Priority:**

WTP Water Quality Ir WTP Water Quality In-Line Instrumentation

Funding Sources:

Previous

\$0

2020/2021 2021/2022

2022/2023

\$0

2023/2024 \$0

2024/2025

\$0

2025/2026 \$0

Total \$25,000

Project Total:

\$25,000

COST DETAIL:

\$0

Study:

\$0 \$0

Land Acquisition / ROW:

\$0 Engineering / Design:

\$25,000 Construction:

Cost Total: **Project Difference:** \$25,000

\$0

Annual Maint. Cost:

Maint. Year Start:

Service Impact:

Installing this instrument will help optimize chemical dosing (reduce costs) and ensure proper water treatment.

Project Justification:

MDEQ District Engineer has recommended installing this equipment at the WTP.

Location Description:



WATER-20-CIP

Water

1184-20-CIP WTP Windows Replacement Project

Project Information

Submitted By: Art Krueger

Department: Department of Municipal Utilitie

Water Treatment Plant has 35 original windows from 1965 that need to

be replaced to conserve energy (heat loss in winter).

Category: Maintenance Department Head: Art Krueger

Fund Group: Water

Staff Priority:

Important (Could Do)

Fund Detail: Water Treatment Council Priority:

WTP Windows Repla WTP Windows Replacement Project

Water Fund

Funding Sources:

WAT

2020/2021 2021/2022 2022/2023 2023/2024 2024/2025 2025/2026 Previous Total \$0 \$0 \$0 \$0 \$0 \$0 \$90.000 \$90,000

Project Total: \$90,000

Project Difference:

\$0

COST DETAIL:

Study: \$0

Land Acquisition / ROW: \$0

Engineering / Design: \$0

Construction: \$90,000 Cost Total: \$90,000

Annual Maint. Cost:

Maint. Year Start:

Service Impact:

Improve overall operational efficiency at the WTP.

Project Justification:

This project would conserve energy at the WTP and would help the City toward reaching it's Green Energy goal.

Location Description:

Water Treatment Plant

Page: 246



GRAND TOTAL:	\$27,401,223	\$45,294,511	\$36,256,403	\$20,883,204	\$24,181,145	\$16,035,618	\$13,785,663	\$182,561,207	\$129,832,122	\$54,005,645
	Previous	2020-2021	2021-2022	2022-2023	2023-2024	2024-2025	2025-2026	Cost	Funds	Funds
		Fiscal Year	Project	City	Non-City					

Table of Contents

Bridges	1
Brown Bridge	11
Semetery	20
Civic	24
acilities	31
ire	38
Sarage	41
General Government	47
ight and Power	62
arking	97
arks	121
olice	141
streets	144
Valkways	161
Vastewater	172
Vater	217