

Six Year Capital Improvement Plan

All Projects Submitted for 2021-2022

Budget Year 2021-2022 by Program Name

Bold - Indicates projects occurring in the first FY of the plan. + - Indicates projects with multiple funding										Overall Programming Cost		
Project ID	Cat	Previous	Fiscal Year 2021-2022	Fiscal Year 2022-2023	Fiscal Year 2023-2024	Fiscal Year 2024-2025	Fiscal Year 2025-2026	Fiscal Year 2026-2027	Project Cost	City Funds	Non-City Funds	
Bridges												
+ 58-21-CIP	Eighth Street Bridge Repair	V	\$1,380,351	\$0	\$0	\$0	\$0	\$0	\$0	\$1,584,505	\$667,851	\$712,500
+ 885-21-CIP	North Cass Street Bridge Rehabilitation	V	\$429,500	\$0	\$913,500	\$0	\$0	\$0	\$0	\$1,343,000	\$246,500	\$1,096,500
+ 586-21-CIP	Park Street Bridge Repair	V	\$957,500	\$0	\$0	\$0	\$0	\$0	\$0	\$645,553	\$150,000	\$807,500
+ 187-21-CIP	South Cass Street Bridge Repair	V	\$939,500	\$0	\$0	\$0	\$0	\$0	\$0	\$808,538	\$132,000	\$807,500
+ 186-21-CIP	South Union Street Bridge Repair	V	\$0	\$260,500	\$1,057,500	\$0	\$0	\$0	\$0	\$1,323,000	\$260,500	\$1,057,500
+ 535-21-CIP	West Front Street Bridge Replacement	V	\$1,426,914	\$136,560	\$0	\$0	\$0	\$0	\$0	\$1,909,491	\$381,914	\$1,181,560
Total Bridges			\$397,060	\$1,971,000	\$0	\$0	\$0	\$0	\$0	\$7,614,087	\$1,838,765	\$5,663,060



Six Year Capital Improvement Program

BRIDGES-CIP-21

Bridges

58-21-CIP Eighth Street Bridge Repair

Project Information

Submitted By: Jean Derenzy
Category: Visionary
Fund Group: Tax Increment Financing
Fund Detail: TIF 2
Department: Downtown Development
Department Head: Tim Lodge
Staff Priority: Imperative (Must Do)
Council Priority:

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.
 Estimated Schedule (varies due to MDOT process):
 Start: Spring 2021
 Completion: Summer 2021
 Notes: Target completion before Cherry Festival.
 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 deficit of \$107,262.

58-21-CIP-C Eighth Street Bridge Repair (+Grant) - Cost

Funding Sources:

		Previous	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	2026/2027	Total
ACPF	Available Capital Projects Fund	\$195,000	\$0	\$0	\$0	\$0	\$0	\$0	\$195,000
FSG	Federal / State Grant	\$712,500	\$0	\$0	\$0	\$0	\$0	\$0	\$712,500
TIF2	TIF 2	\$150,000	\$0	\$0	\$0	\$0	\$0	\$0	\$150,000
WAT	Water Fund	\$322,851	\$0	\$0	\$0	\$0	\$0	\$0	\$322,851

Project Total: \$1,380,351

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$35,506	
Construction:	\$1,548,999	Cost Total: \$1,584,505
Annual Maint. Cost:	\$5,500	Project Difference: \$-204,154
Maint. Year Start:		

Service Impact:

See Project Description.



BRIDGES-CIP-21

Bridges

Project Justification:

See Project Description.

Location Description:

See Project Description.

BRIDGES-CIP-21

Bridges

885-21-CIP North Cass Street Bridge Rehabilitation

Project Information

Submitted By: Jean Derenzy	Department: Downtown Development	The work anticipated includes the removal and replacement of the existing concrete box beam supported deck, widening and replacement of the sidewalks, railings, approach pavement and related work.
Category: Visionary	Department Head: Tim Lodge	
Fund Group: Tax Increment Financing	Staff Priority: Imperative (Must Do)	
Fund Detail: TIF 97	Council Priority:	

885-21-CIP-C North Cass Street Bridge Rehabilitation (+ - Cost)

Funding Sources:

		Previous	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	2026/2027	Total
FSG	Federal / State Grant	\$0	\$0	\$913,500	\$0	\$0	\$0	\$0	\$913,500
IN	Inkind	\$183,000	\$0	\$0	\$0	\$0	\$0	\$0	\$183,000
TIF97	TIF 97	\$246,500	\$0	\$0	\$0	\$0	\$0	\$0	\$246,500

Project Total: \$1,343,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$183,000	
Construction:	\$1,160,000	Cost Total: \$1,343,000
Annual Maint. Cost:		Project Difference: \$0
Maint. Year Start:	2023	

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.

Six Year Capital Improvement Program

BRIDGES-CIP-21

Bridges

586-21-CIP Park Street Bridge Repair

Project Information

Submitted By:	Rob Baciagalupi	Department:	Downtown Development	Rehabilitate bridge superstructure.
Category:	Visionary	Department Head:	Tim Lodge	Estimated Schedule (varies due to MDOT process):
Fund Group:	Tax Increment Financing	Staff Priority:	Essential (Should Do)	Start: Spring 2021
Fund Detail:	TIF 97	Council Priority:		Completion: Summer 2021
				Notes: Target completion before Cherry Festival.

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 deficit of \$107,262.

586-21-CIP-C Park Street Bridge Repair - Cost

Funding Sources:

		Previous	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	2026/2027	Total
FSG	Federal / State Grant	\$807,500	\$0	\$0	\$0	\$0	\$0	\$0	\$807,500
TIF97	TIF 97	\$150,000	\$0	\$0	\$0	\$0	\$0	\$0	\$150,000
Project Total:									\$957,500

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$24,705	
Construction:	\$620,847	Cost Total: \$645,553
Annual Maint. Cost:	\$5,500	Project Difference: \$311,947
Maint. Year Start:	2020	

Service Impact:

N/A

Project Justification:

Based on bridge assessment

Location Description:

Park St

Six Year Capital Improvement Program

BRIDGES-CIP-21

Bridges

187-21-CIP South Cass Street Bridge Repair

Project Information

Submitted By: Jean Derenzy	Department: Downtown Development	Concrete arch rehabilitation.
Category: Visionary	Department Head: Tim Lodge	Estimated schedule (varies due to MDOT review schedule):
Fund Group: Tax Increment Financing	Staff Priority: Essential (Should Do)	Start: Summer 2021
Fund Detail: TIF 97	Council Priority:	Completion: Fall 2021.
		Notes: Start immediately following Eighth St. Bridge/Cherry Festival

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 deficit of \$107,262.

187-21-CIP-C South Cass Street Bridge Repair(+TIF2) - Cost

Funding Sources:

		Previous	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	2026/2027	Total
FSG	Federal / State Grant	\$807,500	\$0	\$0	\$0	\$0	\$0	\$0	\$807,500
TIF2	TIF 2	\$66,000	\$0	\$0	\$0	\$0	\$0	\$0	\$66,000
TIF97	TIF 97	\$66,000	\$0	\$0	\$0	\$0	\$0	\$0	\$66,000
Project Total:									\$939,500

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$62,578	
Construction:	\$745,960	Cost Total: \$808,538
Annual Maint. Cost:	\$5,500	Project Difference: \$130,962
Maint. Year Start:		

Service Impact:

See Project Description.

Project Justification:

See Project Description.

Location Description:

See Project Description.

BRIDGES-CIP-21

Bridges

186-21-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	Council Priority:		

186-21-CIP-C South Union Street Bridge Repair (+TIF2) - Cost

Funding Sources:

		Previous	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	2026/2027	Total
FSG	Federal / State Grant	\$0	\$0	\$1,057,500	\$0	\$0	\$0	\$0	\$1,057,500
GEN	General Fund	\$0	\$74,500	\$0	\$0	\$0	\$0	\$0	\$74,500
TIF2	TIF 2	\$0	\$93,000	\$0	\$0	\$0	\$0	\$0	\$93,000
TIF97	TIF 97	\$0	\$93,000	\$0	\$0	\$0	\$0	\$0	\$93,000

Project Total: \$1,318,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$189,000	
Construction:	\$1,134,000	Cost Total: \$1,323,000
Annual Maint. Cost:		Project Difference: \$-5,000
Maint. Year Start:	2021	

Service Impact:

See Project Description.

Project Justification:

See Project Description.

Location Description:

See Project Description.

BRIDGES-CIP-21

Bridges

535-21-CIP West Front Street Bridge Replacement

Project Information

Submitted By: Jean Derenzy
Category: Visionary
Fund Group: Tax Increment Financing
Fund Detail: TIF 97

Department: Downtown Development
Department Head: Tim Lodge
Staff Priority: Imperative (Must Do)
Council Priority:

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 project. This project would also include a staircase to the river/pathway in a potential cost-share with the developer of 309 West Front. Estimated Schedule (varies due to MDOT process):
 Start: Fall 2021
 Completion: Spring 2022
 Notes: Will likely be broken into 2 phases with a winter break. 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 deficit of \$107,262.

535-21-CIP-C West Front Street Bridge Replacement - Cost

Funding Sources:

		Previous	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	2026/2027	Total
FSG	Federal / State Grant	\$1,045,000	\$136,560	\$0	\$0	\$0	\$0	\$0	\$1,181,560
TIF97	TIF 97	\$220,000	\$0	\$0	\$0	\$0	\$0	\$0	\$220,000
WAT	Water Fund	\$161,914	\$0	\$0	\$0	\$0	\$0	\$0	\$161,914
Project Total:									\$1,563,474

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$45,905	
Construction:	\$1,863,586	Cost Total: \$1,909,491
Annual Maint. Cost:	\$5,500	Project Difference: \$-346,017
Maint. Year Start:		

Service Impact:

See Project Description.

Project Justification:

See Project Description.



BRIDGES-CIP-21

Bridges

Location Description:

See Project Description.

Six Year Capital Improvement Plan

All Projects Submitted for 2021-2022

Budget Year 2021-2022 by Program Name

Bold - Indicates projects occurring in the first FY of the plan . + - Indicates projects with multiple funding										<u>Overall Programming Cost</u>		
Project ID	Cat	Previous	Fiscal Year 2021-2022	Fiscal Year 2022-2023	Fiscal Year 2023-2024	Fiscal Year 2024-2025	Fiscal Year 2025-2026	Fiscal Year 2026-2027	Project Cost	City Funds	Non-City Funds	
Brown Bridge												
+ 1106-21-CIP	ADA Accessible Watercraft Landing	V	\$0	\$0	\$0	\$100,000	\$0	\$0	\$0	\$100,000	\$50,000	\$50,000
+ 1105-21-CIP	Boardman River Recreation Plan	V	\$5,000	\$25,000	\$0	\$0	\$0	\$0	\$0	\$30,000	\$5,000	\$25,000
853-21-CIP	Invasive Species Treatment	M	\$0	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000	\$30,000	\$30,000	\$0
+ 1202-21-CIP	Northside BBQA Outhouse	V	\$0	\$0	\$15,000	\$0	\$0	\$0	\$0	\$15,000	\$7,500	\$7,500
+ 855-21-CIP	Overlook & Historical Display at Former Powerhouse	V	\$0	\$0	\$20,000	\$0	\$0	\$0	\$0	\$20,000	\$10,000	\$10,000
+ 856-21-CIP	Overlook (2) and Access Steps (2 sets)	V	\$0	\$0	\$0	\$0	\$0	\$0	\$45,000	\$45,000	\$22,500	\$22,500
Total Brown Bridge			\$30,000	\$40,000	\$105,000	\$5,000	\$5,000	\$50,000	\$240,000	\$125,000	\$115,000	

Six Year Capital Improvement Program

BB-CIP-21

Brown Bridge

1106-21-CIP ADA Accessible Watercraft Landing

Project Information

Submitted By:	Grand Traverse Conservation E	Department:	Department of Public Services	Design and construction of an ADA accessible canoe/kayak launch on the Boardman River near Brown's Landing Footbridge. The existing access consists of stairs and a small, rudimentary platform that challenge skills and abilities of those looking to float the river.
Category:	Visionary	Department Head:	Frank Dituri	
Fund Group:	Brown Bridge Trust Parks Impr	Staff Priority:	Essential (Should Do)	
Fund Detail:	Brown Bridge Trust Parks Impr	Council Priority:		

1106-21-CIP-C ADA Accessible Watercraft Landing

Funding Sources:

		Previous	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	2026/2027	Total
BBTP	Brown Bridge Trust Parks	\$0	\$0	\$0	\$50,000	\$0	\$0	\$0	\$50,000
FSG	Federal / State Grant	\$0	\$0	\$0	\$50,000	\$0	\$0	\$0	\$50,000

Project Total: \$100,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$25,000	
Construction:	\$75,000	
Annual Maint. Cost:		
Maint. Year Start:		
		Cost Total: \$100,000
		Project Difference: \$0

Service Impact:

Maintenance needs are expected to be minimal upon installation/construction and no major recurring maintenance costs are anticipated.

Project Justification:

The ever-increasing number of Boardman River paddlers is bringing a more diverse range of interests and abilities. Improving access will provide a better river-going experience for parkland visitors.

Location Description:

3405 Brown Bridge Rd

BB-CIP-21

Brown Bridge

1105-21-CIP Boardman River Recreation Plan

Project Information

Submitted By:	Grand Traverse Conservation E	Department:	Department of Public Services	Develop a Recreation Plan for the Boardman River that will help balance different recreational uses of the river while protecting the ecological integrity of Boardman.
Category:	Visionary	Department Head:	Frank Dituri	
Fund Group:	Brown Bridge Trust Parks Impr	Staff Priority:	Essential (Should Do)	
Fund Detail:	Brown Bridge Trust Parks Impr	Council Priority:		

1105-21-CIP-C Boardman River Recreation Plan - Cost

Funding Sources:

		Previous	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	2026/2027	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
P	Private	\$5,000	\$0	\$0	\$0	\$0	\$0	\$0	\$5,000
Project Total:									\$30,000

COST DETAIL:

Study:	\$30,000	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$0	
Construction:	\$0	Cost Total: \$30,000
Annual Maint. Cost:		Project Difference: \$0
Maint. Year Start:		

Service Impact:

A Recreation Plan for the Boardman River will provide watershed-wide protection from excess commercial recreational use that could lead to ecological impairment and infrastructure damage. The Recreation Plan will not require yearly maintenance but will need to be occasionally updated.

Project Justification:

The upper part of the mainstem of the Boardman River flows through the heart of the Brown Bridge Quiet Area, while the lower part flows through downtown Traverse City. Since the removal of three former hydro dams including Brown Bridge Dam in 2012, the river has experienced a tremendous increase in the number of paddlers and fisherman. In 2017 the City Manager issued as Administrative Order establishing a moratorium on issuing any permits or accepting applications for commercial use of Brown Bridge property. Creation of a Recreation Plan will help balance different recreational uses while protecting the ecological integrity of the Boardman River.

Location Description:

3405 Brown Bridge Rd



BB-CIP-21

Brown Bridge

853-21-CIP

Invasive Species Treatment

Project Information

Submitted By:	Grand Traverse Conservation C	Department:	Department of Public Services	This entails the treatment of invasive terrestrial plants on the exposed bottomlands of the former Brown Bridge Dam impoundment, the earthen dam berm, and Grasshopper field. Funds will cover contractual services to (chemically and/or mechanically) treat high priority invasive species in ecologically sensitive areas, based on Best Management Practices. Targeted species include: phragmites, reed canary grass, spotted knapweed, purple loosestrife and Canada/bull thistles.
Category:	Maintenance	Department Head:	Frank Dituri	
Fund Group:	Brown Bridge Maintenance Fur	Staff Priority:	Essential (Should Do)	
Fund Detail:	Brown Bridge Maintenance Fur	Council Priority:		

853-21-CIP-C Invasive Species Treatment - Cost

Funding Sources:

		Previous	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	2026/2027	Total
BBM	Brown Bridge Maintenance Fund	\$0	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000	\$30,000
Project Total:									\$30,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$0	
Construction:	\$30,000	Cost Total: \$30,000
Annual Maint. Cost:	\$5,000	Project Difference: \$0
Maint. Year Start:	2021	

Service Impact:

Invasive treatment efforts were most intense immediately following dam removal. Successful treatments have reduced target population significantly and treatments are expected to continue to lessen over time.

Project Justification:

As stated within the Brown Bridge Quiet Area Invasive Species Management Plan, the proper maintenance of these high-priority invasive species will protect the natural integrity of the Quiet Area, which is known for the quality of its natural environment, as demonstrated through the high diversity of native habitats relative to its abundance of invasive plant populations.

Location Description:

3405 Brown Bridge Rd



Six Year Capital Improvement Program

BB-CIP-21

Brown Bridge

1202-21-CIP Northside BBQA Outhouse

Project Information

Submitted By:	Grand Traverse Conservation C	Department:	Department of Public Services	Construct a vault (MDNR) style public outhouse at one of two trailhead off Ranch Rudolf Road.
Category:	Visionary	Department Head:	Frank Dituri	
Fund Group:	Available Capital Project Fund	Staff Priority:	Essential (Should Do)	
Fund Detail:	Available Capital Projects Fund	Council Priority:		

1202-21-CIP-C Northside BBQA Outhouse

Funding Sources:

		Previous	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	2026/2027	Total
BBTP	Brown Bridge Trust Parks	\$0	\$0	\$7,500	\$0	\$0	\$0	\$0	\$7,500
LFG	Local / Foundation Grant	\$0	\$0	\$7,500	\$0	\$0	\$0	\$0	\$7,500
Project Total:									\$15,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$0	
Construction:	\$15,000	Cost Total: \$15,000
Annual Maint. Cost:		Project Difference: \$0
Maint. Year Start:		

Service Impact:

This outhouse will need pumping twice per year at a cost of \$250 per cleanout. The vault toilet will also need to be supplied with tissue paper and hand sanitizer. Painting will need to take place approximately every 5 years.

Project Justification:

Currently the Brown Bridge Quiet Area has two vault (MDNR) style public outhouses both located on the southside of the Brown Bridge Quiet Area. One is located at Buck's Landing Trailhead and the other at the lower canoe landing. With two trailheads on the northside of the Quiet Area and with the increased use of these two trailheads, we are seeing more "tissue blooms" in the woods close to the trailhead parking areas. It is critical that we provide an outhouse on the northside to serve these visitors.

Location Description:

Brown Bridge Quiet Area



BB-CIP-21

Brown Bridge

855-21-CIP Overlook & Historical Display at Former Powerhouse

Project Information

Submitted By:	Grand Traverse Conservation E	Department:	Department of Public Services	Develop a historical display at the former Brown Bridge Powerhouse location that informs visitors of the rich history that began prior to hydro-electric generation and logging when Walter William Brown constructed a stage coach bridge in 1869 over the Boardman just downstream of the former powerhouse location.
Category:	Visionary	Department Head:	Frank Dituri	
Fund Group:	Brown Bridge Trust Parks Impr	Staff Priority:	Essential (Should Do)	
Fund Detail:	Brown Bridge Trust Parks Impr	Council Priority:		

855-21-CIP-C Overlook and Historical Display at Former - Cost

Funding Sources:

		Previous	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	2026/2027	Total
BBTP	Brown Bridge Trust Parks	\$0	\$0	\$10,000	\$0	\$0	\$0	\$0	\$10,000
FSG	Federal / State Grant	\$0	\$0	\$5,000	\$0	\$0	\$0	\$0	\$5,000
P	Private	\$0	\$0	\$5,000	\$0	\$0	\$0	\$0	\$5,000
Project Total:									\$20,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$0	
Construction:	\$20,000	Cost Total: \$20,000
Annual Maint. Cost:		Project Difference: \$0
Maint. Year Start:		

Service Impact:

This project should require very little yearly maintenance.

Project Justification:

Provide a story board that describes the history of Brown Bridge from when Walter William Brown constructed a stage coach bridge to allow locals a way to cross the river with their horse drawn wagons. Brown Bridge was also the location of the Half-Way House where travelers from southern Michigan could stop and switch out horses and spend a night on their way to Mackinaw City. In the early 1900's the City began acquiring property for the future hydro-electric dam which was completed and placed into operation 1921.

Location Description:

3405 Brown Bridge Rd



BB-CIP-21

Brown Bridge

856-21-CIP Overlook (2) and Access Steps (2 sets)

Project Information

Submitted By: Grand Traverse Conservation E **Department:** Department of Public Services
Category: Visionary **Department Head:** Frank Dituri
Fund Group: Brown Bridge Trust Parks Impr **Staff Priority:** Important (Could Do)
Fund Detail: Brown Bridge Trust Parks Impr **Council Priority:**

Contract two overlooks and two sets of access steps to allow visitors to the Brown Bridge Quiet Area an opportunity to view and access the bottomlands and river as they heal post dam removal.

856-21-CIP-C Overlook (2) and Access Steps (3 sets) - Cost

Funding Sources:

		Previous	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	2026/2027	Total
BBTP	Brown Bridge Trust Parks	\$0	\$0	\$0	\$0	\$0	\$0	\$22,500	\$22,500
FSG	Federal / State Grant	\$0	\$0	\$0	\$0	\$0	\$0	\$11,250	\$11,250
P	Private	\$0	\$0	\$0	\$0	\$0	\$0	\$11,250	\$11,250

Project Total: \$45,000

COST DETAIL:

Study: \$0
Land Acquisition / ROW: \$0
Engineering / Design: \$0
Construction: \$45,000
Annual Maint. Cost:
Maint. Year Start:

Cost Total: \$45,000
Project Difference: \$0

Service Impact:

Once installed there will be very little need for annual maintenance.

Project Justification:

Since the removal of Brown Bridge Dam in 2012 and the installation of two river crossings (bridges) since removal, there has been a definite increase in the number of visitors to the Quiet Areas. Many of these visitors are looking to access the bottomlands and river to view first-hand the tremendous natural and human influenced healing process. Overlooks and access steps are needed to protect the fragile river and bottomlands.

Location Description:

3405 Brown Bridge Rd

Six Year Capital Improvement Plan

All Projects Submitted for 2021-2022

Budget Year 2021-2022 by Program Name

Bold - Indicates projects occurring in the first FY of the plan . + - Indicates projects with multiple funding										<u>Overall Programming Cost</u>		
Project ID	Cat	Previous	Fiscal Year 2021-2022	Fiscal Year 2022-2023	Fiscal Year 2023-2024	Fiscal Year 2024-2025	Fiscal Year 2025-2026	Fiscal Year 2026-2027	Project Cost	City Funds	Non-City Funds	
Cemetery												
47-21-CIP	Install Cremation Niches in Mausoleum	V	\$0	\$0	\$22,000	\$0	\$0	\$0	\$0	\$22,000	\$22,000	\$0
1204-21-CIP	Mausoleum Roof Project	M	\$0	\$25,000	\$0	\$0	\$0	\$0	\$0	\$25,000	\$25,000	\$0
48-21-CIP	Paving of Main Loop in First Addition	V	\$0	\$110,000	\$0	\$0	\$0	\$0	\$0	\$110,000	\$110,000	\$0
Total Cemetery			\$135,000	\$22,000	\$0	\$0	\$0	\$0	\$0	\$157,000	\$157,000	\$0



Six Year Capital Improvement Program

CEMETERY-CIP-21

Cemetery

47-21-CIP Install Cremation Niches in Mausoleum

Project Information

Submitted By:	Lauren Vaughn	Department:	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 make the lobby area more attractive and provide more revenue potential.
Category:	Visionary	Department Head:	Frank Dituri	
Fund Group:	General	Staff Priority:	Important (Could Do)	
Fund Detail:	Cemetery	Council Priority:		

47-21-CIP-C Install Cremation Niches in Mausoleum - Cost

Funding Sources:

		Previous	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	2026/2027	Total
GEN	General Fund	\$0	\$0	\$22,000	\$0	\$0	\$0	\$0	\$22,000
Project Total:									\$22,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$0	
Construction:	\$22,000	Cost Total: \$22,000
Annual Maint. Cost:	\$300	Project Difference: \$0
Maint. Year Start:	2025	

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



Six Year Capital Improvement Program

CEMETERY-CIP-21

Cemetery

1204-21-CIP Mausoleum Roof Project

Project Information

Submitted By:	Derek Melville	Department:	Department of Public Services	The mausoleum roof at Oakwood Cemetery has developed leaks and needs to be re-roofed.
Category:	Maintenance	Department Head:	Frank Dituri	
Fund Group:	General	Staff Priority:	Imperative (Must Do)	
Fund Detail:	Cemetery	Council Priority:		

1204-21-CIP-C Mausoleum Roof Project

Funding Sources:

		Previous	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	2026/2027	Total
GEN	General Fund	\$0	\$25,000	\$0	\$0	\$0	\$0	\$0	\$25,000
Project Total:									\$25,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$0	
Construction:	\$25,000	Cost Total: \$25,000
Annual Maint. Cost:		Project Difference: \$0
Maint. Year Start:		

Service Impact:

This repair is needed to bring the mausoleum back to its original condition.

Project Justification:

Without doing this project the leaks will get worse and create more damage to the building.

Location Description:

1400 E 8th Street

CEMETERY-CIP-21

Cemetery

48-21-CIP Paving of Main Loop in First Addition

Project Information

Submitted By: Lauren Vaughn	Department: Department of Public Services	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.
Category: Visionary	Department Head: Frank Dituri	
Fund Group: General	Staff Priority: Imperative (Must Do)	
Fund Detail: Cemetery	Council Priority:	

48-21-CIP-C Paving of Main Loop in First Addition - Cost

Funding Sources:

		Previous	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	2026/2027	Total
GEN	General Fund	\$0	\$110,000	\$0	\$0	\$0	\$0	\$0	\$110,000
Project Total:									\$110,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$0	
Construction:	\$110,000	Cost Total: \$110,000
Annual Maint. Cost:	\$500	Project Difference: \$0
Maint. Year Start:	2023	

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

Six Year Capital Improvement Plan

All Projects Submitted for 2021-2022

Budget Year 2021-2022 by Program Name

Bold - Indicates projects occurring in the first FY of the plan . + - Indicates projects with multiple funding										Overall Programming Cost		
Project ID	Cat	Previous	Fiscal Year 2021-2022	Fiscal Year 2022-2023	Fiscal Year 2023-2024	Fiscal Year 2024-2025	Fiscal Year 2025-2026	Fiscal Year 2026-2027	Project Cost	City Funds	Non-City Funds	
Civic												
+ 870-21-CIP	Civic Square	V	\$0	\$25,000	\$0	\$6,000,000	\$0	\$0	\$0	\$6,000,000	\$1,025,000	\$5,000,000
781-21-CIP	Farmers Market	V	\$0	\$25,000	\$300,000	\$3,000,000	\$0	\$0	\$0	\$3,325,000	\$3,325,000	\$0
1160-21-CIP	Lake Avenue Streetscaping & Plaza	C	\$0	\$0	\$700,000	\$0	\$0	\$0	\$0	\$1,620,759	\$700,000	\$0
82-21-CIP	Lower Boardman River Universal Access	C	\$300,000	\$300,000	\$0	\$0	\$0	\$0	\$0	\$20,000,000	\$600,000	\$0
1141-21-CIP	Stormwater	C	\$0	\$100,000	\$56,000	\$56,000	\$56,000	\$0	\$0	\$300,000	\$268,000	\$0
1158-21-CIP	Workforce Housing	V	\$0	\$0	\$200,000	\$0	\$0	\$0	\$0	\$200,000	\$200,000	\$0
Total Civic				\$450,000	\$1,256,000	\$9,056,000	\$56,000	\$0	\$0	\$31,445,759	\$6,118,000	\$5,000,000



Six Year Capital Improvement Program

CIVIC-CIP-21

Civic

870-21-CIP Civic Square

Project Information

Submitted By:	Rob Baciagalupi	Department:	Downtown Development	Public gathering space for Traverse City citizens and visitors alike. This site will feature a variety of placemaking features and connections to the new FishPass Project.
Category:	Visionary	Department Head:	Jean Derenzy	
Fund Group:	Tax Increment Financing	Staff Priority:	Important (Could Do)	
Fund Detail:	TIF 97	Council Priority:		

870-21-CIP-C Civic Square (+Private) - Cost

Funding Sources:

		Previous	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	2026/2027	Total
P	Private	\$0	\$0	\$0	\$5,000,000	\$0	\$0	\$0	\$5,000,000
TIF97	TIF 97	\$0	\$25,000	\$0	\$1,000,000	\$0	\$0	\$0	\$1,025,000
Project Total:									\$6,025,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$1,000,000	
Engineering / Design:	\$0	
Construction:	\$5,000,000	Cost Total: \$6,000,000
Annual Maint. Cost:		Project Difference: \$25,000
Maint. Year Start:	2018	

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



Six Year Capital Improvement Program

CIVIC-CIP-21

Civic

781-21-CIP **Farmers Market**

Project Information

Submitted By:	Rob Baciagalupi	Department:	Downtown Development	Reconstruction of the Farmers Market Lot B with permanent structure, wider sidewalks, river enhancements, lighting, and reconstruction of parking lot. This project will tie into additional improvements associated with the Unified Plan for the Lower Boardman River
Category:	Visionary	Department Head:	Jean Derenzy	
Fund Group:	Tax Increment Financing	Staff Priority:	Essential (Should Do)	
Fund Detail:	TIF 97	Council Priority:		

781-21-CIP-C Farmers Market - Cost

Funding Sources:

		Previous	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	2026/2027	Total
TIF97	TIF 97	\$0	\$25,000	\$300,000	\$3,000,000	\$0	\$0	\$0	\$3,325,000
Project Total:									\$3,325,000

COST DETAIL:

Study:	\$25,000	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$300,000	
Construction:	\$3,000,000	Cost Total: \$3,325,000
Annual Maint. Cost:	\$10,000	Project Difference: \$0
Maint. Year Start:	2024	

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-CIP-21

Civic

1160-21-CIP Lake Avenue Streetscaping & Plaza

Project Information

Submitted By: Jean Derenzy	Department: Downtown Development	Development of streetscaping along Lake Avenue (south of Eighth Street) and a pedestrian plaza near Eleventh Street.
Category: Capital	Department Head: Jean Derenzy	
Fund Group: Tax Increment Financing	Staff Priority: Important (Could Do)	
Fund Detail: TIF 2	Council Priority:	

1160-21-CIP-C Lake Street Plaza

Funding Sources:

		Previous	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	2026/2027	Total
TIF2	TIF 2	\$0	\$0	\$700,000	\$0	\$0	\$0	\$0	\$700,000
Project Total:									\$700,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$0	
Construction:	\$1,620,759	Cost Total: \$1,620,759
Annual Maint. Cost:		Project Difference: \$-920,759
Maint. Year Start:		

Service Impact:

Lake Avenue streetscapes will provide a much improved pedestrian corridor and provide a connection between new streetscapes along Lake Avenue (between Eighth and Cass) as well as the new streetscapes along Eighth Street. The Plaza would also connect the Lake Avenue streetscapes with the Boardman Lake Trail Project will require annual maintenance costs.

Project Justification:

This project will support the overall reconstruction of Lake Avenue, providing better pedestrian access and circulation in this emerging part of Downtown. It will also support any potential redevelopment as well as any potential redevelopment projects along Lake Avenue.

Location Description:

Lake Avenue, between Eighth Street and Twelfth Street

CIVIC-CIP-21

Civic

82-21-CIP Lower Boardman River Universal Access

Project Information

Submitted By:	Rob Baciagalupi	Department:	Downtown Development	To beautify and enhance the river environment for recreationalist and fisheries and the help the Downtown face/engage with the river. This project will include substantial placemaking elements and should incorporate the 200 Block Alley Project (714-21) and Wellington Plaza Erosion Stabilization Project (1096).
Category:	Capital	Department Head:	Jean Derenzy	
Fund Group:	Tax Increment Financing	Staff Priority:	Essential (Should Do)	
Fund Detail:	TIF 97	Council Priority:		

82-21-CIP-C Lower Boardman River Universal Access- Cost

Funding Sources:

		Previous	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	2026/2027	Total
TIF97	TIF 97	\$300,000	\$300,000	\$0	\$0	\$0	\$0	\$0	\$600,000
Project Total:									\$600,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$0	
Construction:	\$20,000,000	Cost Total: \$20,000,000
Annual Maint. Cost:		Project Difference: \$-19,400,000
Maint. Year Start:		

Service Impact:

The project may be in conjunction with other items, but would most likely result in maintenance to a boardwalk and landscaping.

Project Justification:

Boardman River Enhancement

Location Description:

Lower Boardman River

Six Year Capital Improvement Program

CIVIC-CIP-21

Civic

1141-21-CIP Stormwater

Project Information

Submitted By: Jean Derenzy	Department: Downtown Development	Stormwater improvements will be based in large part on the AECOM study, but specific efforts will be made to add green infrastructure to the Downtown alleys.
Category: Capital	Department Head: Jean Derenzy	
Fund Group: Tax Increment Financing	Staff Priority: Essential (Should Do)	
Fund Detail: TIF 97	Council Priority: Essential (Should Do)	

1141-21-CIP-C STORMWATER

Funding Sources:

		Previous	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	2026/2027	Total
TIF97	TIF 97	\$0	\$100,000	\$56,000	\$56,000	\$56,000	\$0	\$0	\$268,000
Project Total:									\$268,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$0	
Construction:	\$300,000	Cost Total: \$300,000
Annual Maint. Cost:	\$5,000	Project Difference: -\$32,000
Maint. Year Start:	2021	

Service Impact:

WILL REDUCE STORMWATER IMPACTS INTO BOARDMAN RIVER AND BAY

Project Justification:

AECOM STUDY

Location Description:

DDA DISTRICT



Six Year Capital Improvement Program

CIVIC-CIP-21

Civic

1158-21-CIP Workforce Housing

Project Information

Submitted By: Jean Derenzy	Department: Downtown Development	Opportunity to partner with non-profits or for profits for workforce housing development.
Category: Visionary	Department Head: Jean Derenzy	
Fund Group: Tax Increment Financing	Staff Priority: Important (Could Do)	
Fund Detail: TIF 97	Council Priority:	

1158-21-CIP-C Workforce Housing

Funding Sources:

		Previous	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	2026/2027	Total
TIF97	TIF 97	\$0	\$0	\$200,000	\$0	\$0	\$0	\$0	\$200,000
Project Total:									\$200,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$0	
Construction:	\$200,000	Cost Total: \$200,000
Annual Maint. Cost:		Project Difference: \$0
Maint. Year Start:		

Service Impact:

N/A

Project Justification:

Meeting the goal of the DDA and City Commission to bring more housing into the City.

Location Description:

Within the DDA District

Six Year Capital Improvement Plan

All Projects Submitted for 2021-2022

Budget Year 2021-2022 by Program Name

Bold - Indicates projects occurring in the first FY of the plan . + - Indicates projects with multiple funding										Overall Programming Cost		
Project ID	Cat	Previous	Fiscal Year 2021-2022	Fiscal Year 2022-2023	Fiscal Year 2023-2024	Fiscal Year 2024-2025	Fiscal Year 2025-2026	Fiscal Year 2026-2027	Project Cost	City Funds	Non-City Funds	
Facilities												
1212-21-CIP	Dock House Renovation/Upgrade	M	\$0	\$0	\$30,000	\$0	\$0	\$0	\$30,000	\$30,000	\$0	
1213-21-CIP	F Wall Finger Docks Expansion	C	\$0	\$0	\$0	\$75,000	\$0	\$0	\$75,000	\$75,000	\$0	
1229-21-CIP	Gov Ctr Commission Chamber Upgrade	C	\$0	\$27,000	\$0	\$0	\$0	\$0	\$27,000	\$27,000	\$0	
1074-21-CIP	Harbor Master Building Foundation Repair	M	\$0	\$0	\$300,000	\$0	\$0	\$0	\$300,000	\$300,000	\$0	
1231-21-CIP	Kids Creek Pedestrian Trail Crossing Project	C	\$0	\$325,000	\$0	\$0	\$0	\$0	\$325,000	\$0	\$325,000	
+ 1114-21-CIP	NOAA Culvert Replacement	M	\$2,168,600	\$214,093	\$0	\$0	\$0	\$0	\$2,316,600	\$572,093	\$1,810,600	
+ 1112-21-CIP	Purchase & Install Backup Generator - Opera House	C	\$60,000	\$50,000	\$0	\$0	\$0	\$0	\$110,000	\$110,000	\$0	
1097-21-CIP	Replace Boiler - Opera House	M	\$0	\$38,000	\$0	\$0	\$0	\$0	\$38,000	\$38,000	\$0	
1227-21-CIP	Replace Boiler at 520 W Front St	C	\$0	\$53,000	\$0	\$0	\$0	\$0	\$53,000	\$53,000	\$0	
1101-21-CIP	Replace Chiller Unit - Carnegie Building	M	\$0	\$0	\$0	\$0	\$0	\$36,500	\$36,200	\$36,500	\$0	
1096-21-CIP	Replace Packaged A/C Rooftop Units - Opera House	M	\$15,000	\$20,000	\$0	\$0	\$0	\$0	\$35,000	\$35,000	\$0	
+ 1024-17-CIP	Replace/Upgrade AudioVisual Equipment at Gov Ctr	M	\$69,700	\$0	\$0	\$0	\$0	\$0	\$96,700	\$38,700	\$31,000	
871-21-CIP	Senior Center building renovation	V	\$673,000	\$0	\$3,327,000	\$0	\$0	\$0	\$4,000,000	\$423,000	\$3,577,000	
+ 168-21-CIP	Union Street Dam Improvements	V	\$0	\$9,800,000	\$9,800,000	\$0	\$0	\$0	\$19,300,000	\$300,000	\$19,300,000	
Total Facilities			\$10,527,093	\$13,457,000	\$75,000	\$0	\$36,500	\$0	\$26,742,500	\$2,038,293	\$25,043,600	



Six Year Capital Improvement Program

FACILITIES-CIP-21

Facilities

1212-21-CIP Dock House Renovation/Upgrade

Project Information

Submitted By:	Shane Dilloway	Department:	Department of Public Services	Dock House needs to be renovated to upgrade it's function and operation for the fueling dock and slip space.
Category:	Maintenance	Department Head:	Frank Dituri	
Fund Group:	Marina	Staff Priority:	Important (Could Do)	
Fund Detail:	Marina	Council Priority:		

1212-21-CIP-C Dock House Renovation/Upgrade

Funding Sources:

		Previous	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	2026/2027	Total
MAR	Marina Fund	\$0	\$0	\$30,000	\$0	\$0	\$0	\$0	\$30,000
Project Total:									\$30,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$0	
Construction:	\$30,000	Cost Total: \$30,000
Annual Maint. Cost:		Project Difference: \$0
Maint. Year Start:		

Service Impact:

Provide better customer service experience and improve slip management and point of sale operation.

Project Justification:

The dock house was built in the 1960's style and is not meeting our needs any longer with the increase of customers.

Location Description:

Marina - 1011 E Grandview Pkwy, Traverse City, MI 49684



Six Year Capital Improvement Program

FACILITIES-CIP-21

Facilities

1213-21-CIP F Wall Finger Docks Expansion

Project Information

Submitted By: Shane Dilloway	Department: Department of Public Services	Construct approximately 5 floating finger docks on the west side off "F" Wall to accommodate the growing need for slips at Clinch Marina.
Category: Capital	Department Head: Frank Dituri	
Fund Group: Marina	Staff Priority: Important (Could Do)	
Fund Detail: Marina	Council Priority:	

1213-21-CIP-C F Wall Finger Docks Expansion

Funding Sources:

		Previous	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	2026/2027	Total
MAR	Marina Fund	\$0	\$0	\$0	\$75,000	\$0	\$0	\$0	\$75,000
Project Total:									\$75,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$0	
Construction:	\$75,000	Cost Total: \$75,000
Annual Maint. Cost:		Project Difference: \$0
Maint. Year Start:		

Service Impact:

Increased slip space to maintain however the cost would be covered by extra income.

Project Justification:

Offer more slips for the growing demand and produce more revenue for the Marina.

Location Description:

Marina - 1011 E Grandview Pkwy, Traverse City, MI 49684



Six Year Capital Improvement Program

FACILITIES-CIP-21

Facilities

1229-21-CIP Gov Ctr Commission Chamber Upgrade

Project Information

Submitted By: Penny Hill	Department: Manager	City's share in upgrade of Commission Chambers, including IT infrastructure and new furniture. Total cost of upgrade estimated by Grand Traverse County to be \$100,000, with the City's share at approximately \$27,000.
Category: Capital	Department Head: Marty Colburn	
Fund Group: General	Staff Priority: Essential (Should Do)	
Fund Detail: Facilities	Council Priority:	

1229-21-CIP-C Gov Ctr Commission Chamber Upgrade

Funding Sources:

		Previous	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	2026/2027	Total
GEN	General Fund	\$0	\$27,000	\$0	\$0	\$0	\$0	\$0	\$27,000
Project Total:									\$27,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$0	
Construction:	\$27,000	Cost Total: \$27,000
Annual Maint. Cost:		Project Difference: \$0
Maint. Year Start:		

Service Impact:

Improvements to capability for remote meetings.

Project Justification:

Part of Grand Traverse County Facilities plan.

Location Description:

400 Boardman Avenue - Governmental Center 2nd Floor Commission Chambers

FACILITIES-CIP-21

Facilities

1074-21-CIP Harbor Master Building Foundation Repair

Project Information

Submitted By:	Barry Smith	Department:	Department of Public Services	Repairs to the Harbor Master Building foundation and the interior and 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. Per cost estimate provided by Machin Engineering in 2019.
Category:	Maintenance	Department Head:	Frank Dituri	
Fund Group:	Marina	Staff Priority:	Imperative (Must Do)	
Fund Detail:	Marina	Council Priority:		

1074-21-CIP-C Harbor Master Building Foundation Repair

Funding Sources:

		Previous	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	2026/2027	Total
MAR	Marina Fund	\$0	\$0	\$300,000	\$0	\$0	\$0	\$0	\$300,000
Project Total:									\$300,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$0	
Construction:	\$300,000	Cost Total: \$300,000
Annual Maint. Cost:		Project Difference: \$0
Maint. Year Start:		

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-CIP-21

Facilities

1231-21-CIP Kids Creek Pedestrian Trail Crossing Project

Project Information

Submitted By:	Tim Lodge	Department:	Engineering	Replace existing concrete box culverts with clear span pedestrian bridges in two locations on Kids Creek. One location is the old railroad grade between Division Street and Silver Drive and will be completed in conjunction with a paved path that is part of the Safe Routes to School Project. The second location is where Kids Creek crosses the abandoned portion of Elmwood Avenue between 11th Street and Silver Lake Road.
Category:	Capital	Department Head:	Tim Lodge	
Fund Group:	General	Staff Priority:	Essential (Should Do)	
Fund Detail:	Facilities	Council Priority:		

1231-21-CIP Kids Creek Pedestrian Trail Crossing Project

Funding Sources:

		Previous	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	2026/2027	Total
FSG	Federal / State Grant	\$0	\$325,000	\$0	\$0	\$0	\$0	\$0	\$325,000
Project Total:									\$325,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$0	
Construction:	\$325,000	Cost Total: \$325,000
Annual Maint. Cost:		Project Difference: \$0
Maint. Year Start:		

Service Impact:

Will replace two poor condition and obsolete culverts.

Project Justification:

Grant obtained by the Watershed Center Grand Traverse to the benefit of the City.

Location Description:

There are two locations. Location one the is the old railroad grade between Division Street and Silver Drive.
The second location is where Kids Creek crosses the abandoned portion of Elmwood Avenue between 11th Street and Silver Lake Road.

FACILITIES-CIP-21

Facilities

1114-21-CIP NOAA Culvert Replacement

Project Information

Submitted By: Tim Lodge
Category: Maintenance
Fund Group: General
Fund Detail: Facilities

Department: Engineering
Department Head: Tim Lodge
Staff Priority: Essential (Should Do)
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.

1114-21-CIP-C NOAA Culvert Replacement-C

Funding Sources:

		Previous	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	2026/2027	Total
FSG	Federal / State Grant	\$1,644,000	\$0	\$0	\$0	\$0	\$0	\$0	\$1,644,000
IN	Inkind	\$166,600	\$0	\$0	\$0	\$0	\$0	\$0	\$166,600
S	Sewer Fund	\$162,000	\$82,091	\$0	\$0	\$0	\$0	\$0	\$244,091
WAT	Water Fund	\$196,000	\$132,002	\$0	\$0	\$0	\$0	\$0	\$328,002

Project Total: \$2,382,693

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$166,600	
Construction:	\$2,150,000	Cost Total: \$2,316,600
Annual Maint. Cost:		Project Difference: \$66,093
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-CIP-21

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-CIP-21

Facilities

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

Project Information

Submitted By:	Jean Derenzy	Department:	Manager	Purchase and install backup generator on rooftop for emergency electricity.
Category:	Capital	Department Head:	Marty Colburn	
Fund Group:	Opera House	Staff Priority:	Essential (Should Do)	
Fund Detail:	Opera House	Council Priority:		

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

Funding Sources:

		Previous	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	2026/2027	Total
OPH	Opera House	\$60,000	\$50,000	\$0	\$0	\$0	\$0	\$0	\$110,000
Project Total:									\$110,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$0	
Construction:	\$55,000	Cost Total: \$55,000
Annual Maint. Cost:		Project Difference: \$55,000
Maint. Year Start:	2020	

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

FACILITIES-CIP-21

Facilities

1097-21-CIP Replace Boiler - Opera House

Project Information

Submitted By: Jean Derenzy	Department: Manager	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.
Category: Maintenance	Department Head: Marty Colburn	
Fund Group: Opera House	Staff Priority: Essential (Should Do)	
Fund Detail: Opera House	Council Priority:	

1097-21-CIP-C Replace Boiler - Opera House

Funding Sources:

		Previous	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	2026/2027	Total
TIF97	TIF 97	\$0	\$38,000	\$0	\$0	\$0	\$0	\$0	\$38,000
Project Total:									\$38,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$0	
Construction:	\$38,000	Cost Total: \$38,000
Annual Maint. Cost:		Project Difference: \$0
Maint. Year Start:	2021	

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 E Front Street

FACILITIES-CIP-21

Facilities

1227-21-CIP Replace Boiler at 520 W Front St

Project Information

Submitted By:	Penny Hill	Department:	Manager
Category:	Capital	Department Head:	Marty Colburn
Fund Group:	General	Staff Priority:	Imperative (Must Do)
Fund Detail:	Facilities	Council Priority:	

Per Grand Traverse County Facilities Department: The boiler at the Front st. MSU building is 15 years old and at the end of it's life cycle. Grand Traverse County has been having performance and reliability issues. This unit has always short cycled, we surmise it was miss sized for the area it heats so it runs for 30 sec. shuts down and restarts in this pattern so the cycles on it are way above the average. Parts are obsolete from RayPak so we are field engineering repairs. We will be able to keep this running hopefully for the rest of the 2020 spring heating season but highly recommend a replacement by fall of 2020. I have an engineering estimate of \$4,700 for bid spec. documents and initial estimate of \$45,000 for new boiler, circulation pumps, manifolds and associated piping.

1227-21-CIP-C Replace Boiler at 520 W Front St

Funding Sources:

		Previous	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	2026/2027	Total
GEN	General Fund	\$0	\$53,000	\$0	\$0	\$0	\$0	\$0	\$53,000
Project Total:									\$53,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$5,000	
Construction:	\$48,000	Cost Total: \$53,000
Annual Maint. Cost:		Project Difference: \$0
Maint. Year Start:		

Service Impact:

Maintain Reliable Heat to Building

Project Justification:

Per Grand Traverse County Facilities Dept, unit is at its end of life cycle and needs to be replaced.

Location Description:

520 W Front St

FACILITIES-CIP-21

Facilities

1101-21-CIP Replace Chiller Unit - Carnegie Building

Project Information

Submitted By:	Penny Hill	Department:	Manager	Per the 2018 Energy Assessment through Michigan Energy Options and SEEDS, it is recommended that the current Chiller rooftop unit is approaching the end of its useful life, and should be replaced with a new, higher efficiency unit.
Category:	Maintenance	Department Head:	Marty Colburn	
Fund Group:	General	Staff Priority:	Essential (Should Do)	
Fund Detail:	General Government	Council Priority:		

1101-21-CIP-C Replace Chiller Unit - Carnegie Bldg

Funding Sources:

		Previous	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	2026/2027	Total
GEN	General Fund	\$0	\$0	\$0	\$0	\$0	\$36,500	\$0	\$36,500
Project Total:									\$36,500

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$0	
Construction:	\$36,200	Cost Total: \$36,200
Annual Maint. Cost:		Project Difference: \$300
Maint. Year Start:	2020	

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

FACILITIES-CIP-21

Facilities

1096-21-CIP Replace Packaged A/C Rooftop Units - Opera House

Project Information

Submitted By: Jean Derenzy	Department: Manager	Per the 2018 Energy Assessment through Michigan Energy Options and SEEDS, it is recommended that the five rooftop A/C units are approaching the end of their useful lives, and should be replaced with new, high efficiency units
Category: Maintenance	Department Head: Marty Colburn	
Fund Group: Opera House	Staff Priority: Essential (Should Do)	
Fund Detail: Opera House	Council Priority:	

1096-21-CIP-C Replace Packaged A/C Rooftop Units - Opera House

Funding Sources:

		Previous	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	2026/2027	Total
OPH	Opera House	\$15,000	\$20,000	\$0	\$0	\$0	\$0	\$0	\$35,000
Project Total:									\$35,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$0	
Construction:	\$35,000	Cost Total: \$35,000
Annual Maint. Cost:		Project Difference: \$0
Maint. Year Start:	2020	

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

Six Year Capital Improvement Program

FACILITIES-CIP-21

Facilities

1024-17-CIP Replace/Upgrade AudioVisual Equipment at Gov Ctr

Project Information

Submitted By: Penny Hill	Department: Manager	Replace/Upgrade the audiovisual equipment that allows for the live streaming, recording and archiving in the Commission Chambers. Grand Traverse County plans, with City participation, to upgrade the Commission Chambers including IT infrastructure and furniture, estimated by the County to cost approximately \$100k, with the City's share to be approximately \$27k.
Category: Maintenance	Department Head: Marty Colburn	
Fund Group: General	Staff Priority: Essential (Should Do)	
Fund Detail: Facilities	Council Priority: Essential (Should Do)	

1024-17-CIP

Funding Sources:

Previous	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	2026/2027	Total
\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Project Total:							\$0

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$0	
Construction:	\$27,000	Cost Total: \$27,000
Annual Maint. Cost:		Project Difference: -\$27,000
Maint. Year Start:		

1024-17-CIP-C Replace/Upgrade AudioVisual Equipment at Gov Ctr

Funding Sources:

	Previous	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	2026/2027	Total
LFG Local / Foundation Grant	\$38,700	\$0	\$0	\$0	\$0	\$0	\$0	\$38,700
P Private	\$31,000	\$0	\$0	\$0	\$0	\$0	\$0	\$31,000
Project Total:								\$69,700

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$0	
Construction:	\$69,700	Cost Total: \$69,700
Annual Maint. Cost:		Project Difference: \$0
Maint. Year Start:		



FACILITIES-CIP-21

Facilities

Service Impact:

Improve efficiency and reliability of IT services

Project Justification:

Improve capabilities for hosting remote meetings, while retaining opportunities for public participation.

Location Description:

400 Boardman Avenue - Governmental Center 2nd Floor Commission Chambers

Six Year Capital Improvement Program

FACILITIES-CIP-21

Facilities

871-21-CIP **Senior Center building renovation**

Project Information

Submitted By:	Tim Lodge	Department:	Engineering
Category:	Visionary	Department Head:	Tim Lodge
Fund Group:	Senior Center Fund	Staff Priority:	Important (Could Do)
Fund Detail:	Senior Center	Council Priority:	

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 15,000 sft was presented to county/city boards. The County is now leading discussions to consider alternate site locations. 801 E. Front is being held for the Senior Center until further notice.

871-21-CIP-C Senior Center building renovation (+Privat - Cost

Funding Sources:

		Previous	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	2026/2027	Total
LFG	Local / Foundation Grant	\$250,000	\$0	\$0	\$0	\$0	\$0	\$0	\$250,000
P	Private	\$0	\$0	\$3,327,000	\$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

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$320,000	
Construction:	\$3,680,000	Cost Total: \$4,000,000
Annual Maint. Cost:		Project Difference: \$0
Maint. Year Start:		

Service Impact:

None.

Project Justification:

Building upgrade.



FACILITIES-CIP-21

Facilities

Location Description:

801 E. Front Street

FACILITIES-CIP-21

Facilities

168-21-CIP Union Street Dam Improvements

Project Information

Submitted By:	Tim Lodge	Department:	Engineering
Category:	Visionary	Department Head:	Frank Dituri
Fund Group:	General	Staff Priority:	Essential (Should Do)
Fund Detail:	Facilities	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 dam. Below the dam, 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. The project includes connecting walks to adjacent travel corridors, sidewalks & boardwalks ultimately increasing useable park space by more than 30% along with other park amenities shown in the attached report. Approved by the Planning Commission for consistency with Master Plan on 1/3/17.

168-21-CIP-C Union Street Dam Improvements- Cost

Funding Sources:

		Previous	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	2026/2027	Total
FSG	Federal / State Grant	\$0	\$9,650,000	\$9,650,000	\$0	\$0	\$0	\$0	\$19,300,000
WAT	Water Fund	\$0	\$150,000	\$150,000	\$0	\$0	\$0	\$0	\$300,000
Project Total:									\$19,600,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$0	
Construction:	\$19,300,000	Cost Total: \$19,300,000
Annual Maint. Cost:		Project Difference: \$300,000
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.

Six Year Capital Improvement Plan

All Projects Submitted for 2021-2022

Budget Year 2021-2022 by Program Name

Bold - Indicates projects occurring in the first FY of the plan . + - Indicates projects with multiple funding										<u>Overall Programming Cost</u>		
Project ID	Cat	Previous	Fiscal Year 2021-2022	Fiscal Year 2022-2023	Fiscal Year 2023-2024	Fiscal Year 2024-2025	Fiscal Year 2025-2026	Fiscal Year 2026-2027	Project Cost	City Funds	Non-City Funds	
Fire												
977-21-CIP	Fire detection and suppression system installation	M	\$0	\$131,250	\$89,250	\$0	\$0	\$0	\$0	\$220,500	\$220,500	\$0
+ 1221-21-CIP	SCBA Replacement Project - Fire Department	M	\$0	\$0	\$353,000	\$0	\$0	\$0	\$0	\$353,000	\$24,000	\$329,000
Total Fire			\$131,250	\$442,250	\$0	\$0	\$0	\$0	\$573,500	\$244,500	\$329,000	



Six Year Capital Improvement Program

TCFD-CIP-21

Fire

977-21-CIP **Fire detection and suppression system installation**

Project Information

Submitted By: Jim Tuller	Department: Fire	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.
Category: Maintenance	Department Head: Jim Tuller	
Fund Group: General	Staff Priority: Imperative (Must Do)	
Fund Detail: Fire	Council Priority:	

977-21-CIP-C Fire detection and suppression system inst - Cost

Funding Sources:

		Previous	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	2026/2027	Total
GEN	General Fund	\$0	\$131,250	\$89,250	\$0	\$0	\$0	\$0	\$220,500
Project Total:									\$220,500

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$0	
Construction:	\$220,500	Cost Total: \$220,500
Annual Maint. Cost:	\$1,000	Project Difference: \$0
Maint. Year Start:	2023	

Service Impact:

Initial performance testing included in cost of installation.
 Cost of annual system performance test to ensure compliance with fire code estimated to be less than \$500.00/year for each Fire Station.

Project Justification:

Protection of personnel, property and equipment.

Location Description:

TCFD Station 1, 500 West Front Street
 TCFD Station 2, 1313 E. 8th Street

TCFD-CIP-21

Fire

1221-21-CIP SCBA Replacement Project - Fire Department

Project Information

Submitted By: Jim Tuller
Category: Maintenance
Fund Group: General
Fund Detail: Fire

Department: Fire
Department Head: Jim Tuller
Staff Priority: Imperative (Must Do)
Council Priority:

Planned replacement of 32 SCBA (Self-Contained Breathing Apparatus) for use at the Fire Department. Use of CIP funds will be necessary during calendar year 2023 at which time current SCBA's in use will be 15 years old and will therefore be considered expired/obsolete and not available for use. During calendar year 2020, the Fire Department participated in a regional Federal AFG (Assistance to Firefighters Grant) process with 3 other fire departments located within Grand Traverse County and received notice of denial on October 28, 2020. Federal AFG process period begins in early March of calendar year and concludes early April of calendar year. Awards are made throughout late summer into the fall of the calendar year. The Fire Department intends to apply in March 2021 for an AFG to replace existing SCBAs as was carried out in April of 2020. Federal AFG program for equipment replacement requires municipality to pay 10% of total project for their specific fire department project. 10% of recent AFG attempt (\$24,000) was secured in current 2020-2021 Fire Department Budget in Capital Equipment account 101-335-977.01 for use towards grant if awarded. If unsuccessful in calendar year 2021, the Fire Department will re-submit for another AFG program for SCBA replacement in calendar years 2022 and 2023. Estimated cost for project in 2023 funds is \$329,000.00. 32 SCBA packs, 32 spare air bottles, 32 face masks.

1221-21-CIP-C SCBA Replacement Project - Fire Department

Funding Sources:

		Previous	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	2026/2027	Total
FSG	Federal / State Grant	\$0	\$0	\$329,000	\$0	\$0	\$0	\$0	\$329,000
GEN	General Fund	\$0	\$0	\$24,000	\$0	\$0	\$0	\$0	\$24,000
Project Total:									\$353,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$0	
Construction:	\$353,000	Cost Total: \$353,000
Annual Maint. Cost:		Project Difference: \$0
Maint. Year Start:		

Service Impact:



TCFD-CIP-21

Fire

SCBA replacement project covers replacement of current SCBAs in service along with an NFPA approved face/piece mask and 1 spare SCBA bottle per pack. Number of SCBAs is based upon number of riding positions in various apparatus and other emergency response units as present.

Project Justification:

Planning for possible denial of future AFG requests to replace in service SCBAs and spare air bottles to permit emergency operations in IDLH (Immediately Dangerous to Life and Health) atmospheres per MiOSHA and Federal OSHA requirements. along with guidelines and industry best practices regarding reduction in cancer case occurrences in firefighters.

Location Description:

TCFD Station 01 - 500 West Front Street

TCFD Station 02 - 1313 East 8th Street

Six Year Capital Improvement Plan

All Projects Submitted for 2021-2022

Budget Year 2021-2022 by Program Name

Bold - Indicates projects occurring in the first FY of the plan . + - Indicates projects with multiple funding										<u>Overall Programming Cost</u>		
Project ID	Cat	Previous	Fiscal Year 2021-2022	Fiscal Year 2022-2023	Fiscal Year 2023-2024	Fiscal Year 2024-2025	Fiscal Year 2025-2026	Fiscal Year 2026-2027	Project Cost	City Funds	Non-City Funds	
Garage												
126-21-CIP	Annual Vehicle and Equipment Replacement	C	\$3,351,300	\$1,359,800	\$1,294,976	\$2,637,300	\$2,210,926	\$1,463,800	\$1,816,300	\$0	\$14,134,402	\$0
1166-21-CIP	Hoist Replacement	C	\$0	\$0	\$0	\$220,000	\$0	\$0	\$0	\$220,000	\$220,000	\$0
1165-21-CIP	Old Salt Barn Repairs	M	\$0	\$55,000	\$0	\$0	\$0	\$0	\$0	\$55,000	\$55,000	\$0
Total Garage			\$1,414,800	\$1,294,976	\$2,857,300	\$2,210,926	\$1,463,800	\$1,816,300	\$275,000	\$14,409,402	\$0	

GARAGE-CIP-21

Garage

126-21-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 machinery to replace existing assets. These items to be replaced on an annual basis are based on cost effectiveness of ownership. This allocation will not replace all vehicles and equipment
Category: Capital	Department Head: Frank Dituri	
Fund Group: Garage	Staff Priority: Imperative (Must Do)	
Fund Detail: Garage	Council Priority:	

126-21-CIP-C Annual Vehicle and Equipment Replacement - Cost

Funding Sources:

		Previous	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	2026/2027	Total
GAR	Garage Fund	\$3,351,300	\$1,359,800	\$1,294,976	\$2,637,300	\$2,210,926	\$1,463,800	\$1,816,300	\$14,134,402
Project Total:									\$14,134,402

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$0	
Construction:	\$0	
Annual Maint. Cost:		Cost Total: \$0
Maint. Year Start:		Project Difference: \$14,134,402

Service Impact:

continued ability to carryout current level of service

Project Justification:

work force equipment needs

Location Description:

City-wide



Six Year Capital Improvement Program

GARAGE-CIP-21

Garage

1166-21-CIP **Hoist Replacement**

Project Information

Submitted By:	Dave Courtad	Department:	Department of Public Services	Replacement of in ground Hoists, repair parts have become obsolete
Category:	Capital	Department Head:	Frank Dituri	
Fund Group:	Garage	Staff Priority:	Essential (Should Do)	
Fund Detail:	Garage	Council Priority:		

1166-21-CIP-C

Funding Sources:

		Previous	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	2026/2027	Total
GAR	Garage Fund	\$0	\$0	\$0	\$220,000	\$0	\$0	\$0	\$220,000
Project Total:									\$220,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$20,000	
Construction:	\$200,000	Cost Total: \$220,000
Annual Maint. Cost:	\$1,000	Project Difference: \$0
Maint. Year Start:	2024	

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



Six Year Capital Improvement Program

GARAGE-CIP-21

Garage

1165-21-CIP **Old Salt Barn Repairs**

Project Information

Submitted By:	Dave Courtad	Department:	Department of Public Services	Re roof Barn and add a lean too.
Category:	Maintenance	Department Head:	Frank Dituri	
Fund Group:	Garage	Staff Priority:	Imperative (Must Do)	
Fund Detail:	Garage	Council Priority:		

1165-21-CIP-C Old Salt Barn Repair

Funding Sources:

		Previous	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	2026/2027	Total
GAR	Garage Fund	\$0	\$55,000	\$0	\$0	\$0	\$0	\$0	\$55,000
Project Total:									\$55,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$0	
Construction:	\$55,000	Cost Total: \$55,000
Annual Maint. Cost:		Project Difference: \$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

Six Year Capital Improvement Plan

All Projects Submitted for 2021-2022

Budget Year 2021-2022 by Program Name

Bold - Indicates projects occurring in the first FY of the plan . + - Indicates projects with multiple funding										Overall Programming Cost		
Project ID	Cat	Previous	Fiscal Year 2021-2022	Fiscal Year 2022-2023	Fiscal Year 2023-2024	Fiscal Year 2024-2025	Fiscal Year 2025-2026	Fiscal Year 2026-2027	Project Cost	City Funds	Non-City Funds	
General Government												
+ 784-21-CIP	Annual City Computers	M	\$0	\$38,000	\$30,000	\$30,000	\$30,000	\$30,000	\$30,000	\$30,000	\$188,000	\$0
4-21-CIP	City Document Management System	V	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000	\$0	\$0	\$25,000	\$125,000	\$0
1220-21-CIP	GIS & SQL Upgrade	C	\$0	\$50,000	\$0	\$0	\$0	\$0	\$0	\$50,000	\$50,000	\$0
1029-21-CIP	Master Plan Vision and Re-Write_PlanningCommission	V	\$0	\$20,000	\$80,000	\$0	\$0	\$0	\$0	\$100,000	\$100,000	\$0
1111-21-CIP	Network Upgrade & Redesign - City Portion	M	\$55,200	\$27,600	\$27,600	\$27,600	\$0	\$0	\$0	\$138,000	\$138,000	\$0
+ 1104-21-CIP	New Utility Billing Software	M	\$116,000	\$0	\$0	\$0	\$0	\$0	\$0	\$116,000	\$116,000	\$0
1159-21-CIP	Snowmelt (Old Town)	C	\$0	\$0	\$0	\$0	\$0	\$1,607,064	\$0	\$1,607,064	\$1,607,064	\$0
Total General Government			\$160,600	\$162,600	\$82,600	\$55,000	\$1,637,064	\$30,000	\$2,066,064	\$2,324,064	\$0	



Six Year Capital Improvement Program

GEN GOVT-CIP-21

General Government

784-21-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:	General Government	Council Priority:		

784-21-CIP-C Annual City Computers - Cost

Funding Sources:

		Previous	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	2026/2027	Total
GEN	General Fund	\$0	\$30,000	\$30,000	\$30,000	\$30,000	\$30,000	\$30,000	\$180,000
WAT	Water Fund	\$0	\$8,000	\$0	\$0	\$0	\$0	\$0	\$8,000
Project Total:									\$188,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$0	
Construction:	\$30,000	Cost Total: \$30,000
Annual Maint. Cost:		Project Difference: \$158,000
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-CIP-21

General Government

4-21-CIP

City Document Management System

Project Information

Submitted By: Penny Hill
Category: Visionary
Fund Group: General
Fund Detail: General Government

Department: Manager
Department Head: Marty Colburn
Staff Priority: Essential (Should Do)
Council Priority: Essential (Should Do)

Document Imaging various City records. The goal of this project is to reduce storage of paper documents and shorten document retrieval time. These documents would then be searchable by City Staff with inquiry access.

4-21-CIP-C City Document Management System - Cost

Funding Sources:

		Previous	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	2026/2027	Total
GEN	General Fund	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000	\$0	\$0	\$125,000
Project Total:									\$125,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$0	
Construction:	\$25,000	Cost Total: \$25,000
Annual Maint. Cost:	\$9,400	Project Difference: \$100,000
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

GEN GOVT-CIP-21

General Government

1220-21-CIP GIS & SQL Upgrade

Project Information

Submitted By: Jerry Swanson
Category: Capital
Fund Group: General
Fund Detail: General Government

Department: GIS
Department Head: Marty Colburn
Staff Priority: Imperative (Must Do)
Council Priority:

Traverse City Geographic Information Systems (TCGIS) utilizes various IT systems to store, manage, display and serve GIS data both internally and to the public. The current architecture was deployed in 2015 and TCGIS has begun to reach the lifespan of this system. Certain software updates and capabilities are being limited due to the licensing of the current SQL Server (version 2012.) In order to scale the operations and increase efficiency, the TCGIS backend system needs an upgrade and migration. This entails deploying a new GIS Server and SQL Server. As part of this project, databases will be migrated and software will be configured in the new server environment. Working with Grand Traverse County IT and GIS Consultants, the new system will be designed to meet current and future needs. This approach will be scalable to allow for the system to grow as the use of GIS expands within the City. The project specifically includes deploying two new servers to accomplish this task.

1220-21-CIP-C GIS & SQL Upgrade

Funding Sources:

		Previous	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	2026/2027	Total
GEN	General Fund	\$0	\$50,000	\$0	\$0	\$0	\$0	\$0	\$50,000
Project Total:									\$50,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$0	
Construction:	\$50,000	Cost Total: \$50,000
Annual Maint. Cost:		Project Difference: \$0
Maint. Year Start:		

Service Impact:

Currently, the city pays an annual software maintenance fee to the GIS vendor Esri in the amount of \$12,500. This Enterprise License Agreement (ELA) is split 50/50 with Traverse City Light & Power. The ELA allows for no additional cost during the project of deploying and upgrading the GIS software. In addition, the City currently holds a software license with Microsoft for the SQL Server, the cost of upgrading and maintaining this license will be a part of the capital for this project.

Project Justification:



GEN GOVT-CIP-21

General Government

The Enterprise GIS is a critical function of government that allows for the storage and maintenance of critical data layers including Tax Parcels, Centerlines, Utilities, Aerial Photography, Zoning, and other core data sets. Keeping the system up to date and current allows for increased efficiency, improved security, and allows for data driven decision making to occur.

Location Description:

400 Boardman Ave for City wide use

GEN GOVT-CIP-21

General Government

1029-21-CIP **Master Plan Vision and Re-Write_PlanningCommission**

Project Information

Submitted By: Missy Luick **Department:** Planning and Zoning
Category: Visionary **Department Head:** Russ Soyring
Fund Group: General **Staff Priority:** Imperative (Must Do)
Fund Detail: General Government **Council Priority:**

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

1029-21-CIP-C Master Plan Vision and Re-Write_PlanningCommission

Funding Sources:

		Previous	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	2026/2027	Total
GEN	General Fund	\$0	\$20,000	\$80,000	\$0	\$0	\$0	\$0	\$100,000
Project Total:									\$100,000

COST DETAIL:

Study:	\$100,000	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$0	
Construction:	\$0	
Annual Maint. Cost:		Cost Total: \$100,000
Maint. Year Start:		Project Difference: \$0

Service Impact:

None.

Project Justification:

To make sure the Master Plan reflects the communities values

Location Description:

City-wide



GEN GOVT-CIP-21

General Government

1111-21-CIP Network Upgrade & Redesign - City Portion

Project Information

Submitted By:	Penny Hill	Department:	Manager	City portion of City/County Network upgrade & redesign including Core/firewall, Distribution, Network Access Controls, and cabling upgrades. This project was completed in 2018, but has a 5 year payment plan which will end after the FY 2023/2024 payment.
Category:	Maintenance	Department Head:	Marty Colburn	
Fund Group:	General	Staff Priority:	Imperative (Must Do)	
Fund Detail:	General Government	Council Priority:		

1111-21-CIP-C Network Upgrade & Redesign - City Portion

Funding Sources:

		Previous	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	2026/2027	Total
GEN	General Fund	\$55,200	\$27,600	\$27,600	\$27,600	\$0	\$0	\$0	\$138,000
Project Total:									\$138,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$0	
Construction:	\$138,000	Cost Total: \$138,000
Annual Maint. Cost:		Project Difference: \$0
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



Six Year Capital Improvement Program

GEN GOVT-CIP-21

General Government

1104-21-CIP New Utility Billing Software

Project Information

Submitted By: Penny Hill	Department: Manager	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.
Category: Maintenance	Department Head: Marty Colburn	
Fund Group: General	Staff Priority: Essential (Should Do)	
Fund Detail: General Government	Council Priority:	

1104-21-CIP-C New Utility Billing Software

Funding Sources:

		Previous	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	2026/2027	Total
S	Sewer Fund	\$58,000	\$0	\$0	\$0	\$0	\$0	\$0	\$58,000
WAT	Water Fund	\$58,000	\$0	\$0	\$0	\$0	\$0	\$0	\$58,000
Project Total:									\$116,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$0	
Construction:	\$116,000	Cost Total: \$116,000
Annual Maint. Cost:	\$6,600	Project Difference: \$0
Maint. Year Start:	2020	

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-CIP-21

General Government

1159-21-CIP **Snowmelt (Old Town)**

Project Information

Submitted By:	Jean Derenzy	Department:	Downtown Development	Snowmelt system for sidewalks along Eight, Union, Cass and Lake Avenue. This project should be coordinated with the Union Street Streetscapes (1197-21-CIP).
Category:	Capital	Department Head:	Jean Derenzy	
Fund Group:	Tax Increment Financing	Staff Priority:	Essential (Should Do)	
Fund Detail:	TIF 2	Council Priority:		

1159-21-CIP-C Snowmelt (Old Town)

Funding Sources:

		Previous	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	2026/2027	Total
TIF2	TIF 2	\$0	\$0	\$0	\$0	\$0	\$1,607,064	\$0	\$1,607,064
Project Total:									\$1,607,064

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$0	
Construction:	\$1,607,064	Cost Total: \$1,607,064
Annual Maint. Cost:		Project Difference: \$0
Maint. Year Start:		

Service Impact:

This project would reduce the need for snow removal on sidewalks along these streets and allow for increased pedestrian access. The DDA will work with property owners on the boiler system, but ultimately responsibility for management and maintenance will rest with the property owners.

Project Justification:

This project is part of an overall plan to incorporate snow melt within the two downtown TIF Districts. The snowmelt system will allow for greater pedestrian access to retail merchants in each TIF District

Location Description:

Eighth, Union, Cass and Lake Streets in the Old Town TIF District, as well as near Boardman Lake.

Six Year Capital Improvement Plan

All Projects Submitted for 2021-2022

Budget Year 2021-2022 by Program Name

Bold - Indicates projects occurring in the first FY of the plan . + - Indicates projects with multiple funding										Overall Programming Cost		
Project ID	Cat	Previous	Fiscal Year 2021-2022	Fiscal Year 2022-2023	Fiscal Year 2023-2024	Fiscal Year 2024-2025	Fiscal Year 2025-2026	Fiscal Year 2026-2027	Project Cost	City Funds	Non-City Funds	
Light and Power												
1041-21-CIP	ALLEY BETWEEN STATE AND FRONT STREET	C	\$0	\$0	\$375,000	\$375,000	\$0	\$0	\$750,000	\$1,500,000	\$1,500,000	\$0
1039-21-CIP	BUILDING D REHABILITATION	C	\$0	\$25,000	\$250,000	\$0	\$0	\$0	\$0	\$275,000	\$275,000	\$0
1043-21-CIP	EAST FRONT STREET STREETScape LIGHTING	C	\$0	\$0	\$105,000	\$105,000	\$0	\$0	\$0	\$210,000	\$210,000	\$0
+ 1223-21-CIP	ELECTRIC VEHICLE CHARGING STATION NETWORK (NEW)	C	\$0	\$394,800	\$0	\$0	\$0	\$0	\$0	\$394,800	\$394,800	\$0
808-21-CIP	EXTENSIONS AND NEW SERVICES	C	\$0	\$700,000	\$750,000	\$800,000	\$850,000	\$900,000	\$950,000	\$4,950,000	\$4,950,000	\$0
1030-21-CIP	FIBER TO THE PREMISE	C	\$4,050,000	\$4,050,000	\$4,050,000	\$4,050,000	\$0	\$0	\$0	\$16,200,000	\$16,200,000	\$0
1038-21-CIP	GRAND TRAVERSE SUBSTATION UPGRADES (CARRYOVER)	C	\$693,000	\$500,000	\$0	\$0	\$0	\$0	\$0	\$1,193,000	\$1,193,000	\$0
1005-21-CIP	HARTMAN ROAD OVERHEAD TIE	C	\$0	\$0	\$0	\$0	\$400,000	\$600,000	\$0	\$1,000,000	\$1,000,000	\$0
824-21-CIP	HASTINGS SERVICE CENTER FACILITY IMPROVEMENTS	C	\$0	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$0	\$300,000	\$250,000	\$0
811-21-CIP	OVERHEAD LINE IMPROVEMENTS	C	\$0	\$450,000	\$500,000	\$550,000	\$600,000	\$650,000	\$700,000	\$3,450,000	\$3,450,000	\$0
1179-21-CIP	REBUILD CIRCUIT - CD-24 - SECTIONALIZING	C	\$0	\$0	\$0	\$0	\$250,000	\$0	\$0	\$250,000	\$250,000	\$0
1125-21-CIP	REBUILD CIRCUIT - CD-31/SS-30 - SMART GRID	C	\$0	\$0	\$0	\$0	\$200,000	\$0	\$0	\$200,000	\$200,000	\$0
1116-21-CIP	REBUILD CIRCUIT - GRANDVIEW PKWY - PRIMARY	C	\$0	\$0	\$0	\$250,000	\$0	\$700,000	\$700,000	\$1,650,000	\$1,650,000	\$0
1124-21-CIP	REBUILD CIRCUIT - HL-33 - LOCUST STREET	C	\$0	\$0	\$0	\$0	\$0	\$400,000	\$0	\$400,000	\$400,000	\$0
1117-21-CIP	REBUILD CIRCUIT - HL-33 - WADSWORTH ST	C	\$0	\$0	\$0	\$0	\$0	\$0	\$85,000	\$85,000	\$85,000	\$0
1180-21-CIP	REBUILD CIRCUIT - PC 32 - ASPEN DRIVE	C	\$0	\$0	\$0	\$0	\$0	\$0	\$250,000	\$250,000	\$250,000	\$0
1127-21-CIP	REBUILD CIRCUIT - PC-22 - PARSONS RD/MUNSON AVE	C	\$0	\$0	\$113,000	\$0	\$0	\$0	\$0	\$113,000	\$113,000	\$0
1121-21-CIP	REBUILD CIRCUIT - PC-22 - MUNSON AVE - AVE B TO E	C	\$0	\$0	\$0	\$0	\$300,000	\$0	\$0	\$300,000	\$300,000	\$0
1118-21-CIP	REBUILD CIRCUIT - PC-22 - MUNSON, DAVIS TO 3 MILE	C	\$0	\$0	\$0	\$0	\$500,000	\$0	\$0	\$500,000	\$500,000	\$0
1122-21-CIP	REBUILD CIRCUIT - PC-22 - TOM'S MARKET EAST	C	\$0	\$0	\$0	\$0	\$0	\$150,000	\$0	\$150,000	\$150,000	\$0

Six Year Capital Improvement Plan

All Projects Submitted for 2021-2022

Budget Year 2021-2022 by Program Name

Bold - Indicates projects occurring in the first FY of the plan . + - Indicates projects with multiple funding										Overall Programming Cost		
Project ID	Cat	Previous	Fiscal Year 2021-2022	Fiscal Year 2022-2023	Fiscal Year 2023-2024	Fiscal Year 2024-2025	Fiscal Year 2025-2026	Fiscal Year 2026-2027	Project Cost	City Funds	Non-City Funds	
Light and Power												
809-21-CIP	REBUILD CIRCUIT - PC-23 - MITCHELL CREEK	C	\$0	\$0	\$0	\$125,000	\$0	\$0	\$0	\$125,000	\$125,000	\$0
1119-21-CIP	REBUILD CIRCUIT - PC-23 - MUNSON AVENUE	C	\$0	\$0	\$0	\$0	\$400,000	\$0	\$0	\$400,000	\$400,000	\$0
1123-21-CIP	REBUILD CIRCUIT - SS-31 - CRESTWOOD	C	\$0	\$0	\$0	\$0	\$0	\$250,000	\$0	\$250,000	\$250,000	\$0
1040-21-CIP	SCADA SYSTEM UPGRADE	C	\$0	\$0	\$250,000	\$0	\$0	\$0	\$0	\$250,000	\$250,000	\$0
1224-21-CIP	SECURITY CAMERA NETWORK (NEW)	C	\$0	\$0	\$100,000	\$0	\$0	\$0	\$0	\$100,000	\$100,000	\$0
1177-21-CIP	SUBSTATION IMPROVEMENT - DISTRIBUTION RELAY	C	\$0	\$0	\$0	\$0	\$0	\$0	\$250,000	\$250,000	\$250,000	\$0
1178-21-CIP	SUBSTATION IMPROVEMENT - TRANSMISSION RELAY	C	\$0	\$0	\$0	\$0	\$0	\$0	\$600,000	\$600,000	\$600,000	\$0
819-21-CIP	SUBSTATION TRANSFORMER UPGRADES	C	\$0	\$0	\$0	\$1,525,000	\$0	\$0	\$0	\$1,525,000	\$1,525,000	\$0
820-21-CIP	TRANSMISSION LINE RECONSTRUCTION	C	\$0	\$1,500,000	\$1,500,000	\$0	\$0	\$0	\$1,045,000	\$4,045,000	\$4,045,000	\$0
1109-21-CIP	UNDERGROUND LINE IMPROVEMENTS	C	\$0	\$375,000	\$425,000	\$475,000	\$525,000	\$575,000	\$625,000	\$3,000,000	\$3,000,000	\$0
829-21-CIP	UPGRADE FRONT ST LIGHTING CIRCUITS & RECEPTACLES	C	\$0	\$0	\$0	\$0	\$0	\$0	\$1,340,000	\$1,340,000	\$1,340,000	\$0
1110-21-CIP	UTILITY BILLING SOFTWARE	C	\$0	\$350,000	\$0	\$0	\$0	\$0	\$0	\$350,000	\$350,000	\$0
Total Light and Power			\$8,394,800	\$8,468,000	\$8,305,000	\$4,075,000	\$4,275,000	\$7,295,000	\$45,605,800	\$45,555,800	\$0	



Six Year Capital Improvement Program

TCLP-CIP-21

Light and Power

1041-21-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 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.
Category:	Capital	Department Head:	Tim Arends	
Fund Group:	Light and Power	Staff Priority:	Essential (Should Do)	
Fund Detail:	Light and Power	Council Priority:		

The project is eligible for Brownfield Reimbursement.

1041-21-CIP-C ALLEY BETWEEN STATE AND FRONT STREET

Funding Sources:

		Previous	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	2026/2027	Total
LAP	Light and Power	\$0	\$0	\$375,000	\$375,000	\$0	\$0	\$750,000	\$1,500,000
Project Total:									\$1,500,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$0	
Construction:	\$1,500,000	Cost Total: \$1,500,000
Annual Maint. Cost:		Project Difference: \$0
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-CIP-21

Light and Power

1039-21-CIP

BUILDING D REHABILITATION

Project Information

Submitted By: Karla Myers-Beman

Department: Light and Power

Initially begin with architectural drawings accumulating ideas for the building to maximize the potential use of the building for the utility's business operations.

Category: Capital

Department Head: Tim Arends

Fund Group: Light and Power

Staff Priority: Essential (Should Do)

Fund Detail: Light and Power

Council Priority:

1039-21-CIP-C

BUILDING D REHABILITATION

Funding Sources:

		Previous	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	2026/2027	Total
LAP	Light and Power	\$0	\$25,000	\$250,000	\$0	\$0	\$0	\$0	\$275,000
Project Total:									\$275,000

COST DETAIL:

Study: \$0

Land Acquisition / ROW: \$0

Engineering / Design: \$0

Construction: \$275,000

Annual Maint. Cost:

Maint. Year Start:

Cost Total: \$275,000

Project Difference: \$0

Service Impact:

Improve the inventory cycle process

Project Justification:

Internal analysis

Location Description:

1125 Hastings Street



TCLP-CIP-21

Light and Power

1043-21-CIP

EAST FRONT STREET STREETSCAPE LIGHTING

Project Information

Submitted By: Karla Myers-Beman **Department:** Light and Power Service
Category: Capital **Department Head:** Tim Arends
Fund Group: Light and Power **Staff Priority:** Essential (Should Do)
Fund Detail: Light and Power **Council Priority:**

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.

The lighting fixture component will be reimbursed by the City in the amount of \$89,000 and is accounted for in Capital Project 717-21-CIP.

1043-21-CIP-C

EAST FRONT STREET STREETSCAPE LIGHTING

Funding Sources:

		Previous	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	2026/2027	Total
LAP	Light and Power	\$0	\$0	\$105,000	\$105,000	\$0	\$0	\$0	\$210,000
Project Total:									\$210,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$0	
Construction:	\$210,000	Cost Total: \$210,000
Annual Maint. Cost:		Project Difference: \$0
Maint. Year Start:		

Service Impact:

Joint Project

Project Justification:

Joint Project

Location Description:

East Front Street between Boardman Avenue and Holiday Inn.



TCLP-CIP-21

Light and Power

1223-21-CIP

ELECTRIC VEHICLE CHARGING STATION NETWORK (NEW)

Project Information

Submitted By:	Karla Myers-Beman	Department:	Light and Power Service	Install electric vehicle charging stations strategically throughout the service area. Electric vehicle charging stations installed will include Level 2 and Fast Chargers. TCL&P will be applying for State grant funds to be used towards this project. Grant funds are estimated at approximately \$270,000.
Category:	Capital	Department Head:	Tim Arends	
Fund Group:	Light and Power	Staff Priority:	Imperative (Must Do)	
Fund Detail:	Light and Power	Council Priority:		

1223-21-CIP-C

ELECTRIC VEHICLE CHARGING STATION NETWORK (NEW)

Funding Sources:

		Previous	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	2026/2027	Total
FSG	Federal / State Grant	\$0	\$274,800	\$0	\$0	\$0	\$0	\$0	\$274,800
LAP	Light and Power	\$0	\$120,000	\$0	\$0	\$0	\$0	\$0	\$120,000
Project Total:									\$394,800

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$0	
Construction:	\$394,800	Cost Total: \$394,800
Annual Maint. Cost:		Project Difference: \$0
Maint. Year Start:		

Service Impact:

Charging Station Network depending on the company will come with warranties on the charging stations limiting the operation and maintenance cost in the first few years.

Project Justification:

New revenue stream for the utility.

Location Description:

Throughout the service area



TCLP-CIP-21

Light and Power

808-21-CIP

EXTENSIONS AND NEW SERVICES

Project Information

Submitted By:	Karla Myers-Beman	Department:	Light and Power Service	Construction/replacements of services involving the use of wire, poles, meters, cabinets and transformers.
Category:	Capital	Department Head:	Tim Arends	
Fund Group:	Light and Power	Staff Priority:	Imperative (Must Do)	
Fund Detail:	Distribution	Council Priority:		

808-21-CIP-C

EXTENSIONS AND NEW SERVICES

Funding Sources:

		Previous	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	2026/2027	Total
LAP	Light and Power	\$0	\$700,000	\$750,000	\$800,000	\$850,000	\$900,000	\$950,000	\$4,950,000
Project Total:									\$4,950,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$0	
Construction:	\$4,950,000	Cost Total: \$4,950,000
Annual Maint. Cost:		Project Difference: \$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-CIP-21

Light and Power

1030-21-CIP

FIBER TO THE PREMISE

Project Information

Submitted By: Karla Myers-Beman **Department:** Light and Power Service Deployment of a fiber optic network.
Category: Capital **Department Head:** Tim Arends
Fund Group: Light and Power **Staff Priority:** Essential (Should Do)
Fund Detail: Light and Power **Council Priority:**

1030-21-CIP-C

FIBER TO THE PREMISE

Funding Sources:

		Previous	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	2026/2027	Total
FBR	FIBER	\$4,050,000	\$4,050,000	\$4,050,000	\$4,050,000	\$0	\$0	\$0	\$16,200,000
Project Total:									\$16,200,000

COST DETAIL:

Study: \$0
Land Acquisition / ROW: \$0
Engineering / Design: \$0
Construction: \$16,200,000 **Cost Total:** \$16,200,000
Annual Maint. Cost: **Project Difference:** \$0
Maint. Year Start:

Service Impact:

A new business within the utility

Project Justification:

Economic development

Location Description:

Entire service area.



TCLP-CIP-21

Light and Power

1038-21-CIP GRAND TRAVERSE SUBSTATION UPGRADES (CARRYOVER)

Project Information

Submitted By:	Karla Myers-Beman	Department:	Light and Power	Installation of new control system, breakers, and switches along with land improvements of removing an unused foundation and expanding the fence perimeter.
Category:	Capital	Department Head:	Tim Arends	
Fund Group:	Light and Power	Staff Priority:	Imperative (Must Do)	
Fund Detail:	Light and Power	Council Priority:		

1038-21-CIP-C GRAND TRAVERSE SUBSTATION UPGRADES

Funding Sources:

		Previous	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	2026/2027	Total
LAP	Light and Power	\$693,000	\$500,000	\$0	\$0	\$0	\$0	\$0	\$1,193,000
Project Total:									\$1,193,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$0	
Construction:	\$1,193,000	Cost Total: \$1,193,000
Annual Maint. Cost:		Project Difference: \$0
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-CIP-21

Light and Power

1005-21-CIP

HARTMAN ROAD OVERHEAD TIE

Project Information

Submitted By:	Karla Myers-Beman	Department:	Light and Power Service	Allow a second feed into a circuit to enhance reliability in the southwest service area.
Category:	Capital	Department Head:	Tim Arends	
Fund Group:	Light and Power	Staff Priority:	Essential (Should Do)	
Fund Detail:	Distribution	Council Priority:		

1005-21-CIP-C

HARTMAN ROAD OVERHEAD TIE

Funding Sources:

		Previous	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	2026/2027	Total
LAP	Light and Power	\$0	\$0	\$0	\$0	\$400,000	\$600,000	\$0	\$1,000,000
Project Total:									\$1,000,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$0	
Construction:	\$1,000,000	Cost Total: \$1,000,000
Annual Maint. Cost:		Project Difference: \$0
Maint. Year Start:		

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-CIP-21

Light and Power

824-21-CIP

HASTINGS SERVICE CENTER FACILITY IMPROVEMENTS

Project Information

Submitted By: Karla Myers-Beman **Department:** Light and Power Service Site improvements to existing facility.
Category: Capital **Department Head:** Tim Arends
Fund Group: Light and Power **Staff Priority:** Essential (Should Do)
Fund Detail: Facilities **Council Priority:**

824-21-CIP-C

HASTINGS SERVICE CENTER FACILITY IMPROVEMENTS

Funding Sources:

		Previous	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	2026/2027	Total
LAP	Light and Power	\$0	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$0	\$250,000
Project Total:									\$250,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$0	
Construction:	\$300,000	Cost Total: \$300,000
Annual Maint. Cost:		Project Difference: \$-50,000
Maint. Year Start:		

Service Impact:

Efficiency of operations

Project Justification:

Internal analysis

Location Description:

1131 Hastings Street



TCLP-CIP-21

Light and Power

811-21-CIP

OVERHEAD LINE IMPROVEMENTS

Project Information

Submitted By:	Karla Myers-Beman	Department:	Light and Power	Accumulation of small construction/replacement projects of overhead distribution facilities involving the use of wire, poles, meters, cabinets and transformers.
Category:	Capital	Department Head:	Tim Arends	
Fund Group:	Light and Power	Staff Priority:	Imperative (Must Do)	
Fund Detail:	Distribution	Council Priority:		

811-21-CIP-C

OVERHEAD LINE IMPROVEMENTS

Funding Sources:

		Previous	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	2026/2027	Total
LAP	Light and Power	\$0	\$450,000	\$500,000	\$550,000	\$600,000	\$650,000	\$700,000	\$3,450,000
Project Total:									\$3,450,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$0	
Construction:	\$3,450,000	Cost Total: \$3,450,000
Annual Maint. Cost:		Project Difference: \$0
Maint. Year Start:		

Service Impact:

Reduce the potential of future maintenance costs.

Project Justification:

Reliability of the system.

Location Description:

Entire Service Area



TCLP-CIP-21

Light and Power

1179-21-CIP REBUILD CIRCUIT - CD-24 - SECTIONALIZING

Project Information

Submitted By:	Karla Myers-Beman	Department:	Light and Power	Replace deteriorated overhead/underground facilities with new wire, conduit, poles, et to include conversion of overhead facilities to underground as appropriate.
Category:	Capital	Department Head:	Tim Arends	
Fund Group:	Light and Power	Staff Priority:	Imperative (Must Do)	
Fund Detail:	Light and Power	Council Priority:		

1179-21-CIP-C REBUILD CIRCUIT - CD 24 - SECTIONALIZING (NEW)

Funding Sources:

		Previous	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	2026/2027	Total
LAP	Light and Power	\$0	\$0	\$0	\$0	\$250,000	\$0	\$0	\$250,000
Project Total:									\$250,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$0	
Construction:	\$250,000	Cost Total: \$250,000
Annual Maint. Cost:		Project Difference: \$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:

Pine St south of Fourteenth St



TCLP-CIP-21

Light and Power

1125-21-CIP REBUILD CIRCUIT - CD-31/SS-30 - SMART GRID

Project Information

Submitted By:	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 underground as appropriate.
Category:	Capital	Department Head:	Tim Arends	
Fund Group:	Light and Power	Staff Priority:	Imperative (Must Do)	
Fund Detail:	Light and Power	Council Priority:		

1125-21-CIP-C REBUILD CIRCUIT- CD 31/SS-30 - SMART GRID

Funding Sources:

		Previous	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	2026/2027	Total
LAP	Light and Power	\$0	\$0	\$0	\$0	\$200,000	\$0	\$0	\$200,000
Project Total:									\$200,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$0	
Construction:	\$200,000	Cost Total: \$200,000
Annual Maint. Cost:		Project Difference: \$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:

Smart Grid Automatic Restoration



TCLP-CIP-21

Light and Power

1116-21-CIP REBUILD CIRCUIT - GRANDVIEW PKWY - PRIMARY

Project Information

Submitted By:	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 underground as appropriate.
Category:	Capital	Department Head:	Tim Arends	
Fund Group:	Light and Power	Staff Priority:	Imperative (Must Do)	
Fund Detail:	Distribution	Council Priority:		

1116-21-CIP-C REBUILD CIRCUIT - GRANDVIEW PKWY - PRIMARY

Funding Sources:

		Previous	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	2026/2027	Total
LAP	Light and Power	\$0	\$0	\$0	\$250,000	\$0	\$700,000	\$700,000	\$1,650,000
Project Total:									\$1,650,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$0	
Construction:	\$1,650,000	Cost Total: \$1,650,000
Annual Maint. Cost:		Project Difference: \$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:

Grandview Parkway and behind buildings north of Front Street



TCLP-CIP-21

Light and Power

1124-21-CIP REBUILD CIRCUIT - HL-33 - LOCUST STREET

Project Information

Submitted By:	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 underground as appropriate.
Category:	Capital	Department Head:	Tim Arends	
Fund Group:	Light and Power	Staff Priority:	Imperative (Must Do)	
Fund Detail:	Light and Power	Council Priority:		

1124-21-CIP-C REBUILD CIRCUIT - HL-33 - LOCUST STREET

Funding Sources:

		Previous	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	2026/2027	Total
LAP	Light and Power	\$0	\$0	\$0	\$0	\$0	\$400,000	\$0	\$400,000
								Project Total:	\$400,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$0	
Construction:	\$400,000	Cost Total: \$400,000
Annual Maint. Cost:		Project Difference: \$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:

Locust Street



TCLP-CIP-21

Light and Power

1117-21-CIP REBUILD CIRCUIT - HL-33 - WADSWORTH ST

Project Information

Submitted By:	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 underground as appropriate.
Category:	Capital	Department Head:	Tim Arends	
Fund Group:	Light and Power	Staff Priority:	Imperative (Must Do)	
Fund Detail:	Light and Power	Council Priority:		

1117-21-CIP-C REBUILD CIRCUIT - HL-33 - WADSWORTH ST

Funding Sources:

		Previous	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	2026/2027	Total
LAP	Light and Power	\$0	\$0	\$0	\$0	\$0	\$0	\$85,000	\$85,000
Project Total:									\$85,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$0	
Construction:	\$85,000	Cost Total: \$85,000
Annual Maint. Cost:		Project Difference: \$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-CIP-21

Light and Power

1180-21-CIP REBUILD CIRCUIT - PC 32 - ASPEN DRIVE

Project Information

Submitted By:	Karla Myers-Beman	Department:	Light and Power	Replace deteriorate and overhead/underground facilities with new wire, conduit, poles, etc to include conversion of overhead facilities to underground as appropriate.
Category:	Capital	Department Head:	Tim Arends	
Fund Group:	Light and Power	Staff Priority:	Imperative (Must Do)	
Fund Detail:	Light and Power	Council Priority:		

1180-21-CIP-C REBUILD CIRCUIT - PC 32 - ASPEN DRIVE (NEW)

Funding Sources:

		Previous	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	2026/2027	Total
LAP	Light and Power	\$0	\$0	\$0	\$0	\$0	\$0	\$250,000	\$250,000
Project Total:									\$250,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$0	
Construction:	\$250,000	Cost Total: \$250,000
Annual Maint. Cost:		Project Difference: \$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:

Aspen Drive



TCLP-CIP-21

Light and Power

1127-21-CIP REBUILD CIRCUIT - PC-22 - PARSONS RD/MUNSON AVE

Project Information

Submitted By:	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 underground as appropriate.
Category:	Capital	Department Head:	Tim Arends	
Fund Group:	Light and Power	Staff Priority:	Imperative (Must Do)	
Fund Detail:	Light and Power	Council Priority:		

1127-21-CIP-C REBUILD CIRCUIT - PC-22 - MUNSON AVENUE

Funding Sources:

		Previous	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	2026/2027	Total
LAP	Light and Power	\$0	\$0	\$113,000	\$0	\$0	\$0	\$0	\$113,000
Project Total:									\$113,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$0	
Construction:	\$113,000	Cost Total: \$113,000
Annual Maint. Cost:		Project Difference: \$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:

Back lot area from Parsons Rd to Munson Ave



TCLP-CIP-21

Light and Power

1121-21-CIP REBUILD CIRCUIT - PC-22 - MUNSON AVE - AVE B TO E

Project Information

Submitted By:	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 underground as appropriate.
Category:	Capital	Department Head:	Tim Arends	
Fund Group:	Light and Power	Staff Priority:	Imperative (Must Do)	
Fund Detail:	Light and Power	Council Priority:		

1121-21-CIP-C REBUILD CIRCUIT - PC-22 - MUNSON AVE - AVE B TO E

Funding Sources:

		Previous	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	2026/2027	Total
LAP	Light and Power	\$0	\$0	\$0	\$0	\$300,000	\$0	\$0	\$300,000
Project Total:									\$300,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$0	
Construction:	\$300,000	Cost Total: \$300,000
Annual Maint. Cost:		Project Difference: \$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-CIP-21

Light and Power

1118-21-CIP REBUILD CIRCUIT - PC-22 - MUNSON, DAVIS TO 3 MILE

Project Information

Submitted By:	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 underground as appropriate.
Category:	Capital	Department Head:	Tim Arends	
Fund Group:	Light and Power	Staff Priority:	Imperative (Must Do)	
Fund Detail:	Light and Power	Council Priority:		

1118-21-CIP-C REBUILD CIRCUIT - PC-22 - MUNSON, DAVIS TO 3 MILE

Funding Sources:

		Previous	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	2026/2027	Total
LAP	Light and Power	\$0	\$0	\$0	\$0	\$500,000	\$0	\$0	\$500,000
Project Total:									\$500,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$0	
Construction:	\$500,000	Cost Total: \$500,000
Annual Maint. Cost:		Project Difference: \$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:

OH Munson Avenue from Davis Street to Three Mile Rd



TCLP-CIP-21

Light and Power

1122-21-CIP REBUILD CIRCUIT - PC-22 - TOM'S MARKET EAST

Project Information

Submitted By:	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 underground as appropriate.
Category:	Capital	Department Head:	Tim Arends	
Fund Group:	Light and Power	Staff Priority:	Imperative (Must Do)	
Fund Detail:	Light and Power	Council Priority:		

1122-21-CIP-C REBUILD CIRCUIT - PC-22 - TOM'S MARKET EAST

Funding Sources:

		Previous	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	2026/2027	Total
LAP	Light and Power	\$0	\$0	\$0	\$0	\$0	\$150,000	\$0	\$150,000
Project Total:									\$150,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$0	
Construction:	\$150,000	Cost Total: \$150,000
Annual Maint. Cost:		Project Difference: \$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:

Behind Tom's Market East Bay



TCLP-CIP-21

Light and Power

809-21-CIP

REBUILD CIRCUIT - PC-23 - MITCHELL CREEK

Project Information

Submitted By:	Karla Myers-Beman	Department:	Light and Power Service	Replace deteriorated overhead/underground facilities with new wire, conduit, poles, etc to include conversion of overhead facilities to underground as appropriate.
Category:	Capital	Department Head:	Tim Arends	
Fund Group:	Light and Power	Staff Priority:	Imperative (Must Do)	
Fund Detail:	Distribution	Council Priority:		

809-21-CIP-C

REBUILD CIRCUIT PC-23- MITCHELL CREEK

Funding Sources:

		Previous	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	2026/2027	Total
LAP	Light and Power	\$0	\$0	\$0	\$125,000	\$0	\$0	\$0	\$125,000
Project Total:									\$125,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$0	
Construction:	\$125,000	Cost Total: \$125,000
Annual Maint. Cost:		Project Difference: \$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:

Mitchell Creek



TCLP-CIP-21

Light and Power

1119-21-CIP REBUILD CIRCUIT - PC-23 - MUNSON AVENUE

Project Information

Submitted By:	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 underground as appropriate.
Category:	Capital	Department Head:	Tim Arends	
Fund Group:	Light and Power	Staff Priority:	Imperative (Must Do)	
Fund Detail:	Light and Power	Council Priority:		

1119-21-CIP-C REBUILD CIRCUIT - PC-23 - MUNSON AVENUE

Funding Sources:

		Previous	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	2026/2027	Total
LAP	Light and Power	\$0	\$0	\$0	\$0	\$400,000	\$0	\$0	\$400,000
Project Total:									\$400,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$0	
Construction:	\$400,000	Cost Total: \$400,000
Annual Maint. Cost:		Project Difference: \$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-CIP-21

Light and Power

1123-21-CIP

REBUILD CIRCUIT - SS-31 - CRESTWOOD

Project Information

Submitted By: 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 underground as appropriate.

Category: Capital

Department Head: Tim Arends

Fund Group: Light and Power

Staff Priority: Imperative (Must Do)

Fund Detail: Light and Power

Council Priority:

1123-21-CIP-C

REBUILD CIRCUIT - SS-31 - CRESTWOOD

Funding Sources:

		Previous	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	2026/2027	Total
LAP	Light and Power	\$0	\$0	\$0	\$0	\$0	\$250,000	\$0	\$250,000
								Project Total:	\$250,000

COST DETAIL:

Study: \$0

Land Acquisition / ROW: \$0

Engineering / Design: \$0

Construction: \$250,000

Annual Maint. Cost:

Maint. Year Start:

Cost Total: \$250,000

Project Difference: \$0

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-CIP-21

Light and Power

1040-21-CIP

SCADA SYSTEM UPGRADE

Project Information

Submitted By:	Karla Myers-Beman	Department:	Light and Power Service	Upgrade the system to allow it to interconnect with other related systems such as AMI, billing, GIS, OMS and other technologies.
Category:	Capital	Department Head:	Tim Arends	
Fund Group:	Light and Power	Staff Priority:	Essential (Should Do)	
Fund Detail:	Light and Power	Council Priority:		

1040-21-CIP-C

SCADA SYSTEM UPGRADE

Funding Sources:

		Previous	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	2026/2027	Total
LAP	Light and Power	\$0	\$0	\$250,000	\$0	\$0	\$0	\$0	\$250,000
Project Total:									\$250,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$0	
Construction:	\$250,000	Cost Total: \$250,000
Annual Maint. Cost:		Project Difference: \$0
Maint. Year Start:		

Service Impact:

Improve reliability of the system

Project Justification:

Internal analysis

Location Description:

1131 Hastings Street and Substations



TCLP-CIP-21

Light and Power

1224-21-CIP

SECURITY CAMERA NETWORK (NEW)

Project Information

Submitted By: Karla Myers-Beman

Department: Light and Power Service

A new potential service of the utility. Installing security cameras for customers at their requested location for a monthly fee including all capital, operation and maintenance costs.

Category: Capital

Department Head: Tim Arends

Fund Group: Light and Power

Staff Priority: Important (Could Do)

Fund Detail: Light and Power

Council Priority:

1224-21-CIP-C

SECURITY CAMERA NETWORK

Funding Sources:

		Previous	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	2026/2027	Total
LAP	Light and Power	\$0	\$0	\$100,000	\$0	\$0	\$0	\$0	\$100,000
Project Total:									\$100,000

COST DETAIL:

Study: \$0

Land Acquisition / ROW: \$0

Engineering / Design: \$0

Construction: \$100,000

Annual Maint. Cost:

Maint. Year Start:

Cost Total: \$100,000

Project Difference: \$0

Service Impact:

A new service offering that will have related initial capital costs following with operation and maintenance cost to maintain the service.

Project Justification:

New revenue stream

Location Description:

Throughout the service area.



TCLP-CIP-21

Light and Power

1177-21-CIP

SUBSTATION IMPROVEMENT - DISTRIBUTION RELAY

Project Information

Submitted By:	Karla Myers-Beman	Department:	Light and Power	Installation of more advanced relays to allow for faster identification and clearing of faults within the distribution system.
Category:	Capital	Department Head:	Tim Arends	
Fund Group:	Light and Power	Staff Priority:	Imperative (Must Do)	
Fund Detail:	Light and Power	Council Priority:		

1177-21-CIP-C

SUBSTATION IMPROVEMENT - DISTRIBUTION RELAY (NEW)

Funding Sources:

		Previous	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	2026/2027	Total
LAP	Light and Power	\$0	\$0	\$0	\$0	\$0	\$0	\$250,000	\$250,000
								Project Total:	\$250,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$0	
Construction:	\$250,000	Cost Total: \$250,000
Annual Maint. Cost:		Project Difference: \$0
Maint. Year Start:		

Service Impact:

Increase distribution system reliability.

Project Justification:

System study

Location Description:

All distribution substations



TCLP-CIP-21

Light and Power

1178-21-CIP

SUBSTATION IMPROVEMENT - TRANSMISSION RELAY

Project Information

Submitted By:	Karla Myers-Beman	Department:	Light and Power	Installation of more advanced relays to allow for faster identification and clearing of faults within the transmission system.
Category:	Capital	Department Head:	Tim Arends	
Fund Group:	Light and Power	Staff Priority:	Imperative (Must Do)	
Fund Detail:	Light and Power	Council Priority:		

1178-21-CIP-C SUBSTATION IMPROVEMENT - TRANSMISSION RELAY (NEW)

Funding Sources:

		Previous	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	2026/2027	Total
LAP	Light and Power	\$0	\$0	\$0	\$0	\$0	\$0	\$600,000	\$600,000
Project Total:									\$600,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$0	
Construction:	\$600,000	Cost Total: \$600,000
Annual Maint. Cost:		Project Difference: \$0
Maint. Year Start:		

Service Impact:

Increase system reliability

Project Justification:

System study

Location Description:

Transmission Substations



TCLP-CIP-21

Light and Power

819-21-CIP

SUBSTATION TRANSFORMER UPGRADES

Project Information

Submitted By:	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 transformers.
Category:	Capital	Department Head:	Tim Arends	
Fund Group:	Light and Power	Staff Priority:	Imperative (Must Do)	
Fund Detail:	Substation	Council Priority:		

819-21-CIP-C SUBSTATION TRANSFORMER UPGRADES

Funding Sources:

		Previous	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	2026/2027	Total
LAP	Light and Power	\$0	\$0	\$0	\$1,525,000	\$0	\$0	\$0	\$1,525,000
Project Total:									\$1,525,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$0	
Construction:	\$1,525,000	Cost Total: \$1,525,000
Annual Maint. Cost:		Project Difference: \$0
Maint. Year Start:		

Service Impact:

Minimize the potential of future maintenance costs.

Project Justification:

System study

Location Description:

Cass and Parsons Road Substations



TCLP-CIP-21

Light and Power

820-21-CIP

TRANSMISSION LINE RECONSTRUCTION

Project Information

Submitted By:	Karla Myers-Beman	Department:	Light and Power	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.
Category:	Capital	Department Head:	Tim Arends	
Fund Group:	Light and Power	Staff Priority:	Imperative (Must Do)	
Fund Detail:	Transmission	Council Priority:		

820-21-CIP-C

TRANSMISSION LINE RECONSTRUCTION

Funding Sources:

		Previous	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	2026/2027	Total
LAP	Light and Power	\$0	\$1,500,000	\$1,500,000	\$0	\$0	\$0	\$1,045,000	\$4,045,000
Project Total:									\$4,045,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$0	
Construction:	\$4,045,000	Cost Total: \$4,045,000
Annual Maint. Cost:		Project Difference: \$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-CIP-21

Light and Power

1109-21-CIP

UNDERGROUND LINE IMPROVEMENTS

Project Information

Submitted By:	Karla Myers-Beman	Department:	Light and Power Service	Accumulation of small construction/replacement projects of underground distribution facilities involving the use of wire, poles, meters, cabinets and transformers.
Category:	Capital	Department Head:	Tim Arends	
Fund Group:	Light and Power	Staff Priority:	Imperative (Must Do)	
Fund Detail:	Light and Power	Council Priority:		

1109-21-CIP-C

UNDERGROUND LINE IMPROVEMENTS

Funding Sources:

		Previous	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	2026/2027	Total
LAP	Light and Power	\$0	\$375,000	\$425,000	\$475,000	\$525,000	\$575,000	\$625,000	\$3,000,000
Project Total:									\$3,000,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$0	
Construction:	\$3,000,000	Cost Total: \$3,000,000
Annual Maint. Cost:		Project Difference: \$0
Maint. Year Start:		

Service Impact:

Improve reliability of the system.

Project Justification:

Internal analysis

Location Description:

Entire service area.



TCLP-CIP-21

Light and Power

829-21-CIP

UPGRADE FRONT ST LIGHTING CIRCUITS & RECEPTACLES

Project Information

Submitted By:	Karla Myers-Beman	Department:	Light and Power	Upgrade circuit to accommodate increased load and will consist of new conduit, wire and addition of event outlets.
Category:	Capital	Department Head:	Tim Arends	
Fund Group:	Light and Power	Staff Priority:	Essential (Should Do)	
Fund Detail:	Joint Projects	Council Priority:		

829-21-CIP-C

UPGRADE FRONT ST LIGHTING CIRCUITS & RECEPTACLES

Funding Sources:

		Previous	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	2026/2027	Total
LAP	Light and Power	\$0	\$0	\$0	\$0	\$0	\$0	\$1,340,000	\$1,340,000
								Project Total:	\$1,340,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$0	
Construction:	\$1,340,000	Cost Total: \$1,340,000
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-CIP-21

Light and Power

1110-21-CIP

UTILITY BILLING SOFTWARE

Project Information

Submitted By: Karla Myers-Beman **Department:** Light and Power Service
Category: Capital **Department Head:** Tim Arends
Fund Group: Light and Power **Staff Priority:** Imperative (Must Do)
Fund Detail: Light and Power **Council Priority:**

The current utility billing software does not have multi-speak capability 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 upgrades and customer cases.

1110-21-CIP-C UTILITY BILLING SOFTWARE

Funding Sources:

		Previous	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	2026/2027	Total
LAP	Light and Power	\$0	\$350,000	\$0	\$0	\$0	\$0	\$0	\$350,000
Project Total:									\$350,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$0	
Construction:	\$350,000	Cost Total: \$350,000
Annual Maint. Cost:		Project Difference: \$0
Maint. Year Start:		

Service Impact:

Improve customer service

Project Justification:

Internal analysis

Location Description:

Utility billing and Hastings Service Center

Six Year Capital Improvement Plan

All Projects Submitted for 2021-2022

Budget Year 2021-2022 by Program Name

Bold - Indicates projects occurring in the first FY of the plan . + - Indicates projects with multiple funding										Overall Programming Cost		
Project ID	Cat	Previous	Fiscal Year 2021-2022	Fiscal Year 2022-2023	Fiscal Year 2023-2024	Fiscal Year 2024-2025	Fiscal Year 2025-2026	Fiscal Year 2026-2027	Project Cost	City Funds	Non-City Funds	
Parking												
1133-21-CIP	Bike Infrastructure Expansion	V	\$0	\$20,000	\$20,000	\$20,000	\$20,000	\$20,000	\$20,000	\$100,000	\$120,000	\$0
984-21-CIP	Camera System Expansion	C	\$0	\$150,000	\$50,000	\$0	\$0	\$0	\$0	\$200,000	\$200,000	\$0
1209-21-CIP	Hardy Pedestrian Stair Tower Interior	M	\$0	\$100,000	\$100,000	\$100,000	\$100,000	\$0	\$0	\$400,000	\$400,000	\$0
1081-21-CIP	Hardy PTAC Units	M	\$0	\$0	\$0	\$0	\$30,000	\$0	\$0	\$30,000	\$30,000	\$0
1214-21-CIP	Hardy Traffic Circulation Conversion	V	\$0	\$50,000	\$400,000	\$0	\$0	\$0	\$0	\$450,000	\$450,000	\$0
545-21-CIP	Lot B Rehab	V	\$0	\$0	\$400,000	\$0	\$0	\$0	\$0	\$400,000	\$400,000	\$0
979-21-CIP	Lot C Resurfacing	M	\$0	\$80,000	\$0	\$0	\$0	\$0	\$0	\$80,000	\$80,000	\$0
1162-21-CIP	Lot G Parking Garage	C	\$0	\$300,000	\$0	\$0	\$0	\$0	\$0	\$300,000	\$300,000	\$0
1198-21-CIP	Lot J - Parking Meters or Pay Stations	C	\$0	\$0	\$50,000	\$0	\$0	\$0	\$0	\$50,000	\$50,000	\$0
981-21-CIP	Lot K Resurfacing	M	\$0	\$0	\$0	\$30,000	\$0	\$0	\$0	\$30,000	\$30,000	\$0
708-21-CIP	Lot O Remediation	M	\$0	\$0	\$430,000	\$0	\$0	\$0	\$0	\$430,000	\$430,000	\$0
982-21-CIP	Lot T Resurfacing	M	\$0	\$0	\$200,000	\$0	\$0	\$0	\$0	\$200,000	\$200,000	\$0
1134-21-CIP	Mobility Amenities	V	\$0	\$15,000	\$10,000	\$15,000	\$15,000	\$0	\$0	\$50,000	\$55,000	\$0
1136-21-CIP	Old Town ADA Door Operators	M	\$0	\$0	\$0	\$18,000	\$0	\$0	\$0	\$18,000	\$18,000	\$0
1082-21-CIP	Old Town Battery Backup Convert to Generator	M	\$50,000	\$50,000	\$0	\$0	\$0	\$0	\$0	\$50,000	\$100,000	\$0
1072-21-CIP	Old Town Boiler Replacement	M	\$65,000	\$65,000	\$15,000	\$0	\$0	\$0	\$0	\$80,000	\$145,000	\$0
1210-21-CIP	Old Town Pedestrian Stair Towers Interior	M	\$0	\$0	\$0	\$100,000	\$100,000	\$100,000	\$0	\$300,000	\$300,000	\$0
1083-21-CIP	Old Town PTAC Units	M	\$0	\$0	\$0	\$0	\$50,000	\$0	\$0	\$50,000	\$50,000	\$0
1211-21-CIP	Old Town Reset Egress Pavers	M	\$0	\$60,000	\$0	\$0	\$0	\$0	\$0	\$60,000	\$60,000	\$0
1137-21-CIP	Old Town Solar Panels/Inverters	V	\$0	\$0	\$0	\$0	\$0	\$30,000	\$0	\$30,000	\$30,000	\$0
1201-21-CIP	Park Street Restroom Boiler	M	\$0	\$0	\$0	\$0	\$0	\$0	\$15,000	\$15,000	\$15,000	\$0
1199-21-CIP	Pedestrian Tower Window Maintenance - Hardy	M	\$0	\$40,000	\$0	\$0	\$0	\$0	\$0	\$40,000	\$40,000	\$0
1200-21-CIP	Pedestrian Tower Window Maintenance - Old Town	M	\$0	\$40,000	\$0	\$0	\$0	\$0	\$0	\$40,000	\$40,000	\$0
1230-21-CIP	Signage and Wayfinding	M	\$0	\$0	\$0	\$100,000	\$0	\$100,000	\$0	\$300,000	\$200,000	\$0
1132-21-CIP	Single Space Meter Expansion	V	\$0	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000	\$150,000	\$150,000	\$0

Six Year Capital Improvement Plan

All Projects Submitted for 2021-2022

Budget Year 2021-2022 by Program Name

Bold - Indicates projects occurring in the first FY of the plan . + - Indicates projects with multiple funding										<u>Overall Programming Cost</u>		
Project ID	Cat	Previous	Fiscal Year 2021-2022	Fiscal Year 2022-2023	Fiscal Year 2023-2024	Fiscal Year 2024-2025	Fiscal Year 2025-2026	Fiscal Year 2026-2027	Project Cost	City Funds	Non-City Funds	
Parking												
1131-21-CIP	Single Space Meter Replacement	C	\$0	\$100,000	\$100,000	\$100,000	\$100,000	\$0	\$0	\$400,000	\$400,000	\$0
645-21-CIP	West Front St Redevelopment (BOND)	V	\$0	\$0	\$23,000,000	\$0	\$0	\$0	\$0	\$23,515,600	\$23,000,000	\$0
Total Parking			\$1,095,000	\$1,800,000	\$23,508,000	\$440,000	\$275,000	\$60,000	\$27,768,600	\$27,293,000	\$0	

PARKING-CIP-21

Parking

1133-21-CIP Bike Infrastructure Expansion

Project Information

Submitted By:	Nicole VanNess	Department:	Parking Services	Expand bike parking options throughout the City; new or replace inverted Us, bike shelter, bike shelter construction.
Category:	Visionary	Department Head:	Jean Derenzy	
Fund Group:	Traverse City Parking System	Staff Priority:	Important (Could Do)	
Fund Detail:	Parking System	Council Priority:		

1133-21-CIP-C Bike Infrastructure Expansion

Funding Sources:

		Previous	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	2026/2027	Total
APS	Parking System	\$0	\$20,000	\$20,000	\$20,000	\$20,000	\$20,000	\$20,000	\$120,000
								Project Total:	\$120,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$0	
Construction:	\$100,000	Cost Total: \$100,000
Annual Maint. Cost:	\$2,000	Project Difference: \$20,000
Maint. Year Start:	2022	

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-CIP-21

Parking

984-21-CIP Camera System Expansion

Project Information

Submitted By: Nicole VanNess
Category: Capital
Fund Group: Traverse City Parking System
Fund Detail: Parking System

Department: Parking Services
Department Head: Jean Derenzy
Staff Priority: Imperative (Must Do)
Council Priority:

This project will required a design build and equipment purchase.

The design build will confirm camera installation locations, provide construction documents for installation and ensure the materials/anchoring for conduit are appropriate for the pre-cast parking structures.

The equipment purchase may include head-end and server equipment if the solution is not a web-hosted solution. Cameras will be installed on all levels of the Hardy and Old Town parking structures.

984-21-CIP-C Camera

Funding Sources:

		Previous	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	2026/2027	Total
APS	Parking System	\$0	\$150,000	\$50,000	\$0	\$0	\$0	\$0	\$200,000
Project Total:									\$200,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$50,000	
Construction:	\$150,000	Cost Total: \$200,000
Annual Maint. Cost:		Project Difference: \$0
Maint. Year Start:	2023	

Service Impact:

There is no service impact identified as a result of this project.

Project Justification:

This project was first identified as a CIP project in 2015/2016. The project will allow for remote monitoring of the facilities which will increase user safety. The project was planned to be completed by 6/30/20, but due to delays the installation is reset to completion by 6/30/22.

Location Description:

Hardy Parking Garage, 303 E State Street and Old Town Parking Garage, 125 E Eighth Street.

PARKING-CIP-21

Parking

1209-21-CIP Hardy Pedestrian Stair Tower Interior

Project Information

Submitted By: Nicole VanNess
Category: Maintenance
Fund Group: Traverse City Parking System
Fund Detail: Parking System

Department: Parking Services
Department Head: Jean Derenzy
Staff Priority: Essential (Should Do)
Council Priority:

This is a maintenance project that will be performed over multiple years. The work is to repaint the interior from the ground level to level 4 and will include the walls, handrails and doors. The towers have not been refreshed since the garage was built in 2003. The work will not be performed until the window seals are replaced/repaired and all leaks are caulked.

1209-21-CIP-C Hardy Pedestrian Towers Interior

Funding Sources:

		Previous	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	2026/2027	Total
APS	Parking System	\$0	\$100,000	\$100,000	\$100,000	\$100,000	\$0	\$0	\$400,000
Project Total:									\$400,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$0	
Construction:	\$400,000	Cost Total: \$400,000
Annual Maint. Cost:		Project Difference: \$0
Maint. Year Start:	2022	

Service Impact:

This is routine maintenance. Once complete, it will be scheduled for maintenance again in 15 years.

Project Justification:

Water damage has caused the paint to bubble, peel and some molding. This work is needed to remove accumulated dust and dirt that exists in the cinderblocks, cracks and crevasses.

Location Description:

Hardy Parking Garage, 303 East State Street



Six Year Capital Improvement Program

PARKING-CIP-21

Parking

1081-21-CIP Hardy PTAC Units

Project Information

Submitted By: Nicole VanNess	Department: Parking Services	Replace all PTAC units at the Hardy Parking Garage
Category: Maintenance	Department Head: Jean Derenzy	
Fund Group: Traverse City Parking System	Staff Priority: Essential (Should Do)	
Fund Detail: Parking System	Council Priority:	

1081-21-CIP-C Hardy PTAC Units - Cost

Funding Sources:

		Previous	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	2026/2027	Total
APS	Parking System	\$0	\$0	\$0	\$0	\$30,000	\$0	\$0	\$30,000
Project Total:									\$30,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$0	
Construction:	\$30,000	Cost Total: \$30,000
Annual Maint. Cost:		Project Difference: \$0
Maint. Year Start:	2020	

Service Impact:

No service impact

Project Justification:

Routine replacement, equipment at end of life

Location Description:

Hardy Parking Garage, 303 E State Street

PARKING-CIP-21

Parking

1214-21-CIP Hardy Traffic Circulation Conversion

Project Information

Submitted By: Nicole VanNess
Category: Visionary
Fund Group: Traverse City Parking System
Fund Detail: Parking System

Department: Parking Services
Department Head: Jean Derenzy
Staff Priority: Important (Could Do)
Council Priority:

The Hardy Parking Garage circulation is configured based on the one way traffic patterns of 300 E Front and 300 E State. Discussions are underway to convert E Front and E State to two way traffic. This change will require the circulation at Hardy to change and equipment be purchased in order to meet the changing on-street traffic pattern. Items in the project will include painting, equipment purchase, new conduit and electrical, and signage.

1214-21-CIP-C Hardy Traffic Circulation Conversion

Funding Sources:

		Previous	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	2026/2027	Total
APS	Parking System	\$0	\$50,000	\$400,000	\$0	\$0	\$0	\$0	\$450,000
Project Total:									\$450,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$50,000	
Construction:	\$400,000	Cost Total: \$450,000
Annual Maint. Cost:	\$5,000	Project Difference: \$0
Maint. Year Start:	2023	

Service Impact:

Additional equipment will need to be purchased and will require annual maintenance and replacement.

Project Justification:

The current traffic pattern has too many conflict points if the on-street one way traffic is converted to two way. These updates are needed in order to reduce conflicts and increase circulation.

Location Description:

Hardy Parking Garage, 303 E State Street



Six Year Capital Improvement Program

PARKING-CIP-21

Parking

545-21-CIP **Lot B Rehab**

Project Information

Submitted By:	Nicole VanNess	Department:	Parking Services	Reconstruct Lot B per Farmers Market Plan.
Category:	Visionary	Department Head:	Jean Derenzy	
Fund Group:	Traverse City Parking System	Staff Priority:	Important (Could Do)	
Fund Detail:	Parking System	Council Priority:		

545-21-CIP-C Lot B Rehab - Cost

Funding Sources:

		Previous	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	2026/2027	Total
APS	Parking System	\$0	\$0	\$400,000	\$0	\$0	\$0	\$0	\$400,000
Project Total:									\$400,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$0	
Construction:	\$400,000	Cost Total: \$400,000
Annual Maint. Cost:	\$2,500	Project Difference: \$0
Maint. Year Start:	2022	

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



Six Year Capital Improvement Program

PARKING-CIP-21

Parking

979-21-CIP **Lot C Resurfacing**

Project Information

Submitted By:	Nicole VanNess	Department:	Parking Services	Resurface Lot C, which serves Clinch Park and downtown businesses
Category:	Maintenance	Department Head:	Jean Derenzy	
Fund Group:	Traverse City Parking System	Staff Priority:	Essential (Should Do)	
Fund Detail:	Parking System	Council Priority:		

979-21-CIP-C Lot C Resurfacing - Cost

Funding Sources:

		Previous	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	2026/2027	Total
APS	Parking System	\$0	\$80,000	\$0	\$0	\$0	\$0	\$0	\$80,000
Project Total:									\$80,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$0	
Construction:	\$80,000	Cost Total: \$80,000
Annual Maint. Cost:		Project Difference: \$0
Maint. Year Start:	2023	

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



Six Year Capital Improvement Program

PARKING-CIP-21

Parking

1162-21-CIP **Lot G Parking Garage**

Project Information

Submitted By: Jean Derenzy	Department: Downtown Development	This would be part of a public/private partnership for the redevelopment of Lot G.
Category: Capital	Department Head: Jean Derenzy	
Fund Group: Tax Increment Financing	Staff Priority: Imperative (Must Do)	
Fund Detail: TIF 97	Council Priority:	

1162-21-CIP-C Lot G Parking Garage

Funding Sources:

		Previous	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	2026/2027	Total
TIF97	TIF 97	\$0	\$300,000	\$0	\$0	\$0	\$0	\$0	\$300,000
Project Total:									\$300,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$0	
Construction:	\$300,000	Cost Total: \$300,000
Annual Maint. Cost:		Project Difference: \$0
Maint. Year Start:		

Service Impact:

Improvement of surface parking lot to mixed use development

Project Justification:

Long term strategy for infill development, taxable value increase, housing and walkability

Location Description:

Parking Lot G

PARKING-CIP-21

Parking

1198-21-CIP **Lot J - Parking Meters or Pay Stations**

Project Information

Submitted By:	Nicole VanNess	Department:	Parking Services
Category:	Capital	Department Head:	Jean Derenzy
Fund Group:	Traverse City Parking System	Staff Priority:	Essential (Should Do)
Fund Detail:	Parking System	Council Priority:	

The FishPass project will completely reconstruct parking lot J south of the Sixth St Dam. The project scope includes providing marking off the locations where single space meters can be installed after the project is complete. This project is to purchase and install single space or multi-space parking meters.

1198-21-CIP-C Lot J - Parking Meters or Pay Stations

Funding Sources:

		Previous	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	2026/2027	Total
APS	Parking System	\$0	\$0	\$50,000	\$0	\$0	\$0	\$0	\$50,000
Project Total:									\$50,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$0	
Construction:	\$50,000	Cost Total: \$50,000
Annual Maint. Cost:	\$1,000	Project Difference: \$0
Maint. Year Start:	2023	

Service Impact:

Following the completion of the FishPass project, the lot will return to regular parking operations. Multi-space meters offer more payment options and reduce staff collection times.

Project Justification:

Installing the parking meters will return the lot to its pre-construction state.

Location Description:

Parking Lot J - Union Street and Sixth Street



Six Year Capital Improvement Program

PARKING-CIP-21

Parking

981-21-CIP **Lot K Resurfacing**

Project Information

Submitted By: Nicole VanNess	Department: Parking Services	Replace pavement with impervious surface pavers in the existing lot K so parking lot surface is contiguous with the five spaces added in the Fish Pass project.
Category: Maintenance	Department Head: Jean Derenzy	
Fund Group: Traverse City Parking System	Staff Priority: Essential (Should Do)	
Fund Detail: Parking System	Council Priority:	

981-21-CIP-C Lot K resurfacing- Cost

Funding Sources:

		Previous	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	2026/2027	Total
APS	Parking System	\$0	\$0	\$0	\$30,000	\$0	\$0	\$0	\$30,000
Project Total:									\$30,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$0	
Construction:	\$30,000	Cost Total: \$30,000
Annual Maint. Cost:		Project Difference: \$0
Maint. Year Start:	2024	

Service Impact:

None.

Project Justification:

Maintenance

Location Description:

North of Union Street Dam

Six Year Capital Improvement Program

PARKING-CIP-21

Parking

708-21-CIP

Lot O Remediation

Project Information

Submitted By: Nicole VanNess

Department: Parking Services

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.

Category: Maintenance

Department Head: Jean Derenzy

Fund Group: Traverse City Parking System

Staff Priority: Important (Could Do)

Fund Detail: Parking System

Council Priority:

Excerpt from Otwell Mawby report following May 18, 2011 Phase II ESA activities- The City has already identified the presence of a UST on the property and removed the tank in 2009. There is reason to believe that there may be USTs remaining on the property and an interpretation of Part 211 would indicate that the City has an obligation to look for these remaining USTs. The best way to identify USTs is Ground Penetrating Radar (GPR).

708-21-CIP-C

Lot O Remediation - Cost

Funding Sources:

		Previous	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	2026/2027	Total
APS	Parking System	\$0	\$0	\$430,000	\$0	\$0	\$0	\$0	\$430,000
Project Total:									\$430,000

COST DETAIL:

Study: \$0

Land Acquisition / ROW: \$0

Engineering / Design: \$0

Construction: \$430,000

Annual Maint. Cost:

Maint. Year Start: 2022

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.



Six Year Capital Improvement Program

PARKING-CIP-21

Parking

982-21-CIP **Lot T Resurfacing**

Project Information

Submitted By:	Nicole VanNess	Department:	Parking Services	Resurface Lot T
Category:	Maintenance	Department Head:	Jean Derenzy	
Fund Group:	Traverse City Parking System	Staff Priority:	Essential (Should Do)	
Fund Detail:	Parking System	Council Priority:		

982-21-CIP-C Lot T Resurfacing - Cost

Funding Sources:

		Previous	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	2026/2027	Total
APS	Parking System	\$0	\$0	\$200,000	\$0	\$0	\$0	\$0	\$200,000
Project Total:									\$200,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$0	
Construction:	\$200,000	Cost Total: \$200,000
Annual Maint. Cost:		Project Difference: \$0
Maint. Year Start:	2022	

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.

Six Year Capital Improvement Program

PARKING-CIP-21

Parking

1134-21-CIP **Mobility Amenities**

Project Information

Submitted By:	Nicole VanNess	Department:	Parking Services	Expand mobility amenities near parking locations.
Category:	Visionary	Department Head:	Jean Derenzy	
Fund Group:	Traverse City Parking System	Staff Priority:	Important (Could Do)	
Fund Detail:	Parking System	Council Priority:		

1134-21-CIP-C Mobility Amenities

Funding Sources:

		Previous	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	2026/2027	Total
APS	Parking System	\$0	\$15,000	\$10,000	\$15,000	\$15,000	\$0	\$0	\$55,000
Project Total:									\$55,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$0	
Construction:	\$50,000	Cost Total: \$50,000
Annual Maint. Cost:	\$1,000	Project Difference: \$5,000
Maint. Year Start:	2022	

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.



Six Year Capital Improvement Program

PARKING-CIP-21

Parking

1136-21-CIP Old Town ADA Door Operators

Project Information

Submitted By:	Nicole VanNess	Department:	Parking Services	Replace ADA door openers at all pedestrian doors.
Category:	Maintenance	Department Head:	Jean Derenzy	
Fund Group:	Traverse City Parking System	Staff Priority:	Essential (Should Do)	
Fund Detail:	Parking System	Council Priority:		

1136-21-CIP-C Old Town ADA Door Operators

Funding Sources:

		Previous	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	2026/2027	Total
APS	Parking System	\$0	\$0	\$0	\$18,000	\$0	\$0	\$0	\$18,000
Project Total:									\$18,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$0	
Construction:	\$18,000	Cost Total: \$18,000
Annual Maint. Cost:	\$500	Project Difference: \$0
Maint. Year Start:	2021	

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-CIP-21

Parking

1082-21-CIP Old Town Battery Backup Convert to Generator

Project Information

Submitted By:	Nicole VanNess	Department:	Parking Services	Replace battery backup system with a natural gas powered generator. *This project was budgeted for 20/21. This project will be moved to 21/22 if funding does not support moving forward or if request for proposal timing does not allow enough time to execute the project prior to June 30, 2021.
Category:	Maintenance	Department Head:	Jean Derenzy	
Fund Group:	Traverse City Parking System	Staff Priority:	Important (Could Do)	
Fund Detail:	Parking System	Council Priority:		

1082-21-CIP-C Old Town Battery Backup Convert to Generator - Cos

Funding Sources:

		Previous	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	2026/2027	Total
APS	Parking System	\$50,000	\$50,000	\$0	\$0	\$0	\$0	\$0	\$100,000
Project Total:									\$100,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$0	
Construction:	\$50,000	Cost Total: \$50,000
Annual Maint. Cost:	\$1,500	Project Difference: \$50,000
Maint. Year Start:	2023	

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-CIP-21

Parking

1072-21-CIP **Old Town Boiler Replacement**

Project Information

Submitted By:	Nicole VanNess	Department:	Parking Services
Category:	Maintenance	Department Head:	Jean Derenzy
Fund Group:	Traverse City Parking System	Staff Priority:	Essential (Should Do)
Fund Detail:	Parking System	Council Priority:	

Boilers and pumps are original to 2009 install. Boiler life is 8 years. There are (3) boilers and pumps onsite that will need to be replaced.

Boiler/Pumps #1 and #2 are planned for 2020/2021. The project will include relocating the snow sensor from Level 4 to the ground level in order to increase boiler response time to kick on. Boiler/Pump #3 is planned for 2021/2022.

*Boiler/Pump #1 and #2 were budgeted for 20/21. This project will be moved to 21/22 if funding does not support moving forward or if request for proposal timing does not allow enough time to execute the project prior to June 30, 2021.

1072-21-CIP-C Old Town Boiler Replacement-C

Funding Sources:

		Previous	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	2026/2027	Total
APS	Parking System	\$65,000	\$65,000	\$15,000	\$0	\$0	\$0	\$0	\$145,000
Project Total:									\$145,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$0	
Construction:	\$80,000	Cost Total: \$80,000
Annual Maint. Cost:		Project Difference: \$65,000
Maint. Year Start:	2024	

Service Impact:

None.

Project Justification:

Ensure operational snow melt

Location Description:

Old Town Parking Garage, 125 E. Eighth St.

PARKING-CIP-21

Parking

1210-21-CIP **Old Town Pedestrian Stair Towers Interior**

Project Information

Submitted By:	Nicole VanNess	Department:	Parking Services
Category:	Maintenance	Department Head:	Jean Derenzy
Fund Group:	Traverse City Parking System	Staff Priority:	Essential (Should Do)
Fund Detail:	Parking System	Council Priority:	

This work will be performed from the ground level to levels 4. This work will be performed inside the towers and include repainting walls, handrails and doors. This is a multi-year project. Work will be performed after the window seals are replaced or caulked. Interior maintenance to refresh the towers has not not been performed since the opening of the garage in 2010.

1210-21-CIP-C Old Town Pedestrian Stair Towers Interior

Funding Sources:

		Previous	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	2026/2027	Total
APS	Parking System	\$0	\$0	\$0	\$100,000	\$100,000	\$100,000	\$0	\$300,000
Project Total:									\$300,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$0	
Construction:	\$300,000	Cost Total: \$300,000
Annual Maint. Cost:		Project Difference: \$0
Maint. Year Start:	2022	

Service Impact:

Routine maintenance to clean accumulated dirt, dust and debris from crevasses.

Project Justification:

This is an ongoing cost to refresh the area and work is performed in 15 year increments.

Location Description:

Old Town Parking Garage, 125 E Eighth Street

Six Year Capital Improvement Program

PARKING-CIP-21

Parking

1083-21-CIP **Old Town PTAC Units**

Project Information

Submitted By:	Nicole VanNess	Department:	Parking Services	Replace all PTAC units at the Old Town Parking Garage (elevators, pedestrian towers, office). Replacement will be from the Old Town Fund 585-587.
Category:	Maintenance	Department Head:	Jean Derenzy	
Fund Group:	Traverse City Parking System	Staff Priority:	Essential (Should Do)	
Fund Detail:	Parking System	Council Priority:		

1083-21-CIP-C Old Town PTAC Units - Cost

Funding Sources:

		Previous	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	2026/2027	Total
APS	Parking System	\$0	\$0	\$0	\$0	\$50,000	\$0	\$0	\$50,000
Project Total:									\$50,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$0	
Construction:	\$50,000	Cost Total: \$50,000
Annual Maint. Cost:	\$1,000	Project Difference: \$0
Maint. Year Start:	2034	

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-CIP-21

Parking

1211-21-CIP **Old Town Reset Egress Pavers**

Project Information

Submitted By:	Nicole VanNess	Department:	Parking Services	The entrance off of Eighth Street into the Old Town Garage is pavers. There is snow melt under the pavers. Over time, ruts have formed caused by vehicle traffic and the surface area is no longer level and has a waded appearance.
Category:	Maintenance	Department Head:	Jean Derenzy	
Fund Group:	Traverse City Parking System	Staff Priority:	Imperative (Must Do)	
Fund Detail:	Parking System	Council Priority:		

1211-21-CIP-C Old Town Reset Egress Pavers

Funding Sources:

		Previous	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	2026/2027	Total
APS	Parking System	\$0	\$60,000	\$0	\$0	\$0	\$0	\$0	\$60,000
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:	2022	

Service Impact:

Routine maintenance to correct worn vehicle path causing setting of pavers. This will ensure the surface is level and increase pedestrian safety.

Project Justification:

This work should be performed within a couple of years of ruts forming to ensure the surface is leveled for pedestrians and vehicles.

Location Description:

Old Town Parking Garage, 125 E Eighth Street

PARKING-CIP-21

Parking

1137-21-CIP Old Town Solar Panels/Inverters

Project Information

Submitted By:	Nicole VanNess	Department:	Parking Services	Replace or upgrade inverters for the solar panels. The current inverters were installed in 2009 an may be reaching the end of their useful life as the solar technology has changed.
Category:	Visionary	Department Head:	Jean Derenzy	
Fund Group:	Traverse City Parking System	Staff Priority:	Important (Could Do)	
Fund Detail:	Parking System	Council Priority:		

1137-21-CIP-C Old Town Solar Panels/Inverters

Funding Sources:

		Previous	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	2026/2027	Total
APS	Parking System	\$0	\$0	\$0	\$0	\$0	\$30,000	\$0	\$30,000
Project Total:									\$30,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$0	
Construction:	\$30,000	Cost Total: \$30,000
Annual Maint. Cost:	\$1,500	Project Difference: \$0
Maint. Year Start:	2025	

Service Impact:

Minimal impact

Project Justification:

Extend useful life

Location Description:

125 E Eighth Street at the Old Town Parking Garage

PARKING-CIP-21

Parking

1201-21-CIP Park Street Restroom Boiler

Project Information

Submitted By: Nicole VanNess **Department:** Parking Services
Category: Maintenance **Department Head:** Jean Derenzy
Fund Group: Traverse City Parking System **Staff Priority:** Essential (Should Do)
Fund Detail: Parking System **Council Priority:**

The restrooms were opened in 2018. A boilers lifespan is roughly 8 years. The Park Street Restroom area has a boiler that is used to operate the snow melt outside of the restroom area.

1201-21-CIP-C Park Street Restroom Boiler

Funding Sources:

		Previous	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	2026/2027	Total
APS	Parking System	\$0	\$0	\$0	\$0	\$0	\$0	\$15,000	\$15,000
Project Total:									\$15,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$0	
Construction:	\$15,000	Cost Total: \$15,000
Annual Maint. Cost:		Project Difference: \$0
Maint. Year Start:	2027	

Service Impact:

Replacement is needed to ensure the snow melt is working properly to assist with reduced snow removal effort of physical staff.

Project Justification:

This is a scheduled replacement to ensure the safety of those using the public restrooms.

Location Description:

Park Street Public Restrooms, 125 S Park

PARKING-CIP-21

Parking

1199-21-CIP Pedestrian Tower Window Maintenance - Hardy

Project Information

Submitted By: Nicole VanNess
Category: Maintenance
Fund Group: Traverse City Parking System
Fund Detail: Parking System

Department: Parking Services
Department Head: Jean Derenzy
Staff Priority: Imperative (Must Do)
Council Priority:

There are (3) pedestrian towers at the Hardy Parking Garage. All of the exterior sides of the towers are windows ground to level 4. The window seals are failing and leaking into the towers is occurring when snow melts or during rain. The seals need to be caulked or replaced.

1199-21-CIP-C Pedestrian Tower Window Maintenance Hardy

Funding Sources:

		Previous	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	2026/2027	Total
APS	Parking System	\$0	\$40,000	\$0	\$0	\$0	\$0	\$0	\$40,000
Project Total:									\$40,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$0	
Construction:	\$40,000	Cost Total: \$40,000
Annual Maint. Cost:	\$2,000	Project Difference: \$0
Maint. Year Start:	2022	

Service Impact:

This is a routine maintenance item that needs to be performed to prevent further water damage to other elements of the building (office, walls, etc.)

Project Justification:

Additional damage or mold may occur if leaking continues.

Location Description:

Hardy Parking Garage, 303 E State Street

PARKING-CIP-21

Parking

1200-21-CIP Pedestrian Tower Window Maintenance - Old Town

Project Information

Submitted By: Nicole VanNess **Department:** Parking Services
Category: Maintenance **Department Head:** Jean Derenzy
Fund Group: Traverse City Parking System **Staff Priority:** Imperative (Must Do)
Fund Detail: Parking System **Council Priority:**

There are (2) pedestrian towers that have window ground to level 4 on the exterior. The seals have failed and leaking is occurring after melting snow or rain. The seals need to be replaced or caulked.

1200-21-CIP-C Pedestrian Tower Window Maintenance - Old Town

Funding Sources:

		Previous	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	2026/2027	Total
APS	Parking System	\$0	\$40,000	\$0	\$0	\$0	\$0	\$0	\$40,000
Project Total:									\$40,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$0	
Construction:	\$40,000	Cost Total: \$40,000
Annual Maint. Cost:	\$2,000	Project Difference: \$0
Maint. Year Start:	2022	

Service Impact:

This is a routine maintenance item that is needed to avoid additional damage. The leaking is causing some other paint to peel and very small amounts of mold.

Project Justification:

This item should be performed routinely to ensure the leaking is fixed and prevent further damage.

Location Description:

Old Town Parking Garage, 125 E Eighth Street

Six Year Capital Improvement Program

PARKING-CIP-21

Parking

1230-21-CIP **Signage and Wayfinding**

Project Information

Submitted By:	Nicole VanNess	Department:	Parking Services	This will be a multi-year project to replace signage and wayfinding for the Hardy and Old Town Parking Garages and throughout the field within the parking system. This is a maintenance item as planned for signage that will be 20+ years old.
Category:	Maintenance	Department Head:	Jean Derenzy	
Fund Group:	Traverse City Parking System	Staff Priority:	Important (Could Do)	
Fund Detail:	Parking System	Council Priority:		

1230-21-CIP-C Signage and Wayfinding

Funding Sources:

		Previous	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	2026/2027	Total
APS	Parking System	\$0	\$0	\$0	\$100,000	\$0	\$100,000	\$0	\$200,000
Project Total:									\$200,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$0	
Construction:	\$300,000	Cost Total: \$300,000
Annual Maint. Cost:		Project Difference: \$-100,000
Maint. Year Start:	2024	

Service Impact:

No service impacts identified as this project is for complete replacement.

Project Justification:

Existing signage will be 20+ years old and should be replaced to improve the user experience.

Location Description:

Hardy Parking Garage, 303 E State Street, Old Town Parking Garage, 125 E Eighth Street, and all field service locations within the parking system.

Six Year Capital Improvement Program

PARKING-CIP-21

Parking

1132-21-CIP **Single Space Meter Expansion**

Project Information

Submitted By:	Nicole VanNess	Department:	Parking Services	This project will allow for expanding meter districts and adding metered parking. Funding is planned for multiple years.
Category:	Visionary	Department Head:	Jean Derenzy	
Fund Group:	Traverse City Parking System	Staff Priority:	Important (Could Do)	
Fund Detail:	Parking System	Council Priority:		

1132-21-CIP-C Single Space Meter Expansion

Funding Sources:

		Previous	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	2026/2027	Total
APS	Parking System	\$0	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000	\$150,000
Project Total:									\$150,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$0	
Construction:	\$150,000	Cost Total: \$150,000
Annual Maint. Cost:	\$5,000	Project Difference: \$0
Maint. Year Start:	2021	

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-CIP-21

Parking

1131-21-CIP Single Space Meter Replacement

Project Information

Submitted By: Nicole VanNess	Department: Parking Services	This project will replace existing coin only meters with pay stations or single space mechanisms that accept coin, cash and credit.
Category: Capital	Department Head: Jean Derenzy	
Fund Group: Traverse City Parking System	Staff Priority: Essential (Should Do)	
Fund Detail: Parking System	Council Priority:	

1131-21-CIP-C Single Space Meter Replacement

Funding Sources:

		Previous	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	2026/2027	Total
APS	Parking System	\$0	\$100,000	\$100,000	\$100,000	\$100,000	\$0	\$0	\$400,000
Project Total:									\$400,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$0	
Construction:	\$400,000	Cost Total: \$400,000
Annual Maint. Cost:	\$20,000	Project Difference: \$0
Maint. Year Start:	2022	

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-CIP-21

Parking

645-21-CIP West Front St Redevelopment (BOND)

Project Information

Submitted By: Jean Derenzy	Department: Parking Services	Build an approximately 481 space parking deck to serve the west side of downtown. This project is a bond.
Category: Visionary	Department Head: Jean Derenzy	
Fund Group: Tax Increment Financing	Staff Priority: Essential (Should Do)	
Fund Detail: TIF 97	Council Priority:	

645-21-CIP-C West Front St Redevelopment (BOND) - Cost

Funding Sources:

		Previous	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	2026/2027	Total
TIF97	TIF 97	\$0	\$0	\$0	\$23,000,000	\$0	\$0	\$0	\$23,000,000
Project Total:									\$23,000,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$1,800,000	
Construction:	\$21,715,600	Cost Total: \$23,515,600
Annual Maint. Cost:	\$500,000	Project Difference: \$-515,600
Maint. Year Start:	2023	

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

All Projects Submitted for 2021-2022

Budget Year 2021-2022 by Program Name

Bold - Indicates projects occurring in the first FY of the plan . + - Indicates projects with multiple funding										Overall Programming Cost		
Project ID	Cat	Previous	Fiscal Year 2021-2022	Fiscal Year 2022-2023	Fiscal Year 2023-2024	Fiscal Year 2024-2025	Fiscal Year 2025-2026	Fiscal Year 2026-2027	Project Cost	City Funds	Non-City Funds	
Parks												
+ 928-21-CIP	American Legion Park Improvements	V	\$0	\$0	\$0	\$0	\$150,000	\$0	\$0	\$150,000	\$35,000	\$115,000
306-21-CIP	Ashton Park Playground	V	\$0	\$0	\$30,000	\$0	\$0	\$0	\$0	\$30,000	\$30,000	\$0
+ 1222-21-CIP	Barrier-free Public Restrooms at the Old Lodge	V	\$0	\$0	\$0	\$0	\$0	\$100,000	\$0	\$100,000	\$25,000	\$75,000
539-21-CIP	Boon Street Park Playground Improvements	V	\$0	\$0	\$58,000	\$0	\$0	\$0	\$0	\$58,000	\$58,000	\$0
+ 26-21-CIP	Bryant Park Improvements	V	\$0	\$0	\$210,000	\$0	\$0	\$0	\$0	\$210,000	\$95,000	\$115,000
1205-21-CIP	Clinch Concession Stand Updates	C	\$0	\$25,000	\$0	\$0	\$0	\$0	\$0	\$25,000	\$25,000	\$0
1208-21-CIP	Clinch Park Kayak & Beach erosion repairs	M	\$0	\$0	\$25,000	\$0	\$0	\$0	\$0	\$25,000	\$25,000	\$0
1188-21-CIP	F&M Park Basketball Court Upgrade	M	\$0	\$30,000	\$0	\$0	\$0	\$0	\$0	\$30,000	\$30,000	\$0
1090-21-CIP	Franklin Street Promenade	C	\$0	\$0	\$0	\$79,500	\$0	\$0	\$0	\$79,500	\$79,500	\$0
1194-21-CIP	Hannah Park Improvements	V	\$0	\$0	\$0	\$336,000	\$0	\$0	\$0	\$300,000	\$336,000	\$0
1203-21-CIP	Hickory Hills Erosion	M	\$0	\$20,000	\$0	\$0	\$0	\$0	\$0	\$20,000	\$20,000	\$0
+ 1218-21-CIP	Hickory Hills Lighting Expansion to Nordic Trails	V	\$0	\$12,000	\$0	\$0	\$0	\$0	\$0	\$12,000	\$6,000	\$6,000
+ 1215-21-CIP	Hickory Hills Lodge Acoustical Improvements	V	\$0	\$0	\$0	\$0	\$0	\$0	\$50,000	\$50,000	\$35,000	\$15,000
1216-21-CIP	Hickory Hills Old Maintenance Building Rehab	V	\$0	\$0	\$0	\$0	\$0	\$25,000	\$0	\$25,000	\$25,000	\$0
+ 1217-21-CIP	Hickory Hills Slope Lighting Replacement	C	\$25,000	\$50,000	\$50,000	\$0	\$0	\$0	\$0	\$125,000	\$75,000	\$50,000
+ 1219-21-CIP	Hickory Hills Specialized Kitchen Equipment	V	\$0	\$0	\$0	\$0	\$5,000	\$0	\$0	\$5,000	\$2,500	\$2,500
1190-21-CIP	Highland Park Play Equipment and entrance	C	\$0	\$30,000	\$0	\$0	\$0	\$0	\$0	\$30,000	\$30,000	\$0
+ 309-21-CIP	Indian Woods Playground	V	\$0	\$112,000	\$0	\$0	\$0	\$0	\$0	\$120,000	\$62,000	\$50,000
1195-21-CIP	Midtown Riverwalk	V	\$0	\$336,000	\$0	\$0	\$0	\$0	\$0	\$600,000	\$336,000	\$0
+ 972-21-CIP	Mini Park Upgrade and East Downtown Entrance	V	\$0	\$0	\$0	\$55,000	\$0	\$0	\$0	\$55,000	\$30,000	\$25,000
785-21-CIP	Natural Features Inventory (Planning Commission)	V	\$0	\$20,000	\$0	\$0	\$0	\$0	\$0	\$20,000	\$20,000	\$0
684-21-CIP	Park Sign Replacement	M	\$0	\$60,000	\$0	\$0	\$0	\$0	\$0	\$60,000	\$60,000	\$0
1196-21-CIP	Riverine Riverwalk	V	\$0	\$0	\$0	\$0	\$392,000	\$392,000	\$0	\$700,000	\$784,000	\$0
543-21-CIP	Rose and Boyd Triangle Park (Jupiter Gardens)	V	\$0	\$0	\$23,000	\$0	\$0	\$0	\$0	\$23,000	\$23,000	\$0

Six Year Capital Improvement Plan

All Projects Submitted for 2021-2022

Budget Year 2021-2022 by Program Name

Bold - Indicates projects occurring in the first FY of the plan . + - Indicates projects with multiple funding										<u>Overall Programming Cost</u>		
Project ID	Cat	Previous	Fiscal Year 2021-2022	Fiscal Year 2022-2023	Fiscal Year 2023-2024	Fiscal Year 2024-2025	Fiscal Year 2025-2026	Fiscal Year 2026-2027	Project Cost	City Funds	Non-City Funds	
Parks												
+ 602-21-CIP	Senior Center -Bayfront Plan	V	\$0	\$0	\$0	\$0	\$161,888	\$0	\$0	\$161,888	\$0	\$161,888
+ 926-21-CIP	Senior Citizen Park Improvements	V	\$0	\$0	\$0	\$0	\$75,000	\$0	\$0	\$75,000	\$35,000	\$40,000
+ 927-21-CIP	Sunset Park Improvements	V	\$0	\$0	\$250,000	\$0	\$0	\$0	\$0	\$250,000	\$100,000	\$150,000
1206-21-CIP	Volleyball Court Upgrades	M	\$0	\$0	\$0	\$45,000	\$0	\$0	\$0	\$45,000	\$45,000	\$0
+ 1207-21-CIP	Wellington Plaza Update	C	\$0	\$0	\$0	\$0	\$100,000	\$0	\$0	\$100,000	\$50,000	\$50,000
+ 1020-21-CIP	West End Beach Bathhouse Project	V	\$0	\$0	\$0	\$383,000	\$0	\$0	\$0	\$383,000	\$163,000	\$220,000
Total Parks			\$695,000	\$646,000	\$898,500	\$883,888	\$517,000	\$50,000	\$3,867,388	\$2,640,000	\$1,075,388	

PARK-CIP-21

Parks

928-21-CIP American Legion Park Improvements

Project Information

Submitted By:	Derek Melville	Department:	Department of Public Services	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.
Category:	Visionary	Department Head:	Frank Dituri	
Fund Group:	General	Staff Priority:	Important (Could Do)	
Fund Detail:	Parks & Rec	Council Priority:		

928-21-CIP-C American Legion Park Improvements (+Grant - Cost)

Funding Sources:

		Previous	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	2026/2027	Total
BBTP	Brown Bridge Trust Parks	\$0	\$0	\$0	\$0	\$35,000	\$0	\$0	\$35,000
LFG	Local / Foundation Grant	\$0	\$0	\$0	\$0	\$65,000	\$0	\$0	\$65,000
P	Private	\$0	\$0	\$0	\$0	\$50,000	\$0	\$0	\$50,000
Project Total:									\$150,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$10,000	
Construction:	\$140,000	Cost Total: \$150,000
Annual Maint. Cost:	\$1,000	Project Difference: \$0
Maint. Year Start:	2024	

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

Six Year Capital Improvement Program

PARK-CIP-21

Parks

306-21-CIP Ashton Park Playground

Project Information

Submitted By: Derek Melville	Department: Department of Public Services	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.
Category: Visionary	Department Head: Frank Dituri	
Fund Group: General	Staff Priority: Essential (Should Do)	
Fund Detail: Parks & Rec	Council Priority:	

306-21-CIP-C Ashton Park Playground - Cost

Funding Sources:

		Previous	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	2026/2027	Total
BBTP	Brown Bridge Trust Parks	\$0	\$0	\$30,000	\$0	\$0	\$0	\$0	\$30,000
Project Total:									\$30,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$0	
Construction:	\$30,000	Cost Total: \$30,000
Annual Maint. Cost:	\$500	Project Difference: \$0
Maint. Year Start:	2024	

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 accessibility.

Location Description:

1200 Wayne Street

Six Year Capital Improvement Program

PARK-CIP-21

Parks

1222-21-CIP Barrier-free Public Restrooms at the Old Lodge

Project Information

Submitted By:	Derek Melville	Department:	Department of Public Services	Accessible, barrier-free public restrooms at the old lodge at Hickory Hills.
Category:	Visionary	Department Head:	Frank Dituri	
Fund Group:	General	Staff Priority:	Important (Could Do)	
Fund Detail:	Parks & Rec	Council Priority:		

1222-21-CIP-C Barrier-free Public Restrooms at the Old Lodge

Funding Sources:

		Previous	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	2026/2027	Total
FSG	Federal / State Grant	\$0	\$0	\$0	\$0	\$0	\$50,000	\$0	\$50,000
GEN	General Fund	\$0	\$0	\$0	\$0	\$0	\$25,000	\$0	\$25,000
P	Private	\$0	\$0	\$0	\$0	\$0	\$25,000	\$0	\$25,000

Project Total: \$100,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$0	
Construction:	\$100,000	Cost Total: \$100,000
Annual Maint. Cost:		Project Difference: \$0
Maint. Year Start:		

Service Impact:

Increased service/accessibility for our user groups.

Project Justification:

Ski Club has requested public restrooms in proximity to the most used slopes for racing season. Seasonally, disc golf users and mountain bike users would like a facility near the middle of the property. This facility will service all user groups at Hickory.

Location Description:

2000 Randolph Street. Hickory Hills.



PARK-CIP-21

Parks

539-21-CIP Boon Street Park Playground Improvements

Project Information

Submitted By: Derek Melville	Department: Department of Public Services	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.
Category: Visionary	Department Head: Frank Dituri	
Fund Group: General	Staff Priority: Essential (Should Do)	
Fund Detail: Parks & Rec	Council Priority:	

539-21-CIP-C Boon Street Park Playground Improvements - Cost

Funding Sources:

		Previous	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	2026/2027	Total
BBTP	Brown Bridge Trust Parks	\$0	\$0	\$58,000	\$0	\$0	\$0	\$0	\$58,000
Project Total:									\$58,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$3,000	
Construction:	\$55,000	Cost Total: \$58,000
Annual Maint. Cost:	\$1,000	Project Difference: \$0
Maint. Year Start:	2021	

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

Six Year Capital Improvement Program

PARK-CIP-21

Parks

26-21-CIP

Bryant Park Improvements

Project Information

Submitted By: Lauren Vaughn
Category: Visionary
Fund Group: General
Fund Detail: Parks & Rec

Department: Department of Public Services
Department Head: Frank Dituri
Staff Priority: Essential (Should Do)
Council Priority:

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 areas 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.

26-21-CIP-C Bryant Park Improvements

Funding Sources:

		Previous	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	2026/2027	Total
BBTP	Brown Bridge Trust Parks	\$0	\$0	\$95,000	\$0	\$0	\$0	\$0	\$95,000
FSG	Federal / State Grant	\$0	\$0	\$100,000	\$0	\$0	\$0	\$0	\$100,000
LFG	Local / Foundation Grant	\$0	\$0	\$15,000	\$0	\$0	\$0	\$0	\$15,000

Project Total: \$210,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$15,000	
Construction:	\$195,000	Cost Total: \$210,000
Annual Maint. Cost:	\$2,000	Project Difference: \$0
Maint. Year Start:	2023	

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

PARK-CIP-21

Parks

1205-21-CIP Clinch Concession Stand Updates

Project Information

Submitted By:	Derek Melville	Department:	Department of Public Services	The concession stand at Clinch Park is in need of HVAC updates to support a full service concession offering in addition to a stand alone ventless hood system. This will allow for a greater food offering at the concession stand, which in turn will offer more revenue opportunities that will eventually benefit the City in the way of higher rents or the ability to run the operations internally.
Category:	Capital	Department Head:	Frank Dituri	
Fund Group:	General	Staff Priority:	Essential (Should Do)	
Fund Detail:	Parks & Rec	Council Priority:		

1205-21-CIP-C Clinch Concession Stand Updates

Funding Sources:

		Previous	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	2026/2027	Total
GEN	General Fund	\$0	\$25,000	\$0	\$0	\$0	\$0	\$0	\$25,000
Project Total:									\$25,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$2,000	
Construction:	\$23,000	
Annual Maint. Cost:		Cost Total: \$25,000
Maint. Year Start:		Project Difference: \$0

Service Impact:

This will have little impact on future city operations unless the city takes over the food concession operations at Clinch Park.

Project Justification:

This update would allow for an internal or external vendor to have a greater food menu offering which would benefit the patrons of Clinch Park and ultimately the City in the way of higher rent revenue.

Location Description:

111 E Grandview Parkway

PARK-CIP-21

Parks

1208-21-CIP **Clinch Park Kayak & Beach erosion repairs**

Project Information

Submitted By:	Derek Melville	Department:	Department of Public Services	Due to the high waters, significant damage took place at Clinch Park in the area near the kayak launch and the beach. Repairs to the rock wall structures are needed as well as repairs to the kayak launch area. Likely new lighting will need to be installed in the rock wall that is underwater.
Category:	Maintenance	Department Head:	Frank Dituri	
Fund Group:	Other	Staff Priority:	Imperative (Must Do)	
Fund Detail:	Parks & Rec	Council Priority:		

1208-21-CIP-C Clinch Park Kayak & Beach repairs

Funding Sources:

		Previous	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	2026/2027	Total
FSG	Federal / State Grant	\$0	\$0	\$25,000	\$0	\$0	\$0	\$0	\$25,000
Project Total:									\$25,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$0	
Construction:	\$25,000	Cost Total: \$25,000
Annual Maint. Cost:		Project Difference: \$0
Maint. Year Start:		

Service Impact:

This will have no impact on future city operations and maintenance.

Project Justification:

For Clinch park kayak launch area and beach to be used as designed, this work needs to be completed.

Location Description:

181 E Grandview Parkway

PARK-CIP-21

Parks

1188-21-CIP F&M Park Basketball Court Upgrade

Project Information

Submitted By:	Derek Melville	Department:	Department of Public Services	Replace asphalt at F&M Court and replace basketball hoops with new system. Paint lines on court.
Category:	Maintenance	Department Head:	Frank Dituri	
Fund Group:	Brown Bridge Trust Parks Impr	Staff Priority:	Essential (Should Do)	
Fund Detail:	Brown Bridge Trust Parks Impr	Council Priority:		

1188-21-CIP-C F&M Park Basketball Court Upgrade

Funding Sources:

		Previous	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	2026/2027	Total
BBTP	Brown Bridge Trust Parks	\$0	\$30,000	\$0	\$0	\$0	\$0	\$0	\$30,000
Project Total:									\$30,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$2,000	
Construction:	\$28,000	Cost Total: \$30,000
Annual Maint. Cost:		Project Difference: \$0
Maint. Year Start:		

Service Impact:

Very little cost for future maintenance. 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

Six Year Capital Improvement Program

PARK-CIP-21

Parks

1090-21-CIP Franklin Street Promenade

Project Information

Submitted By:	Russ Soyring	Department:	Planning and Zoning	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.
Category:	Capital	Department Head:	Russ Soyring	
Fund Group:	General	Staff Priority:	Important (Could Do)	
Fund Detail:	Parks & Rec	Council Priority:		

1090-21-CIP-C Franklin Street Promenade-Cost

Funding Sources:

		Previous	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	2026/2027	Total
GEN	General Fund	\$0	\$0	\$0	\$79,500	\$0	\$0	\$0	\$79,500
Project Total:									\$79,500

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$0	
Construction:	\$79,500	Cost Total: \$79,500
Annual Maint. Cost:		Project Difference: \$0
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

Six Year Capital Improvement Program

PARK-CIP-21

Parks

1194-21-CIP Hannah Park Improvements

Project Information

Submitted By:	Jean Derenzy	Department:	Downtown Development	Improvements for Hannah Park associated with Lower Boardman River.
Category:	Visionary	Department Head:	Jean Derenzy	
Fund Group:	Tax Increment Financing	Staff Priority:	Important (Could Do)	
Fund Detail:	TIF 2	Council Priority:		

1194-21-CIP-C Hannah Park Improvements

Funding Sources:

		Previous	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	2026/2027	Total
TIF2	TIF 2	\$0	\$0	\$0	\$336,000	\$0	\$0	\$0	\$336,000
Project Total:									\$336,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$0	
Construction:	\$300,000	Cost Total: \$300,000
Annual Maint. Cost:	\$5,000	Project Difference: \$36,000
Maint. Year Start:	2024	

Service Impact:

Improve park amenities

Project Justification:

Enhance park for public use

Location Description:

Corner of Union and Sixth Streets

Six Year Capital Improvement Program

PARK-CIP-21

Parks

1203-21-CIP Hickory Hills Erosion

Project Information

Submitted By: Derek Melville	Department: Department of Public Services	As a result of the significant rain events we have been having, we continue to have erosion related issues and repairs needed at Hickory Hills. Much of the erosion areas are in "old" areas that were not affected by construction.
Category: Maintenance	Department Head: Frank Dituri	
Fund Group: General	Staff Priority: Imperative (Must Do)	
Fund Detail: Parks & Rec	Council Priority:	

1203-21-CIP-C Hickory Hills Erosion

Funding Sources:

		Previous	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	2026/2027	Total
GEN	General Fund	\$0	\$20,000	\$0	\$0	\$0	\$0	\$0	\$20,000
Project Total:									\$20,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$0	
Construction:	\$20,000	Cost Total: \$20,000
Annual Maint. Cost:		Project Difference: \$0
Maint. Year Start:		

Service Impact:

This project will decrease future maintenance costs for the City in the way of less time and materials repairing issues after every significant rain event.

Project Justification:

To ensure Hickory Hills site grounds are safe for all users we need to perform these erosion control measures to limit rutting on site and runoff to the neighboring properties, as well as keeping our storm water systems clear of debris so they operate properly.

Location Description:

2000 Randolph St

Six Year Capital Improvement Program

PARK-CIP-21

Parks

1218-21-CIP Hickory Hills Lighting Expansion to Nordic Trails

Project Information

Submitted By:	Derek Melville	Department:	Department of Public Services	Expansion of usable terrain for Nordic skiing in the evening hours in an area that is closest to the lodge.
Category:	Visionary	Department Head:	Frank Dituri	
Fund Group:	General	Staff Priority:	Important (Could Do)	
Fund Detail:	Parks & Rec	Council Priority:		

1218-21-CIP-C Hickory Hills Lighting Expansion to Nordic Trails

Funding Sources:

		Previous	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	2026/2027	Total
GEN	General Fund	\$0	\$6,000	\$0	\$0	\$0	\$0	\$0	\$6,000
P	Private	\$0	\$6,000	\$0	\$0	\$0	\$0	\$0	\$6,000
Project Total:									\$12,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$0	
Construction:	\$12,000	Cost Total: \$12,000
Annual Maint. Cost:		Project Difference: \$0
Maint. Year Start:		

Service Impact:

Part of the Hickory Hills Master Plan discussion. Allows full utilization of the Nordic Trails as use increases.

Project Justification:

Expand safe, usable terrain for Nordic users in the evening hours.

Location Description:

Hickory Hills. 2000 Randolph Street.

Six Year Capital Improvement Program

PARK-CIP-21

Parks

1215-21-CIP Hickory Hills Lodge Acoustical Improvements

Project Information

Submitted By:	Derek Melville	Department:	Department of Public Services	During initial construction of the new lodge in 2018, acoustic work was deferred for cost savings. After two years of operation, the lack of acoustics in the main event area could be detrimental to future rentals.
Category:	Visionary	Department Head:	Frank Dituri	
Fund Group:	General	Staff Priority:	Important (Could Do)	
Fund Detail:	Parks & Rec	Council Priority:		

1215-21-CIP-C Hickory Hills Lodge Acoustic Improvements

Funding Sources:

		Previous	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	2026/2027	Total
GEN	General Fund	\$0	\$0	\$0	\$0	\$0	\$0	\$35,000	\$35,000
P	Private	\$0	\$0	\$0	\$0	\$0	\$0	\$15,000	\$15,000
Project Total:									\$50,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$0	
Construction:	\$50,000	Cost Total: \$50,000
Annual Maint. Cost:		Project Difference: \$0
Maint. Year Start:		

Service Impact:

Increase revenue flow at Hickory Hills.

Project Justification:

Provide a quality sound system for the lodge to be used as a rental facility to generate revenue. Generating revenue was identified in the Hickory Hills Master Plan.

Location Description:

Hickory Hills. 2000 Randolph Street.

PARK-CIP-21

Parks

1216-21-CIP Hickory Hills Old Maintenance Building Rehab

Project Information

Submitted By:	Derek Melville	Department:	Department of Public Services	Replace the roof, deteriorated metal siding, and garage/entry door. Expand the footprint for additional cold storage of summer & winter equipment used by the Grand Traverse Ski Club, Nordic Trail users, Mountain Bikers, and Disc Golf users.
Category:	Visionary	Department Head:	Frank Dituri	
Fund Group:	General	Staff Priority:	Important (Could Do)	
Fund Detail:	Parks & Rec	Council Priority:		

1216-21-CIP-C Hickory Hills Old Maintenance Building Rehab

Funding Sources:

		Previous	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	2026/2027	Total
GEN	General Fund	\$0	\$0	\$0	\$0	\$0	\$25,000	\$0	\$25,000
Project Total:									\$25,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$0	
Construction:	\$25,000	Cost Total: \$25,000
Annual Maint. Cost:		Project Difference: \$0
Maint. Year Start:		

Service Impact:

Necessary cold storage for equipment that would otherwise be damaged if left outdoors year-round.

Project Justification:

Improve existing facilities to provide adequate storage. Will support activities identified in the Hickory Hills Master Plan discussion by increasing activities.

Location Description:

Hickory Hills. 2000 Randolph Street.

Six Year Capital Improvement Program

PARK-CIP-21

Parks

1217-21-CIP Hickory Hills Slope Lighting Replacement

Project Information

Submitted By:	Derek Melville	Department:	Department of Public Services	Replace 1000 watt fixtures with LED efficient fixtures. The new fixtures are three times more efficient and will reduce energy costs.
Category:	Capital	Department Head:	Frank Dituri	
Fund Group:	General	Staff Priority:	Important (Could Do)	
Fund Detail:	Parks & Rec	Council Priority:		

1217-21-CIP-C Hickory Hills Slope Lighting Replacement

Funding Sources:

		Previous	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	2026/2027	Total
FSG	Federal / State Grant	\$0	\$50,000	\$0	\$0	\$0	\$0	\$0	\$50,000
GEN	General Fund	\$0	\$0	\$50,000	\$0	\$0	\$0	\$0	\$50,000
LAP	Light and Power	\$25,000	\$0	\$0	\$0	\$0	\$0	\$0	\$25,000

Project Total: \$125,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$0	
Construction:	\$125,000	Cost Total: \$125,000
Annual Maint. Cost:		Project Difference: \$0
Maint. Year Start:		

Service Impact:

Will reduce energy costs and energy usage.

Project Justification:

Provide better and safer lighting for the ski hill users and reduce overall energy usage. Part of the Hickory Hills Master Plan discussion regarding sustainability.

Location Description:

Hickory Hills. 2000 Randolph Street.

Six Year Capital Improvement Program

PARK-CIP-21

Parks

1219-21-CIP Hickory Hills Specialized Kitchen Equipment

Project Information

Submitted By: Derek Melville	Department: Department of Public Services	Purchase specialized kitchen equipment that was outlined in the Profitable Foods Report. Specialized equipment will help diversify the food menu and increase revenue.
Category: Visionary	Department Head: Frank Dituri	
Fund Group: General	Staff Priority: Important (Could Do)	
Fund Detail: Parks & Rec	Council Priority:	

1219-21-CIP-C Hickory Hills Specialized Kitchen Equipment

Funding Sources:

		Previous	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	2026/2027	Total
GEN	General Fund	\$0	\$0	\$0	\$0	\$2,500	\$0	\$0	\$2,500
P	Private	\$0	\$0	\$0	\$0	\$2,500	\$0	\$0	\$2,500
Project Total:									\$5,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$0	
Construction:	\$5,000	Cost Total: \$5,000
Annual Maint. Cost:		Project Difference: \$0
Maint. Year Start:		

Service Impact:

Complete Profitable Foods recommendations to increase revenue as identified in the Hickory Hills Master Plan.

Project Justification:

An extension of the Hickory Hills Master Plan.

Location Description:

Hickory Hills. 2000 Randolph Street.

PARK-CIP-21

Parks

1190-21-CIP Highland Park Play Equipment and entrance

Project Information

Submitted By:	Derek Melville	Department:	Department of Public Services	Replace existing playground equipment at Highland Park, improve entrance area with signage, bike parking, bench.
Category:	Capital	Department Head:	Frank Dituri	
Fund Group:	Brown Bridge Trust Parks Impr	Staff Priority:	Important (Could Do)	
Fund Detail:	Brown Bridge Trust Parks Impr	Council Priority:		

1190-21-CIP-C Highland Park Play Equipment and entrance

Funding Sources:

		Previous	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	2026/2027	Total
BBTP	Brown Bridge Trust Parks	\$0	\$30,000	\$0	\$0	\$0	\$0	\$0	\$30,000
Project Total:									\$30,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$0	
Construction:	\$30,000	Cost Total: \$30,000
Annual Maint. Cost:		Project Difference: \$0
Maint. Year Start:		

Service Impact:

Minor maintenance costs, no operational impact.

Project Justification:

Included within BBTF ballot renewal plan.

Location Description:

HIGHLAND PARK Dr

Six Year Capital Improvement Program

PARK-CIP-21

Parks

309-21-CIP **Indian Woods Playground**

Project Information

Submitted By:	Lauren Vaughn	Department:	Department of Public Services	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.
Category:	Visionary	Department Head:	Frank Dituri	
Fund Group:	General	Staff Priority:	Essential (Should Do)	
Fund Detail:	Parks & Rec	Council Priority:		

309-21-CIP-C Indian Woods Playground - Cost

Funding Sources:

		Previous	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	2026/2027	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:									\$112,000

COST DETAIL:

Study:	\$0		
Land Acquisition / ROW:	\$0		
Engineering / Design:	\$10,000		
Construction:	\$110,000	Cost Total:	\$120,000
Annual Maint. Cost:	\$1,000	Project Difference:	\$-8,000
Maint. Year Start:	2021		

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

Six Year Capital Improvement Program

PARK-CIP-21

Parks

1195-21-CIP **Midtown Riverwalk**

Project Information

Submitted By:	Jean Derenzy	Department:	Parking Services	Maintenance, upgrades and possible replacements for Midtown Riverwalk.
Category:	Visionary	Department Head:	Jean Derenzy	
Fund Group:	Tax Increment Financing	Staff Priority:	Important (Could Do)	
Fund Detail:	TIF 2	Council Priority:		

1195-21-CIP-C Midtown Riverwalk

Funding Sources:

		Previous	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	2026/2027	Total
TIF2	TIF 2	\$0	\$336,000	\$0	\$0	\$0	\$0	\$0	\$336,000
Project Total:									\$336,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$0	
Construction:	\$600,000	Cost Total: \$600,000
Annual Maint. Cost:	\$15,000	Project Difference: \$-264,000
Maint. Year Start:	2023	

Service Impact:

Replace and repair damaged boardwalk

Project Justification:

Increase safety for public use

Location Description:

Boardwalk along Midtown Development Adjacent to Eighth Street

Six Year Capital Improvement Program

PARK-CIP-21

Parks

972-21-CIP Mini Park Upgrade and East Downtown Entrance

Project Information

Submitted By:	Lauren Vaughn	Department:	Department of Public Services	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.
Category:	Visionary	Department Head:	Frank Dituri	
Fund Group:	General	Staff Priority:	Important (Could Do)	
Fund Detail:	Parks & Rec	Council Priority:		

972-21-CIP-C Mini Park Upgrade and East Downtown Entran - Cost

Funding Sources:

		Previous	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	2026/2027	Total
BBTP	Brown Bridge Trust Parks	\$0	\$0	\$0	\$25,000	\$0	\$0	\$0	\$25,000
GEN	General Fund	\$0	\$0	\$0	\$5,000	\$0	\$0	\$0	\$5,000
P	Private	\$0	\$0	\$0	\$25,000	\$0	\$0	\$0	\$25,000
Project Total:									\$55,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$10,000	
Construction:	\$45,000	Cost Total: \$55,000
Annual Maint. Cost:	\$1,000	Project Difference: \$0
Maint. Year Start:	2024	

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-CIP-21

Parks

785-21-CIP **Natural Features Inventory (Planning Commission)**

Project Information

Submitted By:	Russ Soyring	Department:	Planning and Zoning	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.
Category:	Visionary	Department Head:	Russ Soyring	
Fund Group:	General	Staff Priority:	Important (Could Do)	
Fund Detail:	Parks & Rec	Council Priority:		

785-21-CIP-C Natural Features Inventory (Planning) - Cost

Funding Sources:

		Previous	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	2026/2027	Total
GEN	General Fund	\$0	\$20,000	\$0	\$0	\$0	\$0	\$0	\$20,000
Project Total:									\$20,000

COST DETAIL:

Study:	\$20,000		
Land Acquisition / ROW:	\$0		
Engineering / Design:	\$0		
Construction:	\$0	Cost Total:	\$20,000
Annual Maint. Cost:		Project Difference:	\$0
Maint. Year Start:			

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.

Six Year Capital Improvement Program

PARK-CIP-21

Parks

684-21-CIP **Park Sign Replacement**

Project Information

Submitted By:	Lauren Vaughn	Department:	Department of Public Services	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. Funding for this source was already allocated in the 2019/2020 CIP, but the project was paused due to COVID. We are not requesting additional dollars in the CIP, as the funds are already secured.
Category:	Maintenance	Department Head:	Frank Dituri	
Fund Group:	General	Staff Priority:	Essential (Should Do)	
Fund Detail:	Parks & Rec	Council Priority:		

684-21-CIP-C Park Sign Replacement - Cost

Funding Sources:

		Previous	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	2026/2027	Total
GEN	General Fund	\$0	\$60,000	\$0	\$0	\$0	\$0	\$0	\$60,000
Project Total:									\$60,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$4,000	
Construction:	\$56,000	Cost Total: \$60,000
Annual Maint. Cost:	\$500	Project Difference: \$0
Maint. Year Start:	2022	

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



Six Year Capital Improvement Program

PARK-CIP-21

Parks

1196-21-CIP **Riverine Riverwalk**

Project Information

Submitted By:	Jean Derenzy	Department:	Downtown Development	Lower Boardman River improvements to accessibility related to Lower Boardman River Unified Plan.
Category:	Visionary	Department Head:	Jean Derenzy	
Fund Group:	Tax Increment Financing	Staff Priority:	Important (Could Do)	
Fund Detail:	TIF 2	Council Priority:		

1196-21-CIP-C Riverine Riverwalk

Funding Sources:

		Previous	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	2026/2027	Total
TIF2	TIF 2	\$0	\$0	\$0	\$0	\$392,000	\$392,000	\$0	\$784,000
Project Total:									\$784,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$0	
Construction:	\$700,000	Cost Total: \$700,000
Annual Maint. Cost:	\$15,000	Project Difference: \$84,000
Maint. Year Start:	2025	

Service Impact:

Enhance riverwalk

Project Justification:

Enhance the riverwalk for public use

Location Description:

Boardman River south of Eighth Street

PARK-CIP-21

Parks

543-21-CIP **Rose and Boyd Triangle Park (Jupiter Gardens)**

Project Information

Submitted By:	Derek Melville	Department:	Department of Public Services	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.
Category:	Visionary	Department Head:	Frank Dituri	
Fund Group:	General	Staff Priority:	Essential (Should Do)	
Fund Detail:	Parks & Rec	Council Priority:		

543-21-CIP-C Jupiter Gardens Upgrade

Funding Sources:

		Previous	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	2026/2027	Total
BBTP	Brown Bridge Trust Parks	\$0	\$0	\$23,000	\$0	\$0	\$0	\$0	\$23,000
Project Total:									\$23,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$1,000	
Construction:	\$22,000	Cost Total: \$23,000
Annual Maint. Cost:	\$1,500	Project Difference: \$0
Maint. Year Start:	2022	

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-CIP-21

Parks

602-21-CIP Senior Center -Bayfront Plan

Project Information

Submitted By:	Russ Soyring	Department:	Planning and Zoning	Sidewalks, new parking lot improvement and Stormwater Treatment Structure are key elements of the project.
Category:	Visionary	Department Head:	Frank Dituri	
Fund Group:	Bayfront Plan NON-TIF Implem	Staff Priority:	Important (Could Do)	
Fund Detail:	Parks & Rec	Council Priority:		

602-21-CIP-C Senior Center Bayfront Phase (+Grant) - Cost

Funding Sources:

		Previous	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	2026/2027	Total
FSG	Federal / State Grant	\$0	\$0	\$0	\$0	\$50,000	\$0	\$0	\$50,000
P	Private	\$0	\$0	\$0	\$0	\$111,888	\$0	\$0	\$111,888
Project Total:									\$161,888

COST DETAIL:

Study:	\$4,000	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$11,410	
Construction:	\$146,478	Cost Total: \$161,888
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-CIP-21

Parks

926-21-CIP Senior Citizen Park Improvements

Project Information

Submitted By: Lauren Vaughn	Department: Department of Public Services	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.
Category: Visionary	Department Head: Frank Dituri	
Fund Group: General	Staff Priority: Essential (Should Do)	
Fund Detail: Parks & Rec	Council Priority:	

926-21-CIP-C Senior Citizen Park Improvements (Grant +P - Cost)

Funding Sources:

		Previous	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	2026/2027	Total
BBTP	Brown Bridge Trust Parks	\$0	\$0	\$0	\$0	\$35,000	\$0	\$0	\$35,000
LFG	Local / Foundation Grant	\$0	\$0	\$0	\$0	\$35,000	\$0	\$0	\$35,000
P	Private	\$0	\$0	\$0	\$0	\$5,000	\$0	\$0	\$5,000
Project Total:									\$75,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$2,000	
Construction:	\$73,000	Cost Total: \$75,000
Annual Maint. Cost:	\$500	Project Difference: \$0
Maint. Year Start:	2025	

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.

Location Description:

801 E Front Street

Six Year Capital Improvement Program

PARK-CIP-21

Parks

927-21-CIP

Sunset Park Improvements

Project Information

Submitted By:	Lauren Vaughn	Department:	Department of Public Services	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.
Category:	Visionary	Department Head:	Frank Dituri	
Fund Group:	General	Staff Priority:	Essential (Should Do)	
Fund Detail:	Parks & Rec	Council Priority:		

927-21-CIP-C Sunset Park Improvements (+Grant +Private - Cost)

Funding Sources:

		Previous	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	2026/2027	Total
BBTP	Brown Bridge Trust Parks	\$0	\$0	\$100,000	\$0	\$0	\$0	\$0	\$100,000
FSG	Federal / State Grant	\$0	\$0	\$100,000	\$0	\$0	\$0	\$0	\$100,000
LFG	Local / Foundation Grant	\$0	\$0	\$25,000	\$0	\$0	\$0	\$0	\$25,000
P	Private	\$0	\$0	\$25,000	\$0	\$0	\$0	\$0	\$25,000
Project Total:									\$250,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$20,000	
Construction:	\$230,000	Cost Total: \$250,000
Annual Maint. Cost:	\$2,500	Project Difference: \$0
Maint. Year Start:	2024	

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

Six Year Capital Improvement Program

PARK-CIP-21

Parks

1206-21-CIP **Volleyball Court Upgrades**

Project Information

Submitted By:	Derek Melville	Department:	Department of Public Services	This project would include replacing all of the sand at the existing courts, adding a second fence to the north side of the existing courts, and possibly expanding 2 extra courts if supported by the Parks & Rec Commission
Category:	Maintenance	Department Head:	Frank Dituri	
Fund Group:	Brown Bridge Trust Parks Impr	Staff Priority:	Essential (Should Do)	
Fund Detail:	Parks & Rec	Council Priority:		

1206-21-CIP-C Volleyball Court Upgrades

Funding Sources:

		Previous	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	2026/2027	Total
BBTP	Brown Bridge Trust Parks	\$0	\$0	\$0	\$45,000	\$0	\$0	\$0	\$45,000
Project Total:									\$45,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$0	
Construction:	\$45,000	Cost Total: \$45,000
Annual Maint. Cost:		Project Difference: \$0
Maint. Year Start:		

Service Impact:

This will not impact city operations from a maintenance perspective.

Project Justification:

This is a request from the community and supported preliminary from the parks and recreation commission. Final approval is pending with regard to the utilization of BBTF dollars.

Location Description:

322 w Grandview parkway

Six Year Capital Improvement Program

PARK-CIP-21

Parks

1207-21-CIP

Wellington Plaza Update

Project Information

Submitted By:	Derek Melville	Department:	Department of Public Services	The details of this project are still in development. This project will include significant changes to Wellington Plaza as it needs repairs due to erosion from the high water levels, so the timing makes sense to complete an overall park redesign. As more details are available this project will be updated.
Category:	Capital	Department Head:	Frank Dituri	
Fund Group:	Brown Bridge Trust Parks Impr	Staff Priority:	Essential (Should Do)	
Fund Detail:	Parks & Rec	Council Priority:		

1207-21-CIP-C

Wellington Plaza UPdate

Funding Sources:

		Previous	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	2026/2027	Total
BBTP	Brown Bridge Trust Parks	\$0	\$0	\$0	\$0	\$50,000	\$0	\$0	\$50,000
FSG	Federal / State Grant	\$0	\$0	\$0	\$0	\$50,000	\$0	\$0	\$50,000
Project Total:									\$100,000

COST DETAIL:

Study:	\$0		
Land Acquisition / ROW:	\$0		
Engineering / Design:	\$0		
Construction:	\$100,000	Cost Total:	\$100,000
Annual Maint. Cost:		Project Difference:	\$0
Maint. Year Start:			

Service Impact:

Future impact will likely result in more maintenance costs, depending on the infrastructure that is placed. Details are not available yet at this time.

Project Justification:

This is supported in the Plan-It-East study as well as the Parks and Recreation master plan.

Location Description:

501 E Front

PARK-CIP-21

Parks

1020-21-CIP West End Beach Bathhouse Project

Project Information

Submitted By: Derek Melville	Department: Department of Public Services	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.
Category: Visionary	Department Head: Frank Dituri	
Fund Group: General	Staff Priority: Essential (Should Do)	
Fund Detail: Parks & Rec	Council Priority:	

1020-21-CIP-C West End Beach Bathhouse Project

Funding Sources:

		Previous	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	2026/2027	Total
BBTP	Brown Bridge Trust Parks	\$0	\$0	\$0	\$120,000	\$0	\$0	\$0	\$120,000
GEN	General Fund	\$0	\$0	\$0	\$43,000	\$0	\$0	\$0	\$43,000
LFG	Local / Foundation Grant	\$0	\$0	\$0	\$220,000	\$0	\$0	\$0	\$220,000
								Project Total:	\$383,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$43,000	
Construction:	\$340,000	Cost Total: \$383,000
Annual Maint. Cost:	\$2,000	Project Difference: \$0
Maint. Year Start:	2023	

Service Impact:

Minimal impact to city operations with regard to maintenance or cost increases as there is an existing bathhouse 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

Six Year Capital Improvement Plan

All Projects Submitted for 2021-2022

Budget Year 2021-2022 by Program Name

Bold - Indicates projects occurring in the first FY of the plan . + - Indicates projects with multiple funding										<u>Overall Programming Cost</u>		
Project ID	Cat	Previous	Fiscal Year 2021-2022	Fiscal Year 2022-2023	Fiscal Year 2023-2024	Fiscal Year 2024-2025	Fiscal Year 2025-2026	Fiscal Year 2026-2027	Project Cost	City Funds	Non-City Funds	
Police												
+ 1154-21-CIP	Digital Cameras for Downtown Traverse City	C	\$0	\$0	\$0	\$0	\$0	\$0	\$125,000	\$125,000	\$25,000	\$100,000
Total Police			\$0	\$0	\$0	\$0	\$0	\$0	\$125,000	\$125,000	\$25,000	\$100,000



Six Year Capital Improvement Program

POLICE-CIP-21

Police

1154-21-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 safety and to reduce illicit behavior in our downtown.
Category:	Capital	Department Head:	Jeffery O'Brien	
Fund Group:	General	Staff Priority:	Imperative (Must Do)	
Fund Detail:	Police	Council Priority:		

1154-21-CIP-C Digital Cameras for Downtown Traverse City

Funding Sources:

		Previous	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	2026/2027	Total
FSG	Federal / State Grant	\$0	\$0	\$0	\$0	\$0	\$0	\$100,000	\$100,000
TIF97	TIF 97	\$0	\$0	\$0	\$0	\$0	\$0	\$25,000	\$25,000
Project Total:									\$125,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$0	
Construction:	\$125,000	Cost Total: \$125,000
Annual Maint. Cost:	\$10,000	Project Difference: \$0
Maint. Year Start:	2022	

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

Six Year Capital Improvement Plan

All Projects Submitted for 2021-2022

Budget Year 2021-2022 by Program Name

Bold - Indicates projects occurring in the first FY of the plan . + - Indicates projects with multiple funding										Overall Programming Cost		
Project ID	Cat	Previous	Fiscal Year 2021-2022	Fiscal Year 2022-2023	Fiscal Year 2023-2024	Fiscal Year 2024-2025	Fiscal Year 2025-2026	Fiscal Year 2026-2027	Project Cost	City Funds	Non-City Funds	
Streets												
+ 14-21-CIP	Annual Street Reconstruction Program	M	\$3,804,819	\$598,000	\$596,000	\$595,000	\$0	\$0	\$0	\$0	\$5,593,819	\$0
1233-21-CIP	East Front Street Improvements	C	\$0	\$25,000	\$0	\$0	\$4,200,000	\$0	\$0	\$3,862,500	\$4,225,000	\$0
1087-21-CIP	Front Street Streetscapes	M	\$0	\$336,000	\$280,000	\$0	\$0	\$0	\$0	\$2,000,000	\$616,000	\$0
+ 1115-21-CIP	Garfield Ave Resurfacing (Hannah to Front St)	C	\$0	\$412,500	\$0	\$0	\$0	\$0	\$0	\$412,500	\$82,500	\$330,000
616-21-CIP	Grand Traverse Commons Infrastructure	V	\$0	\$223,095	\$690,000	\$310,000	\$0	\$0	\$0	\$1,223,095	\$0	\$1,223,095
713-21-CIP	Grandview Parkway Pedestrian Crossing Enhancement	V	\$0	\$0	\$0	\$560,000	\$0	\$0	\$0	\$500,000	\$560,000	\$0
+ 1130-21-CIP	Highway Safety Improvement Program (HSIP)	C	\$695,800	\$0	\$0	\$0	\$0	\$0	\$0	\$715,700	\$138,500	\$557,300
1088-21-CIP	State Street Streetscapes	M	\$0	\$336,000	\$280,000	\$0	\$0	\$0	\$0	\$1,000,000	\$616,000	\$0
1232-21-CIP	State/Boardman/Pine Street Two-Way Conversion	V	\$0	\$25,000	\$400,000	\$0	\$0	\$0	\$0	\$425,000	\$425,000	\$0
889-21-CIP	Traffic Calming	V	\$200,000	\$100,000	\$100,000	\$100,000	\$0	\$0	\$0	\$0	\$500,000	\$0
15-21-CIP	Traffic Signal Improvements	V	\$45,000	\$22,500	\$22,500	\$0	\$0	\$0	\$0	\$0	\$90,000	\$0
16-21-CIP	Traffic Signal Upgrades	V	\$180,000	\$60,000	\$60,000	\$60,000	\$0	\$0	\$0	\$0	\$360,000	\$0
1089-21-CIP	Tree Replacement	M	\$0	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000	\$150,000	\$150,000	\$0
1197-21-CIP	Union Street Streetscapes	V	\$0	\$0	\$0	\$0	\$0	\$330,000	\$369,600	\$699,600	\$699,600	\$0
Total Streets			\$2,163,095	\$2,453,500	\$1,650,000	\$4,225,000	\$355,000	\$394,600	\$10,988,395	\$14,056,419	\$2,110,395	



City of
TRAVERSE CITY

Six Year Capital Improvement Program

STREETS-CIP-21

Streets

City-wide

STREETS-CIP-21

Streets

1233-21-CIP **East Front Street Improvements**

Project Information

Submitted By:	Jean Derenzy	Department:	Downtown Development	Street reconstruction with utility rehabilitation and replacement. New curbs, street trees, benches, bike racks, and sidewalk along East Front between Boardman Ave. and Grandview Parkway. The City will request participation from TCLP for lighting associated with the streetscape. Please see CIP project 1043 for TCLP work items. Utility funds will be utilized and coordinated with the street project. The utility projects associated with this project are in the CIP: 1052 and 1053. This project should incorporate Project 972-21 (Mini Park Upgrade)
Category:	Capital	Department Head:	Jean Derenzy	
Fund Group:	Tax Increment Financing	Staff Priority:	Essential (Should Do)	
Fund Detail:	TIF 97	Council Priority:		

TIF 97 Funds or another source of funding to be used in 2020/2021 for cost estimates from Plan originated in 2017/2018.

1233-21-CIP-C East Front Street Improvements

Funding Sources:

		Previous	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	2026/2027	Total
TIF97	TIF 97	\$0	\$25,000	\$0	\$0	\$4,200,000	\$0	\$0	\$4,225,000
Project Total:									\$4,225,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$120,000	
Construction:	\$3,742,500	Cost Total: \$3,862,500
Annual Maint. Cost:	\$20,000	Project Difference: \$362,500
Maint. Year Start:	2024	

Service Impact:

Less impact for City operations for repair and maintenance for the streets and sidewalks.

Project Justification:

There have been no improvements to East Front Street for over 25 years.

Location Description:

East Front Street from Grandview Parkway to Boardman Ave



Six Year Capital Improvement Program

STREETS-CIP-21

Streets

1087-21-CIP **Front Street Streetscapes**

Project Information

Submitted By: Jean Derenzy	Department: Downtown Development	Upgrade streetscapes on Front Street. Boardman Ave to Pine St. This project will include sidewalk snowmelt.
Category: Maintenance	Department Head: Jean Derenzy	
Fund Group: Tax Increment Financing	Staff Priority: Essential (Should Do)	
Fund Detail: TIF 97	Council Priority:	

1087-21-CIP-C Front Street Streetscapes Cost

Funding Sources:

		Previous	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	2026/2027	Total
TIF97	TIF 97	\$0	\$336,000	\$280,000	\$0	\$0	\$0	\$0	\$616,000
Project Total:									\$616,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$0	
Construction:	\$2,000,000	Cost Total: \$2,000,000
Annual Maint. Cost:		Project Difference: \$-1,384,000
Maint. Year Start:	2022	

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-CIP-21

Streets

1115-21-CIP Garfield Ave Resurfacing (Hannah to Front St)

Project Information

Submitted By:	Tim Lodge	Department:	Engineering	Garfield Ave. Resurfacing 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.
Category:	Capital	Department Head:	Tim Lodge	
Fund Group:	General	Staff Priority:	Essential (Should Do)	
Fund Detail:	Streets	Council Priority:		

1115-21-CIP-C TBD Street Reconstruction-C

Funding Sources:

		Previous	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	2026/2027	Total
FSG	Federal / State Grant	\$0	\$330,000	\$0	\$0	\$0	\$0	\$0	\$330,000
GEN	General Fund	\$0	\$82,500	\$0	\$0	\$0	\$0	\$0	\$82,500
Project Total:									\$412,500

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$0	
Construction:	\$412,500	Cost Total: \$412,500
Annual Maint. Cost:		Project Difference: \$0
Maint. Year Start:		

Service Impact:

None.

Project Justification:

Street Resurfacing

Location Description:

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

STREETS-CIP-21

Streets

616-21-CIP Grand Traverse Commons Infrastructure

Project Information

Submitted By: Tim Lodge
Category: Visionary
Fund Group: General
Fund Detail: Streets

Department: Engineering
Department Head: Tim Lodge
Staff Priority: Imperative (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.

616-21-CIP-C Grand Traverse Commons Infrastructure - Cost

Funding Sources:

		Previous	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	2026/2027	Total
BR	Brownfield	\$0	\$223,095	\$690,000	\$310,000	\$0	\$0	\$0	\$1,223,095
Project Total:									\$1,223,095

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$0	
Construction:	\$1,223,095	Cost Total: \$1,223,095
Annual Maint. Cost:		Project Difference: \$0
Maint. Year Start:		

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-CIP-21

Streets

713-21-CIP Grandview Parkway Pedestrian Crossing Enhancement

Project Information

Submitted By: Rob Baciagalupi	Department: Downtown Development	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.
Category: Visionary	Department Head: Jean Derenzy	
Fund Group: Tax Increment Financing	Staff Priority:	
Fund Detail: TIF 97	Council Priority:	

713-21-CIP-C Grandview Parkway Pedestrian Crossing Enha - Cost

Funding Sources:

		Previous	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	2026/2027	Total
TIF97	TIF 97	\$0	\$0	\$0	\$560,000	\$0	\$0	\$0	\$560,000
Project Total:									\$560,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$0	
Construction:	\$500,000	Cost Total: \$500,000
Annual Maint. Cost:		Project Difference: \$60,000
Maint. Year Start:		

Service Impact:

None foreseen

Project Justification:

Crossing enhancement/Connectivity

Location Description:

Grandview Parkway

STREETS-CIP-21

Streets

1130-21-CIP Highway Safety Improvement Program (HSIP)

Project Information

Submitted By:	Tim Lodge	Department:	Engineering	Replacement of the traffic signal at the Parsons and Airport Access Intersection with a roundabout for MDOT's 2020 fiscal year. The project is valued at \$652,000 for which the City is responsible for \$94,700 with the program paying the other \$557,300. 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.
Category:	Capital	Department Head:	Tim Lodge	
Fund Group:	General	Staff Priority:	Essential (Should Do)	
Fund Detail:	Available Capital Projects Fund	Council Priority:		

1130-21-CIP-C Highway Safety Improvement Program (HSIP)

Funding Sources:

		Previous	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	2026/2027	Total
ACPF	Available Capital Projects Fund	\$70,000	\$0	\$0	\$0	\$0	\$0	\$0	\$70,000
FSG	Federal / State Grant	\$557,300	\$0	\$0	\$0	\$0	\$0	\$0	\$557,300
GEN	General Fund	\$68,500	\$0	\$0	\$0	\$0	\$0	\$0	\$68,500
Project Total:									\$695,800

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$20,000	
Construction:	\$695,700	Cost Total: \$715,700
Annual Maint. Cost:		Project Difference: \$-19,900
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.

Six Year Capital Improvement Program

STREETS-CIP-21

Streets

1088-21-CIP State Street Streetscapes

Project Information

Submitted By: Jean Derenzy	Department: Downtown Development	Half costs associated with new streetscapes, including snow melt systems. New developments to pay for half.
Category: Maintenance	Department Head: Jean Derenzy	2020/2021: 160 E. State Street
Fund Group: Tax Increment Financing	Staff Priority: Essential (Should Do)	2021/2022: 222 E. State Street
Fund Detail: TIF 97	Council Priority:	2022/2023: 231 E. State Street

1088-21-CIP-C State Street Streetscapes Cost

Funding Sources:

		Previous	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	2026/2027	Total
TIF97	TIF 97	\$0	\$336,000	\$280,000	\$0	\$0	\$0	\$0	\$616,000
Project Total:									\$616,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$0	
Construction:	\$1,000,000	Cost Total: \$1,000,000
Annual Maint. Cost:		Project Difference: \$-384,000
Maint. Year Start:	2022	

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-CIP-21

Streets

1232-21-CIP **State/Boardman/Pine Street Two-Way Conversion**

Project Information

Submitted By:	Jean Derenzy	Department:	Downtown Development	Repurpose State Street (Between Boardman and Front from a one-way street to a two-way street. After the success of the two-way traffic during the summer of 2020, further investigate the feasibility of converting State, Boardman and Pine Streets in the Downtown from one-way to two-way. If the study determines the conversion is feasible, plan for implementation to take place in FY22/23 prior to future constructions MDOT bridge/road projects in order to mitigate traffic issues in the downtown.
Category:	Visionary	Department Head:	Jean Derenzy	
Fund Group:	Tax Increment Financing	Staff Priority:	Essential (Should Do)	
Fund Detail:	TIF 97	Council Priority:		

1232-21-CIP Jean Derenzy

Funding Sources:

		Previous	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	2026/2027	Total
TIF97	TIF 97	\$0	\$25,000	\$400,000	\$0	\$0	\$0	\$0	\$425,000
Project Total:									\$425,000

COST DETAIL:

Study:	\$25,000		
Land Acquisition / ROW:	\$0		
Engineering / Design:	\$0		
Construction:	\$400,000	Cost Total:	\$425,000
Annual Maint. Cost:		Project Difference:	\$0
Maint. Year Start:			

Service Impact:

Impacts to road maintenance, signalization, the Hardy Parking Garage and snow removal

Project Justification:

Slow traffic and create a more pedestrian-friendly street which will spur redevelopment

Location Description:

State Street



Six Year Capital Improvement Program

STREETS-CIP-21

Streets

889-21-CIP Traffic Calming

Project Information

Submitted By: Tim Lodge	Department: Engineering	Funding for Traffic Calming infrastructure improvements per City Commission.
Category: Visionary	Department Head: Tim Lodge	
Fund Group: General	Staff Priority: Important (Could Do)	
Fund Detail: Streets	Council Priority:	

889-21-CIP-C Traffic Calming - Cost

Funding Sources:

		Previous	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	2026/2027	Total
GEN	General Fund	\$200,000	\$100,000	\$100,000	\$100,000	\$0	\$0	\$0	\$500,000
Project Total:									\$500,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$0	
Construction:	\$0	Cost Total: \$0
Annual Maint. Cost:		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-CIP-21

Streets

15-21-CIP Traffic Signal Improvements

Project Information

Submitted By: Tim Lodge	Department: Engineering	Provide funding to replace traffic signal systems in accordance with the traffic study conducted by AECOM. Also to invest in cabinets, battery back ups, et cetera.
Category: Visionary	Department Head: Tim Lodge	
Fund Group: General	Staff Priority: Essential (Should Do)	
Fund Detail: Streets	Council Priority:	

15-21-CIP-C Traffic Signal Power Backup - Cost

Funding Sources:

		Previous	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	2026/2027	Total
GEN	General Fund	\$45,000	\$22,500	\$22,500	\$0	\$0	\$0	\$0	\$90,000
Project Total:									\$90,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$0	
Construction:	\$0	Cost Total: \$0
Annual Maint. Cost:		Project Difference: \$90,000
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.



Six Year Capital Improvement Program

STREETS-CIP-21

Streets

16-21-CIP Traffic Signal Upgrades

Project Information

Submitted By:	Tim Lodge	Department:	Engineering
Category:	Visionary	Department Head:	Tim Lodge
Fund Group:	General	Staff Priority:	Essential (Should Do)
Fund Detail:	Streets	Council Priority:	

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.

16-21-CIP-C Traffic Signal Upgrades - Cost

Funding Sources:

		Previous	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	2026/2027	Total
GEN	General Fund	\$180,000	\$60,000	\$60,000	\$60,000	\$0	\$0	\$0	\$360,000
Project Total:									\$360,000

COST DETAIL:

Study: \$0
Land Acquisition / ROW: \$0
Engineering / Design: \$0
Construction: \$0
Annual Maint. Cost:
Maint. Year Start:

Cost Total: \$0
Project Difference: \$360,000

Service Impact:

Reduce operational and maintenance costs.

Project Justification:

Replacing aged traffic signal equipment.

Location Description:

Various locations city-wide.

Six Year Capital Improvement Program

STREETS-CIP-21

Streets

1089-21-CIP **Tree Replacement**

Project Information

Submitted By:	Jean Derenzy	Department:	Downtown Development	Replacement of trees when needed throughout the DDA District.
Category:	Maintenance	Department Head:	Jean Derenzy	
Fund Group:	Tax Increment Financing	Staff Priority:	Essential (Should Do)	
Fund Detail:	TIF 97	Council Priority:		

1089-21-CIP-C Tree Replacement Cost

Funding Sources:

		Previous	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	2026/2027	Total
TIF97	TIF 97	\$0	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000	\$150,000
Project Total:									\$150,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$0	
Construction:	\$150,000	Cost Total: \$150,000
Annual Maint. Cost:		Project Difference: \$0
Maint. Year Start:	2021	

Service Impact:

Temporary Sidewalk Closures

Project Justification:

Trees are overgrown/dying and need to be replaced.

Location Description:

DDA District

Six Year Capital Improvement Program

STREETS-CIP-21

Streets

1197-21-CIP Union Street Streetscapes

Project Information

Submitted By: Jean Derenzy	Department: Downtown Development	Enhance streetscapes on Union Street. This project should be coordinated with the snowmelt project (1159-21-CIP) in Old Town.
Category: Visionary	Department Head: Jean Derenzy	
Fund Group: Tax Increment Financing	Staff Priority: Important (Could Do)	
Fund Detail: TIF Old Town	Council Priority:	

1197-21-CIP-C Union Street Streetscapes

Funding Sources:

		Previous	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	2026/2027	Total
TIF2	TIF 2	\$0	\$0	\$0	\$0	\$0	\$330,000	\$369,600	\$699,600
Project Total:									\$699,600

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$10,000	
Construction:	\$689,600	Cost Total: \$699,600
Annual Maint. Cost:	\$20,000	Project Difference: \$0
Maint. Year Start:	2030	

Service Impact:

Improvements to streetscapes

Project Justification:

Improvements to streetscapes

Location Description:

Union Street

Six Year Capital Improvement Plan

All Projects Submitted for 2021-2022

Budget Year 2021-2022 by Program Name

Bold - Indicates projects occurring in the first FY of the plan . + - Indicates projects with multiple funding										Overall Programming Cost		
Project ID	Cat	Previous	Fiscal Year 2021-2022	Fiscal Year 2022-2023	Fiscal Year 2023-2024	Fiscal Year 2024-2025	Fiscal Year 2025-2026	Fiscal Year 2026-2027	Project Cost	City Funds	Non-City Funds	
Walkways												
+ 570-21-CIP	Boardman Lake Trail-West (14th to S. Airport)	V	\$7,031,137	\$81,132	\$71,503	\$61,551	\$51,200	\$193,729	\$0	\$7,490,252	\$0	\$7,490,252
946-21-CIP	Expand Sidewalk System/Infill Gaps	V	\$804,562	\$375,351	\$377,165	\$378,659	\$374,911	\$375,923	\$376,614	\$4,500,000	\$3,063,185	\$0
+ 1023-21-CIP	Expand Sidewalk System/Infill Gaps (SR2S)	C	\$2,828,261	\$0	\$0	\$0	\$0	\$0	\$0	\$2,826,357	\$547,500	\$2,280,761
1191-21-CIP	M-72 Sidewalk New Construction	V	\$0	\$0	\$0	\$0	\$0	\$0	\$206,553	\$206,553	\$206,553	\$0
1025-21-CIP	Rivers Edge Riverwalk Decking Replacement	M	\$0	\$0	\$119,700	\$0	\$0	\$0	\$0	\$106,869	\$119,700	\$0
1193-21-CIP	Sidewalk construction on the north side of Hill St	V	\$0	\$0	\$0	\$0	\$896,000	\$0	\$0	\$896,000	\$896,000	\$0
Total Walkways			\$456,483	\$568,368	\$440,210	\$1,322,111	\$569,652	\$583,167		\$16,026,031	\$4,832,938	\$9,771,013



Six Year Capital Improvement Program

WALK-CIP-21

Walkways

570-21-CIP Boardman Lake Trail-West (14th to S. Airport)

Project Information

Submitted By: Russ Soyring
Category: Visionary
Fund Group: General
Fund Detail: Walkways/Bike Paths

Department: Planning and Zoning
Department Head: Russ Soyring
Staff Priority: Important (Could Do)
Council Priority:

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.

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

570-21-CIP-C Boardman Lake Trail-West (14th to S. Airpo - Cost

Funding Sources:

		Previous	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	2026/2027	Total
BR	Brownfield	\$4,797,225	\$81,132	\$71,503	\$61,551	\$51,200	\$193,729	\$0	\$5,256,340
FSG	Federal / State Grant	\$1,724,362	\$0	\$0	\$0	\$0	\$0	\$0	\$1,724,362
P	Private	\$509,550	\$0	\$0	\$0	\$0	\$0	\$0	\$509,550

Project Total: \$7,490,252

COST DETAIL:

Study:	\$622,931	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$594,441	
Construction:	\$6,272,880	Cost Total: \$7,490,252
Annual Maint. Cost:	\$12,000	Project Difference: \$0
Maint. Year Start:	2019	

Service Impact:

Operations and Maintenance Agreement is necessary among project partners

Project Justification:



WALK-CIP-21

Walkways

Parks and Recreation Element of Master Plan

Location Description:

West side of Boardman Lake

WALK-CIP-21

Walkways

946-21-CIP Expand Sidewalk System/Infill Gaps

Project Information

Submitted By:	Tim Lodge	Department:	Engineering
Category:	Visionary	Department Head:	Tim Lodge
Fund Group:	General	Staff Priority:	Essential (Should Do)
Fund Detail:	Walkways/Bike Paths	Council Priority:	Imperative (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 (the bond will fund this project in full, there will be no deficit once all bond payments have been received in 2034.)

946-21-CIP-C Expand Sidewalk System/Infill Gaps (+SID + - Cost)

Funding Sources:

		Previous	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	2026/2027	Total
GEN	General Fund	\$804,562	\$375,351	\$377,165	\$378,659	\$374,911	\$375,923	\$376,614	\$3,063,185
Project Total:									\$3,063,185

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$500,000	
Construction:	\$4,000,000	Cost Total: \$4,500,000
Annual Maint. Cost:		Project Difference: \$-1,436,815
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-CIP-21

Walkways

1023-21-CIP Expand Sidewalk System/Infill Gaps (SR2S)

Project Information

Submitted By: Missy Luick
Category: Capital
Fund Group: General
Fund Detail: Walkways/Bike Paths

Department: Engineering
Department Head: Tim Lodge
Staff Priority: Essential (Should Do)
Council Priority: Imperative (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 3.53 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 match for. Engineering/Design expense includes costs associated with hiring consultants for construction staking and materials testing.

1023-21-CIP-C Expand Sidewalk System/Infill Gaps (SR2S) - C

Funding Sources:

		Previous	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	2026/2027	Total
FSG	Federal / State Grant	\$2,280,761	\$0	\$0	\$0	\$0	\$0	\$0	\$2,280,761
GEN	General Fund	\$147,500	\$0	\$0	\$0	\$0	\$0	\$0	\$147,500
IN	Inkind	\$400,000	\$0	\$0	\$0	\$0	\$0	\$0	\$400,000
Project Total:									\$2,828,261

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$450,000	
Construction:	\$2,376,357	
Annual Maint. Cost:		
Maint. Year Start:		
	Cost Total:	\$2,826,357
	Project Difference:	\$1,904

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 of
TRAVERSE CITY

Six Year Capital Improvement Program

WALK-CIP-21

Walkways

City-wide



Six Year Capital Improvement Program

WALK-CIP-21

Walkways

1191-21-CIP M-72 Sidewalk New Construction

Project Information

Submitted By:	Russ Soyring	Department:	Planning and Zoning	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.
Category:	Visionary	Department Head:	Russ Soyring	
Fund Group:	Other	Staff Priority:	Essential (Should Do)	
Fund Detail:	Available Capital Projects Fund	Council Priority:		

1191-21-CIP-C M-72 Sidewalk (New construction)

Funding Sources:

		Previous	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	2026/2027	Total
GEN	General Fund	\$0	\$0	\$0	\$0	\$0	\$0	\$206,553	\$206,553
Project Total:									\$206,553

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$12,910	
Construction:	\$193,644	
Annual Maint. Cost:		
Maint. Year Start:		
	Cost Total:	\$206,553
	Project Difference:	\$0

Service Impact:

TBD

Project Justification:

TBD

Location Description:

Old Morgan Trail extending to Southwest Bayshore Drive.

WALK-CIP-21

Walkways

1025-21-CIP Rivers Edge Riverwalk Decking Replacement

Project Information

Submitted By:	Rob Baciagalupi	Department:	Downtown Development	Replacement of decking on River's Edge Riverwalk
Category:	Maintenance	Department Head:	Jean Derenzy	
Fund Group:	Tax Increment Financing	Staff Priority:		
Fund Detail:	Walkways/Bike Paths	Council Priority:		

1025-21-CIP-C Rivers Edge Riverwalk Decking Replacement - Cost

Funding Sources:

		Previous	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	2026/2027	Total
TIF2	TIF 2	\$0	\$0	\$119,700	\$0	\$0	\$0	\$0	\$119,700
Project Total:									\$119,700

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$0	
Construction:	\$106,869	Cost Total: \$106,869
Annual Maint. Cost:		Project Difference: \$12,831
Maint. Year Start:		

Service Impact:

None foreseen

Project Justification:

Replacement of old decking

Location Description:

River's Edge

Six Year Capital Improvement Program

WALK-CIP-21

Walkways

1193-21-CIP Sidewalk construction on the north side of Hill St

Project Information

Submitted By:	Russ Soyring	Department:	Planning and Zoning	Construction on the north side of Hill Street, west of Elmwood to Willow Hill Elementary School. This sidewalk section was originally 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.
Category:	Visionary	Department Head:	Russ Soyring	
Fund Group:	General	Staff Priority:	Essential (Should Do)	
Fund Detail:	General Government	Council Priority:		

1193-21-CIP-C

Funding Sources:

		Previous	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	2026/2027	Total
GEN	General Fund	\$0	\$0	\$0	\$0	\$896,000	\$0	\$0	\$896,000
Project Total:									\$896,000

COST DETAIL:

Study:	\$0		
Land Acquisition / ROW:	\$0		
Engineering / Design:	\$96,000		
Construction:	\$800,000	Cost Total:	\$896,000
Annual Maint. Cost:		Project Difference:	\$0
Maint. Year Start:			

Service Impact:

2022/23 CIP year, TBD.

Project Justification:

This section of sidewalk was charted to be of substantial 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.

Six Year Capital Improvement Plan

All Projects Submitted for 2021-2022

Budget Year 2021-2022 by Program Name

Bold - Indicates projects occurring in the first FY of the plan . + - Indicates projects with multiple funding										Overall Programming Cost		
Project ID	Cat	Previous	Fiscal Year 2021-2022	Fiscal Year 2022-2023	Fiscal Year 2023-2024	Fiscal Year 2024-2025	Fiscal Year 2025-2026	Fiscal Year 2026-2027	Project Cost	City Funds	Non-City Funds	
Wastewater												
+ 912-21-CIP	Condition Assessment of Digesters 1 and 2	M	\$0	\$0	\$0	\$0	\$0	\$0	\$80,000	\$0	\$0	
1052-21-CIP	16" San. Forcemain East Front L.S. To Wellington	M	\$0	\$0	\$0	\$100,000	\$0	\$0	\$100,000	\$100,000	\$0	
+ 1044-21-CIP	2nd Membrane Replacement	M	\$0	\$0	\$0	\$0	\$1,000,000	\$1,000,000	\$6,000,000	\$1,000,000	\$1,000,000	
+ 1171-21-CIP	Aeration Basin /Aerating Equipment Upgrade	C	\$0	\$0	\$0	\$0	\$0	\$2,000,000	\$2,000,000	\$2,000,000	\$0	
366-21-CIP	Annual Sewer Rehab/Replace	V	\$900,000	\$450,000	\$450,000	\$450,000	\$450,000	\$450,000	\$3,600,000	\$3,600,000	\$0	
13-21-CIP	Annual Storm Water Mngt Program	M	\$100,000	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$400,000	\$400,000	\$0	
+ 1175-21-CIP	Digester 4 and 5 Condition Assessment	V	\$0	\$0	\$190,000	\$0	\$0	\$0	\$190,000	\$190,000	\$0	
+ 1036-21-CIP	Digester 5 Cleaning and Reconditioning Equipment	M	\$0	\$0	\$0	\$0	\$0	\$590,000	\$590,000	\$295,000	\$295,000	
+ 1037-21-CIP	Digester Gas Metering	V	\$0	\$70,000	\$0	\$0	\$0	\$0	\$70,000	\$35,000	\$35,000	
+ 971-21-CIP	Enclose Membrane Trains	C	\$0	\$0	\$0	\$0	\$0	\$0	\$500,000	\$0	\$0	
967-21-CIP	Engineering Evaluation of Clinch -Coast Guard LS	V	\$0	\$0	\$30,000	\$0	\$0	\$0	\$30,000	\$30,000	\$0	
1031-21-CIP	Engineering Evaluation-Woodmere&Riverine Lift St.	V	\$0	\$30,000	\$0	\$0	\$0	\$0	\$30,000	\$30,000	\$0	
+ 1019-21-CIP	Engineering Study Pertaining to Facility Plan	V	\$0	\$0	\$0	\$0	\$0	\$0	\$30,000	\$30,000	\$0	
1002-21-CIP	Front St LS- Engineering Evaluation/Capacity Study	V	\$50,000	\$0	\$0	\$0	\$0	\$0	\$50,000	\$50,000	\$0	
1001-21-CIP	Front ST. LS- Upgrade	C	\$0	\$0	\$0	\$0	\$0	\$2,100,000	\$2,100,000	\$2,100,000	\$0	
+ 900-21-CIP	Membrane Distribution & RAS Channel Aeration Line	M	\$0	\$0	\$0	\$0	\$0	\$0	\$95,400	\$0	\$0	
+ 1172-21-CIP	Membrane Tank Covers or Enclosure Eng. Eval	V	\$0	\$0	\$0	\$0	\$0	\$30,000	\$30,000	\$30,000	\$0	
1032-21-CIP	New Portable Generator for Lift Stations	C	\$0	\$0	\$0	\$150,000	\$0	\$0	\$150,000	\$150,000	\$0	
+ 902-21-CIP	Primary Header Replacement	C	\$0	\$1,500,000	\$0	\$0	\$0	\$0	\$1,500,000	\$750,000	\$750,000	
+ 1176-21-CIP	RTWWTP-Digester 4 Reconditioning	C	\$0	\$0	\$0	\$0	\$0	\$1,100,000	\$1,100,000	\$1,100,000	\$0	
+ 1075-21-CIP	RWWTP-ADMINISTRATION BLDG HVAC UPGRADE	M	\$0	\$50,000	\$0	\$0	\$0	\$0	\$50,000	\$25,000	\$25,000	
+ 1079-21-CIP	RWWTP-Aeration Basin/Aerating Equipment Evaluation	V	\$0	\$0	\$0	\$30,000	\$0	\$0	\$30,000	\$15,000	\$15,000	

Six Year Capital Improvement Plan

All Projects Submitted for 2021-2022

Budget Year 2021-2022 by Program Name

Bold - Indicates projects occurring in the first FY of the plan . + - Indicates projects with multiple funding										Overall Programming Cost		
Project ID	Cat	Previous	Fiscal Year 2021-2022	Fiscal Year 2022-2023	Fiscal Year 2023-2024	Fiscal Year 2024-2025	Fiscal Year 2025-2026	Fiscal Year 2026-2027	Project Cost	City Funds	Non-City Funds	
Wastewater												
+ 1174-21-CIP	RWWTP-Annual Equipment Rehab/Replace (> or = \$9K)	M	\$200,000	\$200,000	\$200,000	\$200,000	\$200,000	\$200,000	\$200,000	\$0	\$1,400,000	\$0
+ 1077-21-CIP	RWWTP-BOILER CONTROLS UPGRADE	M	\$0	\$61,000	\$0	\$0	\$0	\$0	\$0	\$61,000	\$30,500	\$30,500
+ 1076-21-CIP	RWWTP-CRANE, HOIST, and Ferric Tank Painting	M	\$0	\$62,500	\$0	\$0	\$0	\$0	\$0	\$62,500	\$31,250	\$31,250
+ 1078-21-CIP	RWWTP-UPGRADE DIGESTED SOLIDS THICKENING EQUIPMENT	C	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,500,000	\$0	\$0
+ 1173-21-CIP	RWWTP-Yard Piping Engineering Evaluation	V	\$0	\$0	\$0	\$0	\$0	\$60,000	\$0	\$60,000	\$60,000	\$0
+ 795-21-CIP	SCADA Upgrade	M	\$0	\$0	\$155,000	\$0	\$0	\$0	\$0	\$155,000	\$77,500	\$77,500
+ 1073-21-CIP	Scour Air Blower Overhaul-5 blowers at TCRWWTP	M	\$92,250	\$47,250	\$48,250	\$48,250	\$0	\$0	\$0	\$236,000	\$118,000	\$118,000
+ 893-21-CIP	Screw Pump 2 and 3 Replacement	C	\$0	\$0	\$1,160,000	\$0	\$0	\$0	\$0	\$1,160,000	\$580,000	\$580,000
+ 970-21-CIP	TCRWWTP- PLC Upgrade	M	\$0	\$0	\$300,000	\$0	\$0	\$0	\$0	\$300,000	\$150,000	\$150,000
+ 1168-21-CIP	TRWWTP-Plant Electrical Engineering Evaluation	V	\$0	\$50,000	\$0	\$0	\$0	\$0	\$0	\$50,000	\$50,000	\$0
+ 1169-21-CIP	TRWWTP-Structural Condition Assessment	V	\$0	\$0	\$50,000	\$0	\$0	\$0	\$0	\$50,000	\$50,000	\$0
1226-21-CIP	US-31 Garfield to M-72 W Sanitary Sewer Project	V	\$0	\$0	\$60,000	\$294,360	\$0	\$0	\$0	\$354,360	\$354,360	\$0
+ 1033-21-CIP	UV System and Related Structures Upgrade	C	\$0	\$0	\$0	\$0	\$3,000,000	\$0	\$0	\$3,000,000	\$1,500,000	\$1,500,000
+ 1170-21-CIP	UV System Upgrade Engineering	V	\$0	\$50,000	\$0	\$0	\$0	\$0	\$0	\$50,000	\$50,000	\$0
+ 1228-21-CIP	W Trunkline San Sewer Interceptor Lift Station	C	\$0	\$0	\$4,000,000	\$0	\$0	\$0	\$0	\$4,000,000	\$1,000,000	\$3,000,000
1058-21-CIP	WW Gravity Main Rehab/Repair and PACP Inspections	M	\$0	\$0	\$385,000	\$385,000	\$385,000	\$385,000	\$0	\$1,540,000	\$1,540,000	\$0
1057-21-CIP	WW Manholes Rehab/Repair and MACP Inspections	M	\$0	\$0	\$50,000	\$50,000	\$50,000	\$50,000	\$0	\$200,000	\$200,000	\$0
+ 904-21-CIP	WW-Primary Clarification Upgrade	C	\$0	\$0	\$0	\$3,000,000	\$0	\$0	\$0	\$3,000,000	\$1,500,000	\$1,500,000
Total Wastewater			\$2,620,750	\$7,128,250	\$4,757,610	\$4,135,000	\$5,425,000	\$4,320,000	\$34,504,260	\$20,621,610	\$9,107,250	



Six Year Capital Improvement Program

WW-CIP-21

Wastewater

912-21-CIP Condition Assessment of Digesters 1 and 2

Project Information

Submitted By: Elizabeth Hart	Department: Department of Municipal Utilities	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.
Category: Maintenance	Department Head: Art Krueger	
Fund Group: Waste Water	Staff Priority: Important (Could Do)	
Fund Detail: Sewer Plant and Buildings	Council Priority:	

912-21-CIP-C Reconditioning Digesters 1 and 2 - Cost

Funding Sources:

		Previous	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	2026/2027	Total
P	Private	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
S	Sewer Fund	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Project Total:									\$0

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-CIP-21 Wastewater

1052-21-CIP 16" San. Forcemain East Front L.S. To Wellington

Project Information

Submitted By:	Art Krueger	Department:	Department of Municipal Utilities	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.
Category:	Maintenance	Department Head:	Art Krueger	
Fund Group:	Waste Water	Staff Priority:	Essential (Should Do)	
Fund Detail:	Sewer Collection System	Council Priority:		

1052-21-CIP-C 16" San. Forcemain East Front L.S. To Wellington

Funding Sources:

		Previous	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	2026/2027	Total
S	Sewer Fund	\$0	\$0	\$0	\$100,000	\$0	\$0	\$0	\$100,000
Project Total:									\$100,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$0	
Construction:	\$100,000	Cost Total: \$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-CIP-21 **Wastewater**
1044-21-CIP **2nd Membrane Replacement**

Project Information

Submitted By:	Elizabeth Hart	Department:	Department of Municipal Utilities	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.
Category:	Maintenance	Department Head:	Art Krueger	
Fund Group:	Waste Water	Staff Priority:	Essential (Should Do)	
Fund Detail:	Sewer Plant and Buildings	Council Priority:		

1044-21-CIP-C 2nd Membrane Replacement

Funding Sources:

		Previous	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	2026/2027	Total
P	Private	\$0	\$0	\$0	\$0	\$0	\$500,000	\$500,000	\$1,000,000
S	Sewer Fund	\$0	\$0	\$0	\$0	\$0	\$500,000	\$500,000	\$1,000,000
Project Total:									\$2,000,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$0	
Construction:	\$6,000,000	Cost Total: \$6,000,000
Annual Maint. Cost:		Project Difference: \$-4,000,000
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-CIP-21

Wastewater

1171-21-CIP Aeration Basin /Aerating Equipment Upgrade

Project Information

Submitted By:	Elizabeth Hart	Department:	Department of Municipal Utilities	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 Equipment-Condition Assessment Rated Secondary 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 2021-2022 evaluation
Category:	Capital	Department Head:	Art Krueger	
Fund Group:	Waste Water	Staff Priority:	Imperative (Must Do)	
Fund Detail:	Sewer Plant and Buildings	Council Priority:		

1171-21-CIP-C Aeration Basin /Aerating Equipment Upgrade

Funding Sources:

		Previous	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	2026/2027	Total
P	Private	\$0	\$0	\$0	\$0	\$0	\$0	\$1,000,000	\$1,000,000
S	Sewer Fund	\$0	\$0	\$0	\$0	\$0	\$0	\$1,000,000	\$1,000,000
								Project Total:	\$2,000,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$0	
Construction:	\$2,000,000	Cost Total: \$2,000,000
Annual Maint. Cost:		Project Difference: \$0
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 redundancy.

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 degraded.

Location Description:

606 Hannah Ave.

Six Year Capital Improvement Program

WW-CIP-21 Wastewater

366-21-CIP Annual Sewer Rehab/Replace

Project Information

Submitted By: Justin Roy	Department: Department of Municipal Utilities	Provide \$450,000 annually in both the water and wastewater funds to continue systematic improvements (repair and replacement) of our underground infrastructure.
Category: Visionary	Department Head: Art Krueger	
Fund Group: Waste Water	Staff Priority: Imperative (Must Do)	
Fund Detail: Sewer Collection System	Council Priority:	

366-21-CIP-C Annual Sewer Rehab/Replace - Cost

Funding Sources:

		Previous	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	2026/2027	Total
S	Sewer Fund	\$900,000	\$450,000	\$450,000	\$450,000	\$450,000	\$450,000	\$450,000	\$3,600,000
Project Total:									\$3,600,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$0	
Construction:	\$3,600,000	Cost Total: \$3,600,000
Annual Maint. Cost:		Project Difference: \$0
Maint. Year Start:		

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-CIP-21

Wastewater

13-21-CIP Annual Storm Water Mngt Program

Project Information

Submitted By:	Tim Lodge	Department:	Department of Municipal Utilities	This line item will guarantee funds to construct and repair city storm sewer lines. Funds may be used to disconnect sanitary sewers as well as construct water quality related infrastructure.
Category:	Maintenance	Department Head:	Art Krueger	
Fund Group:	Waste Water	Staff Priority:	Essential (Should Do)	
Fund Detail:	Sewer Collection System	Council Priority:		

13-21-CIP-C Annual Storm Water Management Program - Cost

Funding Sources:

		Previous	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	2026/2027	Total
S	Sewer Fund	\$100,000	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$400,000
Project Total:									\$400,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$0	
Construction:	\$400,000	Cost Total: \$400,000
Annual Maint. Cost:		Project Difference: \$0
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-CIP-21

Wastewater

1175-21-CIP Digester 4 and 5 Condition Assessment

Project Information

Submitted By:	Elizabeth Hart	Department:	Department of Municipal Utilities	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 Priority Improvements Plan-Includes cost of cleaning vessels-This project is prioritized in accordance with the Asset Management Plan for the Facility and Lift Stations -Condition Assessment Rated Digestion as highest risk
Category:	Visionary	Department Head:	Art Krueger	
Fund Group:	Waste Water	Staff Priority:	Imperative (Must Do)	
Fund Detail:	Sewer Plant and Buildings	Council Priority:		

1175-21-CIP-C Digester 4 and 5 Condition Assessment

Funding Sources:

		Previous	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	2026/2027	Total
P	Private	\$0	\$0	\$95,000	\$0	\$0	\$0	\$0	\$95,000
S	Sewer Fund	\$0	\$0	\$95,000	\$0	\$0	\$0	\$0	\$95,000
Project Total:									\$190,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$190,000	
Construction:	\$0	Cost Total: \$190,000
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. 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:

606 Hannah Ave.



Six Year Capital Improvement Program

WW-CIP-21

Wastewater

1036-21-CIP Digester 5 Cleaning and Reconditioning Equipment

Project Information

Submitted By:	Elizabeth Hart	Department:	Department of Municipal Utilities	Digester 5 Cleaning and Reconditioning-Per Facility's Priority Improvements Plan Task 7 and Task 9 Evaluation performed 2022-2023-Update Cost per evaluation-This project is prioritized in accordance with the Asset Management Plan for the Facility and Lift Stations -Condition Assessment Rated Digestion as highest risk
Category:	Maintenance	Department Head:	Art Krueger	
Fund Group:	Waste Water	Staff Priority:	Essential (Should Do)	
Fund Detail:	Sewer Plant and Buildings	Council Priority:		

1036-21-CIP-C Digester 5 Cleaning and Reconditioning Equipment

Funding Sources:

		Previous	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	2026/2027	Total
P	Private	\$0	\$0	\$0	\$0	\$0	\$0	\$295,000	\$295,000
S	Sewer Fund	\$0	\$0	\$0	\$0	\$0	\$0	\$295,000	\$295,000
Project Total:									\$590,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$0	
Construction:	\$590,000	Cost Total: \$590,000
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. 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:

606 Hannah Ave



Six Year Capital Improvement Program

WW-CIP-21 **Wastewater**

1037-21-CIP **Digester Gas Metering**

Project Information

Submitted By:	Elizabeth Hart	Department:	Department of Municipal Utilities	WW-Add metering and monitoring capabilities to the digester gas system.
Category:	Visionary	Department Head:	Art Krueger	
Fund Group:	Waste Water	Staff Priority:	Important (Could Do)	
Fund Detail:	Sewer Plant and Buildings	Council Priority:		

1037-21-CIP-C Digester Gas Metering

Funding Sources:

		Previous	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	2026/2027	Total
P	Private	\$0	\$35,000	\$0	\$0	\$0	\$0	\$0	\$35,000
S	Sewer Fund	\$0	\$35,000	\$0	\$0	\$0	\$0	\$0	\$35,000
Project Total:									\$70,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$0	
Construction:	\$70,000	Cost Total: \$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:

606 Hannah Ave

Six Year Capital Improvement Program

WW-CIP-21 Wastewater

971-21-CIP Enclose Membrane Trains

Project Information

Submitted By:	Elizabeth Hart	Department:	Department of Municipal Utilities	Future Project for FY2029-30, so negative "Project Difference"; Membrane Tank Covers or Enclosure Upgrade per 2025-2026 Engineering Study
Category:	Capital	Department Head:	Art Krueger	
Fund Group:	Waste Water	Staff Priority:	Important (Could Do)	
Fund Detail:	Sewer Plant and Buildings	Council Priority:		

971-21-CIP-C Enclose Membrane Trains - Cost

Funding Sources:

		Previous	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	2026/2027	Total
P	Private	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
S	Sewer Fund	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Project Total:									\$0

COST DETAIL:

Study:	\$0		
Land Acquisition / ROW:	\$0		
Engineering / Design:	\$0		
Construction:	\$500,000	Cost Total:	\$500,000
Annual Maint. Cost:		Project Difference:	\$-500,000
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:

606 Hannah Ave

WW-CIP-21

Wastewater

967-21-CIP **Engineering Evaluation of Clinch -Coast Guard LS**

Project Information

Submitted By:	Elizabeth Hart	Department:	Department of Municipal Utilities	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
Category:	Visionary	Department Head:	Art Krueger	
Fund Group:	Waste Water	Staff Priority:	Essential (Should Do)	
Fund Detail:	Sewer Collection System	Council Priority:		

967-21-CIP-C Engineering Evaluation-Clinch -Coast Guard LS

Funding Sources:

		Previous	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	2026/2027	Total
S	Sewer Fund	\$0	\$0	\$30,000	\$0	\$0	\$0	\$0	\$30,000
Project Total:									\$30,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$30,000	
Construction:	\$0	Cost Total: \$30,000
Annual Maint. Cost:		Project Difference: \$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-CIP-21

Wastewater

1031-21-CIP Engineering Evaluation-Woodmere&Riverine Lift St.

Project Information

Submitted By:	Elizabeth Hart	Department:	Department of Municipal Utilities	Engineering Evaluation/Condition Assessment Woodmere and Riverine
Category:	Visionary	Department Head:	Art Krueger	Lift Stations, including controls upgrade and Telemetry-Upgrade per
Fund Group:	Waste Water	Staff Priority:	Essential (Should Do)	evaluation to be added to CIP in Accordance with AMP prioritization
Fund Detail:	Sewer Collection System	Council Priority:		

1031-21-CIP-C Engineering Evaluation Woodmere and Riverine LS

Funding Sources:

		Previous	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	2026/2027	Total
S	Sewer Fund	\$0	\$30,000	\$0	\$0	\$0	\$0	\$0	\$30,000
Project Total:									\$30,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$30,000	
Construction:	\$0	Cost Total: \$30,000
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.

Six Year Capital Improvement Program

WW-CIP-21 Wastewater

1019-21-CIP Engineering Study Pertaining to Facility Plan

Project Information

Submitted By:	Elizabeth Hart	Department:	Department of Municipal Utilities	This study will encompass tasks 10, 11, and 13 of the Facility's Priority Improvement Plan.
Category:	Visionary	Department Head:	Art Krueger	
Fund Group:	Waste Water	Staff Priority:	Essential (Should Do)	
Fund Detail:	Sewer Plant and Buildings	Council Priority:		

1019-21-CIP-C Engineering Study Pertaining to Facility Plan

Funding Sources:

		Previous	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	2026/2027	Total
P	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:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$30,000	
Construction:	\$0	Cost Total: \$30,000
Annual Maint. Cost:		Project Difference: \$0
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:

606 Hannah Ave

WW-CIP-21 Wastewater

1002-21-CIP Front St LS- Engineering Evaluation/Capacity Study

Project Information

Submitted By:	Elizabeth Hart	Department:	Department of Municipal Utilities	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 in accordance with the Asset Management Plan for the Facility and Lift Stations -Condition Assessment Rated Front St. Lift Station as 3rd highest risk
Category:	Visionary	Department Head:	Art Krueger	
Fund Group:	Waste Water	Staff Priority:	Essential (Should Do)	
Fund Detail:	Sewer Collection System	Council Priority:		

1002-21-CIP-C Front St LS- Engineering Evaluation

Funding Sources:

		Previous	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	2026/2027	Total
S	Sewer Fund	\$50,000	\$0	\$0	\$0	\$0	\$0	\$0	\$50,000
Project Total:									\$50,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$50,000	
Construction:	\$0	Cost Total: \$50,000
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:

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.



Six Year Capital Improvement Program

WW-CIP-21 Wastewater

1001-21-CIP **Front ST. LS- Upgrade**

Project Information

Submitted By:	Elizabeth Hart	Department:	Department of Municipal Utilities	WW-Front Street Lift Station Upgrade in relation to 2020-2021
Category:	Capital	Department Head:	Art Krueger	Engineering Study-This project is prioritized in accordance with the
Fund Group:	Waste Water	Staff Priority:	Essential (Should Do)	Asset Management Plan for the Facility and Lift Stations -Condition
Fund Detail:	Sewer Collection System	Council Priority:		Assessment Rated Front St. Lift Station as 3rd highest risk

1001-21-CIP-C Front ST. Lift Station Upgrade

Funding Sources:

		Previous	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	2026/2027	Total
S	Sewer Fund	\$0	\$0	\$0	\$0	\$0	\$2,100,000	\$0	\$2,100,000
Project Total:									\$2,100,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$0	
Construction:	\$2,100,000	Cost Total: \$2,100,000
Annual Maint. Cost:		Project Difference: \$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.



Six Year Capital Improvement Program

WW-CIP-21

Wastewater

900-21-CIP

Membrane Distribution & RAS Channel Aeration Line

Project Information

Submitted By:	Elizabeth Hart	Department:	Department of Municipal Utilities	Future Project for FY2029-30, so negative "Project Difference"; Remove and replace aging aeration line in the membrane distribution and RAS channel with SCH 80 PVC.
Category:	Maintenance	Department Head:	Art Krueger	
Fund Group:	Waste Water	Staff Priority:	Essential (Should Do)	
Fund Detail:	Sewer Plant and Buildings	Council Priority:		

900-21-CIP-C Membrane Distribution and RAS Channel Aera - Cost

Funding Sources:

		Previous	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	2026/2027	Total
P	Private	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
S	Sewer Fund	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Project Total:									\$0

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$0	
Construction:	\$95,400	Cost Total: \$95,400
Annual Maint. Cost:		Project Difference: -\$95,400
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:

606 Hannah Ave



WW-CIP-21

Wastewater

1032-21-CIP New Portable Generator for Lift Stations

Project Information

Submitted By:	Elizabeth Hart	Department:	Department of Municipal Utilities	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.
Category:	Capital	Department Head:	Art Krueger	
Fund Group:	Waste Water	Staff Priority:	Imperative (Must Do)	
Fund Detail:	Sewer Collection System	Council Priority:		

1032-21-CIP-C New Portable Generator for Lift Stations

Funding Sources:

		Previous	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	2026/2027	Total
S	Sewer Fund	\$0	\$0	\$0	\$150,000	\$0	\$0	\$0	\$150,000
Project Total:									\$150,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$0	
Construction:	\$150,000	Cost Total: \$150,000
Annual Maint. Cost:		Project Difference: \$0
Maint. Year Start:		

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 is 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:

606 Hannah Ave

Six Year Capital Improvement Program

WW-CIP-21

Wastewater

1176-21-CIP RTWWTP-Digester 4 Reconditioning

Project Information

Submitted By: Elizabeth Hart	Department: Department of Municipal Utilities	Digester 4 Reconditioning per Facility's Priority Improvements Plan
Category: Capital	Department Head: Art Krueger	Task 7 Evaluation performed 2021-2022 -Update Digester 4 Rehab
Fund Group: Waste Water	Staff Priority: Imperative (Must Do)	after condition assessment is complete in 2021-2022-This project is
Fund Detail: Sewer Plant and Buildings	Council Priority:	prioritized in accordance 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

1176-21-CIP-C Digester 4 Reconditioning

Funding Sources:

		Previous	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	2026/2027	Total
P	Private	\$0	\$0	\$0	\$0	\$0	\$550,000	\$0	\$550,000
S	Sewer Fund	\$0	\$0	\$0	\$0	\$0	\$550,000	\$0	\$550,000
Project Total:									\$1,100,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$0	
Construction:	\$1,100,000	Cost Total: \$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:

606 Hannah Ave

WW-CIP-21

Wastewater

1075-21-CIP RWWTP-ADMINISTRATION BLDG HVAC UPGRADE

Project Information

Submitted By:	Elizabeth Hart	Department:	Department of Municipal Utilities	The HVAC system in the administration building at the facility does not work properly. This project would upgrade the system so that temperature, particularly in the laboratory, can be controlled adequately.
Category:	Maintenance	Department Head:	Art Krueger	
Fund Group:	Waste Water	Staff Priority:	Essential (Should Do)	
Fund Detail:	Sewer Plant and Buildings	Council Priority:		

1075-21-CIP-C RWWTP-ADMINISTRATION BLDG HVAC SYSTEM UPGRADE

Funding Sources:

		Previous	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	2026/2027	Total
P	Private	\$0	\$25,000	\$0	\$0	\$0	\$0	\$0	\$25,000
S	Sewer Fund	\$0	\$25,000	\$0	\$0	\$0	\$0	\$0	\$25,000
Project Total:									\$50,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$0	
Construction:	\$50,000	Cost Total: \$50,000
Annual Maint. Cost:		Project Difference: \$0
Maint. Year Start:		

Service Impact:

We believe that an upgrade will reduce 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:

606 Hannah Avenue

WW-CIP-21

Wastewater

1079-21-CIP RWWTP-Aeration Basin/Aerating Equipment Evaluation

Project Information

Submitted By:	Elizabeth Hart	Department:	Department of Municipal Utilities	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 Secondary Treatment process 9th highest risk however blowers have no redundancy are inefficient, and are reaching the end of their useful life
Category:	Visionary	Department Head:	Art Krueger	
Fund Group:	Waste Water	Staff Priority:	Imperative (Must Do)	
Fund Detail:	Sewer Plant and Buildings	Council Priority:		

1079-21-CIP-C RWWTP-AERATION BASIN/AERATING EQUIP ENG. EVAL

Funding Sources:

		Previous	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	2026/2027	Total
P	Private	\$0	\$0	\$0	\$15,000	\$0	\$0	\$0	\$15,000
S	Sewer Fund	\$0	\$0	\$0	\$15,000	\$0	\$0	\$0	\$15,000
Project Total:									\$30,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$30,000	
Construction:	\$0	Cost Total: \$30,000
Annual Maint. Cost:		Project Difference: \$0
Maint. Year Start:		

Service Impact:

This project will identify the most cost effective approach to upgrading aeration basin equipment, and help plan for the cost of addressing any structural 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:

606 Hannah Avenue

Six Year Capital Improvement Program

WW-CIP-21 Wastewater

1174-21-CIP RWWTP-Annual Equipment Rehab/Replace (> or = \$9K)

Project Information

Submitted By:	Elizabeth Hart	Department:	Department of Municipal Utilities	Annual Equipment Rehab/Replace (Items over \$9,000)-all items subject to prior City Commission Approval-Funds maintenance of 1,954 assets to ensure they can be properly maintained per state regulator approved asset management plan.
Category:	Maintenance	Department Head:	Art Krueger	
Fund Group:	Waste Water	Staff Priority:	Important (Could Do)	
Fund Detail:	Sewer Plant and Buildings	Council Priority:		

1174-21-CIP-C Annual Equipment Rehab/Replace

Funding Sources:

		Previous	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	2026/2027	Total
P	Private	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$700,000
S	Sewer Fund	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$700,000
Project Total:									\$1,400,000

COST DETAIL:

Study:	\$0		
Land Acquisition / ROW:	\$0		
Engineering / Design:	\$0		
Construction:	\$0		Cost Total: \$0
Annual Maint. Cost:	\$2,000,000		Project Difference: \$1,400,000
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 vulnerabilities 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-CIP-21

Wastewater

1077-21-CIP RWWTP-BOILER CONTROLS UPGRADE

Project Information

Submitted By:	Elizabeth Hart	Department:	Department of Municipal Utilities	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.
Category:	Maintenance	Department Head:	Art Krueger	
Fund Group:	Waste Water	Staff Priority:	Essential (Should Do)	
Fund Detail:	Sewer Plant and Buildings	Council Priority:		

1077-21-CIP-C RWWTP-BOILER CONTROLS UPGRADE

Funding Sources:

		Previous	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	2026/2027	Total
P	Private	\$0	\$30,500	\$0	\$0	\$0	\$0	\$0	\$30,500
S	Sewer Fund	\$0	\$30,500	\$0	\$0	\$0	\$0	\$0	\$30,500
Project Total:									\$61,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$0	
Construction:	\$61,000	Cost Total: \$61,000
Annual Maint. Cost:		Project Difference: \$0
Maint. Year Start:		

Service Impact:

Maintenance costs are not anticipated to be substantial.

Project Justification:

Proper control of the dual 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:

606 Hannah Avenue



WW-CIP-21

Wastewater

1076-21-CIP RWWTP-CRANE, HOIST, and Ferric Tank Painting

Project Information

Submitted By:	Elizabeth Hart	Department:	Department of Municipal Utilities	The crane, hoist, and ferric chloride tank painting projects includes all the cranes and hoist, and the 8,000 gallon ferric chloride storage tank. Painting the cranes and hoists, and ferric tank will prevent premature deterioration of these assets. They will be painted with commercial grade paint.
Category:	Maintenance	Department Head:	Art Krueger	
Fund Group:	Waste Water	Staff Priority:	Essential (Should Do)	
Fund Detail:	Sewer Plant and Buildings	Council Priority:		

1076-21-CIP-C RWWTP-CRANE AND HOIST PAINTING

Funding Sources:

		Previous	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	2026/2027	Total
P	Private	\$0	\$31,250	\$0	\$0	\$0	\$0	\$0	\$31,250
S	Sewer Fund	\$0	\$31,250	\$0	\$0	\$0	\$0	\$0	\$31,250
Project Total:									\$62,500

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$0	
Construction:	\$62,500	Cost Total: \$62,500
Annual Maint. Cost:		Project Difference: \$0
Maint. Year Start:		

Service Impact:

The cranes, hoist, and ferric tank 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, cranes, and ferric tank at the facility will help prevent the untimely deterioration of these assets.

Location Description:

606 Hannah Avenue

WW-CIP-21

Wastewater

1078-21-CIP RWWTP-UPGRADE DIGESTED SOLIDS THICKENING EQUIPMENT

Project Information

Submitted By:	Elizabeth Hart	Department:	Department of Municipal Utilities	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 in accordance 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
Category:	Capital	Department Head:	Art Krueger	
Fund Group:	Waste Water	Staff Priority:	Essential (Should Do)	
Fund Detail:	Sewer Plant and Buildings	Council Priority:		

1078-21-CIP-C RWWTP-Upgrade Digested Solids Thickening Equipment

Funding Sources:

		Previous	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	2026/2027	Total
P	Private	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
S	Sewer Fund	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Project Total:									\$0

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$0	
Construction:	\$1,500,000	Cost Total: \$1,500,000
Annual Maint. Cost:		Project Difference: \$-1,500,000
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:

606 Hannah Avenue

WW-CIP-21 Wastewater

1173-21-CIP RWWTP-Yard Piping Engineering Evaluation

Project Information

Submitted By:	Elizabeth Hart	Department:	Department of Municipal Utilities	Yard Piping Engineering Evaluation per Task 12 for the Facility's Priority
Category:	Visionary	Department Head:	Art Krueger	Plan-Upgrade per evaluation to be added to CIP per AMP prioritization
Fund Group:	Waste Water	Staff Priority:	Essential (Should Do)	
Fund Detail:	Sewer Plant and Buildings	Council Priority:		

1173-21-CIP-C Yard Piping Engineering Evaluation

Funding Sources:

		Previous	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	2026/2027	Total
P	Private	\$0	\$0	\$0	\$0	\$0	\$30,000	\$0	\$30,000
S	Sewer Fund	\$0	\$0	\$0	\$0	\$0	\$30,000	\$0	\$30,000
Project Total:									\$60,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$60,000	
Construction:	\$0	Cost Total: \$60,000
Annual Maint. Cost:		Project Difference: \$0
Maint. Year Start:		

Service Impact:

Evaluation of yard piping will identify 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:

606 Hannah Ave



Six Year Capital Improvement Program

WW-CIP-21 **Wastewater**

795-21-CIP **SCADA Upgrade**

Project Information

Submitted By:	Elizabeth Hart	Department:	Department of Municipal Utilities	Upgrade SCADA system that controls the plant.
Category:	Maintenance	Department Head:	Art Krueger	
Fund Group:	Waste Water	Staff Priority:	Essential (Should Do)	
Fund Detail:	Sewer Plant and Buildings	Council Priority:		

795-21-CIP-C SCADA Upgrade - Cost

Funding Sources:

		Previous	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	2026/2027	Total
P	Private	\$0	\$0	\$77,500	\$0	\$0	\$0	\$0	\$77,500
S	Sewer Fund	\$0	\$0	\$77,500	\$0	\$0	\$0	\$0	\$77,500
Project Total:									\$155,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$0	
Construction:	\$155,000	Cost Total: \$155,000
Annual Maint. Cost:		Project Difference: \$0
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:

606 Hannah Ave

WW-CIP-21

Wastewater

893-21-CIP Screw Pump 2 and 3 Replacement

Project Information

Submitted By:	Elizabeth Hart	Department:	Department of Municipal Utilities	WW-Screw Pump 2 and 3 Upgrade per 2020-2021 Engineering Study-Update Cost After Study-This project is prioritized in accordance with the Asset Management Plan for the Facility and Lift Stations -Condition Assessment 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
Category:	Capital	Department Head:	Art Krueger	
Fund Group:	Waste Water	Staff Priority:	Imperative (Must Do)	
Fund Detail:	Sewer Plant and Buildings	Council Priority:		

893-21-CIP-C Screw Pump Replacement - Cost

Funding Sources:

		Previous	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	2026/2027	Total
P	Private	\$0	\$0	\$580,000	\$0	\$0	\$0	\$0	\$580,000
S	Sewer Fund	\$0	\$0	\$580,000	\$0	\$0	\$0	\$0	\$580,000
Project Total:									\$1,160,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$0	
Construction:	\$1,160,000	Cost Total: \$1,160,000
Annual Maint. Cost:		Project Difference: \$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:

606 Hannah Ave



Six Year Capital Improvement Program

WW-CIP-21 **Wastewater**
970-21-CIP **TCRWWTP- PLC Upgrade**

Project Information

Submitted By:	Elizabeth Hart	Department:	Department of Municipal Utilities	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.
Category:	Maintenance	Department Head:	Art Krueger	
Fund Group:	Waste Water	Staff Priority:	Imperative (Must Do)	
Fund Detail:	Sewer Plant and Buildings	Council Priority:		

970-21-CIP-C Plant PLC Upgrade - Cost

Funding Sources:

		Previous	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	2026/2027	Total
P	Private	\$0	\$0	\$150,000	\$0	\$0	\$0	\$0	\$150,000
S	Sewer Fund	\$0	\$0	\$150,000	\$0	\$0	\$0	\$0	\$150,000
Project Total:									\$300,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$0	
Construction:	\$300,000	Cost Total: \$300,000
Annual Maint. Cost:		Project Difference: \$0
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-CIP-21

Wastewater

1168-21-CIP TRWWTP-Plant Electrical Engineering Evaluation

Project Information

Submitted By:	Elizabeth Hart	Department:	Department of Municipal Utilities	Plant Electrical Engineering Evaluation per Task 4 of 2018-2019
Category:	Visionary	Department Head:	Art Krueger	Facility's Priority Plan-Upgrade per evaluation to be added to CIP in
Fund Group:	Waste Water	Staff Priority:	Essential (Should Do)	Accordance with AMP prioritization
Fund Detail:	Sewer Plant and Buildings	Council Priority:		

1168-21-CIP-C Plant Electrical Engineering Evaluation

Funding Sources:

		Previous	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	2026/2027	Total
P	Private	\$0	\$25,000	\$0	\$0	\$0	\$0	\$0	\$25,000
S	Sewer Fund	\$0	\$25,000	\$0	\$0	\$0	\$0	\$0	\$25,000
Project Total:									\$50,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$50,000	
Construction:	\$0	Cost Total: \$50,000
Annual Maint. Cost:		Project Difference: \$0
Maint. Year Start:		

Service Impact:

This project will identify electrical inefficiencies and safety vulnerabilities, 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:

606 Hannah Ave.

WW-CIP-21

Wastewater

1169-21-CIP TRWWTP-Structural Condition Assessment

Project Information

Submitted By:	Elizabeth Hart	Department:	Department of Municipal Utilities	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
Category:	Visionary	Department Head:	Art Krueger	
Fund Group:	Waste Water	Staff Priority:	Essential (Should Do)	
Fund Detail:	Sewer Plant and Buildings	Council Priority:		

1169-21-CIP-C Structural Condition Assessment

Funding Sources:

		Previous	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	2026/2027	Total
P	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 DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$50,000	
Construction:	\$0	
Annual Maint. Cost:		Project Difference: \$0
Maint. Year Start:		
		Cost Total: \$50,000

Service Impact:

There are many aging structures at the TCRWWTP. Their structural evaluation will help plan and prioritize their reconditioning schedule.

Project Justification:

The tanks/ structures being evaluated are showing significant signs of degradation.

Location Description:

606 Hannah Ave

WW-CIP-21

Wastewater

1226-21-CIP US-31 Garfield to M-72 W Sanitary Sewer Project

Project Information

Submitted By:	Art Krueger	Department:	Department of Municipal Utilities	Coordinate with MDOT's US-31 roadway project to abandon the old 10-inch clay north sewer main and reconnect service laterals to the existing 24-inch south sewer main to allow the new 12-inch water main to be constructed between Garfield Ave and E. Front St. Also replace the existing 8-inch clay sewer in US-31 from Hall Street to the west 350 feet.
Category:	Visionary	Department Head:	Art Krueger	
Fund Group:	Waste Water	Staff Priority:	Essential (Should Do)	
Fund Detail:	Sewer Collection System	Council Priority:		

1226-21-CIP-C US-31 Garfield to M-72 W Sanitary Sewer Project

Funding Sources:

		Previous	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	2026/2027	Total
S	Sewer Fund	\$0	\$0	\$60,000	\$294,360	\$0	\$0	\$0	\$354,360
Project Total:									\$354,360

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$60,000	
Construction:	\$294,360	Cost Total: \$354,360
Annual Maint. Cost:		Project Difference: \$0
Maint. Year Start:		

Service Impact:

Eliminate one old clay 10-inch sanitary main and replace one 8-inch sanitary main in the MDOT Right of Way.

Project Justification:

Coordinate with MDOT while their road is under construction to replace aging infrastructure.

Location Description:

US-31 Garfield to E. Front St. and US-31 from Hall St to the west 350 feet.



Six Year Capital Improvement Program

WW-CIP-21

Wastewater

1033-21-CIP UV System and Related Structures Upgrade

Project Information

Submitted By:	Elizabeth Hart	Department:	Department of Municipal Utilities	WW-UV System Upgrade-To be completed by July 1, 2026 per July 3rd, 2019 ACO and is in accordance with the AMP prioritization-Condition Assessment rated the UV process the 4th highest risk prior to UV limited capacity being ID'd
Category:	Capital	Department Head:	Art Krueger	
Fund Group:	Waste Water	Staff Priority:	Imperative (Must Do)	
Fund Detail:	Sewer Plant and Buildings	Council Priority:		

1033-21-CIP-C UV System and Related Structures Upgrade

Funding Sources:

		Previous	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	2026/2027	Total
P	Private	\$0	\$0	\$0	\$0	\$1,500,000	\$0	\$0	\$1,500,000
S	Sewer Fund	\$0	\$0	\$0	\$0	\$1,500,000	\$0	\$0	\$1,500,000
Project Total:									\$3,000,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$0	
Construction:	\$3,000,000	Cost Total: \$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 by the MDEQ.

Location Description:

606 Hannah Ave

Six Year Capital Improvement Program

WW-CIP-21

Wastewater

1170-21-CIP UV System Upgrade Engineering

Project Information

Submitted By:	Elizabeth Hart	Department:	Department of Municipal Utilities	UV System Upgrade Engineering Including Part 41 Submission to EGLE by December 31st, 2024 per July 3rd, 2019 ACO and is in accordance with the AMP prioritization-Condition Assessment rated the UV process the 4th highest risk prior to UV limited capacity being ID'd
Category:	Visionary	Department Head:	Art Krueger	
Fund Group:	Waste Water	Staff Priority:	Imperative (Must Do)	
Fund Detail:	Sewer Plant and Buildings	Council Priority:		

1170-21-CIP-C UV System Upgrade Engineering

Funding Sources:

		Previous	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	2026/2027	Total
P	Private	\$0	\$25,000	\$0	\$0	\$0	\$0	\$0	\$25,000
S	Sewer Fund	\$0	\$25,000	\$0	\$0	\$0	\$0	\$0	\$25,000
Project Total:									\$50,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$50,000	
Construction:	\$0	Cost Total: \$50,000
Annual Maint. Cost:		Project Difference: \$0
Maint. Year Start:		

Service Impact:

This project will increase capacity of the UV system, and upgrade obsolete technology currently in place. Upgrade is mandated by the state regulators to be complete by July 1, 2026.

Project Justification:

This project was mandated 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:

606 Hannah Ave.

WW-CIP-21 Wastewater

1228-21-CIP W Trunkline San Sewer Interceptor Lift Station

Project Information

Submitted By:	Art Krueger	Department:	Department of Municipal Utilities	The West Trunkline Sewer Study identified an alternate to construct a new lift station and forcemain to intercept sewer flows from west of Boardman Lake and south sewer collection subareas and divert flows directly to the WWTP. The proposed lift station location is near Wadsworth and Oak St. with a new forcemain along the Boardman River to the WWTP. Grand Traverse County DPW will contribute funds towards this project.
Category:	Capital	Department Head:	Art Krueger	
Fund Group:	Waste Water	Staff Priority:	Important (Could Do)	
Fund Detail:	Sewer Collection System	Council Priority:		

1228-21-CIP-C W Trunkline San Sewer Interceptor Lift Station

Funding Sources:

		Previous	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	2026/2027	Total
FSG	Federal / State Grant	\$0	\$0	\$3,000,000	\$0	\$0	\$0	\$0	\$3,000,000
S	Sewer Fund	\$0	\$0	\$1,000,000	\$0	\$0	\$0	\$0	\$1,000,000
Project Total:									\$4,000,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$200,000	
Construction:	\$3,800,000	Cost Total: \$4,000,000
Annual Maint. Cost:		Project Difference: \$0
Maint. Year Start:		

Service Impact:

Relief to sewer capacity issues along the 24-inch W Trunkline Sanitary Sewer along the Boardman River between Hall St and the Front St Lift Station.

Project Justification:

Reduce the chance of Sewer System Overflows (SSO's) into the Boardman River by reducing sewer flows to the W Trunkline Sewer. In addition, continue to remove I&I in the sanitary sewer collection system to gain back sewer capacity.

Location Description:

East of Wadsworth at Oak St.

WW-CIP-21 Wastewater

1058-21-CIP WW Gravity Main Rehab\Repair and PACP Inspections

Project Information

Submitted By:	Art Krueger	Department:	Department of Municipal Utilities	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 within a seven year cycle.
Category:	Maintenance	Department Head:	Art Krueger	
Fund Group:	Waste Water	Staff Priority:	Essential (Should Do)	
Fund Detail:	Sewer Collection System	Council Priority:		

1058-21-CIP-C PACP Sanitary Sewer Video Inspections

Funding Sources:

		Previous	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	2026/2027	Total
S	Sewer Fund	\$0	\$0	\$385,000	\$385,000	\$385,000	\$385,000	\$0	\$1,540,000
Project Total:									\$1,540,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$0	
Construction:	\$1,540,000	Cost Total: \$1,540,000
Annual Maint. Cost:		Project Difference: \$0
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.

Six Year Capital Improvement Program

WW-CIP-21 Wastewater

1057-21-CIP WW Manholes Rehab\Repair and MACP Inspections

Project Information

Submitted By:	Art Krueger	Department:	Department of Municipal Utilities	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.
Category:	Maintenance	Department Head:	Art Krueger	
Fund Group:	Waste Water	Staff Priority:	Essential (Should Do)	
Fund Detail:	Sewer Collection System	Council Priority:		

1057-21-CIP-C MACP Manhole Inspections

Funding Sources:

		Previous	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	2026/2027	Total
S	Sewer Fund	\$0	\$0	\$50,000	\$50,000	\$50,000	\$50,000	\$0	\$200,000
Project Total:									\$200,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$0	
Construction:	\$200,000	Cost Total: \$200,000
Annual Maint. Cost:		Project Difference: \$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.

Six Year Capital Improvement Plan

All Projects Submitted for 2021-2022

Budget Year 2021-2022 by Program Name

Bold - Indicates projects occurring in the first FY of the plan . + - Indicates projects with multiple funding										Overall Programming Cost		
Project ID	Cat	Previous	Fiscal Year 2021-2022	Fiscal Year 2022-2023	Fiscal Year 2023-2024	Fiscal Year 2024-2025	Fiscal Year 2025-2026	Fiscal Year 2026-2027	Project Cost	City Funds	Non-City Funds	
Water												
367-21-CIP	Annual Water Rehab/Replace	V	\$450,000	\$450,000	\$450,000	\$450,000	\$450,000	\$450,000	\$450,000	\$3,150,000	\$3,150,000	\$0
933-21-CIP	Chemical System Upgrades-Ferric, Chlorine&Fluoride	V	\$0	\$0	\$250,000	\$0	\$0	\$0	\$0	\$250,000	\$250,000	\$0
935-21-CIP	East - West Transmission Main Upgrade	C	\$2,613,000	\$1,024,000	\$0	\$1,280,000	\$1,180,000	\$1,470,000	\$1,250,000	\$8,817,000	\$8,817,000	\$0
1053-21-CIP	East Front Street 16" Watermain	C	\$0	\$0	\$0	\$420,000	\$0	\$0	\$0	\$420,000	\$420,000	\$0
930-21-CIP	Electrical Gear Upgrades at WTP & Low Service	C	\$0	\$0	\$1,200,000	\$0	\$0	\$0	\$0	\$1,200,000	\$1,200,000	\$0
114-21-CIP	Filters 1, 2 & 3 Media Replacement & Surface Wash	M	\$500,000	\$1,050,000	\$0	\$0	\$0	\$0	\$0	\$1,550,000	\$1,550,000	\$0
934-21-CIP	Filters 1, 2 & 3 Valve Replacement	M	\$200,000	\$277,500	\$0	\$0	\$0	\$0	\$0	\$477,500	\$477,500	\$0
932-21-CIP	Hannah Ave Water Main Upgrade	V	\$0	\$0	\$0	\$0	\$0	\$360,000	\$0	\$360,000	\$360,000	\$0
770-21-CIP	High & Low Service Pump Repairs	C	\$400,000	\$80,000	\$80,000	\$0	\$0	\$0	\$0	\$560,000	\$560,000	\$0
1028-21-CIP	Lagoon Maintenance	M	\$0	\$0	\$75,000	\$0	\$0	\$75,000	\$0	\$150,000	\$150,000	\$0
1186-21-CIP	Low Service Pump Station - Standby Generator	C	\$0	\$0	\$100,000	\$0	\$0	\$0	\$0	\$100,000	\$100,000	\$0
+ 1027-21-CIP	Park Place Area Infrastructure Improvements	C	\$0	\$0	\$1,225,000	\$0	\$0	\$0	\$0	\$1,225,000	\$1,225,000	\$0
121-21-CIP	Plant - Freight Elevator Compliance	V	\$0	\$0	\$100,000	\$0	\$0	\$0	\$0	\$100,000	\$100,000	\$0
1092-21-CIP	Remove and Replace Galvanized Water Services	M	\$0	\$500,000	\$500,000	\$500,000	\$500,000	\$500,000	\$500,000	\$3,000,000	\$3,000,000	\$0
1181-21-CIP	Replace 16" Water Main Valves along Wash& Front St	M	\$0	\$100,000	\$0	\$0	\$0	\$0	\$0	\$100,000	\$100,000	\$0
1225-21-CIP	US-31 Garfield to M-72 W Water Main Replacement	C	\$0	\$0	\$264,050	\$1,320,250	\$0	\$0	\$0	\$1,584,300	\$1,584,300	\$0
1016-21-CIP	Veterans Drive Water Main Replacement Project.	C	\$0	\$0	\$0	\$0	\$0	\$450,000	\$0	\$450,000	\$450,000	\$0
1049-21-CIP	Wayne Hill Fire Pump	C	\$0	\$100,000	\$0	\$0	\$0	\$0	\$0	\$100,000	\$100,000	\$0
1183-21-CIP	WTP Backwash & Surface Wash Pumps	M	\$0	\$0	\$150,000	\$0	\$0	\$0	\$0	\$150,000	\$150,000	\$0
1182-21-CIP	WTP High Service - Cone Valve Replacement	M	\$0	\$0	\$100,000	\$0	\$0	\$0	\$0	\$100,000	\$100,000	\$0
1017-21-CIP	WTP Standby Generator Replacement Project	M	\$0	\$0	\$0	\$0	\$300,000	\$0	\$0	\$300,000	\$300,000	\$0
1065-21-CIP	WTP Sump Pump Discharge Flow Meter	C	\$20,000	\$0	\$0	\$0	\$0	\$0	\$0	\$20,000	\$20,000	\$0

Six Year Capital Improvement Plan

All Projects Submitted for 2021-2022

Budget Year 2021-2022 by Program Name

Bold - Indicates projects occurring in the first FY of the plan . + - Indicates projects with multiple funding										<u>Overall Programming Cost</u>		
Project ID	Cat	Previous	Fiscal Year 2021-2022	Fiscal Year 2022-2023	Fiscal Year 2023-2024	Fiscal Year 2024-2025	Fiscal Year 2025-2026	Fiscal Year 2026-2027	Project Cost	City Funds	Non-City Funds	
Water												
1047-21-CIP	WTP Turbidimeters Replacement	M	\$0	\$0	\$15,000	\$10,000	\$0	\$0	\$0	\$25,000	\$25,000	\$0
1045-21-CIP	WTP Water Quality In-Line Instrumentation	C	\$0	\$25,000	\$0	\$0	\$0	\$0	\$0	\$25,000	\$25,000	\$0
1184-21-CIP	WTP Windows Replacement Project	M	\$0	\$0	\$0	\$0	\$0	\$90,000	\$0	\$90,000	\$90,000	\$0
Total Water			\$3,606,500	\$4,509,050	\$3,980,250	\$2,430,000	\$3,395,000	\$2,200,000	\$24,313,800	\$24,313,800	\$0	

WATER-CIP-21

Water

1084-21-CIP Abandon 12" Water Main Under River at Pine & Front

Project Information

Submitted By:	Art Krueger	Department:	Department of Municipal Utilities	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.
Category:	Maintenance	Department Head:	Art Krueger	
Fund Group:	Water	Staff Priority:	Imperative (Must Do)	
Fund Detail:	Water Distribution System	Council Priority:		

1084-21-CIP-C Abandon 12" Water Main Under River at Pine & Front

Funding Sources:

		Previous	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	2026/2027	Total
WAT	Water Fund	\$10,000	\$0	\$0	\$0	\$0	\$0	\$0	\$10,000
Project Total:									\$10,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$0	
Construction:	\$10,000	Cost Total: \$10,000
Annual Maint. Cost:		Project Difference: \$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-CIP-21

Water

367-21-CIP Annual Water Rehab/Replace

Project Information

Submitted By: Justin Roy	Department: Department of Municipal Utilities	Provide \$450,000 annually in the water fund to continue systematic
Category: Visionary	Department Head: Art Krueger	improvements (repair and replacement) of the underground
Fund Group: Water	Staff Priority: Essential (Should Do)	infrastructure. The Public Improvement Plan will also contain more
Fund Detail: Water Distribution System	Council Priority:	detailed descriptions of proposed near-term projects.

367-21-CIP-C Annual Water Rehab/Replace - Cost

Funding Sources:

		Previous	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	2026/2027	Total
WAT	Water Fund	\$450,000	\$450,000	\$450,000	\$450,000	\$450,000	\$450,000	\$450,000	\$3,150,000
Project Total:									\$3,150,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$0	
Construction:	\$3,150,000	Cost Total: \$3,150,000
Annual Maint. Cost:		Project Difference: \$0
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-CIP-21

Water

933-21-CIP Chemical System Upgrades-Ferric, Chlorine&Fluoride

Project Information

Submitted By: Art Krueger	Department: Department of Municipal Utilities	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.
Category: Visionary	Department Head: Art Krueger	
Fund Group: Water	Staff Priority: Essential (Should Do)	
Fund Detail: Water Treatment	Council Priority:	

933-21-CIP-C Chemical System Upgrades (Alum, Chlorine & - Cost

Funding Sources:

		Previous	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	2026/2027	Total
WAT	Water Fund	\$0	\$0	\$250,000	\$0	\$0	\$0	\$0	\$250,000
Project Total:									\$250,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$10,000	
Construction:	\$240,000	Cost Total: \$250,000
Annual Maint. Cost:		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:

WTP - 2010 Eastern Ave.

WATER-CIP-21

Water

935-21-CIP East - West Transmission Main Upgrade

Project Information

Submitted By:	Art Krueger	Department:	Department of Municipal Utilities	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) FY21-22: Phase 3B: 24" main - Lake Ave from Cass to Union & Phase 4: 24" main; 7th from Union to Wadsworth FY22-23: Park Place Area Infrastructure Improvements - Project 1027-21-CIP FY23-24: Phase 5B: 24" main - Railroad Ave from 8th to Webster & Webster from Railroad Ave to Rose St. FY24-25: Phase 5A: 24" main - Garfield from Washington to Webster & Webster to Rose St. FY25-26: Phase 6: 24" main - 7th from Wadsworth to Spruce FY26-27: Phase 7: 16" main - Spruce from 7th to Wayne St.
Category:	Capital	Department Head:	Art Krueger	
Fund Group:	Water	Staff Priority:	Essential (Should Do)	
Fund Detail:	Water System Reliability Project	Council Priority:		

935-21-CIP-C East - West Transmission Main Upgrade - Cost

Funding Sources:

		Previous	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	2026/2027	Total
WAT	Water Fund	\$2,613,000	\$1,024,000	\$0	\$1,280,000	\$1,180,000	\$1,470,000	\$1,250,000	\$8,817,000
Project Total:									\$8,817,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$1,949,000	
Construction:	\$6,868,000	
Annual Maint. Cost:		Project Difference: \$0
Maint. Year Start:		
Cost Total:		\$8,817,000

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-CIP-21

Water

Projects recommended in the 2014 Water System Reliability Study based upon water model.

Location Description:

Various locations as noted in project description.

WATER-CIP-21

Water

1053-21-CIP **East Front Street 16" Watermain**

Project Information

Submitted By:	Art Krueger	Department:	Department of Municipal Utilities	Replace approx. 1230 lineal feet of existing 16" pit cast main from the early 1900's in E. Front Street between Railroad and Boardman Avenues.
Category:	Capital	Department Head:	Art Krueger	
Fund Group:	Water	Staff Priority:	Essential (Should Do)	
Fund Detail:	Water Distribution System	Council Priority:		

1053-21-CIP-C East Front Street 16" Watermain

Funding Sources:

		Previous	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	2026/2027	Total
WAT	Water Fund	\$0	\$0	\$0	\$420,000	\$0	\$0	\$0	\$420,000
Project Total:									\$420,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$0	
Construction:	\$420,000	Cost Total: \$420,000
Annual Maint. Cost:		Project Difference: \$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-CIP-21

Water

930-21-CIP Electrical Gear Upgrades at WTP & Low Service

Project Information

Submitted By:	Art Krueger	Department:	Department of Municipal Utilities	Project recommended in the 2014 Water System Reliability Study Table 23, Project P-5. Update original (1965 and 1972) electrical equipment for both WTP High Service, WTP basement, and Low Service pumps. Project will also increase electric efficiency and reliability.
Category:	Capital	Department Head:	Art Krueger	
Fund Group:	Water	Staff Priority:	Imperative (Must Do)	
Fund Detail:	Water System Reliability Project	Council Priority:		

930-21-CIP-C Electrical Gear Upgrades at WTP & Low Serv - Cost

Funding Sources:

		Previous	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	2026/2027	Total
WAT	Water Fund	\$0	\$0	\$1,200,000	\$0	\$0	\$0	\$0	\$1,200,000
Project Total:									\$1,200,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$0	
Construction:	\$1,200,000	Cost Total: \$1,200,000
Annual Maint. Cost:		Project Difference: \$0
Maint. Year Start:		

Service Impact:

Increase reliability of electrical systems at WTP and Low Service; Reduce long-term electric outages/repair costs and increase efficiency.

Project Justification:

Recommended in 2014 Water System Reliability Study

Location Description:

WTP: 2010 Eastern Ave & Low Service Pump Station: 2232 Eastern Ave

WATER-CIP-21

Water

114-21-CIP Filters 1, 2 & 3 Media Replacement & Surface Wash

Project Information

Submitted By:	Art Krueger	Department:	Department of Municipal Utilities	<p>Project recommended in the 2014 Water System Reliability Study Table 23, Project P-2.</p> <p>Remove and replace all filter media in Filters #1, #2, and #3. The media and surface wash components in filters #1 and #2 are 55 years old (original from 1965) and filter #3 media and surface wash components are 48 years old (original from 1972) and have been in use for all that time. The surface wash piping system needs to be replaced to work more effectively and the concrete filter wall coatings in all three filter bays need to be removed and recoated.</p> <p>This project also includes similar work to remove and replace wall and interior pipe coatings in the two flocculation tanks located just prior to the filters in the treatment process. This project was in the CIP previously as Project 1093-19-CIP for \$400,000. Exterior floc tank structural wall repairs were made in 2019 for approximately \$50,000, leaving \$350,000 available to put toward this project. This project was combined with Project 934-21-CIP and bid for construction in November 2020. Costs updated to reflect bid/construction contract and construction engineering services approved at 12/7/20 City Commission meeting.</p>
Category:	Maintenance	Department Head:	Art Krueger	
Fund Group:	Water	Staff Priority:	Imperative (Must Do)	
Fund Detail:	Water Treatment	Council Priority:		

114-21-CIP-C Filters 1, 2 & 3 Media Replacement & Surface Wash

Funding Sources:

		Previous	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	2026/2027	Total
WAT	Water Fund	\$500,000	\$1,050,000	\$0	\$0	\$0	\$0	\$0	\$1,550,000
Project Total:									\$1,550,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$50,000	
Construction:	\$1,500,000	
Annual Maint. Cost:		
Maint. Year Start:		
		Cost Total: \$1,550,000
		Project Difference: \$0

Service Impact:

Restore reliability of 3 filters and 2 floc tanks at the WTP - Critical to plant operations to continue to provide safe, clean drinking water and meet mandated EGLE standards.

Project Justification:



WATER-CIP-21

Water

Filters 1, 2 & 3 media and surface wash components are original from 1965 (Filters 1 & 2) and 1972 (Filter 3) and are nearing the end of their useful life expectancy. Therefore, they need to be rehabilitated. Filters 4 & 5 were rehabilitated in 2014 and are in good working order. The two floc tanks interior walls and piping need to be recoated to properly seal them from weeping through the exterior walls.

Location Description:

2010 Eastern Ave

WATER-CIP-21

Water

934-21-CIP Filters 1, 2 & 3 Valve Replacement

Project Information

Submitted By:	Art Krueger	Department:	Department of Municipal Utilities	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). 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. This project is being combined with Project 114-21-CIP for construction and is planned to be completed over two fiscal years; FY 2020-21 and FY 2021-22. This combined project was bid for construction in November 2020. Costs updated to reflect bid/construction contract and construction engineering services approved at 12/7/20 City Commission meeting.
Category:	Maintenance	Department Head:	Art Krueger	
Fund Group:	Water	Staff Priority:	Imperative (Must Do)	
Fund Detail:	Water Treatment	Council Priority:		

934-21-CIP-C Filters 1, 2 & 3 Valve Replacement - Cost

Funding Sources:

		Previous	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	2026/2027	Total
WAT	Water Fund	\$200,000	\$277,500	\$0	\$0	\$0	\$0	\$0	\$477,500
Project Total:									\$477,500

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$25,500	
Construction:	\$452,000	Cost Total: \$477,500
Annual Maint. Cost:		Project Difference: \$0
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:

WTP - 2010 Eastern Ave.

WATER-CIP-21

Water

932-21-CIP **Hannah Ave Water Main Upgrade**

Project Information

Submitted By:	Art Krueger	Department:	Department of Municipal Utilities	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:	Visionary	Department Head:	Art Krueger	
Fund Group:	Water	Staff Priority:	Essential (Should Do)	
Fund Detail:	Water Distribution System	Council Priority:		

932-21-CIP-C Hannah Ave Water Main Upgrade - Cost

Funding Sources:

		Previous	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	2026/2027	Total
WAT	Water Fund	\$0	\$0	\$0	\$0	\$0	\$360,000	\$0	\$360,000
Project Total:									\$360,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$0	
Construction:	\$360,000	Cost Total: \$360,000
Annual Maint. Cost:		Project Difference: \$0
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-CIP-21

Water

770-21-CIP High & Low Service Pump Repairs

Project Information

Submitted By:	Art Krueger	Department:	Department of Municipal Utilities	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.
Category:	Capital	Department Head:	Art Krueger	
Fund Group:	Water	Staff Priority:	Imperative (Must Do)	
Fund Detail:	Water System Reliability Project	Council Priority:		

770-21-CIP-C High & Low Service Pump Repairs - Cost

Funding Sources:

		Previous	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	2026/2027	Total
WAT	Water Fund	\$400,000	\$80,000	\$80,000	\$0	\$0	\$0	\$0	\$560,000
Project Total:									\$560,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$0	
Construction:	\$560,000	Cost Total: \$560,000
Annual Maint. Cost:		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:

WTP - 2010 Eastern Ave.



Six Year Capital Improvement Program

WATER-CIP-21

Water

1028-21-CIP **Lagoon Maintenance**

Project Information

Submitted By:	Art Krueger	Department:	Department of Municipal Utilities	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.
Category:	Maintenance	Department Head:	Art Krueger	
Fund Group:	Water	Staff Priority:	Imperative (Must Do)	
Fund Detail:	Water Treatment	Council Priority:		

1028-21-CIP-C Lagoon Maintenance- Cost

Funding Sources:

		Previous	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	2026/2027	Total
WAT	Water Fund	\$0	\$0	\$75,000	\$0	\$0	\$75,000	\$0	\$150,000
Project Total:									\$150,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$0	
Construction:	\$150,000	Cost Total: \$150,000
Annual Maint. Cost:		Project Difference: \$0
Maint. Year Start:		

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:

WTP - 2010 Eastern Ave.

WATER-CIP-21

Water

1186-21-CIP Low Service Pump Station - Standby Generator

Project Information

Submitted By:	Art Krueger	Department:	Department of Municipal Utilities	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.
Category:	Capital	Department Head:	Art Krueger	
Fund Group:	Water	Staff Priority:	Essential (Should Do)	
Fund Detail:	Water Treatment	Council Priority:		

1186-21-CIP-C Low Service Pump Station - Standby Generator

Funding Sources:

		Previous	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	2026/2027	Total
WAT	Water Fund	\$0	\$0	\$100,000	\$0	\$0	\$0	\$0	\$100,000
Project Total:									\$100,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$0	
Construction:	\$100,000	Cost Total: \$100,000
Annual Maint. Cost:		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 occurs 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

WATER-CIP-21

Water

121-21-CIP Plant - Freight Elevator Compliance

Project Information

Submitted By:	Art Krueger	Department:	Department of Municipal Utilities	Replacement of elevator's original steel single wall casing hydraulic cylinder (1965) with double wall casing cylinder.
Category:	Visionary	Department Head:	Art Krueger	
Fund Group:	Water	Staff Priority:	Essential (Should Do)	
Fund Detail:	Water Treatment	Council Priority:		

121-21-CIP-C Plant - Freight Elevator Compliance - Cost

Funding Sources:

		Previous	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	2026/2027	Total
WAT	Water Fund	\$0	\$0	\$100,000	\$0	\$0	\$0	\$0	\$100,000
Project Total:									\$100,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$0	
Construction:	\$100,000	Cost Total: \$100,000
Annual Maint. Cost:		Project Difference: \$0
Maint. Year Start:		

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:

WTP - 2010 Eastern Ave.

WATER-CIP-21

Water

1092-21-CIP Remove and Replace Galvanized Water Services

Project Information

Submitted By:	Art Krueger	Department:	Department of Municipal Utilities	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. The work is planned to be bid and contracted out.
Category:	Maintenance	Department Head:	Art Krueger	
Fund Group:	Water	Staff Priority:	Essential (Should Do)	
Fund Detail:	Water Distribution System	Council Priority:		

1092-21-CIP-C Remove and Replace Galvanized Water Services

Funding Sources:

		Previous	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	2026/2027	Total
WAT	Water Fund	\$0	\$500,000	\$500,000	\$500,000	\$500,000	\$500,000	\$500,000	\$3,000,000
Project Total:									\$3,000,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$0	
Construction:	\$3,000,000	Cost Total: \$3,000,000
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-CIP-21

Water

1181-21-CIP **Replace 16" Water Main Valves along Wash& Front St**

Project Information

Submitted By:	Art Krueger	Department:	Department of Municipal Utilities	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.
Category:	Maintenance	Department Head:	Art Krueger	
Fund Group:	Water	Staff Priority:	Essential (Should Do)	
Fund Detail:	Water Distribution System	Council Priority:		

1181-21-CIP-C

Funding Sources:

		Previous	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	2026/2027	Total
WAT	Water Fund	\$0	\$100,000	\$0	\$0	\$0	\$0	\$0	\$100,000
Project Total:									\$100,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$0	
Construction:	\$100,000	Cost Total: \$100,000
Annual Maint. Cost:		Project Difference: \$0
Maint. Year Start:		

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-CIP-21

Water

1225-21-CIP US-31 Garfield to M-72 W Water Main Replacement

Project Information

Submitted By:	Art Krueger	Department:	Department of Municipal Utilities	Coordinate with MDOT's US-31 roadway project to replace old 6-inch and 16-inch mains with new 12-inch and 16-inch mains between Garfield Ave and Hall Street.
Category:	Capital	Department Head:	Art Krueger	
Fund Group:	Water	Staff Priority:	Essential (Should Do)	
Fund Detail:	Water Distribution System	Council Priority:		

1225-21-CIP-C US-31 Garfield to M-72 W Water Main Replacement

Funding Sources:

		Previous	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	2026/2027	Total
WAT	Water Fund	\$0	\$0	\$264,050	\$1,320,250	\$0	\$0	\$0	\$1,584,300
Project Total:									\$1,584,300

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$264,050	
Construction:	\$1,320,250	Cost Total: \$1,584,300
Annual Maint. Cost:		Project Difference: \$0
Maint. Year Start:		

Service Impact:

Need to replace old undersized 6-inch main to a larger capacity 12-inch main; Need to replace aging 16-inch transmission main. All mains are within MDOT Right of Way.

Project Justification:

Coordinate with MDOT while their road is under construction to replace aging infrastructure.

Location Description:

US-31 between Garfield Ave and Hall St

WATER-CIP-21

Water

1016-21-CIP **Veterans Drive Water Main Replacement Project.**

Project Information

Submitted By:	Justin Roy	Department:	Department of Municipal Utilities	Replace 6" and 8" diameter water main with 12" between 14th Street and Georgetown Place.
Category:	Capital	Department Head:	Art Krueger	
Fund Group:	Water	Staff Priority:	Essential (Should Do)	
Fund Detail:	Water Distribution System	Council Priority:		

1016-21-CIP-C Veterans Drive Water Main Replacement Project.

Funding Sources:

		Previous	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	2026/2027	Total
WAT	Water Fund	\$0	\$0	\$0	\$0	\$0	\$450,000	\$0	\$450,000
Project Total:									\$450,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$0	
Construction:	\$450,000	Cost Total: \$450,000
Annual Maint. Cost:		Project Difference: \$0
Maint. Year Start:		

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.

Six Year Capital Improvement Program

WATER-CIP-21

Water

1049-21-CIP **Wayne Hill Fire Pump**

Project Information

Submitted By:	Art Krueger	Department:	Department of Municipal Utilities	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.
Category:	Capital	Department Head:	Art Krueger	
Fund Group:	Water	Staff Priority:	Imperative (Must Do)	
Fund Detail:	Water Distribution System	Council Priority:		

1049-21-CIP-C Wayne Hill Fire Pump

Funding Sources:

		Previous	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	2026/2027	Total
WAT	Water Fund	\$0	\$100,000	\$0	\$0	\$0	\$0	\$0	\$100,000
Project Total:									\$100,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$0	
Construction:	\$100,000	Cost Total: \$100,000
Annual Maint. Cost:		Project Difference: \$0
Maint. Year Start:		

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-CIP-21

Water

1183-21-CIP WTP Backwash & Surface Wash Pumps

Project Information

Submitted By:	Art Krueger	Department:	Department of Municipal Utilities	The Water Treatment Plant has original filter backwash and surface wash pumps from 1965. These pumps need to be rebuilt or replaced in the near future.
Category:	Maintenance	Department Head:	Art Krueger	
Fund Group:	Water	Staff Priority:	Essential (Should Do)	
Fund Detail:	Water Treatment	Council Priority:		

1183-21-CIP-C WTP Backwash & Surface Wash Pumps

Funding Sources:

		Previous	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	2026/2027	Total
WAT	Water Fund	\$0	\$0	\$150,000	\$0	\$0	\$0	\$0	\$150,000
Project Total:									\$150,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$0	
Construction:	\$150,000	Cost Total: \$150,000
Annual Maint. Cost:		Project Difference: \$0
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-CIP-21

Water

1182-21-CIP WTP High Service - Cone Valve Replacement

Project Information

Submitted By:	Art Krueger	Department:	Department of Municipal Utilities	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.
Category:	Maintenance	Department Head:	Art Krueger	
Fund Group:	Water	Staff Priority:	Essential (Should Do)	
Fund Detail:	Water Treatment	Council Priority:		

1182-21-CIP-C

Funding Sources:

		Previous	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	2026/2027	Total
WAT	Water Fund	\$0	\$0	\$100,000	\$0	\$0	\$0	\$0	\$100,000
Project Total:									\$100,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$0	
Construction:	\$100,000	Cost Total: \$100,000
Annual Maint. Cost:		Project Difference: \$0
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-CIP-21

Water

1017-21-CIP WTP Standby Generator Replacement Project

Project Information

Submitted By:	Art Krueger	Department:	Department of Municipal Utilities	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.
Category:	Maintenance	Department Head:	Art Krueger	
Fund Group:	Water	Staff Priority:	Essential (Should Do)	
Fund Detail:	Water System Reliability Project	Council Priority:		

1017-21-CIP-C WTP Standby Generator Replacement Project

Funding Sources:

		Previous	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	2026/2027	Total
WAT	Water Fund	\$0	\$0	\$0	\$0	\$300,000	\$0	\$0	\$300,000
Project Total:									\$300,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$0	
Construction:	\$300,000	Cost Total: \$300,000
Annual Maint. Cost:		Project Difference: \$0
Maint. Year Start:		

Service Impact:

Increase reliability and efficiency by replacing the plant generator when it is at the end of its useful life.

Project Justification:

Recommended in the 2014 Water System Reliability Study.

Location Description:

WTP - 2010 Eastern Ave.

WATER-CIP-21

Water

1065-21-CIP WTP Sump Pump Discharge Flow Meter

Project Information

Submitted By:	Art Krueger	Department:	Department of Municipal Utilities	Install flow meter to accurately measure lagoon discharge (from filter backwash) to East Bay as required per the NPDES permit.
Category:	Capital	Department Head:	Art Krueger	
Fund Group:	Water	Staff Priority:	Essential (Should Do)	
Fund Detail:	Water Treatment	Council Priority:		

1065-21-CIP-C WTP Sump Pump Discharge Flow Meter

Funding Sources:

		Previous	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	2026/2027	Total
WAT	Water Fund	\$20,000	\$0	\$0	\$0	\$0	\$0	\$0	\$20,000
Project Total:									\$20,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$0	
Construction:	\$20,000	Cost Total: \$20,000
Annual Maint. Cost:		Project Difference: \$0
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.

Location Description:

Water Treatment Plant, 2010 Eastern Ave.

WATER-CIP-21

Water

1047-21-CIP WTP Turbidimeters Replacement

Project Information

Submitted By:	Art Krueger	Department:	Department of Municipal Utilities	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.
Category:	Maintenance	Department Head:	Art Krueger	
Fund Group:	Water	Staff Priority:	Imperative (Must Do)	
Fund Detail:	Water Treatment	Council Priority:		

1047-21-CIP-C WTP Turbidimeters Replacement

Funding Sources:

		Previous	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	2026/2027	Total
WAT	Water Fund	\$0	\$0	\$15,000	\$10,000	\$0	\$0	\$0	\$25,000
Project Total:									\$25,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$0	
Construction:	\$25,000	Cost Total: \$25,000
Annual Maint. Cost:		Project Difference: \$0
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-CIP-21

Water

1045-21-CIP WTP Water Quality In-Line Instrumentation

Project Information

Submitted By:	Art Krueger	Department:	Department of Municipal Utilities	Install a streaming current monitor instrument to monitor water chemistry in order to optimize daily coagulant dosing.
Category:	Capital	Department Head:	Art Krueger	
Fund Group:	Water	Staff Priority:	Essential (Should Do)	
Fund Detail:	Water Treatment	Council Priority:		

1045-21-CIP-C WTP Water Quality In-Line Instrumentation

Funding Sources:

		Previous	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	2026/2027	Total
WAT	Water Fund	\$0	\$25,000	\$0	\$0	\$0	\$0	\$0	\$25,000
Project Total:									\$25,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$0	
Construction:	\$25,000	Cost Total: \$25,000
Annual Maint. Cost:		Project Difference: \$0
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:

WTP - 2010 Eastern Ave.



Six Year Capital Improvement Program

WATER-CIP-21

Water

1184-21-CIP WTP Windows Replacement Project

Project Information

Submitted By:	Art Krueger	Department:	Department of Municipal Utilities	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:		

1184-21-CIP-C WTP Windows Replacement Project

Funding Sources:

		Previous	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	2026/2027	Total
WAT	Water Fund	\$0	\$0	\$0	\$0	\$0	\$90,000	\$0	\$90,000
Project Total:									\$90,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$0	
Construction:	\$90,000	Cost Total: \$90,000
Annual Maint. Cost:		Project Difference: \$0
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



Six Year Capital Improvement Program

	Previous	Fiscal Year 2021-2022	Fiscal Year 2022-2023	Fiscal Year 2023-2024	Fiscal Year 2024-2025	Fiscal Year 2025-2026	Fiscal Year 2026-2027	Project Cost	City Funds	Non-City Funds
GRAND TOTAL:	\$37,980,394	\$32,277,431	\$44,218,994	\$55,715,470	\$19,837,925	\$17,954,016	\$16,924,067	\$232,313,184	\$166,593,591	\$58,314,706

Table of Contents

Bridges	1
Brown Bridge	11
Cemetery	19
Civic	24
Facilities	32
Fire	51
Garage	56
General Government	61
Light and Power	71
Parking	106
Parks	136
Police	169
Streets	172
Walkways	189
Wastewater	199
Water	242