

Six Year Capital Improvement Plan

All Projects Submitted for 2019-2020

Budget Year 2019-2020 by Program Name

Bold - Indicates	projects occurring in the first FY of the plan.											
+ - Indicates pro	jects with multiple funding											
				Fiscal Year	Project	City	Non-City					
Project ID		Cat	Previous	2019-2020	2020-2021	2021-2022	2022-2023	2023-2024	2024-2025	Cost	Funds	Funds
Bridges												
714-19-CIP	200 Block Alley Enhanced Improvements	V	\$0	\$0	\$0	\$817,000	\$0	\$0	\$0	\$817,000	\$817,000	\$0
+ 58-19-CIP	Eighth Street Bridge Repair	V	\$155,000	\$1,144,500	\$0	\$0	\$0	\$0	\$0	\$1,299,500	\$587,000	\$712,500
+ 885-19-CIP	North Cass Street Bridge Rehabilitation	V	\$183,000	\$45,000	\$1,115,000	\$0	\$0	\$0	\$0	\$1,343,000	\$246,500	\$1,096,500
+ 586-19-CIP	Park Street Bridge Repair	V	\$0	\$957,500	\$0	\$0	\$0	\$0	\$0	\$957,500	\$150,000	\$807,500
+ 187-19-CIP	South Cass Street Bridge Repair	V	\$0	\$939,502	\$0	\$0	\$0	\$0	\$0	\$939,502	\$132,002	\$807,500
+ 186-19-CIP	South Union Street Bridge Repair	V	\$0	\$74,500	\$1,243,500	\$0	\$0	\$0	\$0	\$1,318,000	\$260,500	\$1,057,500
+ 535-19-CIP	West Front Street Bridge Replacement	V	\$0	\$1,562,430	\$0	\$0	\$0	\$0	\$0	\$1,562,430	\$380,870	\$1,181,560
Total Bridges			\$338,000	\$4,723,432	\$2,358,500	\$817,000	\$0	\$0	\$0	\$8,236,932	\$2,573,872	\$5,663,060



RIDGES-19-CIP	<u>Bridges</u>									
14-19-CIP	200 Block Alley Enhanced	Improveme	ents							
Project Informa	ation									
Submitted By:	Rob Baciagalupi	Dej	partment:	Downtown D	evelopment		Project Descripti	on:		
Category:	Visionary	Dej	partment Head:	Jean Derenz	y		Pedestrian bridge	, riverwalk and pe	edestrian improvements to	north
Fund Group:	Tax Increment Financing	Sta	ff Priority:	Essential (Sh	nould Do)		East Front alley b	etween Cass and	Park.	
Fund Detail:	TIF 97	Co	uncil Priority:							
200 Block Alley E	Enhanced Improvements - Cost					714-1	9-CIP-C			
Funding Source	s:	Description	2019/2020	2020/2021	2021/202	•	2022/2023	2023/2024	2024/2025	Total
TIF97	TIF 97	Previous								
111 97	111 57	\$0	\$0	\$0	\$817,000)	\$0	\$0	\$0	\$817,000
									Project Total:	\$817,000
				COST DETAIL:						
				Study:		\$0				
				Land Acquisition /	/ ROW:	\$0				
				Engineering / Desi	ign:	\$0				
				Construction:		\$817,0	000		Cost Total:	\$817,000
				Annual Maint. Cos	st:				Project Difference:	\$0
				Maint. Year Start:		1905				
Service Impact:										
Landscaping and	streetscape elements will resul	lt in additional	services. Trash	receptacle pick up						
Project Justifica	tion:									
TIF 97										

TIF 97

Location Description:

Alley north of the 200 block of E. Front Street



RIDGES-19-CIP	Bridges								
8-19-CIP	Eighth Street Bridge Repa	air							
Project Inform	ation								
Submitted By:	Jean Derenzy	Dep	partment:	Downtown [Development	Project Descrip	tion:		
Category:	Visionary	Dep	partment Head:	Tim Lodge		The work will in	clude concrete box	beam deck removal and	
Fund Group:	Tax Increment Financing	Sta	ff Priority:	Imperitive (N	Must Do)	•	• •	sidewalk widening, riverba	nk
Fund Detail:	TIF 2	Cou	uncil Priority:					nd related work including ant of the composite deck	area is
							• •	ceived \$750,000 in funding	
						the MDOT Loca	I Bridge Program w	which requires a 5% local r	
							perform engineering	g for the project. ed with the Midtown Water	-
								luded in the Water Fund.	
Eighth Street Br	idge Repair (+Grant) - Cost					58-19-CIP-C			
Funding Source	s:								
		Previous	2019/2020	2020/2021	2021/202	2 2022/2023	2023/2024	2024/2025	Total
ACPF	Available Capital Projects Fund	\$155,000	\$0	\$0	\$0	\$0	\$0	\$0	\$155,000
FSG	Federal / State Grant	\$0	\$712,500	\$0	\$0	\$0	\$0	\$0	\$712,500
TIFOT	TIF Old Town	\$0	\$150,000	\$0	\$0	\$0	\$0	\$0	\$150,000
WAT	Water Fund	\$0	\$282,000	\$0	\$0	\$0	\$0	\$0	\$282,000
								Project Total:	\$1,299,500
				COST DETAIL:					
				Study:		\$0			
				Land Acquisition	/ ROW:	\$0			
				Engineering / Des	sign:	\$30,506			
				Construction:		\$1,396,245		Cost Total:	\$1,426,751
				Annual Maint. Co	st:	\$5,500		Project Difference:	\$-127,251
				Maint. Year Start:	:				
Service Impact: See Project Des									
Project Justifica	ation:								
See Project Des	cription.								
Location Descri	ption:								
See Project Des	cription								



RIDGES-19-CIP	<u>Bridges</u>								
5-19-CIP	North Cass Street Bridge	Rehabilitatio	on						
Project Informa	ation								
Submitted By:	Jean Derenzy	Dep	partment:	Downtown D	Development	Project Descript	ion:		
Category:	Visionary	Dep	partment Head:	Tim Lodge		The work anticipa	ated includes the r	emoval and replacement	of the
Fund Group:	Tax Increment Financing	Sta	ff Priority:	Imperitive (M	/lust Do)	-		ted deck, widening and	
Fund Detail:	TIF 97	Coι	uncil Priority:			replacement of th related work.	he sidewalks, railin	gs, approach pavement a	nd
North Cass Stree	t Bridge Rehabilitation (+ - Cos	t				885-19-CIP-C			
Funding Sources									
		Previous	2019/2020	2020/2021	2021/2022	2 2022/2023	2023/2024	2024/2025	Tota
FSG	Federal / State Grant	\$0	\$0	\$913,500	\$0	\$0	\$0	\$0	\$913,50
IN	Inkind	\$183,000	\$0	\$0	\$0	\$0	\$0	\$0	\$183,00
TIF97	TIF 97	\$0	\$45,000	\$201,500	\$0	\$0	\$0	\$0	\$246,50
								Project Total:	\$1,343,00
				COST DETAIL:					
				Study:		\$0			
				Land Acquisition	/ ROW:	\$0			
				Engineering / Des	sign:	\$183,000			
				Construction:		\$1,160,000		Cost Total:	\$1,343,00
				Annual Maint. Co	st:			Project Difference:	\$
				Maint. Year Start:		1905			
Service Impact:	uld lessen service burden.								

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.



RIDGES-19-CIP	<u>Bridges</u>								
6-19-CIP	Park Street Bridge Repair								
Project Informa		_		Downtown	Dovelenment				
Submitted By:	Rob Baciagalupi Visionary		partment:	Jean Derenz	Development	Project Descrip	tion: lge superstructure.		
Category: Fund Group:	Tax Increment Financing		partment Head:	Essential (S	-	Renabilitate bio	ige superstructure.		
Fund Detail:	TIF 97		ff Priority: uncil Priority:	Lasential (3					
		00	unen Friority.						
Park Street Bridg						586-19-CIP-C			
Funding Sources	5:	Previous	2019/2020	2020/2021	2021/202	2 2022/2023	2023/2024	2024/2025	То
FSG	Federal / State Grant	\$0	\$807,500	\$0	\$0	\$0	\$0	\$0	\$807,5
TIF97	TIF 97	\$0	\$150,000	\$0	\$0	\$0	\$0	\$0	\$150,0
								Project Total:	\$957,5
				COST DETAIL:				·	
				Study:		\$0			
				Land Acquisition	/ ROW:	\$0			
				Engineering / Des	sign:	\$29,705			
				Construction:		\$654,219		Cost Total:	\$683,92
				Annual Maint. Co	st:			Project Difference:	\$273,5
				Maint. Year Start:		1905			
Service Impact:									
N/A									

Location Description:

Park St



RIDGES-19-CIP	<u>Bridges</u>								
87-19-CIP	South Cass Street Bridge	Repair							
Project Informa	ation								
Submitted By: Category: Fund Group: Fund Detail:	Jean Derenzy Visionary Tax Increment Financing TIF 97	Dej Sta	oartment: oartment Head: ff Priority: uncil Priority:	Downtown D Tim Lodge Essential (Sl	·	Project Descripti Concrete arch re		roject may move to FY 17	'18.
	et Bridge Repair(+TIF2) - Cost				1	87-19-CIP-C			
Funding Source	s:	Previous	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	2024/2025	Total
FSG	Federal / State Grant	\$0	\$807,500	\$0	\$0	\$0	\$0	\$0	\$807,500
TIF97	TIF 97	\$0	\$66,001	\$0	\$0	\$0	\$0	\$0	\$66,001
TIFOT	TIF Old Town	\$0	\$66,001	\$0	\$0	\$0	\$0	\$0	\$66,001
								Project Total:	\$939,502
				COST DETAIL:					
				Study:	\$0	1			
				Land Acquisition	/ ROW : \$0	1			
				Engineering / Des	s ign: \$9	2,578			
				Construction:	\$9	31,310		Cost Total:	\$1,023,888
				Annual Maint. Co	st:			Project Difference:	\$-84,386
				Maint. Year Start:					
Service Impact:									
See Project Desc	cription.								
Project Justifica									
See Project Desc	cription.								

Location Description:



RIDGES-19-CIP	<u>Bridges</u>								
6-19-CIP	South Union Street Bridge	Repair							
Project Inform	ation								
Submitted By:	Jean Derenzy	Dej	partment:	Downtown D	evelopment	Project Descripti	on:		
Category:	Visionary	Dej	partment Head:	Tim Lodge		Rehabilitate bridg	je superstructure.		
Fund Group:	Tax Increment Financing	Sta	ff Priority:	Essential (Sh	iould Do)				
Fund Detail:	TIF 97	Co	uncil Priority:						
South Union Stre	eet Bridge Repair (+TIF2) - Cost				1	86-19-CIP-C			
Funding Source	es:	Previous	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	2024/2025	Tota
FSG	Federal / State Grant	\$0	\$0	\$1,057,500	\$0	\$0	\$0	\$0	\$1,057,50
GEN	General Fund	\$O	\$74,500	\$0	\$0	\$0	\$0	\$0	\$74,50
TIF97	TIF 97	\$0	\$0	\$93,000	\$0	\$0	\$0	\$0	\$93,00
TIFOT	TIF Old Town	\$0	\$0	\$93,000	\$0	\$0	\$0	\$0	\$93,00
								Project Total:	\$1,318,00
				COST DETAIL:					
				Study:	\$0				
				Land Acquisition	ROW: \$0				
				Engineering / Des	i gn: \$1	89,000			
				Construction:	\$1	,134,000		Cost Total:	\$1,323,00
				Annual Maint. Cos	it:			Project Difference:	\$-5,00
				Maint. Year Start:	19	905			
Service Impact:									
See Project Des	cription.								

See Project Description.

Location Description:



RIDGES-19-CIP	<u>Bridges</u>												
85-19-CIP	West Front Street Bridge	Replacemer	nt										
Project Inform	ation												
Submitted By:	Jean Derenzy	Dej	partment:	Downtown D	Development	Project Descript	ion:						
Category:	Visionary	Dej	partment Head:	Tim Lodge		This project inclu	des the complete	removal and replacement	of the				
Fund Group:	Tax Increment Financing	Sta	ff Priority:	Imperitive (N	/lust Do)	-	-	new concrete bridge inc	-				
Fund Detail:	TIF 97	Co	uncil Priority:				aesthetic treatments. The current condition of the Front Street bridge is poor and very poor and it cannot be properly evaluated and						
						•		and load carrying requirer					
								nding thru the MDOT Loc	-				
						Program which re engineering for tl		match and the City to pe	rform				
West Front Stree	et Bridge Replacement - Cost					535-19-CIP-C	le project.						
Funding Source	s:												
		Previous	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	2024/2025	Tota				
FSG	Federal / State Grant	\$0	\$1,181,560	\$0	\$0	\$0	\$0	\$0	\$1,181,560				
TIF97	TIF 97	\$0	\$220,001	\$0	\$0	\$0	\$0	\$0	\$220,007				
WAT	Water Fund	\$0	\$160,869	\$0	\$0	\$0	\$0	\$0	\$160,869				
								Project Total:	\$1,562,430				
				COST DETAIL:									
				Study:		\$0							
				Land Acquisition	/ ROW:	\$0							
				Engineering / Des	sign:	\$58,405							
				Construction:		\$1,603,055		Cost Total:	\$1,661,46 [,]				
				Annual Maint. Co	st:	\$5,500		Project Difference:	\$-99,03 ⁻				
				Maint. Year Start:									
Service Impact:													
See Project Des	cription.												
Project Justifica	tion:												
See Project Des	cription.												

Location Description:



Six Year Capital Improvement Plan

Budget Year 2019-2020 by Program Name

All Projects Submitted for 2019-2020

	projects occurring in the first FY of the plan.											
Project ID		Cat	Previous	Fiscal Year 2019-2020	Fiscal Year 2020-2021	Fiscal Year 2021-2022	Fiscal Year 2022-2023	Fiscal Year 2023-2024	Fiscal Year 2024-2025	Project Cost	City Funds	Non-City Funds
rown Bridg	ge											
1106-19-CIP	ADA Accessible Watercraft Landing	V	\$0	\$0	\$0	\$0	\$0	\$100,000	\$0	\$100,000	\$50,000	\$50,000
850-19-CIP	ADA Trail Improvements	С	\$0	\$46,000	\$0	\$0	\$0	\$0	\$0	\$46,000	\$23,000	\$23,000
1105-19-CIP	Boardman River Recreation Plan	V	\$0	\$30,000	\$0	\$0	\$0	\$0	\$0	\$30,000	\$5,000	\$25,000
849-19-CIP	Bucks Landing Renovation	М	\$0	\$15,000	\$0	\$0	\$0	\$0	\$0	\$15,000	\$15,000	\$0
1107-19-CIP	Caretaker House Maintenance	М	\$0	\$15,000	\$0	\$0	\$1,000	\$0	\$0	\$16,000	\$16,000	\$0
975-19-CIP	Fish & Wildlife Habitat Improvements	М	\$0	\$85,000	\$10,000	\$0	\$0	\$0	\$0	\$95,000	\$55,000	\$40,000
851-19-CIP	Interpretive and Navigational Signage	С	\$0	\$15,000	\$0	\$0	\$0	\$0	\$0	\$15,000	\$10,000	\$5,000
853-19-CIP	Invasive Species Treatment	М	\$0	\$5,000	\$0	\$5,000	\$0	\$0	\$0	\$10,000	\$10,000	\$0
863-19-CIP	North Parking Lot Improvements	М	\$0	\$15,000	\$0	\$0	\$0	\$0	\$0	\$15,000	\$15,000	\$0
856-19-CIP	Overlook (2) and Access Steps (3 sets)	V	\$0	\$0	\$45,000	\$0	\$0	\$0	\$0	\$45,000	\$22,500	\$22,500
855-19-CIP	Overlook and Historical Display at Former Powerho	V	\$0	\$0	\$0	\$0	\$20,000	\$0	\$0	\$20,000	\$10,000	\$10,000
otal Brown E	Bridae		\$0	\$226,000	\$55,000	\$5,000	\$21,000	\$100,000	\$0	\$407,000	\$231,500	\$175,500



Brown Br	ridge							
ADA Accessible Waterc	raft Landir	ng						
mation								
Grand Traverse Conser	vation E	Department:	Department	of Public Services	Project Descript	ion:		
Visionary		Department Head:	Frank Dituri		Replace existing	landing with ADA a	ccessible watercraft landii	ng.
Brown Bridge Trust Parl	ks Impro	Staff Priority:	Essential (S	hould Do)				
Brown Bridge Trust Parl	ks Impro	Council Priority:						
e Watercraft Landing				11	06-19-CIP-C			
es:								
	Previou	ıs 2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	2024/2025	Tota
Brown Bridge Trust Parks	\$0	\$0	\$0	\$0	\$0	\$50,000	\$0	\$50,000
Federal / State Grant	\$0	\$0	\$0	\$0	\$0	\$50,000	\$0	\$50,000
							Project Total:	\$100,00
			COST DETAIL:					
			Study:	\$0				
			Land Acquisition	/ ROW: \$0				
			Engineering / Des	sign: \$25	i,000			
			Construction:	\$75	i,000		Cost Total:	\$100,000
			Annual Maint. Co	st:			Project Difference:	\$0
			Maint. Year Start:	:				
t: agement Contract w/GTCD								
cation:								
or those with physical disabilitie	es							
	ADA Accessible Water nation Grand Traverse Conser Visionary Brown Bridge Trust Parl Brown Bridge Trust Parl Watercraft Landing es: Brown Bridge Trust Parks Federal / State Grant : agement Contract w/GTCD ration:	nation Grand Traverse Conservation E Visionary Brown Bridge Trust Parks Impr Brown Bridge Trust Parks Impr es: Previou Brown Bridge Trust Parks \$0 Federal / State Grant \$0 : agement Contract w/GTCD	ADA Accessible Watercraft Landing nation Grand Traverse Conservation E Visionary Brown Bridge Trust Parks Impro Brown Bridge Trust Parks Impro Watercraft Landing es: Previous 2019/2020 8 Brown Bridge Trust Parks \$0 \$0 Federal / State Grant \$0 \$0 Federal / State Grant \$0 \$0 State Grant \$0 \$0 \$0 State Grant \$0 \$0 State Grant \$0 \$0 \$0 \$0\$ State Grant \$0 \$0 \$0\$ State Grant \$0 \$0	ADA Accessible Watercraft Landing mation Grand Traverse Conservation E Department: Department Visionary Department Head: Frank Dituri Brown Bridge Trust Parks Imprc Council Priority: Essential (S Brown Bridge Trust Parks Imprc Council Priority: Essential (S Brown Bridge Trust Parks \$0 \$0 \$0 Federal / State Grant \$0 \$0 \$0 COST DETAIL: Study: Land Acquisition Engineering / Des Construction: Annual Maint. Co Maint. Year Start: attom:	ADA Accessible Watercraft Landing nation Grand Traverse Conservation E Visionary Department Head: Frank Dituri Brown Bridge Trust Parks Imprc Council Priority: Essential (Should Do) Brown Bridge Trust Parks Imprc Council Priority: Watercraft Landing es: Previous 2019/2020 2020/2021 2021/2022 Brown Bridge Trust Parks \$0 \$0 \$0 \$0 \$0 \$0 COST DETAIL: Study: \$0 Land Acquisition / ROW: \$0 Engineering / Design: \$25 Construction: \$75 Annual Maint. Cost: Maint. Year Start: * agement Contract w/GTCD ************************************	ADA Accessible Watercraft Landing mation Grand Traverse Conservation E Visionary Brown Bridge Trust Parks Impre Watercraft Landing Brown Bridge Trust Parks S0 S0 S0 S0 S0 S0 S0 S0 COST DETAIL: Study: S0 Engineering / Design: S25,000 Construction: Construction: S25,000 Construction: S25	ADA Accessible Watercraft Landing nation Staff Priority: Brown Bridge Trust Parks Impre Brown Bridge Trust Parks Impre Brown Bridge Trust Parks Impre Brown Bridge Trust Parks Staff Priority: Watercraft Landing Brown Bridge Trust Parks Staff Priority: Watercraft Landing Brown Bridge Trust Parks Staff Priority: Brown Bridge Trust Parks Staff Priority:	ADA Accessible Watercraft Landing ation Grand Traverse Conservation I popartment Head: Brown Bridge Trust Parks Impr: Brown Bridge Trust Parks Impr: Brown Bridge Trust Parks Mpr: Brown Bridge Trust Mpr: Brown Bridge Trust Parks Mpr: Brown Brown Brown Mpr: Brown Bridge Trus

Location Description:



B-19-CIP	Brown B	<u>ridge</u>							
50-19-CIP	ADA Trail Improvement	S							
Project Inform	nation								
Submitted By:	Dave Green		Department:	Department	of Public Service	es Project Descript	ion:		
Category:	Capital		Department Head:	Frank Dituri		Install crushed a	nd compacted lime	estone from Buck's Landing	to
Fund Group:	Brown Bridge Trust Parl	ks Impro	Staff Priority:	Important (C	Could Do)	new Bridge to im	prove handicap a	ccessibility.	
Fund Detail:	Brown Bridge Trust Parl	ks Impro	Council Priority:						
Crushed Limest	tone for New Bottomland Trail	- Cost			ł	350-19-CIP-C			
Funding Source	es:								
		Previou		2020/2021	2021/2022	2022/2023	2023/2024	2024/2025	Tota
BBTP	Brown Bridge Trust Parks	\$0	\$23,000	\$0	\$0	\$0	\$0	\$0	\$23,000
LFG	Local / Foundation Grant	\$0	\$23,000	\$0	\$0	\$0	\$0	\$0	\$23,000
								Project Total:	\$46,000
				COST DETAIL:					
				Study:	\$	0			
				Land Acquisition	/ ROW: \$	0			
				Engineering / Des	sign: \$	0			
				Construction:	\$	45,000		Cost Total:	\$45,000
				Annual Maint. Co	st: \$	1,000		Project Difference:	\$1,000
				Maint. Year Start:	1	905			
Service Impact Brown Bridge R		ct w/GTCD							
Brown Bridge R	Resource Management Contra	ct w/GTCD							

i i ojoot o dotiniouti

ADA Accessibility

Location Description:



B-19-CIP	Brown Br	ridge							
105-19-CIP	Boardman River Recrea	ation Plan							
Project Inform	nation								
Submitted By: Category: Fund Group: Fund Detail:	Grand Traverse Conser Visionary Brown Bridge Trust Parl Brown Bridge Trust Parl	Contraction Contra	partment: partment Head: ıff Priority: uncil Priority:	Department Frank Dituri Essential (S	of Public Services	Development of a	a recreation plan for	the Boardman River pos Bridge and the quiet are	
Boardman River	r Recreation Plan - Cost				11	105-19-CIP-C			
Funding Source	es:	Previous	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	2024/2025	
BBTP	Brown Bridge Trust Parks	\$0	\$5,000	\$0	\$0	\$0	\$0	\$0	
FSG	Federal / State Grant	\$0	\$20,000	\$0	\$0	\$0	\$0	\$0	
Р	Private	\$0	\$5,000	\$0	\$0	\$0	\$0	\$0	
								Project Total:	
				COST DETAIL:					
				Study:	\$3	0,000			
				Land Acquisition	/ ROW: \$0				
				Engineering / Des	s ign: \$0				
				Construction:	\$0			Cost Total:	
				Annual Maint. Co	st:			Project Difference:	
				Maint. Year Start:					
Service Impact:									
Resource Mana	gement Contract w/GTCD								
Project Justifica									
Resource Prote	ction								

Total \$5,000 \$20,000 \$5,000 \$30,000

\$30,000 \$0

Location Description:



<u>B-19-CIP</u>	Brown Br	idge							
9-19-CIP	Bucks Landing Renovat	ion							
Project Inform	ation								
Submitted By:	Dave Green	D	epartment:	Department	of Public Service	S Project Descript	ion:		
Category:	Maintenance	D	epartment Head:	Frank Dituri		Gravel and re-gra	ade existing parkin	g lot at Bucks Landing off B	Brown
Fund Group:	•		taff Priority:	Important (C	ould Do)	Bridge Road; Re	place fencing		
Fund Detail:	Brown Bridge Maintenan	ice Fur C	ouncil Priority:						
Bucks Landing F	Renovation - Cost				8	349-19-CIP-C			
Funding Source	95:	Previous	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	2024/2025	Tota
BBM	Brown Bridge Maintenance	\$0	\$15,000	\$0	\$0	\$0	\$0	\$0	\$15,00
bbiii	Fund	ΨΟ	ψ10,000	ψυ	ψΟ	ψυ	ψυ	ψΟ	φ10,00
								Project Total:	\$15,00
				COST DETAIL:					
				Study:	\$0)			
				Land Acquisition	/ ROW: \$0)			
				Engineering / Des	sign: \$C)			
				Construction:	\$1	15,000		Cost Total:	\$15,00
				Annual Maint. Co	st: \$5	500		Project Difference:	\$
				Maint. Year Start:	1	905			
Service Impact: Brown Bridge Re	esource Management Contrac	t w/GTCD							

Public Access maintenace

Location Description:



<u>3-19-CIP</u>	Brown Brid	dge							
07-19-CIP	Caretaker House Mainter	nance							
Project Inform	ation								
Submitted By:	Grand Traverse Conserva	ation E	Department:	Department	of Public Services	Project Descript	ion:		
Category:	Maintenance		Department Head:	Frank Dituri		Repair and stain	siding.		
Fund Group:	General		Staff Priority:	Imperitive (N	/lust Do)				
Fund Detail:	General Government		Council Priority:						
Caretaker House	e Maintenance - Cost				110)7-19-CIP-C			
Funding Sources	s:								
		Previou	s 2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	2024/2025	Tot
BBM	Brown Bridge Maintenance Fund	\$0	\$0	\$0	\$0	\$1,000	\$0	\$0	\$1,00
GEN	General Fund	\$0	\$15,000	\$0	\$0	\$0	\$0	\$0	\$15,00
								Project Total:	\$16,00
				COST DETAIL:					
				Study:	\$0				
				Land Acquisition	/ ROW : \$0				
				Engineering / Des	sign: \$0				
				Construction:	\$15,	,000		Cost Total:	\$15,00
				Annual Maint. Co	st: \$1,0	000		Project Difference:	\$1,00
				Maint. Year Start:	190	95			
Service Impact:									
Resource Manac	gement Contract w/GTCD								

Location Description:



B-19-CIP	Brown Bri	dge							
75-19-CIP	Fish & Wildlife Habitat In	nprovements	5						
Project Informa	ation								
Submitted By:	Grand Traverse Conserva	ation E De	partment:	Department	of Public Servi	ces Project Descrip	otion:		
Category:	Maintenance	De	partment Head:	Frank Dituri			•	planting to provide forage	•
Fund Group:	Brown Bridge Maintenand	ce Fur Sta	aff Priority:	Important (C	ould Do)	•	•	wildlife. Riparian Plantin	-
Fund Detail:	Brown Bridge Maintenand	ce Fur Co	ouncil Priority:			Grant funded 2		habitat benefits. \$15,0	00
Fish & Wildlife Ha	abitat Improvements					975-19-CIP-C			
Funding Sources	s:								
		Previous	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	2024/2025	
BBM	Brown Bridge Maintenance Fund	\$0	\$0	\$5,000	\$0	\$0	\$0	\$0	
BBTP	Brown Bridge Trust Parks	\$0	\$50,000	\$0	\$0	\$0	\$0	\$0	
FSG	Federal / State Grant	\$0	\$35,000	\$5,000	\$0	\$0	\$0	\$0	
								Project Total:	
				COST DETAIL:					
				Study:	:	\$0			
				Land Acquisition	/ ROW:	\$0			
				Engineering / Des	sign:	\$0			
				Construction:	:	\$100,000		Cost Total:	
				Annual Maint. Co	st:			Project Difference:	
				Maint. Year Start:					
Service Impact: Brown Bridge Re	source Management Contract	w/GTCD							

Total

\$5,000

\$50,000

\$40,000 **\$95,000**

\$100,000 \$-5,000

Project Justification:

Dam Removal

Location Description:



<u> 3-19-CIP</u>	Brown B	<u>ridge</u>									
1-19-CIP	Interpretive and Naviga	tional Signag	le								
Project Inform	ation										
Submitted By:	Dave Green	D	epartment:	Department	of Public Services	Project Descripti	Project Description:				
Category:	Capital	D	epartment Head:	Frank Dituri		Design and instal	Il interpretative and	navigational signage to			
Fund Group:	Brown Bridge Trust Par	ks Impro S	taff Priority:	Important (C	ould Do)	improve way-find	ing and education	opportunities on the trails.			
Fund Detail:	Brown Bridge Trust Parks Impro		ouncil Priority:								
Interpretive and	Navigational Signage - Cost				85	1-19-CIP-C					
Funding Source	es:	Previous	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	2024/2025	Tota		
BBTP	Brown Bridge Trust Parks	\$0	\$10,000	\$0	\$0 \$0	\$0	\$0	\$0	\$10,00		
FSG	Federal / State Grant	\$0	\$2,500	\$0	\$0	\$0 \$0	\$0	\$0	\$2,50		
Ρ	Private	\$0	\$2,500	\$0	\$0 \$0	\$0	\$0	\$0	\$2,50		
								Project Total:	\$15,00		
				COST DETAIL:				-			
				Study:	\$0						
				Land Acquisition	/ ROW: \$0						
				Engineering / Des	sign: \$0						
				Construction:	\$15	,000		Cost Total:	\$15,00		
				Annual Maint. Co	st:			Project Difference:	\$		
				Maint. Year Start:							
Service Impact:											
Brown Bridge Re	esource Management Contra	ct w/GTCD									

Location Description:



<u>BB-19-CIP</u>	Brown Brid	dge							
853-19-CIP	Invasive Species Treatme	ent							
Project Inform	ation								
Submitted By:	Grand Traverse Conserva	ation E	Department:	Department	of Public Servic	es Project Descript	ion:		
Category:	Maintenance		Department Head:	Frank Dituri			asive species that t	hreaten ecologic integrity c	of
Fund Group:	Brown Bridge Maintenand		Staff Priority:	Essential (S	hould Do)	Brown Bridge.			
Fund Detail:	Brown Bridge Maintenand	ce Fur	Council Priority:						
Invasive Species	s Treatment - Cost					853-19-CIP-C			
Funding Source	es:								
DDM (Previou		2020/2021	2021/2022	2022/2023	2023/2024	2024/2025	Total
BBM	Brown Bridge Maintenance Fund	\$0	\$5,000	\$0	\$5,000	\$0	\$0	\$0	\$10,000
								Project Total:	\$10,000
				COST DETAIL:					
				Study:	9	60			
				Land Acquisition	/ ROW: \$	60			
				Engineering / Des	sign: 🖇	60			
				Construction:	9	510,000		Cost Total:	\$10,000
				Annual Maint. Co	st:			Project Difference:	\$0
				Maint. Year Start:					
Service Impact:									
Brown Bridge R	esource Management Contract	w/GTCD							
Project Justifica	ation:								
Bottom lands ma	anagement								

Location Description:



<u>3-19-CIP</u>	Brown Br	<u>ridge</u>							
3-19-CIP	North Parking Lot Impro	ovements							
Project Inform	nation								
Submitted By:	Grand Traverse Conser	vation C D	Department:	Department	of Public Service	S Project Descript	ion:		
Category:	Maintenance	D	Department Head:	Frank Dituri		Gravel and re-gra	ade parking lots on I	Ranch Rudolf Road; Repla	ace
Fund Group:	Brown Bridge Trust Park	ks Impro S	Staff Priority:	Important (C	ould Do)	fencing.			
Fund Detail:	Brown Bridge Trust Park	ks Impro C	Council Priority:						
North Parking Lo	ot Improvements - Cost				8	63-19-CIP-C			
Funding Source	es:	Previous	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	2024/2025	Tota
BBTP	Brown Bridge Trust Parks	\$0	\$15,000	\$0	\$0	\$0	\$0	\$0	\$15,000
								Project Total:	\$15,00
				COST DETAIL:					
				Study:	\$0)			
				Land Acquisition	/ ROW: \$0)			
				Engineering / Des	sign: \$C)			
				Construction:	\$1	5,000		Cost Total:	\$15,00
				Annual Maint. Co	st:			Project Difference:	\$
				Maint. Year Start:					
Service Impact:									
Brown Bridge R	esource Management Contrac	ct w/GTCD							

Improved parking

Location Description:



-19-CIP	Brown Br	ridge							
6-19-CIP	Overlook (2) and Acces	s Steps (3 set	s)						
Project Inform	ation								
Submitted By:	Grand Traverse Conser	vation E De	partment:	Department	of Public Services	6 Project Descript	ion:		
Category:	Visionary	De	partment Head:	Frank Dituri		Provide viewing of	opportunities and riv	ver access points to the "new	
Fund Group:	Brown Bridge Trust Park	ks Impro Sta	aff Priority:	Important (C	ould Do)		limit stream bank e	erosion caused by recreationa	
Fund Detail:	Brown Bridge Trust Park	ks Impro Co	ouncil Priority:			foot traffic.			
Overlook (2) and	Access Steps (3 sets) - Cos	t			8	56-19-CIP-C			
Funding Source	s:								
BBTP	Drown Dridge Truct Darks	Previous	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	2024/2025	
FSG	Brown Bridge Trust Parks Federal / State Grant	\$0 \$0	\$0 \$0	\$22,500 \$11,250	\$0 ©0	\$0 \$0	\$0 \$0	\$0 ©	
P	Private	\$0 \$0	\$0 \$0	\$11,250 \$11,250	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	
1	Tivale	φU	φΟ	φ11,230	φυ	φυ	φU	·	
								Project Total:	
				COST DETAIL:	\$0				
				Study:					
				Land Acquisition Engineering / Des					
				Construction:	0	5,000		Cost Total:	
				Annual Maint. Co		0,000		Project Difference:	
				Maint. Year Start:				roject Binerence.	
Service Impact: Brown Bridge Re	esource Management Contra	rt w/GTCD							

Total \$22,500

\$11,250

\$11,250

\$45,000

\$45,000 \$0

Improve Recreation Access

Location Description:



B-19-CIP	Brown B	<u>ridge</u>							
5-19-CIP	Overlook and Historica	l Display at I	Former Powerho	1					
Project Inform	nation								
Submitted By:	Grand Traverse Conser	vation E	Department:	Department	of Public Services	Project Descript	on:		
Category:	Visionary	[Department Head:	Frank Dituri		Design and insta	I an overlook and	historic display featuring on	e of
Fund Group:	Brown Bridge Trust Par	ks Impro s	Staff Priority:	Essential (S	hould Do)		oved from the pow	erhouse during	
Fund Detail:	Brown Bridge Trust Par	ks Impro (Council Priority:			decommissioning	j or the dam.		
Overlook and Hi	istorical Display at Former - 0	Cost			85	5-19-CIP-C			
Funding Source	es:	Previous	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	2024/2025	Tota
BBTP	Brown Bridge Trust Parks	\$0	\$0	\$0	\$0	\$10,000	\$0	\$0	\$10,00
FSG	Federal / State Grant	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$5,000	\$0 \$0	\$0 \$0	\$10,00 \$5,00
P	Private	\$0	\$0	\$0 \$0	\$0 \$0	\$5,000	\$0 \$0	\$0	\$5,00
								Project Total:	\$20,00
				COST DETAIL:				-	
				Study:	\$0				
				Land Acquisition	/ ROW : \$0				
				Engineering / Des	sign: \$0				
				Construction:	\$20	0,000		Cost Total:	\$20,00
				Annual Maint. Co	st:			Project Difference:	\$
				Maint. Year Start:					
Service Impact:									
	esource Management Contra	ct w/GTCD							
Project Justifica									
Improved Recre	ation experience								

Location Description:



Six Year Capital Improvement Plan

All Projects Submitted for 2019-2020

Budget Year 2019-2020 by Program Name

	s projects occurring in the first FY of the plan . rojects with multiple funding											
Project ID		Cat	Previous	Fiscal Year 2019-2020	Fiscal Year 2020-2021	Fiscal Year 2021-2022	Fiscal Year 2022-2023	Fiscal Year 2023-2024	Fiscal Year 2024-2025	Project Cost	City Funds	Non-City Funds
Cemetery												
47-19-CIP	Install Cremation Niches in Mausoleum	V	\$0	\$0	\$0	\$0	\$22,000	\$0	\$0	\$22,000	\$22,000	\$0
48-19-CIP	Paving of Main Loop in First Addition	V	\$0	\$0	\$0	\$110,000	\$0	\$0	\$0	\$110,000	\$110,000	\$0
Total Cemete	ery		\$0	\$0	\$0	\$110,000	\$22,000	\$0	\$0	\$132,000	\$132,000	\$0



EMETERY-19-CI	P <u>Cemetery</u>									
7-19-CIP	Install Cremation Niches	in Mausoleu	m							
Project Inform	ation									
Submitted By:	Lauren Vaughn	De	partment:	Department	of Public Serv	ices	Project Descripti	ion:		
Category:	Visionary	De	partment Head:	Frank Dituri			This project woul	d allow additional	burial options for families and	b
Fund Group:	General	Sta	ff Priority:	Important (C	Could Do)				at is currently not being used	
Fund Detail:	Cemetery	Co	uncil Priority:				would also make revenue potential		ore attractive and provide mo	re
Install Cremation	Niches in Mausoleum - Cost					47-1	19-CIP-C			
Funding Source	s:									
		Previous	2019/2020	2020/2021	2021/202	2	2022/2023	2023/2024	2024/2025	Total
GEN	General Fund	\$0	\$0	\$0	\$0		\$22,000	\$0	\$0	\$22,000
									Project Total:	\$22,000
				COST DETAIL:						
				Study:		\$0				
				Land Acquisition	/ ROW:	\$0				
				Engineering / Des	sign:	\$0				
				Construction:		\$22,0	000		Cost Total:	\$22,000
				Annual Maint. Co	st:	\$300			Project Difference:	\$0
				Maint. Year Start:		1905	5			
Service Impact: Little to no maint	enance outside of that related t	o the sale and	subsequent use	e 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



EMETERY-19-CIF	<u>Cemetery</u>									
8-19-CIP	Paving of Main Loop in Fi	irst Addition								
Project Informa	ation									
Submitted By:	Lauren Vaughn	Dep	partment:	Department of	of Public Se	rvices	Project Descripti	on:		
Category:	Visionary	Dep	partment Head:	Frank Dituri			The roads in this	area are dusty gra	vel and often have rough a	areas.
Fund Group:	General	Sta	ff Priority:	Imperitive (M	ust Do)			• •	onnections to all main parts	
Fund Detail:	Cemetery	Cou	uncil Priority:					s would tie togethe	er the main cemetery road Fourth Addition.	
Paving of Main Lo	oop in First Addition - Cost					48-1	19-CIP-C			
Funding Sources	8:									
		Previous	2019/2020	2020/2021	2021/20	022	2022/2023	2023/2024	2024/2025	Total
GEN	General Fund	\$0	\$0	\$0	\$110,00	00	\$0	\$0	\$0	\$110,000
									Project Total:	\$110,000
				COST DETAIL:						
				Study:		\$0				
				Land Acquisition /	ROW:	\$0				
				Engineering / Desi	ign:	\$0				
				Construction:		\$110	,000		Cost Total:	\$110,000
				Annual Maint. Cos	st:	\$500	l		Project Difference:	\$0
				Maint. Year Start:		1905	5			
Service Impact:										
Future patching a	and longterm replacement will b	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 2019-2020

Budget Year 2019-2020 by Program Name

	s projects occurring in the first FY of the plan.											
Project ID	ojects with multiple funding	Cat	Previous	Fiscal Year 2019-2020	Fiscal Year 2020-2021	Fiscal Year 2021-2022	Fiscal Year 2022-2023	Fiscal Year 2023-2024	Fiscal Year 2024-2025	Project Cost	City Funds	Non-City Funds
Civic		out								COSI	Fuilds	Funds
+ 870-19-CIP	Civic Square	V	\$0	\$0	\$0	\$0	\$0	\$6,000,000	\$0	\$6,000,000	\$1,000,000	\$5,000,000
+ 781-19-CIP	Farmers Market	V	\$0	\$0	\$0	\$3,300,000	\$0	\$0	\$0	\$3,300,000	\$600,000	\$2,700,000
82-19-CIP	Lower Boardman River Universal Access	V	\$0	\$0	\$0	\$0	\$700,000	\$0	\$0	\$700,000	\$700,000	\$0
646-19-CIP	Redevelopment of Lot O	V	\$0	\$0	\$0	\$0	\$316,000	\$0	\$0	\$316,000	\$316,000	\$0
Total Civic			\$0	\$0	\$0	\$3,300,000	\$1,016,000	\$6,000,000	\$0	\$10,316,000	\$2,616,000	\$7,700,000



CIVIC-19-CIP	<u>Civic</u>											
870-19-CIP	Civic Square											
Project Inform	nation											
Submitted By:	Rob Baciagalupi	Dej	partment:	Downtown D	Development	Project Descript	Project Description:					
Category:	Visionary	Dej	partment Head:	Jean Derenzy		Public gathering	Public gathering space for Traverse Cityans and visitors					
Fund Group:	Fund Group: Tax Increment Financing		Staff Priority:		Important (Could Do)							
Fund Detail:	TIF 97	Co	uncil Priority:									
Civic Square (+	Private) - Cost					870-19-CIP-C						
Funding Source	es:											
		Previous	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	2024/2025	Total			
Р	Private	\$0	\$0	\$0	\$0	\$0	\$5,000,000	\$0	\$5,000,000			
TIF97	TIF 97	\$0	\$0	\$0	\$0	\$0	\$1,000,000	\$0	\$1,000,000			
								Project Total:	\$6,000,000			
				COST DETAIL:								
				Study:	\$	0						
				Land Acquisition	/ ROW: \$	1,000,000						
				Engineering / Des	sign: \$	0						
				Construction:	\$	5,000,000		Cost Total:	\$6,000,000			
				Annual Maint. Co	st:			Project Difference:	\$0			
				Maint. Year Start:		1905						

Service Impact:

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

Project Justification:

TIF 97

Location Description:

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



Six Year Capital Improvement Program

CIVIC-19-CIP	Civic											
781-19-CIP	Farmers Market											
Project Inform	nation											
Submitted By:	Rob Baciagalupi	Department:		Downtown Development			Project Description: Reconstruction of the Farmers Market Lot B with permanent structure, wider sidewalks, river enhancements, lighting, and					
Category:	Category: Visionary		Department Head:		Jean Derenzy							
Fund Group:Tax Increment FinancingFund Detail:TIF 97		Staff Priority: Council Priority:		Essential (Should Do)								
							reconstruction of parking lot. \$400,000 from Parking Fund.					
Farmers Marke	t - Cost					781	-19-CIP-C					
Funding Sources:												
		Previous	2019/2020	2020/2021	2021/20	22	2022/2023	2023/2024	2024/2025	Total		
Р	Private	\$0	\$0	\$0	\$2,700,0	000	\$0	\$0	\$0	\$2,700,000		
TIF97	TIF 97	\$0	\$0	\$0	\$600,00	00	\$0	\$0	\$0	\$600,000		
									Project Total:	\$3,300,000		
				COST DETAIL:								
				Study:		\$0						
				Land Acquisition	/ ROW:	\$0						
				Engineering / Des	sign:	\$300	0,000					
				Construction:		\$3,0	00,000		Cost Total:	\$3,300,000		
				Annual Maint. Co	st:	\$10,	000		Project Difference:	\$0		
				Maint. Year Start:		190	5					
Service Impact												

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-19-CIP	<u>Civic</u>											
82-19-CIP	Lower Boardman River U	niversal Acc	ess									
Project Inform	nation											
Submitted By:	Rob Baciagalupi	De	partment:	Downtown D	Development	Project Descript	ion:					
Category:	Visionary	De	partment Head:	Jean Derenzy		To beautify and enhance the river environment for recreationalist						
Fund Group:	Tax Increment Financing	Sta	Staff Priority:				and fisheries.					
Fund Detail:	TIF 97	Co	uncil Priority:									
Lower Boardma	n River Universal Access- Cost					82-19-CIP-C						
Funding Source	es:											
		Previous	2019/2020	2020/2021	2021/202	2 2022/2023	2023/2024	2024/2025	Total			
TIF97	TIF 97	\$0	\$0	\$0	\$0	\$700,000	\$0	\$0	\$700,000			
								Project Total:	\$700,000			
				COST DETAIL:								
				Study:		\$0						
				Land Acquisition	/ ROW:	\$0						
				Engineering / Des	sign:	\$0						
				Construction:		\$700,000		Cost Total:	\$700,000			
				Annual Maint. Co	st:			Project Difference:	\$0			
				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 and require additional services for snow removal

Project Justification:

Boardman River Enhancement

Location Description:

Lower Boardman River



<u> VIC-19-CIP</u>	<u>Civic</u>											
6-19-CIP	Redevelopment of Lot O											
Project Inform	ation											
Submitted By:	Jean Derenzy	Dej	partment:	Downtown D	Development	Project Descript	ion:					
Category:	Visionary	Department Head		I: Jean Derenzy		Private/public partnership for developing a mixed use development						
Fund Group:	Tax Increment Financing	Sta	ff Priority:	Essential (Should Do)								
Fund Detail:	TIF 97	Council Priority:										
Redevelopment	of Lot O - Cost				(646-19-CIP-C						
Funding Source	es:	Previous	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	2024/2025	Tota			
TIF97	TIF 97	\$0	\$0	\$0	\$0	\$316,000	\$0	\$0	\$316,000			
								Project Total:	\$316,000			
				COST DETAIL:								
				Study:	\$	0						
				Land Acquisition	/ ROW: \$	0						
				Engineering / Des	sign: \$	0						
				Construction:	\$	316,000		Cost Total:	\$316,000			
				Annual Maint. Co	st:			Project Difference:	\$0			
				Maint. Year Start:								
Service Impact:												
Domovio 25 onor	ce parking lot to build a mixed up	se developme	nt									

Better land use

Location Description:

NW Corner of State and Cass



Six Year Capital Improvement Plan

All Projects Submitted for 2019-2020

Budget Year 2019-2020 b	by Program Name
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Bold - Indicates projects occurring in the first FY of the plan.											
+ - Indicates projects with multiple funding											
Project ID	Cat	Previous	Fiscal Year 2019-2020	Fiscal Year 2020-2021	Fiscal Year 2021-2022	Fiscal Year 2022-2023	Fiscal Year 2023-2024	Fiscal Year 2024-2025	Project Cost	City Funds	Non-City Funds
Facilities											
1074-19-CIP Harbor Master Building Foundation Repair	М	\$0	\$0	\$0	\$300,000	\$0	\$0	\$0	\$300,000	\$300,000	\$0
+ 1114-19-CIP NOAA Culvert Replacement	М	\$39,100	\$1,263,200	\$866,300	\$0	\$0	\$0	\$0	\$2,168,600	\$358,000	\$1,810,600
+ 871-19-CIP Senior Center building renovation	V	\$0	\$4,000,000	\$0	\$0	\$0	\$0	\$0	\$4,000,000	\$3,750,000	\$250,000
+ 168-19-CIP Union Street Dam Improvements	V	\$0	\$1,000,000	\$9,000,000	\$9,000,000	\$0	\$0	\$0	\$19,000,000	\$0	\$19,000,000
172-19-CIP Union Street Dam: Outlet relining	М	\$0	\$0	\$400,000	\$0	\$0	\$0	\$0	\$400,000	\$400,000	\$0
Total Facilities		\$39,100	\$6,263,200	\$10,266,300	\$9,300,000	\$0	\$0	\$0	\$25,868,600	\$4,808,000	\$21,060,600



FACILITIES-19-CI	P <u>Facilities</u>											
1074-19-CIP	Harbor Master Building Fo	oundation R	Repair									
Project Inform	ation											
Submitted By:	Barry Smith	De	partment:	Department	of Public Service	s Project Descript	ion:					
Category:	Maintenance	De	partment Head:	lead: Frank Dituri Repa			Repairs to the Harbor Master Building foundation and the interior					
Fund Group:	•		aff Priority:	Imperitive (Must Do)			0.	ecommendations from the				
Fund Detail: Marina		Co	uncil Priority:			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 2018.						
Harbor Master B	uilding Foundation Repair				1	074-19-CIP-C						
Funding Source	s:											
		Previous	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	2024/2025	Total			
MAR	Marina Fund	\$0	\$0	\$0	\$300,000	\$0	\$0	\$0	\$300,000			
								Project Total:	\$300,000			
				COST DETAIL:								
				Study:	\$C)						
				Land Acquisition	/ ROW: \$0)						
				Engineering / Des	sign: \$C)						
				Construction:	\$3	800,000		Cost Total:	\$300,000			
				Annual Maint. Cos	st:			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-19-CIP

Facilities

NOAA Culvert Replacement 1114-19-CIP

Project Information

Submitted By: Category: Fund Group: Fund Detail:	Tim Lodge Maintenance General Facilities	Department: Department Head: Staff Priority: Council Priority:	Engineering Tim Lodge Essential (Should Do)	 Project Description: Ongoing restoration work in Kids Creek by improving in-stream habitat on a 3,000-foot section of the creek on City property south of Silver Lake Road. Restoration includes riparian buffer plantings along the creek, large wood placement at key locations, and the placement of toe wood on outside of stream meanders for habitat purposes. The project will improve a total of 4 priority road crossings in the City of Traverse City along Kids Creek that are having a negative hydrological effect on the stream by removing undersized culverts and replacing them with open bottom bridge structures. City Engineering will lead design and construction efforts for the road crossing improvements and will provide engineering services and construction oversight as project match at an estimated amount to be \$166,500 over a period of 4 years. Construction is slated for the first two crossings in 2021.
NOAA Culvert Rep	placement-C		11	14-19-CIP-C

Funding Sources:

Funding Source	es:								
		Previous	2019/2020	2020/2021	2021/202	2 2022/2023	2023/2024	2024/2025	Total
FSG	Federal / State Grant	\$0	\$822,000	\$822,000	\$0	\$0	\$0	\$0	\$1,644,000
IN	Inkind	\$39,100	\$83,200	\$44,300	\$0	\$0	\$0	\$0	\$166,600
S	Sewer Fund	\$0	\$162,000	\$0	\$0	\$0	\$0	\$0	\$162,000
WAT	Water Fund	\$0	\$196,000	\$0	\$0	\$0	\$0	\$0	\$196,000
								Project Total:	\$2,168,600
				COST DETAIL:					
				Study:		\$0			
				Land Acquisition /	ROW:	\$0			
				Engineering / Desi	gn:	\$166,600			
				Construction:		\$2,002,000		Cost Total:	\$2,168,600
				Annual Maint. Cos	t:			Project Difference:	\$0
				Maint. Year Start:					

Service Impact:

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

Project Justification:



FACILITIES-19-CIP

Facilities

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

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-19-CIP

Facilities

871-19-CIP Senior Center building renovation

Project Information

	Time Landau												
Submitted By:	Tim Lodge	De	partment:	Engineering		Project Descript	ject Description:						
Category:	Visionary	De	partment Head:	Tim Lodge		0	Building Renovation- The Grand Traverse County Senior Center						
Fund Group:	Senior Center Fund	Sta	aff Priority:	Important (C	Could Do)	Network is presently housed at the city owned building at 801 E.							
Fund Detail:	Senior Center	Co	uncil Priority:				Front Street in Traverse City. For some years it has been apparent that the facility is inadequate to meet the numerous uses and needs						
						•	•	s presently managed by t					
							County Commissio						
						The Senior Center	er Fund has \$423,0	000 in savings originally					
								toward a new building ar					
							-	eed to release the funds t ing footprint is 5,760 squa					
						-	-	g would be demolished a					
								similar footprint. The build					
						-		efficiency in mind. Howeve					
								community for many years					
								will be entertained during					
						no larger than 12	-	n for the larger footprint v					
Senior Center bu	uilding renovation (+Privat - Co	st				871-19-CIP-C	,000 0quare reet.						
Funding Source	es:												
		Previous	2019/2020	2020/2021	2021/202	22 2022/2023	2023/2024	2024/2025	Total				
LFG	Local / Foundation Grant	\$0	\$250,000	\$0	\$0	\$0	\$0	\$0	\$250,000				
Р	Private	\$0	\$3,327,000	\$0	\$0	\$0	\$0	\$0	\$3,327,000				
SCB	Senior Center Building Fund	\$0	\$423,000	\$0	\$0	\$0	\$0	\$0	\$423,000				
								Project Total:	\$4,000,000				
				COST DETAIL:									
				Study:		\$0							
				Land Acquisition	/ ROW:	\$0							
				Engineering / Des	sign:	\$320,000							
				Construction:		\$3,680,000		Cost Total:	\$4,000,000				
				Annual Maint. Co				Project Difference:	\$0				
				Maint. Year Start:									
Service Impact:													

Service Impact:



ACILITIES-19-CIP	Facilities
None.	
Project Justification:	
Building upgrade.	
Location Description:	
801 E. Front Street	



ACILITIES-19-CIF	P Facilities											
58-19-CIP	Union Street Dam Improve	ements										
Project Informa	ation											
Submitted By:	Tim Lodge	De	partment:	Engineering			Project Descripti	on:				
Category:	Visionary	De	partment Head:	Frank Dituri			•	•	directional movement of			
Fund Group:	General	Sta	aff Priority:	Essential (Shou	d Do)			-	or blocking invasive fish			
Fund Detail:	Facilities	Staff Priority: Council Priority:					the Boardman River, Michigan. As part of the ongoing Boardma River Restoration Project, the Union Street Dam will be remove and replaced with a new and improved barrier. Below the barrie facility with multiple sorting channels and nature-like channel w 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 building with an office, fabrication room and public bathrooms is planned in the vicinity where a small cement block building curr exists. There are plans for connecting walks to adjacent parks a properties along with other features shown in the attached repor Approved by the Planning Commission for consistency with Ma Plan on 1/3/17.					
Funding Sources	•					100-	19-CIF-C					
Funding Sources	5.	Previous	2019/2020	2020/2021	2021/20	22	2022/2023	2023/2024	2024/2025			
FSG	Federal / State Grant	\$0	\$0	\$9,000,000	\$9,000,	000	\$0	\$0	\$0	\$18,		
Р	Private	\$0	\$1,000,000	\$0	\$0		\$0	\$0	\$0	\$1,		
									Project Total:	\$19		
				COST DETAIL:								
				Study:		\$0						
				Land Acquisition / RO	OW:	\$0						
				Engineering / Design	:	\$0						
				0		\$19,0	00.000					
				Construction:		ψ10,0	00,000		Cost Total:	\$19,		
				Construction: Annual Maint. Cost:		ψ10,0	00,000	l	Cost Total: Project Difference:	\$19,		

Total

\$18,000,000 \$1,000,000

\$19,000,000

\$19,000,000

\$0

Project Justification:

Boardman River Enhancement

Location Description:



FACILITIES-19-CIP

Facilities

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.



ACILITIES-19-CIP	<u>Facilities</u>								
72-19-CIP	Union Street Dam: Outlet	relining							
Project Informa	ation								
Submitted By:	Tim Lodge	De	partment:	Engineering		Project Descript	ion:		
Category:	Maintenance	De	partment Head:	Frank Dituri		The 10 corrugate	ed metal pipes that o	create the principal spillwa	ау
Fund Group:	General	Sta	aff Priority:	Essential (Sh	nould Do)	need to be reline	d. Sliplining will be t	the preferred method. Wh	
Fund Detail:	Facilities	Co	uncil Priority:					nds on the efforts of the	
								am. This project will be ccessful. The DEQ to insp	pect
						this facility this ye	• • •		
Union Street Dam	n: Outlet relining - Cost					172-19-CIP-C			
Funding Sources	s:								
	Our and Final	Previous	2019/2020	2020/2021	2021/2022		2023/2024	2024/2025	Tota
GEN	General Fund	\$0	\$0	\$400,000	\$0	\$0	\$0	\$0	\$400,000
								Project Total:	\$400,000
				COST DETAIL:					
				Study:	:	\$0			
				Land Acquisition /	ROW:	\$0			
				Engineering / Desi	ign:	\$0			
				Construction:	:	\$400,000		Cost Total:	\$400,000
				Annual Maint. Cos	st:	\$2,500		Project Difference:	\$0
				Maint. Year Start:					
Service Impact:									
None.									
Project Justificat	tion:								
Maintenance									
Location Descrip									
OOF C. Liniam Char	1								

235 S. Union Street



Six Year Capital Improvement Plan

All Projects Submitted for 2019-2020

Budget Year 2019-2020 b	oy Program Name
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	s projects occurring in the first FY of the plan . ojects with multiple funding											
Project ID		Cat	Previous	Fiscal Year 2019-2020	Fiscal Year 2020-2021	Fiscal Year 2021-2022	Fiscal Year 2022-2023	Fiscal Year 2023-2024	Fiscal Year 2024-2025	Project Cost	City Funds	Non-City Funds
Fire												
977-19-CIP	Fire detection and suppression system installatio	М	\$0	\$0	\$131,250	\$89,250	\$0	\$0	\$0	\$220,500	\$220,500	\$0
976-19-CIP	Storage building at Fire Station 02	М	\$0	\$157,000	\$0	\$0	\$0	\$0	\$0	\$157,000	\$157,000	\$0
Total Fire			\$0	\$157,000	\$131,250	\$89,250	\$0	\$0	\$0	\$377,500	\$377,500	\$0



<u>CFD-19-CIP</u>	<u>Fire</u>										
77-19-CIP	Fire detection and su	opression syster	n installatio								
Project Informa	ation										
Submitted By:	Jim Tuller	Dep	artment:	Fire		Project Descript	ion:				
Category:	Maintenance	Dep	artment Head:	Jim Tuller		Both City fire sta	tions currently have	e no fire detection or fire			
Fund Group:	General	Stat	ff Priority:	Imperitive (N	lust Do)		•	rn occupants of a fire, or to	D		
Fund Detail:	Fire	council r nonky.					suppress a fire that breaks out. Both Stations house City Fire personnel 24/7 and hundreds of thousands of dollars of emergency equipment				
Fire detection an	d suppression system inst	- Cost				977-19-CIP-C					
Funding Source	5:										
		Previous	2019/2020	2020/2021	2021/2022		2023/2024	2024/2025	Tot		
GEN	General Fund	\$0	\$0	\$131,250	\$89,250	\$0	\$0	\$0	\$220,50		
								Project Total:	\$220,50		
				COST DETAIL:							
			:	Study:		\$0					
				Land Acquisition	/ ROW:	\$0					
				Engineering / Des	ign:	\$0					
				Construction:		\$220,500		Cost Total:	\$220,50		
				Annual Maint. Co	st:			Project Difference:	\$		
				Maint. Year Start:							
Service Impact:											

Location Description:

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



CFD-19-CIP	<u>Fire</u>									
6-19-CIP	Storage building at Fire	Station 02								
Project Inform	nation									
Submitted By:	Jim Tuller	Dep	partment:	Fire		Pr	oject Descripti	on:		
Category:	Maintenance	Dep	partment Head:	Jim Tuller		Ar	n estimated cos	t for a cold storage	e building to be constructed	l on
Fund Group:	General	Sta	ff Priority:	Imperitive (N	/lust Do)				bandoned cemetery equip	ment
Fund Detail:	Fire	Cou	uncil Priority:			sto	orage shet. 30'>	(40' building with 1	2' sidewalls.	
Storage building	g at Fire Station 02 - Cost					976-19-	CIP-C			
Funding Sourc	es:									
		Previous	2019/2020	2020/2021	2021/20		2022/2023	2023/2024	2024/2025	Tot
GEN	General Fund	\$0	\$157,000	\$0	\$0		\$0	\$0	\$0	\$157,00
									Project Total:	\$157,00
				COST DETAIL:						
				Study:		\$0				
				Land Acquisition	/ ROW:	\$0				
				Engineering / Des	sign:	\$0				
				Construction:		\$151,200)		Cost Total:	\$151,20
				Annual Maint. Co	st:				Project Difference:	\$5,80
				Maint. Year Start:						
Service Impact	:									
None.										

Proper storage and security of specialized response resources.

Location Description:

Traverse City Fire Department Station 2, 1313 E. 8th Street



Six Year Capital Improvement Plan

All Projects Submitted for 2019-2020

Budget Year 2019-2020 by Program Name

	s projects occurring in the first FY of the plan . ojects with multiple funding											
Project ID		Cat	Previous	Fiscal Year 2019-2020	Fiscal Year 2020-2021	Fiscal Year 2021-2022	Fiscal Year 2022-2023	Fiscal Year 2023-2024	Fiscal Year 2024-2025	Project Cost	City Funds	Non-City Funds
Garage												
126-19-CIP	Annual Vehicle and Equipment Replacement	С	\$0	\$2,044,300	\$1,307,000	\$1,359,800	\$1,294,976	\$2,637,300	\$2,210,926	\$10,854,302	\$10,854,302	\$0
Total Garage			\$0	\$2,044,300	\$1,307,000	\$1,359,800	\$1,294,976	\$2,637,300	\$2,210,926	\$10,854,302	\$10,854,302	\$0



ARAGE-19-CIP	Garage								
26-19-CIP	Annual Vehicle and Equi	ipment Replac	cement						
Project Inform	ation								
Submitted By:	Dave Courtad	Dep	partment:	Department of	Public Services	Project Descripti	on:		
Category:	Capital	Dep	partment Head:	Frank Dituri		The garage annu	ally purchases new	v equipment, vehicles, ar	nd
Fund Group:	Garage	Sta	ff Priority:	Imperitive (Mus	st Do)		•	s. These items to be repl	
Fund Detail:	Garage	Соц	uncil Priority:					est effectiveness of owner whicles and equipment	ship.
Annual Vehicle a	and Equipment Replacement -	Cost			126	-19-CIP-C			
Funding Source	s:								
		Previous	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	2024/2025	Total
GAR	Garage Fund	\$0	\$2,044,300	\$1,307,000	\$1,359,800	\$1,294,976	\$2,637,300	\$2,210,926	\$10,854,302
								Project Total:	\$10,854,302
				COST DETAIL:					
				Study:	\$0				
				Land Acquisition / F	ROW: \$0				
				Engineering / Desig	n: \$0				
				Construction:	\$0			Cost Total:	\$0
				Annual Maint. Cost:				Project Difference:	\$10,854,302
				Maint. Year Start:					
Service Impact: continued ability	to carryout current level of ser	rvice							
Project Justifica	ition:								
work force equip	ment needs								

Location Description:

City-wide



Six Year Capital Improvement Plan

Budget Year 2019-2020 by Program Name

All Projects Submitted for 2019-2020

Bold - Indicates	s projects occurring in the first FY of the plan.											
	ojects with multiple funding											
Project ID		Cat	Previous	Fiscal Year 2019-2020	Fiscal Year 2020-2021	Fiscal Year 2021-2022	Fiscal Year 2022-2023	Fiscal Year 2023-2024	Fiscal Year 2024-2025	Project Cost	City Funds	Non-City Funds
General Gov	vernment											
784-19-CIP	Annual City Computers	М	\$30,000	\$30,000	\$30,000	\$30,000	\$30,000	\$30,000	\$0	\$180,000	\$180,000	\$0
4-19-CIP	City Document Management System	V	\$0	\$0	\$25,000	\$25,000	\$25,000	\$0	\$0	\$75,000	\$75,000	\$0
1100-19-CIP	Install CHP Engine - Carnegie Building	С	\$0	\$0	\$12,000	\$12,000	\$12,000	\$12,000	\$0	\$48,000	\$48,000	\$0
1095-19-CIP	Install CHP Engine - Opera House	С	\$0	\$0	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	\$50,000	\$50,000	\$0
1098-19-CIP	Lighting Retrofit - Incandescents - Opera House	М	\$0	\$18,000	\$0	\$0	\$0	\$0	\$0	\$18,000	\$18,000	\$0
1102-19-CIP	Lighting Retrofit - T-8 fixtures - Carnegie Bldg	М	\$0	\$16,500	\$0	\$0	\$0	\$0	\$0	\$16,500	\$16,500	\$0
1099-19-CIP	Lighting Retrofit - T-8 fixtures - Opera House	М	\$0	\$17,500	\$0	\$0	\$0	\$0	\$0	\$17,500	\$17,500	\$0
1029-19-CIP	Master Plan Vision and Re-Write_PlanningCommission	V	\$0	\$20,000	\$0	\$80,000	\$0	\$0	\$0	\$100,000	\$100,000	\$0
1111-19-CIP	Network Upgrade & Redesign - City Portion	М	\$0	\$27,600	\$27,600	\$27,600	\$27,600	\$27,600	\$0	\$138,000	\$138,000	\$0
1104-19-CIP	New Utility Billing Software	М	\$0	\$0	\$116,000	\$0	\$0	\$0	\$0	\$116,000	\$116,000	\$0
1112-19-CIP	Purchase & Install Backup Generator - Opera House	С	\$0	\$0	\$30,000	\$25,000	\$0	\$0	\$0	\$55,000	\$55,000	\$0
1103-19-CIP	Replace Boiler - Carnegie Building	М	\$0	\$0	\$12,000	\$0	\$0	\$0	\$0	\$12,000	\$12,000	\$0
1097-19-CIP	Replace Boiler - Opera House	М	\$0	\$12,000	\$0	\$0	\$0	\$0	\$0	\$12,000	\$12,000	\$0
1101-19-CIP	Replace Chiller Unit - Carnegie Building	М	\$0	\$0	\$36,500	\$0	\$0	\$0	\$0	\$36,500	\$36,500	\$0
1096-19-CIP	Replace Packaged A/C Rooftop Units - Opera House	М	\$0	\$0	\$15,000	\$20,000	\$0	\$0	\$0	\$35,000	\$35,000	\$0
Fotal General	Government		\$30,000	\$141,600	\$314,100	\$229,600	\$104,600	\$79,600	\$10,000	\$909,500	\$909,500	\$0



GEN GOVT-19-CI	P <u>General Go</u>	overnment							
′84-19-CIP	Annual City Computers								
Proiect Inform	nation								
Submitted By:	Penny Hill	Dej	partment:	Manager		Project Descripti	on:		
Category:	Maintenance	Dej	partment Head:	Marty Colburn		Replacement of g	general computer h	nardware and software	
Fund Group:	General	Sta	ff Priority:	Essential (Should	d Do)				
Fund Detail:	General Government	Co	uncil Priority:						
Annual City Cor	nputers - Cost				784	4-19-CIP-C			
Funding Source	es:	Previous	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	2024/2025	Total
GEN	General Fund	\$30,000	\$30,000		\$30,000	\$30,000	\$30,000	\$0	\$180,000
		<i>400</i> ,000	<i>400</i> ,000	<i>400,000</i>	400,000	400,000	<i>400,000</i>	·	\$180,000
				COST DETAIL:				Project Total:	\$100,000
				Study:	\$0				
				Land Acquisition / RO					
				Engineering / Design:					
				Construction:	\$0			Cost Total:	\$0
				Annual Maint. Cost:		,000		Project Difference:	\$180,000
				Maint. Year Start:					
Service Impact:									
Provides efficier	ncies in operations City-wide								
Project Justifica	ation:								
Cycles out obso	lete or non-functioning equipme	ent							

Location Description:

City Wide



EN GOVT-19-CIP	<u>General G</u>	overnment								
I9-CIP	City Document Manager	nent System								
Project Informa	ation									
Submitted By:		Dej	partment:	Department	of Public Servi	ces	Project Descripti	on:		
Category:	Visionary	Dej	partment Head:	Frank Dituri			Document Imagir	ng various City red	cords. Starting with the	
Fund Group:	General	Sta	ff Priority:	Essential (Sh	nould Do)			-	es, journal entries, financial	
Fund Detail:	General Government	Co	uncil Priority:						inancial transactions. These ble by anyone with inquiry ac	
City Document N	lanagement System - Cost					4-19-0	CIP-C			
Funding Sources	s:									
		Previous	2019/2020	2020/2021	2021/2022	2	2022/2023	2023/2024	2024/2025	Total
GEN	General Fund	\$0	\$0	\$25,000	\$25,000		\$25,000	\$0	\$0	\$75,000
									Project Total:	\$75,000
				COST DETAIL:						
				Study:		\$0				
				Land Acquisition	ROW:	\$0				
				Engineering / Des	ign:	\$0				
				Construction:		\$0			Cost Total:	\$0
				Annual Maint. Cos	st:	\$9,400)		Project Difference:	\$75,000
				Maint. Year Start:						
Service Impact:										

Project Justification:

Location Description:



EN GOVT-19-CIP	General G	overnment								
100-19-CIP	Install CHP Engine - Car	negie Buildin	g							
Project Informa	ation									
Submitted By:	Penny Hill	De	partment:	Manager			Project Descripti	on:		
Category:	Capital	De	partment Head:	Marty Colbu	rn		Per the 2018 Ene	ergy Assessment the	rough Michigan Energy Op	ptions
Fund Group:	General	Sta	ff Priority:	Important (C	ould Do)		,		a Combined Heat and Po	wer
Fund Detail:	General Government	Co	uncil Priority:				engines to genera	ate electricity. The	stalled, which utilizes gas engines will also produce a used to help heat the bui	•
Install CHP Engir	ne - Carnegie Bldg					1100	-19-CIP-C	0	·	
Funding Sources	s:									
		Previous	2019/2020	2020/2021	2021/202	22	2022/2023	2023/2024	2024/2025	Total
GEN	General Fund	\$0	\$0	\$12,000	\$12,000		\$12,000	\$12,000	\$0	\$48,000
									Project Total:	\$48,000
				COST DETAIL:						
				Study:		\$0				
				Land Acquisition	/ ROW:	\$0				
				Engineering / Des	ign:	\$0				
				Construction:		\$48,0	00		Cost Total:	\$48,000
				Annual Maint. Cos	st:				Project Difference:	\$0
				Maint. Year Start:		1905				
Service Impact: Reduce Energy C	Consumption									

Project Justification:

The recommended measure should provide an annual natural gas savings of -4,138ccf and an annual electricity savings of 50,996kWh. The recommended measure will provide a total annual cost savings of \$3,917. Using the estimated initial investment of \$48,000, the project will have a simple payback of 12.25 years, and a Savings to Investment ratio (SIR) of 1.214.

Location Description:

322 Sixth Street



SEN GOVT-19-CII	<u>P</u> <u>Genera</u>	l Government								
095-19-CIP	Install CHP Engine - C	Opera House								
Project Inform	ation									
Submitted By:	Penny Hill	Dep	partment:	Manager			Project Descripti	on:		
Category:	Capital	Dep	partment Head:	Marty Colbur	'n		Per the 2018 Ene	rgy Assessment th	nrough Michigan Energy Op	otions
Fund Group:	Opera House	Sta	ff Priority:	Important (Co	ould Do)		,		t a Combined Heat and Po	wer
Fund Detail:	Opera House	Coi	uncil Priority:				engines to genera	ate electricity. The	stalled, which utilizes gas engines will also produce e used to help heat the bui	•
Install CHP Engi	ine - Opera House					109	05-19-CIP-C	usi gas that can b	e used to help heat the bui	iuing.
Funding Source	S:									
		Previous	2019/2020	2020/2021	2021/20	22	2022/2023	2023/2024	2024/2025	Total
OPH	Opera House	\$0	\$0	\$10,000	\$10,000)	\$10,000	\$10,000	\$10,000	\$50,000
									Project Total:	\$50,000
				COST DETAIL:						
				Study:		\$0				
				Land Acquisition	ROW:	\$0				
				Engineering / Des	ign:	\$0				
				Construction:		\$50,	000		Cost Total:	\$50,000
				Annual Maint. Cos	st:				Project Difference:	\$0
				Maint. Year Start:		190	5			
Service Impact:										
Reduces Energy	/ Consumption									

Project Justification:

The recommended measure should provide an annual natural gas savings of -4,138ccf and an annual electricity savings of 50,996kWh. The recommended measure will provide a total annual cost savings of \$2,650.91 Using the estimated initial investment of \$48,000, the project will have a simple payback of 18.107 years, and a Savings to Investment ratio (SIR) of .822

Location Description:

106 E. Front Street



SEN GOVT-19-CIP	<u>General Go</u>	vernment								
098-19-CIP	Lighting Retrofit - Incande	escents - Op	era House							
Project Informa	tion									
Submitted By:	Penny Hill	Dep	partment:	Manager			Project Descripti	on:		
Category:	Maintenance	Dep	partment Head:	Marty Colbu	rn		Per the 2018 Ene	ergy Assessment t	hrough Michigan Energy Op	tions
Fund Group:	Opera House	Sta	ff Priority:	Imperitive (N	/lust Do)				at the incandescent lights be	
Fund Detail:	Opera House	Со	uncil Priority:	Imperitive (N	/lust Do)			D and TLED lights its is lost in the for	. 80% of energy consumed m of heat.	Бу
Lighting Retrofit -	Incandescent - Opera House					109	98-19-CIP-C			
Funding Sources	:									
		Previous	2019/2020	2020/2021	2021/20)22	2022/2023	2023/2024	2024/2025	Tota
TIF97	TIF 97	\$0	\$18,000	\$0	\$0		\$0	\$0	\$0	\$18,00
									Project Total:	\$18,00
				COST DETAIL:						
				Study:		\$0				
				Land Acquisition	/ ROW:	\$0				
				Engineering / Des	sign:	\$0				
				Construction:		\$18,	000		Cost Total:	\$18,00
				Annual Maint. Co	st:				Project Difference:	\$
				Maint. Year Start:		190	5			
Service Impact:										
Reduces energy of	consumption									

Project Justification:

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

Location Description:

106 E Front Street



EN GOVT-19-CIP	<u>General G</u>	overnment								
102-19-CIP	Lighting Retrofit - T-8 fixt	tures - Carne	gie Bldg							
Project Informa	ition									
Submitted By:	Penny Hill	Dep	partment:	Manager			Project Descripti	on:		
Category:	Maintenance	Dep	partment Head:	Marty Colbu	rn		Per the 2018 Ene	rgy Assessment th	rough Michigan Energy Op	otions
Fund Group:	General	Sta	ff Priority:	Imperitive (N	/lust Do)				t the current T-8 lights be	
Fund Detail:	General Government	Cou	uncil Priority:	Essential (S	hould Do)		retroffited with TL	ED Fixtures.		
Lighting Retrofit -	T-8 fixtures - Carnegie Bldg					110	2-19-CIP-C			
Funding Sources	:									
		Previous	2019/2020	2020/2021	2021/20	022	2022/2023	2023/2024	2024/2025	Tota
GEN	General Fund	\$0	\$16,500	\$0	\$0		\$0	\$0	\$0	\$16,500
									Project Total:	\$16,500
				COST DETAIL:						
				Study:		\$0				
				Land Acquisition	/ ROW:	\$0				
				Engineering / Des	sign:	\$0				
				Construction:		\$19,	500		Cost Total:	\$19,500
				Annual Maint. Co	st:				Project Difference:	\$-3,000
				Maint. Year Start:		190	5			
Service Impact: Reduces Energy (Consumption									

Project Justification:

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

Location Description:

322 Sixth Street



EN GOVT-19-CIP	Gene	ral Government							
099-19-CIP	Lighting Retrofit - T	-8 fixtures - Opera	House						
Project Informa	ation								
Submitted By:	Penny Hill	Dep	partment:	Manager		Project Descrip	tion:		
Category:	Maintenance	•	oartment Head:	Marty Colbu			0,	rough Michigan Energy Op all T-8 fluorescent lights la	
Fund Group: Fund Detail:	Opera House Opera House		ff Priority: Incil Priority:	Imperitive (N Imperitive (N	,		LED Lamps and TL	0	imps
Lighting Retrofit -	- T-8 fixtures - Opera Ho	use				1099-19-CIP-C			
Funding Sources	s:	Previous	2019/2020	2020/2021	2021/202	2 2022/2023	2023/2024	2024/2025	Total
TIF97	TIF 97	\$0	\$17,500	\$0	\$0	\$0	\$0	\$0	\$17,500
								Project Total:	\$17,500
				COST DETAIL:					
				Study:		\$0			
				Land Acquisition	/ ROW:	\$0			
				Engineering / Des	sign:	\$0			
				Construction:		\$17,500		Cost Total:	\$17,500
				Annual Maint. Co	st:			Project Difference:	\$0
				Maint. Year Start:		1905			
Service Impact: Reduce Energy of	consumption								

Project Justification:

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

Location Description:

106 E Front St



EN GOVT-19-CIP	General G	<u>iovernment</u>								
29-19-CIP	Master Plan Vision and	Re-Write_Plan	ningCommiss	ion						
Project Informa	ation									
Submitted By:	Missy Luick	Dep	partment:	Planning and	d Zoning		Project Descripti	on:		
Category:	Visionary	Dep	artment Head:	Russ Soyrin	g		Master Plan Revi	ew Committee re	commended that the Planni	ing
Fund Group:	General	Sta	ff Priority:	Imperitive (N	/ust Do)				IP for an eventual Master P	Plan
Fund Detail:	General Government	Cou	Incil Priority:				engagement/visio	on process that co	ed included a community ould be followed by a Maste result in that outcome.	r Plan
Master Plan Visio	n and Re-Write_PlanningCor	nmission				102	29-19-CIP-C		esuit in that outcome.	
Funding Sources	:									
		Previous	2019/2020	2020/2021	2021/20	22	2022/2023	2023/2024	2024/2025	Total
GEN	General Fund	\$0	\$20,000	\$0	\$80,000)	\$0	\$0	\$0	\$100,000
									Project Total:	\$100,000
				COST DETAIL:						
				Study:		\$100	0,000			
				Land Acquisition	/ ROW:	\$0				
				Engineering / Des	sign:	\$0				
				Construction:		\$0			Cost Total:	\$100,000
				Annual Maint. Co	st:				Project Difference:	\$0
				Maint. Year Start:						
Service Impact: None.										

To make sure the Master Plan reflects the communities values

Location Description:

City-wide



11-19-CIP	Network Upgrade & Red	esign - City P	ortion						
Project Inform	nation								
Submitted By:	Penny Hill	Dep	partment:	Manager		Project Descripti	on:		
Category:	Maintenance	Dep	partment Head:	Marty Colburn		City portion of Cit	y/County Network	upgrade & redesign includ	ing
Fund Group:	General	Sta	ff Priority:	Imperitive (Mus	st Do)		tribution, Network A	Access Controls, and cabli	ng
Fund Detail:	General Government	Cou	uncil Priority:			upgrades			
Network Upgrad	de & Redesign - City Portion				11	111-19-CIP-C			
Funding Sourc	es:								
		Previous	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	2024/2025	Total
GEN	General Fund	\$0	\$27,600	\$27,600	\$27,600	\$27,600	\$27,600	\$0	\$138,000
								Project Total:	\$138,000
				COST DETAIL:					
				Study:	\$0				
				Land Acquisition / R	XOW: \$0				
				Engineering / Design	n: \$0				
				Construction:	\$1	38,000		Cost Total:	\$138,000
				Annual Maint. Cost:				Project Difference:	\$0
				Maint. Year Start:					
Service Impact	:								
Improve efficier	ncy in operations due to increas	ed internet spee	ed and capacity.	Improve security and	l reliability.				

Included in Grand Traverse County IT Strategic Plan

Location Description:

400 Boardman Avenue



EN GOVT-19-CI	P <u>General G</u>	Government								
104-19-CIP	New Utility Billing Softw	vare								
Project Inform	nation									
Submitted By:	Penny Hill	De	partment:	Manager			Project Descripti	on:		
Category:	Maintenance	De	partment Head:	Marty Colbur	rn		Replace existing	HTE-Sungard-Sup	perion software with BS&A	
Fund Group:	General	Sta	aff Priority:	Essential (Sh	hould Do)			•	utilizes the IBM iSeries (AS	,
Fund Detail:	General Government	Co	uncil Priority:				•	-	e City and Grand Traverse based on the AS-400 platfo	•
New Utility Billin	ng Software					110	4-19-CIP-C			
Funding Source	es:	Previous	2019/2020	2020/2021	2021/202	22	2022/2023	2023/2024	2024/2025	Total
S	Sewer Fund	\$0	\$0	\$58,000	\$0		\$0	\$0	\$0	\$58,000
WAT	Water Fund	\$0	\$0	\$58,000	\$0		\$0	\$0	\$0	\$58,000
									Project Total:	\$116,000
				COST DETAIL:						
				Study:		\$0				
				Land Acquisition	/ ROW:	\$0				
				Engineering / Des	ign:	\$0				
				Construction:		\$116	6,000		Cost Total:	\$116,000
				Annual Maint. Cos	st:	\$6,6	00		Project Difference:	\$0
				Maint. Year Start:		190	5			
Service Impact:	:									
Improve Efficien	icy and reliability by using an ir	ntegrated softwa	are 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-19-C	IP Genera	al Government								
112-19-CIP	Purchase & Install B	ackup Generator	- Opera House	•						
Project Inform	mation									
Submitted By:	Penny Hill	Dep	partment:	Manager			Project Descripti	on:		
Category:	Capital	Dep	partment Head:	Marty Colbur	'n		Purchase and ins	tall backup generat	or on rooftop for emergend	су
Fund Group:	Opera House	Sta	ff Priority:	Essential (Sh	nould Do)		electricity.			
Fund Detail:	Opera House	Со	uncil Priority:							
Purchase & Ins	tall Backup Generator - Op	era House				111	2-19-CIP-C			
Funding Source	es:									
		Previous	2019/2020	2020/2021	2021/2		2022/2023	2023/2024	2024/2025	Total
OPH	Opera House	\$0	\$0	\$30,000	\$25,00	0	\$0	\$0	\$0	\$55,000
									Project Total:	\$55,000
				COST DETAIL:						
				Study:		\$0				
				Land Acquisition	ROW:	\$0				
				Engineering / Des	ign:	\$0				
				Construction:		\$55,	000		Cost Total:	\$55,000
				Annual Maint. Cos	st:				Project Difference:	\$0
				Maint. Year Start:		190	5			
Service Impact										
Improve reliabi	lity of systems in the event of	of power failure.								

Project Justification:

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

Location Description:

106 E. Front Street



GEN GOVT-19-CIF	General G	overnment								
1103-19-CIP	Replace Boiler - Carnegi	e Building								
Project Inform	ation									
Submitted By:	Penny Hill	Dej	partment:	Manager			Project Description	on:		
Category:	Maintenance	Dej	partment Head:	Marty Colbur	'n		Per the 2018 Ene	rgy Assessment th	rough Michigan Energy Op	otions
Fund Group:	General	Sta	ff Priority:	Essential (Sh	nould Do)		-		the existing two hydronic	
Fund Detail:	General Government	Co	uncil Priority:				which will improve approximately 95 ⁶ the exhaust streat output of heating.	e the overall heating %. By recovering e	fficiency condensing boiler g efficiency from 80% to energy from condensed wa es less fuel input for the sa	ater in
Replace Boiler -	Carnegie Bldg					1103	-19-CIP-C			
Funding Source	s:	D	2019/2020	2020/2021	2021/20	22	2022/2023	2023/2024	2024/2025	Total
GEN	General Fund	Previous \$0	2019/2020 \$0	\$12,000	\$0	22	2022/2023 \$0	2023/2024 \$0	\$0	\$12,000
GEN		φυ	φυ	\$12,000	φυ		φυ	φυ		
									Project Total:	\$12,000
				COST DETAIL:		A A				
				Study:		\$0				
				Land Acquisition		\$0				
				Engineering / Des	ign:	\$0				
				Construction:		\$12,00	00		Cost Total:	\$12,000
				Annual Maint. Cos	st:				Project Difference:	\$0
				Maint. Year Start:						
Service Impact:	Consumption									

Reduces Energy Consumption

Project Justification:

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

Location Description:

322 Sixth Street



GEN GOVT-19-C	IP General (<u>Government</u>							
1097-19-CIP	Replace Boiler - Opera	House							
Project Inform	nation								
Submitted By:	Penny Hill	Dej	partment:	Manager		Project Descript	ion:		
Category:	Maintenance	Dej	partment Head:	Marty Colbu	rn	Per the 2018 End	ergy Assessment thr	ough Michigan Energy Op	otions
Fund Group:	Opera House	Sta	ff Priority:	Essential (Sh	hould Do)			the existing boiler be repl	
Fund Detail:	Opera House	Co	uncil Priority:			•	, ,	g boiler. Condensing boile g. By recovering energy fr	
								am, the boiler requires les	
							same output of heat		
Replace Boiler	1					1097-19-CIP-C			
Funding Sourc	es:								
		Previous	2019/2020	2020/2021	2021/2022		2023/2024	2024/2025	Total
TIF97	TIF 97	\$0	\$12,000	\$0	\$0	\$0	\$0	\$0	\$12,000
								Project Total:	\$12,000
				COST DETAIL:					
				Study:		\$0			
				Land Acquisition	/ ROW:	\$0			
				Engineering / Des	sign:	\$0			
				Construction:		\$12,000		Cost Total:	\$12,000
				Annual Maint. Cos	st:		l	Project Difference:	\$0
				Maint. Year Start:		1905			
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



SEN GOVT-19-CI	<u>General G</u>	<u>overnment</u>								
101-19-CIP	Replace Chiller Unit - Ca	rnegie Buildi	ng							
Project Inform	ation									
Submitted By:	Penny Hill	Dep	partment:	Manager			Project Descripti	on:		
Category:	Maintenance	Department Head:		Marty Colbur	m		Per the 2018 Ene	rgy Assessment th	rough Michigan Energy Op	otions
Fund Group:	General	Staff Priority: Council Priority:		Essential (Sh	Essential (Should Do)				the current Chiller rooftop	
Fund Detail:	General Government						is approaching the end of its useful life, and should be replaced with a new, higher efficiency unit.			
Replace Chiller	Unit - Carnegie Bldg					110	1-19-CIP-C			
Funding Source	s:									
		Previous	2019/2020	2020/2021	2021/20)22	2022/2023	2023/2024	2024/2025	Total
GEN	General Fund	\$0	\$0	\$36,500	\$0		\$0	\$0	\$0	\$36,500
									Project Total:	\$36,500
				COST DETAIL:						
				Study:		\$0				
				Land Acquisition	/ ROW:	\$0				
				Engineering / Des	ign:	\$0				
				Construction:		\$36,	200		Cost Total:	\$36,200
				Annual Maint. Cos	st:				Project Difference:	\$300
				Maint. Year Start:		190	5			
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



EN GOVT-19-C	P Genera	<u>l Government</u>											
096-19-CIP	Replace Packaged A/	C Rooftop Units	- Opera Hous	e									
Project Inform	nation												
Submitted By:	Penny Hill	Dep	artment:	Manager Proj			Project Descripti	on:					
Category:	Maintenance	Dep	artment Head:	Marty Colbur	n		Per the 2018 Ene	ergy Assessment thr	rough Michigan Energy Op	otions			
Fund Group:	Opera House	Stat	Staff Priority: Council Priority:		ould Do)		and SEEDS, it is recommended that the five rooftop A/C units are						
Fund Detail:	Opera House	Coι						approaching the end of their useful lives, and should be replaced with new, high efficiency units					
Replace Packa	ged A/C Rooftop Units - Ope	era House				109	96-19-CIP-C						
Funding Sourc	es:												
		Previous	2019/2020	2020/2021	2021/2		2022/2023	2023/2024	2024/2025	Total			
OPH	Opera House	\$0	\$0	\$15,000	\$20,00	0	\$0	\$0	\$0	\$35,000			
									Project Total:	\$35,000			
				COST DETAIL:									
				Study:		\$0							
				Land Acquisition /	ROW:	\$0							
				Engineering / Desi	gn:	\$0							
				Construction:		\$35,	000		Cost Total:	\$35,000			
				Annual Maint. Cos	t:				Project Difference:	\$0			
				Maint. Year Start:		190	5						
Service Impact	:												
Reduces Energ	y 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



Non-City Funds

\$0

\$0 \$0 \$0

\$0

\$0 \$0 \$0 \$0 \$0 \$0 \$0

\$0

\$0 \$0

\$0 \$0

\$0

\$0

Six Year Capital Improvement Plan

(NEW)

All Projects Submitted for 2019-2020

Budget Year	r 2019-2020 by Program Name				···· , ····						
	projects occurring in the first FY of the plan.										
+ - Indicates pro	jects with multiple funding			Fiscal Year	Fiscal Year	Fiscal Year	Fiscal Year	Fiscal Year	Fiscal Year	Drojost	City
Project ID		Cat	Previous	2019-2020	2020-2021	2021-2022	2022-2023	2023-2024	2024-2025	Project Cost	City Funds
ght and Po	ower										
1041-19-CIP	ALLEY BETWEEN STATE AND FRONT STREET	С	\$0	\$0	\$0	\$0	\$0	\$0	\$1,500,000	\$1,500,000	\$1,500,000
1039-19-CIP	BUILDING D REHABILITATION	С	\$0	\$50,000	\$250,000	\$0	\$0	\$0	\$0	\$300,000	\$300,000
1108-19-CIP	CRITICAL AND LARGE CUSTOMERS	С	\$0	\$925,000	\$925,000	\$0	\$0	\$0	\$0	\$1,850,000	\$1,850,000
1009-19-CIP	DIVISION STREET STREETSCAPES LIGHTING	С	\$0	\$0	\$0	\$0	\$1	\$0	\$0	\$1	\$1
1043-19-CIP	EAST FRONT STREET STREETSCAPE LIGHTING	С	\$0	\$0	\$0	\$0	\$0	\$56,000	\$0	\$56,000	\$56,000
1008-19-CIP	EIGHTH STREET STREETSCAPES LIGHTING	С	\$0	\$85,000	\$85,000	\$0	\$0	\$0	\$0	\$170,000	\$170,000
808-19-CIP	EXTENSIONS AND NEW SERVICES	С	\$0	\$600,000	\$650,000	\$700,000	\$750,000	\$800,000	\$850,000	\$4,350,000	\$4,350,000
1030-19-CIP	FIBER TO THE PREMISE	С	\$0	\$4,050,000	\$4,050,000	\$4,050,000	\$4,050,000	\$0	\$0	\$16,200,000	\$16,200,000
1038-19-CIP	GRAND TRAVERSE SUBSTATION UPGRADES	С	\$0	\$500,000	\$575,000	\$0	\$0	\$0	\$0	\$1,075,000	\$1,075,000
1005-19-CIP	HARTMAN ROAD OVERHEAD TIE	С	\$0	\$725,000	\$725,000	\$0	\$0	\$0	\$0	\$1,450,000	\$1,450,000
824-19-CIP	HASTINGS SERVICE CENTER FACILITY IMPROVEMENTS	С	\$0	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$300,000	\$300,000
811-19-CIP	OVERHEAD LINE IMPROVEMENTS	С	\$0	\$350,000	\$400,000	\$450,000	\$500,000	\$550,000	\$600,000	\$2,850,000	\$2,850,000
1120-19-CIP	REBUILD CIRCUIT - BW-23 - EIGHTH/HASTINGS ST	С	\$0	\$0	\$0	\$400,000	\$0	\$0	\$0	\$400,000	\$400,000
1125-19-CIP	REBUILD CIRCUIT - CD-31/SS-30 - SMART GRID (NEW)	С	\$0	\$0	\$0	\$0	\$0	\$0	\$200,000	\$200,000	\$200,000
1116-19-CIP	REBUILD CIRCUIT - GRANDVIEW PKWY - PRIMARY	С	\$0	\$0	\$0	\$650,000	\$650,000	\$0	\$0	\$1,300,000	\$1,300,000
1126-19-CIP	REBUILD CIRCUIT - GRANDVIEW PKWY - STREET LIGHTING	С	\$0	\$0	\$0	\$300,000	\$0	\$0	\$0	\$300,000	\$300,000
1124-19-CIP	REBUILD CIRCUIT - HL-33 - LOCUST STREET (NEW)	С	\$0	\$0	\$0	\$0	\$0	\$400,000	\$0	\$400,000	\$400,000
1117-19-CIP	REBUILD CIRCUIT - HL-33 - WADSWORTH ST	С	\$0	\$0	\$0	\$85,000	\$0	\$0	\$0	\$85,000	\$85,000
1127-19-CIP	REBUILD CIRCUIT - PC-22 - PARSONS RD/MUNSON AVE	С	\$0	\$0	\$0	\$82,000	\$0	\$0	\$0	\$82,000	\$82,000
1121-19-CIP	REBUILD CIRCUIT - PC-22 - MUNSON AVE	С	\$0	\$0	\$0	\$0	\$0	\$300,000	\$0	\$300,000	\$300,000



Six Year Capital Improvement Plan

Budget Year 2019-2020 by Program Name

All Projects Submitted for 2019-2020

al Light an			\$0	\$8,858,000	\$9,585,000	\$8,767,000	\$9,070,001	\$4,746,000	\$5,465,000		\$46,491,001	
110-19-CIP	UTILITY BILLING SOFTWARE (NEW)	С	\$0	\$0	\$350,000	\$0	\$0	\$0	\$0	\$350,000	\$350,000	
29-19-CIP	UPGRADE FRONT ST LIGHTING CIRCUITS & RECEPTACLES	С	\$0	\$0	\$0	\$0	\$0	\$0	\$1,340,000	\$1,340,000	\$1,340,000	
109-19-CIP	UNDERGROUND LINE IMPROVEMENTS	С	\$0	\$275,000	\$325,000	\$375,000	\$425,000	\$475,000	\$525,000	\$2,400,000	\$2,400,000	
20-19-CIP	TRANSMISSION LINE RECONSTRUCTION	С	\$0	\$0	\$0	\$1,500,000	\$1,500,000	\$1,045,000	\$0	\$4,045,000	\$4,045,000	
19-19-CIP	SUBSTATION TRANSFORMER UPGRADES	С	\$0	\$0	\$0	\$0	\$775,000	\$750,000	\$0	\$1,525,000	\$1,525,000	
15-19-CIP	SUBSTATION SWITCHING STATIONS	С	\$0	\$998,000	\$1,200,000	\$0	\$0	\$0	\$0	\$2,198,000	\$2,198,000	
040-19-CIP	SCADA SYSTEM UPGRADE	С	\$0	\$250,000	\$0	\$0	\$0	\$0	\$0	\$250,000	\$250,000	
118-19-CIP	REBUILD CIRCUIT PC-22 - MUNSON AVE	С	\$0	\$0	\$0	\$0	\$370,000	\$0	\$0	\$370,000	\$370,000	
123-19-CIP	REBUILD CIRCUIT - SS-31 - CRESTWOOD (NEW)	С	\$0	\$0	\$0	\$0	\$0	\$0	\$250,000	\$250,000	\$250,000	
119-19-CIP	REBUILD CIRCUIT - PC-23 - MUNSON AVENUE	С	\$0	\$0	\$0	\$0	\$0	\$320,000	\$0	\$320,000	\$320,000	
09-19-CIP	REBUILD CIRCUIT - PC-23 - MITCHELL CREEK (NEW)	С	\$0	\$0	\$0	\$125,000	\$0	\$0	\$0	\$125,000	\$125,000	
122-19-CIP	REBUILD CIRCUIT - PC-22 - TOM'S MARKET EAST (NEW)	С	\$0	\$0	\$0	\$0	\$0	\$0	\$150,000	\$150,000	\$150,000	
nt and Po	ower											
roject ID		Cat	Previous	2019-2020	2020-2021	2021-2022	2022-2023	2023-2024	2024-2025	Project Cost	City Funds	Nor F
Indicates pro	jects with multiple funding			Fiscal Year								



CLP-19-CIP	Light and	Power								
041-19-CIP	ALLEY BETWEEN STAT	E AND FRON	T STREET							
Proiect Inforn	nation									
Submitted By:	Karla Myers-Beman	De	partment:	Light and Po	ower Service	Project Descript	on:			
Category:	Capital	Department Head:		partment Head: Tim Arends R		Remove all overh	head lines and trans	formers and install new		
Fund Group:	Light and Power	St	Staff Priority:		hould Do)	-		The utility may need to		
Fund Detail:	Light and Power	Council Priority:				•	purchase easements/real estate to set equipment or purchase vaults to set in alley right of way.			
ALLEY BETWE	EN STATE AND FRONT STRE	EET				1041-19-CIP-C				
Funding Source	es:	_ .	0040/0000	0000/0004	0004/0000	0000/0000	0000/0004	0004/0005	Tett	
	Linkt and Damag	Previous	2019/2020	2020/2021	2021/2022		2023/2024	2024/2025	Tota	
LAP	Light and Power	\$0	\$0	\$0	\$0	\$0	\$0	\$1,500,000	\$1,500,00	
								Project Total:	\$1,500,00	
				COST DETAIL:						
				Study:		\$0				
				Land Acquisition	/ ROW:	\$0				
				Engineering / Des	sign:	\$0				
				Construction:		\$1,500,000		Cost Total:	\$1,500,00	
				Annual Maint. Co	st:			Project Difference:	\$	
				Maint. Year Start:						
Service Impact	:									
Increase reliabil	lity and aesthetics of the syste	m								
Project Justific	ation:									
Joint Project										

Alley between State and Front Street



CLP-19-CIP	Light and	Power										
039-19-CIP	BUILDING D REHABILI	TATION										
Project Inform	nation											
Submitted By:	Karla Myers-Beman	De	partment:	Light and Po	ower	Project Descript	Project Description:					
Category:	Capital	De	partment Head:	Tim Arends	Tim Arends E		Eliminate driveway, demolish the front office portion of the building,					
Fund Group:	Light and Power	Sta	off Priority:	Essential (Sl	hould Do)		nt of the building to	match the existing service	9			
Fund Detail:	Light and Power	Co	uncil Priority:			center building.	center building.					
BUILDING D RE	EHABILITIATION					1039-19-CIP-C						
Funding Source	es:	_ .	0040/0000	0000/0004	0004/0000	0000/0000	0000/0004	0004/0005	Tete			
	Light and Damas	Previous	2019/2020	2020/2021	2021/2022		2023/2024	2024/2025	Total			
LAP	Light and Power	\$0	\$50,000	\$250,000	\$0	\$0	\$0	\$0	\$300,000			
								Project Total:	\$300,000			
				COST DETAIL:								
				Study:		\$0						
				Land Acquisition	/ ROW:	\$0						
				Engineering / Des	sign:	\$0						
				Construction:		\$300,000		Cost Total:	\$300,000			
				Annual Maint. Co	st:			Project Difference:	\$0			
				Maint. Year Start:								
Service Impact: Improve the inve	entory cycle process											
Project Justifica	ation:											
Internal analysis	3											
Leastian Deser												

Location Description:

1125 Hastings Street



LP-19-CIP	Light and	Power											
08-19-CIP	CRITICAL AND LARGE	CUSTOMERS											
Project Informa	ation												
Submitted By:	Karla Myers-Beman	De	partment:	Light and Po	wer Service	Project Descript	ion:						
Category:	Capital	Department Head: Staff Priority: Council Priority:		Tim Arends		Replacement of	underground distr	ibution facilities involving th	ne use				
Fund Group:	Light and Power			Imperitive (Must Do)		of wire, meters, o	of wire, meters, cabinets and transformers.						
Fund Detail:	Light and Power												
CRITICAL AND L	ARGE CUSTOMER					1108-19-CIP-C							
Funding Sources	s:												
		Previous	2019/2020	2020/2021	2021/202	2 2022/2023	2023/2024	2024/2025	Tota				
LAP	Light and Power	\$0	\$925,000	\$925,000	\$0	\$0	\$0	\$0	\$1,850,000				
								Project Total:	\$1,850,00				
				COST DETAIL:									
				Study:		\$0							
				Land Acquisition	/ ROW:	\$0							
				Engineering / Des	ign:	\$0							
				Construction:		\$1,850,000		Cost Total:	\$1,850,00				
				Annual Maint. Co	st:			Project Difference:	\$				
				Maint. Year Start:									
Service Impact:	vill improve system reliability	and minimize fu	ture maintenanc	e costs									

System study

Location Description:

Aero Park Industrial Park



Project Inform												
Submitted By:	Karla Myers-Beman	Dep	partment:	Light and Power Service Tim Arends		Project Descri	Project Description:					
Category:	Capital	•	Department Head:			0	•	onjunction with planned				
Fund Group:	Light and Power	Staff Priority:		Essential (Sho	ould Do)		streetscape with funding in accordance with TCL&P Street Lighting Operations and Maintenance Policy and Decorative Lighting Policy.					
Fund Detail:	Joint Projects	Coι	Incil Priority:				, ,					
DIVISION STRE	ET STREETSCAPES LIGHTI	NG				1009-19-CIP-C						
Funding Source	5:											
		Previous	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	2024/2025	Tota			
LAP	Light and Power	\$0	\$0	\$0	\$0	\$1	\$0	\$0	\$			
								Project Total:	\$			
				COST DETAIL:								
				Study:	\$	0						
				Land Acquisition /	ROW: \$	0						
				Engineering / Desig	gn: \$	0						
				Construction:	\$	1		Cost Total:	\$*			
				Annual Maint. Cost	:			Project Difference:	\$0			
				Maint. Year Start:								
Service Impact:												
Joint Project												
Project Justifica	tion:											
Joint Project												

Location Description:

Fourteenth Street to Grandview Parkway



CLP-19-CIP	Light and	Power							
)43-19-CIP	EAST FRONT STREET	STREETSCAP	E LIGHTING						
Project Inform	ation								
Submitted By:	Karla Myers-Beman	De	partment:	Light and Po	ower Service	Project Descript	ion:		
Category:	Capital	De	partment Head:	Tim Arends		New street lightir	ig installations in co	onjunction with planned	
Fund Group:	Light and Power	Sta	aff Priority:	Essential (SI	hould Do)			rom Boardman Avenue to H	loliday
Fund Detail:	Light and Power	Co	uncil Priority:			Operations and M		TCL&P Street Lighting ing and Decorative Lighting]
FAST FRONT S	TREET STREETSCAPE LIG	HTING				Policy. 1043-19-CIP-C			
Funding Source									
0		Previous	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	2024/2025	Tota
LAP	Light and Power	\$0	\$0	\$0	\$0	\$0	\$56,000	\$0	\$56,000
								Project Total:	\$56,000
				COST DETAIL:					
				Study:	\$	60			
				Land Acquisition	/ ROW: \$	60			
				Engineering / Des	sign: \$	60			
				Construction:	\$	56,000		Cost Total:	\$56,000
				Annual Maint. Cos	st:			Project Difference:	\$0
				Maint. Year Start:					
Service Impact: Joint Project									
Project Justifica	tion:								
Joint Project									

Location Description:

East Front Street between Boardman Avenue and Holiday Inn.



TCLP-19-CIP

Light and Power

1008-19-CIP EIGHTH STREET STREETSCAPES LIGHTING

Project Information

Submitted By: Category: Fund Group: Fund Detail:	Karla Myers-Beman Capital Light and Power Joint Projects	Department Head: Tim Arends N Staff Priority: Essential (Should Do) in Council Priority: O			improvements wit	g installation in conj th funding in accord	junction with planned corric ance with the Street Lightin and the Decorative Lighting	ng		
			uncil Priority:				Policy.			
	T STREETSCAPES LIGHTING					1008	-19-CIP-C			
Funding Sources	S:	Previous	2019/2020	2020/2021	2021/202	22	2022/2023	2023/2024	2024/2025	Total
LAP	Light and Power	\$0	\$85,000	\$85,000	\$0		\$0	\$0	\$0	\$170,000
									Project Total:	\$170,000
				COST DETAIL:						
				Study:		\$0				
				Land Acquisition	/ ROW:	\$0				
				Engineering / Des	ign:	\$0				
				Construction:		\$170,0	000		Cost Total:	\$170,000
				Annual Maint. Cos	st:				Project Difference:	\$0
				Maint. Year Start:						
Service Impact: Joint Project										
Project Justificat	tion:									
Joint Project										

Location Description:

Eighth Street between Boardman to Woodmere Avenue



CLP-19-CIP	Light and	l Power								
8-19-CIP	EXTENSIONS AND NEW	V SERVICES								
Project Inform	ation									
Submitted By: Category: Fund Group:	Karla Myers-Beman Capital Light and Power	De	partment: partment Head:	Light and Powe Tim Arends Imperitive (Mus		(•		ces involving the use of w	re,
Fund Detail:	Distribution		aff Priority: uncil Priority:	impentive (into	(00)	ſ	,,,,			
EXTENSIONS A	ND NEW SERVICES					808-19	9-CIP-C			
Funding Source	s:	Previous	2019/2020	2020/2021	2021/202	22	2022/2023	2023/2024	2024/2025	Tota
LAP	Light and Power	\$0	\$600,000	\$650,000	\$700,000	0	\$750,000	\$800,000	\$850,000	\$4,350,000
									Project Total:	\$4,350,000
				COST DETAIL:						
				Study:		\$0				
				Land Acquisition / R	OW:	\$0				
				Engineering / Desigr	n:	\$0				
				Construction:		\$4,350,	,000		Cost Total:	\$4,350,000
				Annual Maint. Cost:					Project Difference:	\$0
				Maint. Year Start:						

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-19-CIP	Light and	Power							
1030-19-CIP	FIBER TO THE PREMISE	E							
Project Inforn	nation								
Submitted By:	Karla Myers-Beman	Dej	partment:	Light and Po	wer Service	Project Descripti	on:		
Category:	Capital	Dej	partment Head:	Tim Arends		Deployment of a	fiber optic network		
Fund Group:	Light and Power	Sta	ff Priority:	Essential (Sh	nould Do)				
Fund Detail:	Light and Power	Co	uncil Priority:						
FIBER TO THE	PREMISE				10	30-19-CIP-C			
Funding Source	es:								
		Previous	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	2024/2025	Total
FBR	FIBER	\$0	\$4,050,000	\$4,050,000	\$4,050,000	\$4,050,000	\$0	\$0	\$16,200,000
								Project Total:	\$16,200,000
				COST DETAIL:					
				Study:	\$0				
				Land Acquisition	ROW: \$0				
				Engineering / Des	ign: \$0				
				Construction:	\$16	,200,000		Cost Total:	\$16,200,000
				Annual Maint. Cos	st:			Project Difference:	\$0
				Maint. Year Start:					
Service Impact	:								
A new business	s within the utility								
Project Justific	ation:								
Economic deve	lopment								

Location Description:

Entire service area.



			_						
Project Inform	ation								
Submitted By:	Karla Myers-Beman	Dej	partment:	Light and Po	wer	Project Descript	on:		
Category:	Capital	Dej	partment Head:	Tim Arends			•	breakers, and switches alo	-
Fund Group:	Light and Power	Sta	ff Priority:	Imperitive (N	lust Do)			g an unused foundation a	nd
Fund Detail:	Light and Power	Co	uncil Priority:			expanding the fe	nce perimeter.		
GRAND TRAVE	RSE SUBSTATION UPGRAD	ES				1038-19-CIP-C			
Funding Source	es:			0000/000/					
		Previous	2019/2020	2020/2021	2021/2022		2023/2024	2024/2025	Tota
LAP	Light and Power	\$0	\$500,000	\$575,000	\$0	\$0	\$0	\$0	\$1,075,00
								Project Total:	\$1,075,00
				COST DETAIL:					
				Study:	:	50			
				Land Acquisition	/ ROW:	50			
				Engineering / Des	ign:	\$O			
				Construction:	;	\$1,075,000		Cost Total:	\$1,075,00
				Annual Maint. Cos	st:			Project Difference:	\$
				Maint. Year Start:					
Service Impact:									
Improve reliabilit	V								

Internal analysis and analysis completed by Wolverine Power Cooperative

Location Description:

Grand Traverse Substation - Keystone Road



005-19-CIP	HARTMAN ROAD OVER	HEAD TIE							
Proiect Inforn	nation								
Submitted By:	Karla Myers-Beman	Do	partment:	Light and Po	wer Service	Project Descripti	on:		
Category:	Capital			Tim Arends				anhanaa raliahilitu in tha	
Fund Group:	Light and Power		partment Head:	Essential (SI	pould Do)	southwest service		o enhance reliability in the	
	Distribution		ff Priority:	Losential (Si	iouiu Doj				
Fund Detail:	Distribution	Co	uncil Priority:						
HARTMAN ROA	AD OVERHEAD TIE					1005-19-CIP-C			
Funding Source	es:								
		Previous	2019/2020	2020/2021	2021/2022	2 2022/2023	2023/2024	2024/2025	Tota
LAP	Light and Power	\$0	\$725,000	\$725,000	\$0	\$0	\$0	\$0	\$1,450,00
								Project Total:	\$1,450,00
				COST DETAIL:					
				Study:		\$0			
				Land Acquisition	/ ROW:	\$0			
				Engineering / Des	ian:	\$0			
				Construction:	•	\$1,450,000		Cost Total:	\$1,450,00
				Annual Maint. Co		* , ,		Project Difference:	\$1,122,22
				Maint. Year Start:				Troject Difference.	÷
0				mann. rear start:					
Service Impact	: ential of future maintenance co								

System study

Location Description:

Southeast part of the distribution system.



LP-19-CIP	Light and	Power							
4-19-CIP	HASTINGS SERVICE CE	ENTER FACILI	TY IMPROVEM	ENTS					
Project Inform	ation								
Submitted By:	Karla Myers-Beman	Dep	partment:	Light and Po	ower Service	Project Descripti	on:		
Category:	Capital	Dep	partment Head:	Tim Arends		Site improvement	ts to existing facility		
Fund Group:	Light and Power	Sta	ff Priority:	Essential (S	hould Do)				
Fund Detail:	Facilities	Cou	uncil Priority:						
HASTINGS SEF	RVICE CENTER FACILITY IM	PROVEMENTS			82	24-19-CIP-C			
Funding Source	es:								
		Previous	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	2024/2025	Tota
LAP	Light and Power	\$0	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$300,00
								Project Total:	\$300,00
				COST DETAIL:					
				Study:	\$0				
				Land Acquisition	/ ROW: \$0				
				Engineering / Des	sign: \$0				
				Construction:	\$3	00,000		Cost Total:	\$300,00
				Annual Maint. Co	st:			Project Difference:	\$
				Maint. Year Start:					
Service Impact:									
Efficiency of ope	erations								
Project Justifica	ation:								
Internal analysis	5								

1131 Hastings Street



TCLP-19-CIP

Light and Power

811-19-CIP OVERHEAD LINE IMPROVEMENTS

Project	Information
1 101000	mornation

Submitted By:	Karla Myers-Beman	Dej	Department: Light and Power		ower	Project Descripti	on:				
Category:	Capital	Dej	partment Head:	Tim Arends		Accumulation of s	small construction/	replacement projects of			
Fund Group:	Light and Power	Sta	ff Priority:	Imperitive (N	lust Do)			ving the use of wire, poles,			
Fund Detail:	Distribution	Co	uncil Priority:			meters, cabinets	meters, cabinets and transformers.				
OVERHEAD LINE	IMPROVEMENTS					811-19-CIP-C					
Funding Sources:	:										
		Previous	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	2024/2025	Total		
LAP	Light and Power	\$0	\$350,000	\$400,000	\$450,000	\$500,000	\$550,000	\$600,000	\$2,850,000		
								Project Total:	\$2,850,000		
				COST DETAIL:							
				Study:		\$0					
				Land Acquisition	/ ROW:	\$0					
				Engineering / Des	sign:	\$0					
				Construction:		\$2,850,000		Cost Total:	\$2,850,000		
				Annual Maint. Cos	st:			Project Difference:	\$0		
				Maint. Year Start:							
Service Impact:											
Reduce the potent	tial of future maintenance co	osts.									

Reliability of the system.

Location Description:

Entire Service Area



20-19-CIP	REBUILD CIRCUIT - BW									
20-19-CIP	REBUILD CIRCUIT - DW	-23 - 210111/	HASTINGS ST							
Project Inform	ation									
Submitted By:	Karla Myers-Beman	Dep	partment:	Light and Pov	ver		Project Descripti	on:		
Category:	Capital	Dep	artment Head:	Tim Arends			Replace deteriora	ted overhead/und	erground facilities with nev	v wire,
Fund Group:	Light and Power	Sta	ff Priority:	Imperitive (Mu	ust Do)		conduit, poles, et	c to include conve	rsion of overhead facilities	to
Fund Detail:	Light and Power	Coi	incil Priority:				underground as a	ppropriate.		
	UIT - BW-23 - EIGHTH/HAST	INGS ST				1120	0-19-CIP-C			
Funding Source	IS:	Previous	2019/2020	2020/2021	2021/20	22	2022/2023	2023/2024	2024/2025	Tota
LAP	Light and Power	\$0	\$0	\$0	\$400,00		\$0	\$0	\$0	\$400,00
27 (1		φυ	ψυ	φο	φ+00,00		ψυ	φθ	·	
									Project Total:	\$400,00
				COST DETAIL:						
				Study:		\$0				
				Land Acquisition /	ROW:	\$0				
				Engineering / Desig	gn:	\$0				
				Construction:		\$400	,000		Cost Total:	\$400,00
				Annual Maint. Cost	t:				Project Difference:	\$
				Maint. Year Start:						
Service Impact:										
	its to increase reliability of the									

System study

Location Description:

Eighth/Hastings Street area East to Munson Avenue



Project Inform	ation								
		_		Light and De					
Submitted By:	Karla Myers-Beman		partment:	Light and Po	ower	Project Descripti			
Category:	Capital		oartment Head:	Tim Arends		•		erground facilities with nev sion of overhead facilities	
Fund Group:	Light and Power	Sta	ff Priority:	Imperitive (M	lust Do)	underground as a		sion of overnead facilities	10
Fund Detail:	Light and Power	Coι	Incil Priority:						
REBUILD CIRCL	JIT- CD 31/SS-30 - SMART G	GRID (NEW)				1125-19-CIP-C			
Funding Source	s:								
		Previous	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	2024/2025	Total
LAP	Light and Power	\$0	\$0	\$0	\$0	\$0	\$0	\$200,000	\$200,000
								Project Total:	\$200,000
				COST DETAIL:					
				Study:	:	\$0			
				Land Acquisition	/ ROW:	\$0			
				Engineering / Des	ign:	\$0			
				Construction:		\$200,000		Cost Total:	\$200,000
				Annual Maint. Co	st:			Project Difference:	\$0
				Maint. Year Start:					

System study

Location Description:

Smart Grid Automatic Restoration



Project Informa	tion									
Submitted By: Category: Fund Group: Fund Detail:	Karla Myers-Beman Capital Light and Power Distribution	Dej Sta	partment: partment Head: ff Priority: uncil Priority:	Tim Arends Imperitive (Must Do)		Project Description: Replace deteriorated overhead/underground facilities with new wire conduit, poles, etc to include conversion of overhead facilities to underground as appropriate.				
REBUILD CIRCU	IT - GRANDVIEW PKWY - P	RIMARY				1116-	19-CIP-C			
Funding Sources	:	Previous	2019/2020	2020/2021	2021/20)22	2022/2023	2023/2024	2024/2025	Tota
LAP	Light and Power	\$0	\$0	\$0	\$650,00	00	\$650,000	\$0	\$0	\$1,300,00
									Project Total:	\$1,300,00
				COST DETAIL:						
				Study:		\$0				
				Land Acquisition /	ROW:	\$0				
				Engineering / Desig	gn:	\$0				
				Construction:		\$1,300	0,000		Cost Total:	\$1,300,00
				Annual Maint. Cost	::				Project Difference:	\$
				Maint. Year Start:						

System study

Location Description:

Grandview Parkway and behind buildings north of Front Street



Submitted By:	ation Karla Myers-Beman	Dev		Light and Po	wer	Project Decerint			
Category:	Capital	•	oartment: oartment Head:	Tim Arends	wei	Project Descript		erground facilities with new	w wire
Fund Group:	Light and Power	•	ff Priority:	Imperitive (M	lust Do)	•		sion of overhead facilities	
Fund Detail:	Light and Power		uncil Priority:	, , ,		underground as a	appropriate.		
REBUILD CIRCU	JIT - GRANDVIEW PKWY - S	TREET LIGHTI	NG			1126-19-CIP-C			
Funding Sources	5:	Previous	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	2024/2025	Tota
LAP	Light and Power	\$0	\$0	\$0	\$300,000	\$0	\$0	\$0	\$300,000
								Project Total:	\$300,000
				COST DETAIL:					
				Study:		\$0			
				Land Acquisition	/ ROW:	\$0			
				Engineering / Des	ign:	\$0			
				Construction:		\$300,000		Cost Total:	\$300,000
				Annual Maint. Cos	st:			Project Difference:	\$0
				Maint. Year Start:					

System study

Location Description:

M-72 to Front Street



LP-19-CIP	Light and	Power							
24-19-CIP	REBUILD CIRCUIT - HL-	-33 - LOCUST	STREET (NEW)						
Project Inform	ation								
Submitted By:	Karla Myers-Beman	De	partment:	Light and Po	ower	Project Descript	ion:		
Category:	Capital	De	partment Head:	Tim Arends		Replace deterior	ated overhead/unde	erground facilities with new	v wire,
Fund Group:	Light and Power	Sta	aff Priority:	Imperitive (M	/lust Do)			sion of overhead facilties t	to
Fund Detail:	Light and Power	Co	uncil Priority:			underground as	appropriate.		
	UIT - HL-33 - LOCUST STRE	EI (NEVV)				1124-19-CIP-C			
Funding Source	S:	Previous	2019/2020	2020/2021	2021/2022	2 2022/2023	2023/2024	2024/2025	Tota
LAP	Light and Power	\$0	\$0	\$0	\$0	\$0	\$400,000	\$0	\$400,00
								Project Total:	\$400,00
				COST DETAIL:					
			:	Study:		\$0			
				Land Acquisition	/ ROW:	\$0			
				Engineering / Des	sign:	\$0			
				Construction:	-	\$400,000		Cost Total:	\$400,00
				Annual Maint. Cos	st:			Project Difference:	\$
				Maint. Year Start:				-	
Service Impact:									
			nimizo the notentic	I of future mainter	anno ocata				

System study

Location Description:

Locust Street



CLP-19-CIP	Light and	Power							
17-19-CIP	REBUILD CIRCUIT - HL	-33 - WADSWO	ORTH ST						
Project Inform	nation								
Submitted By: Category: Fund Group: Fund Detail:	Karla Myers-Beman Capital Light and Power Light and Power	Dej Sta	partment: partment Head: iff Priority: uncil Priority:	Light and Pc Tim Arends Imperitive (N		•	ated overhead/und c to include conve	lerground facilities with new rsion of overhead facilities t	-
REBUILD CIRC	UIT - HL-33 - WADSWORTH	ST				1117-19-CIP-C			
Funding Source	es:	Previous	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	2024/2025	Tota
LAP	Light and Power	\$0	\$0	\$0	\$85,000	\$0	\$0	\$0	\$85,00
								Project Total:	\$85,00
				COST DETAIL:					
				Study:	\$	60			
				Land Acquisition	/ ROW: \$	60			
				Engineering / Des	sign: \$	60			
				Construction:	\$	85,000		Cost Total:	\$85,00
				Annual Maint. Co	st:			Project Difference:	\$
				Maint. Year Start:					
Service Impact: Rebuilding circu	: its to increase reliability of the	system and mir	nimize the potentia	al of future mainter	nance costs.				
Project Justifica	ation:								
System study									

Location Description:

Wadsworth St from Fifth to Thirteenth Street



Project Inform	ation								
Submitted By:	Karla Myers-Beman	Dep	partment:	Light and Pov	wer	Project Descrip	tion:		
Category:	Capital	Dep	partment Head:	Tim Arends		Replace deterior	ated overhead/und	erground facilities with new	wire,
Fund Group:	Light and Power	Sta	ff Priority:	Imperitive (M	ust Do)			rsion of overhead facilities t	0
Fund Detail:	Light and Power	Cou	uncil Priority:			underground as	appropriate.		
REBUILD CIRCU	JIT - PC-22 - MUNSON AVEN	IUE				1127-19-CIP-C			
Funding Source	s:								
		Previous	2019/2020	2020/2021	2021/2022		2023/2024	2024/2025	Tota
LAP	Light and Power	\$0	\$0	\$0	\$82,000	\$0	\$0	\$0	\$82,000
								Project Total:	\$82,000
				COST DETAIL:					
				Study:		\$0			
				Land Acquisition /	ROW:	\$0			
				Engineering / Desi	gn:	\$0			
				Construction:		\$82,000		Cost Total:	\$82,000
				Annual Maint. Cos	t:			Project Difference:	\$0
				Maint. Year Start:					

System study

Location Description:

Back lot area from Parsons Rd to Munson Ave



LP-19-CIP	Light and	Powor							
21-19-CIP	REBUILD CIRCUIT - PC	-22 - MUNSOI	N AVE (NEW)						
Project Inform	ation								
Submitted By:	Karla Myers-Beman	De	epartment:	Light and Po	wer	Project Descripti	on:		
Category:	Capital	De	partment Head:	Tim Arends		Replace deteriora	ated overhead/und	lerground facilities with nev	v wire,
Fund Group:	Light and Power	St	aff Priority:	Imperitive (M	lust Do)			ersion of overhead facilitie	s to
Fund Detail:	Light and Power	Co	ouncil Priority:			underground as a	appropriate.		
	JIT - PC-22 - MUNSON AVE	(INEVV)				1121-19-CIP-C			
Funding Source	5.	Previous	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	2024/2025	Tot
LAP	Light and Power	\$0	\$0	\$0	\$0	\$0	\$300,000	\$0	\$300,00
								Project Total:	\$300,00
				COST DETAIL:					
				Study:		\$0			
				Land Acquisition	/ ROW:	\$0			
				Engineering / Des	ign:	\$0			
				Construction:		\$300,000		Cost Total:	\$300,00
				Annual Maint. Cos	st:			Project Difference:	\$
				Maint. Year Start:					
Service Impact:									
				al of future mainter					

System study

Location Description:

Munson Avenue from Avenue B to Avenue E



	ion								
Submitted By:	Karla Myers-Beman	Dej	partment:	Light and Po	wer	Project Descripti	on:		
Category:	Capital	Dej	partment Head:	Tim Arends		Replace deteriora	ated overhead/und	lerground facilities with nev	v wire,
Fund Group:	Light and Power	Sta	ff Priority:	Imperitive (M	lust Do)			rsion of overhead facilities	to
Fund Detail:	Light and Power	Co	uncil Priority:			underground as a	appropriate.		
REBUILD CIRCUI	T - PC-22 - TOM'S MARKE	T EAST (NEW)				1122-19-CIP-C			
Funding Sources:									
		Previous	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	2024/2025	Tota
LAP I	Light and Power	\$0	\$0	\$0	\$0	\$0	\$0	\$150,000	\$150,000
								Project Total:	\$150,000
				COST DETAIL:					
				Study:	\$	0			
				Land Acquisition	/ ROW: \$	0			
				Engineering / Des	ign: \$	0			
				Construction:	\$	150,000		Cost Total:	\$150,000
				Annual Maint. Cos	st:			Project Difference:	\$0
				Maint. Year Start:					

System study

Location Description:

Behind Tom's Market East Bay



CLP-19-CIP	Light and	Power							
)9-19-CIP	REBUILD CIRCUIT - PC	-23 - MITCHEI	LL CREEK (NEW	/)					
Project Inform	ation								
Submitted By:	Karla Myers-Beman	De	partment:	Light and Po	ower Service	Project Descript	ion:		
Category:	Capital	De	partment Head:	Tim Arends		Replace deterior	ated overhead/unde	erground facilities with new	v wire,
Fund Group:	Light and Power	Sta	aff Priority:	Imperitive (M	/lust Do)			rsion of overhead facilities	to
Fund Detail:	Distribution	Co	ouncil Priority:			underground as	appropriate.		
REBUILD CIRCU	JIT PC-23- MITCHELL CREE	K (NEW)				809-19-CIP-C			
Funding Source	s:	Previous	2019/2020	2020/2021	2021/202	2 2022/2023	2023/2024	2024/2025	Tota
LAP	Light and Power	\$0	\$0	\$0	\$125,000		\$0	\$0	\$125,000
								Project Total:	\$125,000
				COST DETAIL:					
				Study:		\$0			
				Land Acquisition	/ ROW:	\$0			
				Engineering / Des		\$0			
				Construction:	•	\$125,000		Cost Total:	\$125,000
				Annual Maint. Cos	st:			Project Difference:	\$0
				Maint. Year Start:					
Service Impact:									
Rebuilding circui	ts to increase reliability of the	system and mi	nimize the potentia	al of future mainter	nance costs.				
Project Justifica	tion:								
System study									

System study

Location Description:

Mitchell Creek



Project Informa	tion									
Submitted By: Category:	Karla Myers-Beman Capital		oartment: oartment Head:	Light and Po Tim Arends	wer	Project Descripti Replace deteriora		erground facilities with nev	/ wire,	
Fund Group: Fund Detail:	Light and Power Light and Power	Sta	ff Priority: uncil Priority:	Imperitive (N	lust Do)	conduit, poles, et	conduit, poles, etc to include conversion of overhead facilities to underground as appropriate.			
REBUILD CIRCU	IT - PC-23 - MUNSON AVEN	IUE				1119-19-CIP-C				
Funding Sources	:	Previous	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	2024/2025	Tota	
LAP	Light and Power	\$0	\$0	\$0	\$0	\$0	\$320,000	\$0	\$320,000	
								Project Total:	\$320,00	
				COST DETAIL:						
				Study:	1	\$O				
				Land Acquisition	ROW:	\$O				
				Engineering / Des	ign:	\$O				
				Construction:		\$320,000		Cost Total:	\$320,000	
				Annual Maint. Cos	st:			Project Difference:	\$0	
				Maint. Year Start:						

System study

Location Description:

Munson Avenue from Three Mile to Four Mile Road



Project Inform	ation								
Submitted By:	Karla Myers-Beman	De	partment:	Light and Po	wer	Project Descript	on:		
Category:	Capital	De	partment Head:	Tim Arends		Replace deteriora	ated overhead/und	erground facilities with new	v wire,
Fund Group:	Light and Power	Sta	ff Priority:	Imperitive (N	lust Do)			sion of overhead facilities	to
Fund Detail:	Light and Power	Co	uncil Priority:			underground as a	appropriate.		
REBUILD CIRCU	JIT - SS-31 - CRESTWOOD	(NEW)				123-19-CIP-C			
Funding Source	s:	Previous	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	2024/2025	Tota
LAP	Light and Power	\$0	\$0	\$0	\$0	\$0	\$0	\$250,000	\$250,000
								Project Total:	\$250,000
				COST DETAIL:					
			:	Study:	\$()			
			I	Land Acquisition	/ ROW: \$0)			
			I	Engineering / Des	ign: \$)			
				Construction:	\$2	250,000		Cost Total:	\$250,000
				Annual Maint. Cos	st:			Project Difference:	\$0
			I	Maint. Year Start:					
Service Impact:									

System study

Location Description:

Crestwood



TCLP-19-CIP	Light and Po	wer	
1118-19-CIP	REBUILD CIRCUIT PC-22 -	MUNSON AVE	
Project Inform	nation		
Submitted By:	Karla Myers-Beman	Department:	Light and Power
Category:	Capital	Department Head:	Tim Arends

Staff Priority:

Council Priority:

Project Description: Replace deteriorated overhead/underground facilities with new wire, conduit, poles, etc to include conversion of overhead facilities to underground as appropriate.

REBUILD CIRCUIT - PC-22 - MUNSON AVENUE

Light and Power

Light and Power

REBUILD CIR	CUIT - PC-22 - MUNSON A	VENUE				1118-19-CIP-C			
Funding Sour	ces:								
		Previous	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	2024/2025	Total
LAP	Light and Power	\$0	\$0	\$0	\$0	\$370,000	\$0	\$0	\$370,000
								Project Total:	\$370,000
				COST DETAIL:					
				Study:	\$	0			
				Land Acquisition	/ ROW: \$	0			
				Engineering / Des	sign: \$	0			
				Construction:	\$	370,000		Cost Total:	\$370,000
				Annual Maint. Co	st:			Project Difference:	\$0
				Maint. Year Start:					
Service Impac	ct:								
Rebuilding circ	cuits to increase reliability o	f the system and mir	nimize the poter	tial of future mainter	nance costs.				

Imperitive (Must Do)

Project Justification:

System study

Fund Group:

Fund Detail:

Location Description:

OH Munson Avenue from Davis Street to Three Mile Rd



CLP-19-CIP	Light and	Power							
)40-19-CIP	SCADA SYSTEM UPGR	ADE							
Project Inform	nation								
Submitted By:	Karla Myers-Beman	De	partment:	Light and Po	ower Service	Project Descript	ion:		
Category:	Capital	De	partment Head:	Tim Arends		Upgrade the syst	em to allow it to int	terconnect with other relate	d
Fund Group:	Light and Power	Sta	aff Priority:	Essential (S	hould Do)	systems such as	AMI, billing, GIS, C	OMS and other technologie	S.
Fund Detail:	Light and Power	Co	uncil Priority:						
SCADA SYSTE	M UPGRADE				1	040-19-CIP-C			
Funding Source	es:								
		Previous	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	2024/2025	Tota
LAP	Light and Power	\$0	\$250,000	\$0	\$0	\$0	\$0	\$0	\$250,000
								Project Total:	\$250,000
				COST DETAIL:					
				Study:	\$0				
				Land Acquisition	/ ROW : \$0				
				Engineering / Des	sign: \$0				
				Construction:	\$2	50,000		Cost Total:	\$250,000
				Annual Maint. Co	st:			Project Difference:	\$0
				Maint. Year Start:					
Service Impact: Improve reliabilit									
Project Justifica									
Internal analysis	8								

Location Description:

1131 Hastings Street and Substations



TCLP-19-CIP

Light and Power

815-19-CIP SUBSTATION SWITCHING STATIONS

Project Information

Submitted By: Category: Fund Group: Fund Detail:	Karla Myers-Beman Capital Light and Power Light and Power	Dej Sta	Department Head: Tim Arends In Staff Priority: Imperitive (Must Do) au Council Priority: Io		addition of switch	station infrastructu	re and equipment. The allow for switching load o ased reliability.	n the	
SUBSTATION SV	WITCHING STATION					815-19-CIP-C			
Funding Sources	s: Light and Power	Previous \$0	2019/2020 \$998,000	2020/2021 \$1,200,000	2021/2022 \$0	2 022/2023 \$0	2023/2024 \$0	2024/2025 \$0	Total \$2,198,000
								Project Total:	\$2,198,000
				COST DETAIL:					
				Study:		\$0			
				Land Acquisition	ROW:	\$0			
				Engineering / Des	ign:	\$0			
				Construction:		\$2,198,000		Cost Total:	\$2,198,000
				Annual Maint. Cos	st:			Project Difference:	\$0
				Maint. Year Start:					
Service Impact: Increase system	reliability								
Project Justificat	tion:								
System study									

Location Description:

Barlow Street Substation



Light and Power TCLP-19-CIP 819-19-CIP SUBSTATION TRANSFORMER UPGRADES **Project Information** Karla Myers-Beman Light and Power Service Submitted By: Department: **Project Description:** Capital Installation of higher rated transformers as recommended by Tim Arends Category: Department Head: Engineers for system reliability due to load growth and age of Light and Power Fund Group: Imperitive (Must Do) Staff Priority: transformers. Substation Fund Detail: **Council Priority:** SUBSTATION TRANSFORMER UPGRADES 819-19-CIP-C Fu

Funding So	urces:								
		Previous	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	2024/2025	Total
LAP	Light and Power	\$0	\$0	\$0	\$0	\$775,000	\$750,000	\$0	\$1,525,000
								Project Total:	\$1,525,000
				COST DETAIL:					
				Study:	\$0)			
				Land Acquisition / F	ROW: \$)			
				Engineering / Desig	ın: \$0)			
				Construction:	\$	1,525,000		Cost Total:	\$1,525,000
				Annual Maint. Cost:	:			Project Difference:	\$0
				Maint. Year Start:					
Service Imp	act:								
Minimize the	e potential of future maintenar	nce costs.							

Project Justification:

System study

Location Description:

Cass and Parsons Road Substations



TCLP-19-CIP

Light and Power

820-19-CIP TRANSMISSION LINE RECONSTRUCTION

Project	Information
1 1 0 0 0 0	mornation

Submitted By:	Karla Myers-Beman	Dej	partment:	Light and Powe	er	Project Description	on:			
Category: Fund Group: Fund Detail:	Capital Light and Power Transmission	Sta	oartment Head: ff Priority: uncil Priority:	Tim Arends Imperitive (Mus	st Do)	Reconductor/rebuilding of existing 69kv transmission lines with new lines, higher poles and undergrounding portion of the line to bring circuits to current day standards and in compliance with FAA regulations				
TRANSMISSION	LINE RECONSTRUCTION				Q^	regulations.				
Funding Sources:					02	.0-13-011-0				
		Previous	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	2024/2025	Total	
LAP	Light and Power	\$0	\$0	\$0	\$1,500,000	\$1,500,000	\$1,045,000	\$0	\$4,045,000	
								Project Total:	\$4,045,000	
				COST DETAIL:						
				Study:	\$0					
				Land Acquisition / R	XOW: \$0					
				Engineering / Desig	n: \$0					
				Construction:	\$4,	045,000		Cost Total:	\$4,045,000	
				Annual Maint. Cost:				Project Difference:	\$0	
				Maint. Year Start:						
Service Impact: Minimize the poter	ntial of future maintenance co	osts and increas	se reliability of th	e system.						
Project Justification	on:									

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



Project Inform Submitted By: Category:	Karla Myers-Beman Capital	Dep	oartment: oartment Head:	Light and Po Tim Arends			small construction	/replacement projects of volving the use of wire, po	
Fund Group: Fund Detail:	Light and Power Light and Power		ff Priority: uncil Priority:	Imperitive (N	Aust Do)	-	and transformers.		лсэ,
UNDERGROUN	ID LINE IMPROVEMENTS					1109-19-CIP-C			
Funding Source	9 5 :	Previous	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	2024/2025	Tota
LAP	Light and Power	\$0	\$275,000	\$325,000	\$375,000	\$425,000	\$475,000	\$525,000	\$2,400,00
								Project Total:	\$2,400,00
				COST DETAIL:					
				Study:	9	60			
				Land Acquisition	/ ROW:	60			
				Engineering / Des	sign:	50			
				Construction:	9	\$2,400,000		Cost Total:	\$2,400,00
				Annual Maint. Co	st:			Project Difference:	\$
				Maint. Year Start:					
Service Impact:									
Improve reliabili	ty of the system.								

Location Description:

Entire service area.



329-19-CIP									
Project Informa									
Submitted By:	Karla Myers-Beman	Dep	partment:	Light and Po	ower	Project Descript	ion:		
Category:	Capital	Dep	partment Head:	Tim Arends				creased load and will cons	sist of
Fund Group:	Light and Power	Sta	ff Priority:	Essential (Sl	hould Do)	new conduit, wire	e and addition of e	vent outlets.	
Fund Detail:	Joint Projects	Cou	Incil Priority:						
UPGRADE FRO	NT ST LIGHTING CIRCUITS	& RECEPTACL	ES			829-19-CIP-C			
Funding Sources	S:								
		Previous	2019/2020	2020/2021	2021/2022		2023/2024	2024/2025	Tota
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 / Des	sign:	\$0			
				Construction:		\$1,340,000		Cost Total:	\$1,340,000
				Annual Maint. Co	st:			Project Difference:	\$0
				Maint. Year Start:					
Service Impact:									
	y and service to event holder	a fau that since it							

Location Description:

Downtown north and south along Front Street.



CLP-19-CIP	Light and	Power								
110-19-CIP	UTILITY BILLING SOFT	WARE (NEW)								
Proiect Inform		. ,								
Submitted By: Category: Fund Group:	Karla Myers-Beman Capital Light and Power	De	partment: partment Head: iff Priority:	Light and Po Tim Arends Imperitive (M		Th	•	billing software do	oes not have multi-speak the other software program	IS
Fund Detail:	Light and Power		uncil Priority:	inipolitive (iii		us Sy cu ins Ac	ed at Light and ystem and enginations stomer service stantaneous inf dditionally, the o	I Power to manage neering analysis. platform that prov ormation or reque current software co	e system outages, the GIS Nor does it have a suitable ides the customer sted variety of payment op ompany has been sold sev omer service with upgrades	tions. eral
UTILITY BILLIN	G SOFTWARE (NEW)					1110-19	-CIP-C			
Funding Source	es:		0040/0000	0000/0004	0004/00	~~		0000/0004	0004/0005	T .(
LAP	Light and Power	Previous \$0	2019/2020 \$0	2020/2021 \$350,000	2021/20 \$0		2022/2023 \$0	2023/2024 \$0	2024/2025 \$0	Tota \$350,000
	3 • • • • •	<i>v</i> ·	<i>v</i> ·	<i>4000,000</i>	<i>t</i> .		÷.	<i>t</i> .	Project Total:	\$350,00
				COST DETAIL:					Project rotal.	4000,00
				Study:		\$0				
				Land Acquisition	ROW:	\$0				
				Engineering / Des	ign:	\$0				
				Construction:		\$350,000)		Cost Total:	\$350,00
				Annual Maint. Cos	st:				Project Difference:	\$
				Maint. Year Start:						
Service Impact:										
Improve custome	er service									

Project Justification:

Internal analysis

Location Description:

Utility billing and Hastings Service Center



Six Year Capital Improvement Plan

Budget Year 2019-2020 by Program Name

All Projects Submitted for 2019-2020

Bold - Indicates	projects occurring in the first FY of the plan.											
+ - Indicates proj	jects with multiple funding											
Project ID		Cat	Previous	Fiscal Year 2019-2020	Fiscal Year 2020-2021	Fiscal Year 2021-2022	Fiscal Year 2022-2023	Fiscal Year 2023-2024	Fiscal Year 2024-2025	Project Cost	City Funds	Non-City Funds
arking												
1071-19-CIP	Hardy Boiler Replacement	М	\$0	\$60,000	\$0	\$0	\$0	\$0	\$0	\$60,000	\$60,000	\$0
1081-19-CIP	Hardy PTAC Units	М	\$0	\$30,000	\$0	\$0	\$0	\$0	\$0	\$30,000	\$30,000	\$0
1080-19-CIP	Hardy Tower Roof Replacement (EPDM)	М	\$0	\$30,000	\$0	\$0	\$0	\$0	\$0	\$30,000	\$30,000	\$0
545-19-CIP	Lot B Rehab	V	\$0	\$0	\$0	\$400,000	\$0	\$0	\$0	\$400,000	\$400,000	\$0
979-19-CIP	Lot C Resurfacing	М	\$0	\$0	\$80,000	\$0	\$0	\$0	\$0	\$80,000	\$80,000	\$0
980-19-CIP	Lot J Resurfacing	М	\$0	\$0	\$50,000	\$0	\$0	\$0	\$0	\$50,000	\$50,000	\$0
981-19-CIP	Lot K Resurfacing	М	\$0	\$0	\$0	\$0	\$0	\$30,000	\$0	\$30,000	\$30,000	\$0
708-19-CIP	Lot O Remediation	М	\$0	\$0	\$0	\$430,000	\$0	\$0	\$0	\$430,000	\$430,000	\$0
982-19-CIP	Lot T Resurfacing	М	\$0	\$0	\$0	\$200,000	\$0	\$0	\$0	\$200,000	\$200,000	\$0
1082-19-CIP	Old Town Battery Backup Convert to Generator	М	\$0	\$0	\$50,000	\$0	\$0	\$0	\$0	\$50,000	\$50,000	\$0
1072-19-CIP	Old Town Boiler Replacement	М	\$0	\$0	\$0	\$0	\$0	\$80,000	\$0	\$80,000	\$80,000	\$0
1059-19-CIP	Old Town Garage LED Light Conversion	М	\$0	\$0	\$0	\$0	\$100,000	\$0	\$0	\$100,000	\$100,000	\$0
1083-19-CIP	Old Town PTAC Units	М	\$0	\$0	\$0	\$0	\$0	\$50,000	\$0	\$50,000	\$50,000	\$0
645-19-CIP	West Front St Redevelopment (BOND)	V	\$0	\$0	\$0	\$1,000,000	\$1,000,000	\$1,000,000	\$1,000,000	\$4,000,000	\$4,000,000	\$0
tal Parking			\$0	\$120,000	\$180,000	\$2,030,000	\$1,100,000	\$1,160,000	\$1,000,000	\$5,590,000	\$5,590,000	\$0



ARKING-19-CIP	Parking								
)71-19-CIP	Hardy Boiler Replacement								
Project Inform	ation								
Submitted By:	Nicole VanNess	D	epartment:	Parking Serv	vices	Project Descript	ion:		
Category:	Maintenance	D	epartment Head:	Jean Derenz	zy.	-		oiler life is 10 years. 3 boile	
Fund Group:	Traverse City Parking Syste	em St	taff Priority:			onsite. 1 boiler r for replacement.	eplaced in 2018. 2	boilers need to be scheduled	ł
Fund Detail:	Parking System	C	ouncil Priority:			tor replacement.			
Hardy Boiler Rep						1071-19-CIP-C			
Funding Source	s:	Previous	2019/2020	2020/2021	2021/2022	2 2022/2023	2023/2024	2024/2025	Tota
APS	Parking System	\$0	\$60,000	\$0	\$0	\$0	\$0	\$0	\$60,00
								Project Total:	\$60,00
				COST DETAIL:					
				Study:		\$0			
				Land Acquisition	/ ROW:	\$0			
				Engineering / Des	ign:	\$0			
				Construction:		\$60,000		Cost Total:	\$60,00
				Annual Maint. Co	st:			Project Difference:	\$
				Maint. Year Start:		1905			
Service Impact:									
None.									
Project Justifica	tion:								
Ensure operation	nal snow melt								

Hardy Parking Garage 303 East State Street.



Parking									
Hardy PTAC Units									
ation									
Nicole VanNess Maintenance		-	-			•		Parking Garage	
Traverse City Parking Syste		-		-					
Parking System		-	· ·	,					
ts - Cost					1081-1	19-CIP-C			
s:	Previous	2019/2020	2020/2021	2021/202	22	2022/2023	2023/2024	2024/2025	Total
Parking System	\$0	\$30,000	\$0	\$0		\$0	\$0	\$0	\$30,000
								Project Total:	\$30,000
			COST DETAIL:						
			Study:		\$0				
			Land Acquisition	/ ROW:	\$0				
			Engineering / Des	ign:	\$0				
			Construction:		\$30,000	0		Cost Total:	\$30,000
			Annual Maint. Co	st:				Project Difference:	\$0
			Maint. Year Start:		1905				
ct									
tion:									
nent, equipment at end of life									
	Hardy PTAC Units ation Nicole VanNess Maintenance Traverse City Parking System s - Cost s: Parking System tt	Hardy PTAC Units ation Nicole VanNess De Maintenance De Traverse City Parking System St Parking System Cc s - Cost s: Previous Parking System \$0	Hardy PTAC Units ation Nicole VanNess Maintenance Traverse City Parking System Parking System Parking System N	Hardy PTAC Units ation Nicole VanNess Maintenance Traverse City Parking System Pa	Hardy PTAC Units ation Nicole VanNess Maintenance Traverse City Parking System Parking System S - Cost s: Previous 2019/2020 2020/2021 2021/20 Parking System \$0 \$0 \$30,000 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	Hardy PTAC Units ation Nicole VanNess Maintenance Pervious Parking System S0 S0 COST DETAIL: Study: S0 Construction: Const	Hardy PTAC Units ation Nicole VanNess Department: Department Head: Departm	Hardy PTAC Units Ation Nicole VanNess Department: Parking Services Project Description: Maintenance Department Head: Jean Derenzy Replace all PTAC units at the Hardy Traverse City Parking System Staff Priority: Essential (Should Do) Replace all PTAC units at the Hardy s - Cost 1081-19-CIP-C s: Previous 2019/2020 2020/2021 2021/2022 2022/2023 2023/2024 Parking System \$0 \$30,000 \$0 \$0 \$0 \$0 \$0 Parking System \$0 \$30,000 \$0 \$0 \$0 \$0 \$0 Parking System \$0 \$30,000 \$0 \$0 \$0 \$0 \$0 Parking System \$0 \$30,000 \$0 \$0 \$0 \$0 \$0 Parking System \$0 \$30,000 \$0 \$0 \$0 \$0 \$0 Cost DETAIL: Study: \$0 \$0 \$0 \$0 \$0 \$0 Construction: \$00.000 Annual Maint. Cost:	Hardy PTAC Units Parking Services Parking Services Project Description: Maintenance Department Head: Jean Derenzy Replace all PTAC units at the Hardy Parking Garage Parking System Staff Priority: Council Priority: Council Priority: Council Priority: s

Location Description:

Hardy Parking Garage, 303 E State Street



RKING-19-CIP	Parking									
80-19-CIP	Hardy Tower Roof Replac	ement (EPD	DM)							
Project Informa	ation									
Submitted By: Category: Fund Group: Fund Detail:	Nicole VanNess Maintenance Traverse City Parking Syst Parking System	De tem Sta	partment: partment Head: aff Priority: puncil Priority:	Parking Sen Jean Derenz Imperitive (N	zy			tower roofs (NE co	rner, SE corner, and SW o come from Hardy Fund	
Hardy Tower Roc	of Replacement (EPDM) - Cost					1080	0-19-CIP-C			
Funding Sources	s:	Previous	2019/2020	2020/2021	2021/20	22	2022/2023	2023/2024	2024/2025	Tota
APS	Parking System	\$0	\$30,000	\$0	\$0		\$0	\$0	\$0	\$30,000
									Project Total:	\$30,000
				COST DETAIL:						
				Study:		\$0				
				Land Acquisition	/ ROW:	\$0				
				Engineering / Des	sign:	\$0				
				Construction:		\$30,0	000		Cost Total:	\$30,000
				Annual Maint. Co	st:				Project Difference:	\$0
				Maint. Year Start:		1905	5			

Project Justification:

Routine building maintenance.

Location Description:

Hardy Parking Garage, 303 E State Street



ARKING-19-CIP	Parking								
15-19-CIP	Lot B Rehab								
Project Inform	ation								
Submitted By:	Nicole VanNess	De	partment:	Parking Serv	/ices	Project Descrip	tion:		
Category:	Visionary	De	partment Head:	Jean Derenz	<u>y</u>	Reconstruct Lot	B per Farmers Mark	ket Plan. Could include th	e
Fund Group:	Traverse City Parking Sy	stem Sta	aff Priority:	Important (C	ould Do)	replacement of r	neters with pay stati	ons.	
Fund Detail:	Parking System	Co	ouncil Priority:						
Lot B Rehab - Co	ost					545-19-CIP-C			
Funding Source	s:	Previous	2019/2020	2020/2021	2021/202	2 2022/2023	2023/2024	2024/2025	Total
APS	Parking System	\$0	\$0	\$0	\$400,000		\$0	\$0	\$400,000
								Project Total:	\$400,000
				COST DETAIL:					
				Study:		\$0			
				Land Acquisition	/ ROW:	\$0			
				Engineering / Des	ign:	\$0			
				Construction:		\$400,000		Cost Total:	\$400,000
				Annual Maint. Cos	st:	\$2,500		Project Difference:	\$0
				Maint. Year Start:		1905			
Service Impact:									
Stop patches and	d replace lot.								

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

Location Description:

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



RKING-19-CIP	Parking										
9-19-CIP	Lot C Resurfacing										
Project Inform	ation										
Submitted By:	Nicole VanNess		partment:	Parking Services Jean Derenzy			Project Description: Resurface Lot C, which serves Clinch Park and downtown				
Category:MaintenanceFund Group:Traverse City Parking System		De	partment Head:								
		stem Staff Priority:		Essential (Should Do)			businesses				
Fund Detail:	Parking System	Co	ouncil Priority:								
Lot C Resurfaci	ng - Cost					979-	-19-CIP-C				
Funding Source	es:										
		Previous	2019/2020	2020/2021	2021/2	022	2022/2023	2023/2024	2024/2025	Total	
APS	Parking System	\$0	\$0	\$80,000	\$0		\$0	\$0	\$0	\$80,000	
									Project Total:	\$80,000	
				COST DETAIL:							
				Study:		\$0					
				Land Acquisition	/ ROW:	\$0					
				Engineering / Des	ign:	\$0					
		Construction:		\$80,0	000		Cost Total:	\$80,000			
				Annual Maint. Cost:					Project Difference:	\$0	
				Maint. Year Start:		1905	5				
Service Impact:											
Stop patches an	d replace lot.										

Project Justification:

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

Location Description:

200 E. Grandview Pkwy



ARKING-19-CIP	Parking										
0-19-CIP	Lot J Resurfacing										
Project Inform	ation										
Submitted By:	Nicole VanNess		epartment:	Parking Services Jean Derenzy			Project Description: Resurface Lot J, which serves the Union Street Dam area.				
Category:	Maintenance		epartment Head:								
Fund Group: Traverse City Parking Sys		/stem St	aff Priority:	Essential (Should Do)							
Fund Detail:	Parking System	Co	ouncil Priority:								
Lot J Resurfacin	g - Cost					980	-19-CIP-C				
Funding Source	es:	Previous	2019/2020	2020/2021	2021/2	022	2022/2023	2023/2024	2024/2025	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: Engineering / Design:		ROW:	\$0							
			\$0	\$0							
		Construction:		\$50,0	000		Cost Total:	\$50,000			
				Annual Maint. Cos	st:				Project Difference:	\$0	
				Maint. Year Start:		190	5				
Service Impact:											
Stop patches an	d replace lot.										

Project Justification:

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

Location Description:

300 S. Union/Union Street Dam



ARKING-19-CIP	Parking								
81-19-CIP	Lot K Resurfacing								
Project Inform	ation								
Submitted By:	Nicole VanNess	Dej	partment:	Parking Serv	vices	Project Descript	ion:		
Category:	Maintenance	Dej	partment Head:	Jean Derenz	y	Add approximate	ly 8 parking spaces	east of existing Lot K if Ci	ty is
Fund Group:	Traverse City Parking Syster	n Sta	ff Priority:	Essential (SI	nould Do)			Energy Property just north	h of
Fund Detail:	Parking System	Co	uncil Priority:			the Union Street	Dam		
Lot K resurfacing	g- Cost					981-19-CIP-C			
Funding Source		Previous	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	2024/2025	Tota
APS		\$0	\$0	\$0	\$0	\$0	\$30,000	\$0	\$30,000
74 0		φυ	ψυ	φθ	ΨΟ	ψυ	<i>\\</i> 00,000	·	
								Project Total:	\$30,000
				COST DETAIL:					
				Study:	4	60			
				Land Acquisition	/ ROW: \$	60			
				Engineering / Des	ign: 🖇	60			
				Construction:	9	30,000		Cost Total:	\$30,000
				Annual Maint. Cos	st:			Project Difference:	\$0
				Maint. Year Start:		1905			
Service Impact:									
None.									
Project Justifica	ation:								
Maintenance									
Location Descri	ption:								

North of Union Street Dam



ARKING-19-CIP	Parking									
)8-19-CIP	Lot O Remediation									
Project Inform	ation									
Submitted By:	Nicole VanNess	De	partment:	Parking Serv	vices		Project Descript	on:		
Category:	Maintenance	De	partment Head:	Jean Derenz	zy		Mitigation of cont	amination that likel	y is affecting adjacent pro	perties
Fund Group:	Traverse City Parking Sys	stem Sta	ff Priority:	Important (C	ould Do)		and the water tak	le in close proximi	ty to the Boardman River.	
Fund Detail:	Parking System	Co	uncil Priority:				Five underground contributing to so	-	st at Lot O and likely are	
Lot O Remediation	on - Cost					708	3-19-CIP-C			
Funding Source	s:									
		Previous	2019/2020	2020/2021	2021/2		2022/2023	2023/2024	2024/2025	Tota
APS	Parking System	\$0	\$0	\$0	\$430,0	00	\$0	\$0	\$0	\$430,00
									Project Total:	\$430,00
				COST DETAIL:						
				Study:		\$0				
				Land Acquisition	/ ROW:	\$0				
				Engineering / Des	sign:	\$0				
				Construction:		\$430	0,000		Cost Total:	\$430,00
				Annual Maint. Co	st:				Project Difference:	\$
				Maint. Year Start:		190	5			
Service Impact: Stop patches and	d 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.



enance erse City Parking System	Department: Department Head: Staff Priority: Council Priority:	Parking Services Jean Derenzy Essential (Shoul		Project Description Resurface Lot T	n:		
enance erse City Parking System	Department Head: Staff Priority:	Jean Derenzy		•	n:		
enance erse City Parking System	Department Head: Staff Priority:	Jean Derenzy		•	n:		
			98	2-19-CIP-C			
Previous		2020/2021	2021/2022	2022/2023	2023/2024	2024/2025	Tota
ystem \$0	\$0	\$0	\$200,000	\$0	\$0	\$0	\$200,000
		COST DETAIL:				Project Total:	\$200,000
		Study:	\$0				
		Land Acquisition / RC	w : \$0				
		Engineering / Design:	\$0				
		Construction:	\$20	00,000		Cost Total:	\$200,000
		Annual Maint. Cost:				Project Difference:	\$0
		Maint. Year Start:	19	05			
ot							
			COST DETAIL: Study: Land Acquisition / RO Engineering / Design: Construction: Annual Maint. Cost: Maint. Year Start:	COST DETAIL:Study:\$0Land Acquisition / ROW:\$0Engineering / Design:\$0Construction:\$20Annual Maint. Cost:\$20Maint. Year Start:190	COST DETAIL:Study:\$0Land Acquisition / ROW:\$0Engineering / Design:\$0Construction:\$200,000Annual Maint. Cost:\$200,000Maint. Year Start:1905	COST DETAIL:Study:\$0Land Acquisition / ROW:\$0Engineering / Design:\$0Construction:\$200,000Annual Maint. Cost:Maint. Year Start:1905	Project Total:COST DETAIL:Study:\$0Land Acquisition / ROW:\$0Engineering / Design:\$0Construction:\$200,000Cost Total:Annual Maint. Cost:Project Difference:Maint. Year Start:1905

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

Location Description:

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



ARKING-19-CIP	Parking									
082-19-CIP	Old Town Battery Backu	p Convert to	Generator							
Project Informa	ation									
Submitted By:	Nicole VanNess	De	partment:	Parking Serv	vices	F	Project Descripti	on:		
Category:	Maintenance		partment Head:	Jean Derenz	y	F	Replace battery b	ackup system with	a natural gas powered	
Fund Group:	Traverse City Parking Sy	stem St	aff Priority:	Important (C	ould Do)	ę	generator			
Fund Detail:	Parking System	Co	ouncil Priority:							
Old Town Battery	Backup Convert to Generato	r - Cos				1082-	19-CIP-C			
Funding Sources	s:									
		Previous	2019/2020	2020/2021	2021/202	22	2022/2023	2023/2024	2024/2025	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 / Des	ign:	\$0				
				Construction:		\$50,00	0		Cost Total:	\$50,000
				Annual Maint. Cos	st:			I	Project Difference:	\$0
				Maint. Year Start:		1905				
Service Impact:										
Failure of battery	backup system could result in	n tailure of eme	ergency lighting, i	noperable equipme	nt, and inope	erable ele	vators			

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



ARKING-19-CIP	<u>Parking</u>								
072-19-CIP	Old Town Boiler Replacen	nent							
Project Inform	ation								
Submitted By:	Nicole VanNess	De	epartment:	Parking Serv	ices	Project Descript	on:		
Category:	Maintenance		epartment Head:	Jean Derenz	у	•	nal to 2009 install.	Boiler life is 10 years. 3 boilers	3
Fund Group:	Traverse City Parking Syst	em Sta	aff Priority:			onsite.			
Fund Detail:	Parking System	Co	ouncil Priority:						
Old Town Boiler	Replacement-C				•	1072-19-CIP-C			
Funding Source	s:								
4.50		Previous	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	2024/2025	Total
APS	Parking System	\$0	\$0	\$0	\$0	\$0	\$80,000	\$0	\$80,000
								Project Total:	\$80,000
				COST DETAIL:					
				Study:	\$	0			
				Land Acquisition					
				Engineering / Des	ign: \$	0			
				Construction:	\$	80,000		Cost Total:	\$80,000
				Annual Maint. Cos	st:			Project Difference:	\$0
				Maint. Year Start:	1	905			
Service Impact:									
None.	4°								
Project Justifica Ensure operatior									
Ensure operation									

Location Description:

Old Town Parking Garage, 125 E. Eighth St.



RKING-19-CIP	Parking								
59-19-CIP	Old Town Garage LED L	ight Convers	ion						
Project Inform	ation								
Submitted By:	Nicole VanNess	De	epartment:	Parking Serv	/ices	Project Descript	ion:		
Category:	Maintenance	De	epartment Head:	Jean Derenz	хy	Concert lighting t	o LED in order to r	educe lighting costs and re	epairs.
Fund Group:	Traverse City Parking Sy	stem St	aff Priority:						
Fund Detail:	Parking System	Co	ouncil Priority:						
Old Town Garage	e LED Light Conversion-Cost					1059-19-CIP-C			
Funding Source	s:	Durations	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	2024/2025	Tota
APS	Parking System	Previous \$0	\$0 \$0	\$0	\$0	\$100,000	2023/2024 \$0	\$0	\$100,00
AI 0	r arking bystem	φΟ	φU	φυ	ΦΟ	\$100,000	φυ		
								Project Total:	\$100,00
				COST DETAIL:					
				Study:	:	50			
				Land Acquisition	/ ROW:	50			
				Engineering / Des	ign:	60			
				Construction:	:	\$100,000		Cost Total:	\$100,00
				Annual Maint. Cos	st:			Project Difference:	\$
				Maint. Year Start:		1905			
Service Impact:									
Lighting swap ou	it may reduce lighting on some	e levels as con	version is taking p	lace over replacem	nent period.				

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

Location Description:

125 E. Eighth Street. Old Town Garage



ARKING-19-CIP	Parking								
083-19-CIP	Old Town PTAC Units								
Project Inform	nation								
Submitted By: Category: Fund Group: Fund Detail:	Nicole VanNess Maintenance Traverse City Parking Syst Parking System	De tem St	epartment: epartment Head: aff Priority: ouncil Priority:	Parking Ser Jean Deren Essential (S	zy	•		wn Parking Garage. wn Fund 585-587	
Old Town PTAC						1083-19-CIP-C			
Funding Source	es:	Previous	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	2024/2025	Total
APS	Parking System	\$0	\$0	\$0	\$0	\$0	\$50,000	\$0	\$50,000
				COST DETAIL:				Project Total:	\$50,000
				Study:	Ş	\$O			
				Land Acquisition		50 50			
				Engineering / Des	5	\$O			
				Construction:	Ş	\$50,000		Cost Total:	\$50,000
				Annual Maint. Co				Project Difference:	\$0
				Maint. Year Start:		1905			
Service Impact: No impact, equi	pment replacement								
Project Justifica	ation:								
Routine equipme	ent replacement for end of life ed	quipment.							

Location Description:

Old Town Parking Garage, 125 E Eighth Street



RKING-19-CIP	Parking									
5-19-CIP	West Front St Redevelop	ment (BOND)							
Project Informa	ation									
Submitted By:	Jean Derenzy	Dej	partment:	Parking Serv	vices		Project Description	on:		
Category:	Visionary	Dej	partment Head:	Jean Derenz	y		Build an approxim	ately 410 space p	arking deck to serve the	west
Fund Group:	Tax Increment Financing	Sta	ff Priority:	Essential (Sl	nould Do)		side of downtown	This project is a b	oond.	
Fund Detail:	TIF 97	Co	uncil Priority:							
West Front St Re	edevelopment (BOND) - Cost					645	-19-CIP-C			
Funding Sources	s:	Previous	2019/2020	2020/2021	2021/20	22	2022/2023	2023/2024	2024/2025	Total
TIF97	TIF 97	\$0	\$0	\$0	\$1,000,0		\$1,000,000	\$1,000,000	\$1,000,000	\$4,000,000
		• -	, -		, ,,			· ,,	Project Total:	\$4,000,000
				COST DETAIL:					i rojoot rotali	+ 1,000,000
				Study:		\$0				
				Land Acquisition	/ ROW:	\$0				
				Engineering / Des	ign:	\$1,0	50,000			
				Construction:	-	\$10,	300,000		Cost Total:	\$11,350,000
				Annual Maint. Co	st:	\$220	0,000		Project Difference:	\$-7,350,000
				Maint. Year Start:		190	5			
Service Impact: Estimated annual	I maintenance of \$220,000									

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 2019-2020

Budget Year 2019-2020 by Program Name

Bold - Indicates	projects occurring in the first FY of the plan.											
+ - Indicates pro	jects with multiple funding											
				Fiscal Year	Project	City	Non-City					
Project ID		Cat	Previous	2019-2020	2020-2021	2021-2022	2022-2023	2023-2024	2024-2025	Cost	Funds	Funds
Parks												
+ 928-19-CIP	American Legion Park Improvements	V	\$0	\$0	\$0	\$150,000	\$0	\$0	\$0	\$150,000	\$35,000	\$115,000
+ 306-19-CIP	Ashton Park Playground	V	\$0	\$0	\$0	\$0	\$30,000	\$0	\$0	\$30,000	\$15,000	\$15,000
+ 539-19-CIP	Boon Street Park Playground Improvements	V	\$0	\$0	\$58,000	\$0	\$0	\$0	\$0	\$58,000	\$50,000	\$8,000
+ 26-19-CIP	Bryant Park Improvements	V	\$0	\$15,000	\$50,000	\$145,000	\$0	\$0	\$0	\$210,000	\$95,000	\$115,000
1090-19-CIP	Franklin Street Promenade	С	\$0	\$0	\$0	\$0	\$0	\$79,500	\$0	\$79,500	\$79,500	\$0
3-19-CIP	Hannah Park improvements	V	\$80,000	\$65,000	\$0	\$0	\$0	\$0	\$0	\$145,000	\$65,000	\$80,000
+ 309-19-CIP	Indian Woods Playground	V	\$0	\$120,000	\$0	\$0	\$0	\$0	\$0	\$120,000	\$50,000	\$70,000
	Mini Park Upgrade and East Downtown Entrance	V	\$0	\$0	\$0	\$0	\$0	\$55,000	\$0	\$55,000	\$30,000	\$25,000
785-19-CIP	Natural Features Inventory (Planning Commission)	V	\$0	\$0	\$20,000	\$0	\$0	\$0	\$0	\$20,000	\$20,000	\$0
684-19-CIP	Park Sign Replacement	М	\$0	\$30,000	\$30,000	\$0	\$0	\$0	\$0	\$60,000	\$60,000	\$0
+ 543-19-CIP	Rose and Boyd Triangle Park (Jupiter Gardens)	V	\$0	\$10,000	\$50,000	\$0	\$0	\$0	\$0	\$60,000	\$30,000	\$30,000
+ 602-19-CIP	Senior Center -Bayfront Plan	V	\$0	\$0	\$0	\$0	\$0	\$0	\$161,888	\$161,888	\$0	\$161,888
+ 926-19-CIP	Senior Citizen Park Improvements	V	\$0	\$0	\$0	\$0	\$0	\$0	\$75,000	\$75,000	\$35,000	\$40,000
+ 927-19-CIP	Sunset Park Improvements	V	\$0	\$0	\$0	\$0	\$250,000	\$0	\$0	\$250,000	\$100,000	\$150,000
+ 1020-19-CIP	West End Beach Bathhouse Project	V	\$0	\$0	\$100,000	\$283,000	\$0	\$0	\$0	\$383,000	\$163,000	\$220,000
Total Parks			\$80,000	\$240,000	\$308,000	\$578,000	\$280,000	\$134,500	\$236,888	\$1,857,388	\$827,500	\$1,029,888



PARK-19-CIP

Project Information

<u>Parks</u>

928-19-CIP	American Legion Park Improvements

i iolect illioillia									
Submitted By:	Derek Melville	Dep	artment:	Department of	f Public Service	es Project Descripti	on:		
Category:	Visionary	Dep	artment Head:	Frank Dituri		The improvement	ts to American Legio	on Park could include terr	acing
Fund Group:	General	Staf	f Priority:	Important (Co	uld Do)		•	o make it more usable for	0
Fund Detail:	Parks & Rec	Cou	ncil Priority:		opportunities. Landscap Id also be important.	ing			
American Legion	Park Improvements (+Grant - 0	Cost			ç	928-19-CIP-C			
Funding Sources	:								
		Previous	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	2024/2025	Total
BBTP	Brown Bridge Trust Parks	\$0	\$0	\$0	\$35,000	\$0	\$0	\$0	\$35,000
LFG	Local / Foundation Grant	\$0	\$0	\$0	\$65,000	\$0	\$0	\$0	\$65,000
Р	Private	\$0	\$0	\$0	\$50,000	\$0	\$0	\$0	\$50,000
								Project Total:	\$150,000
				COST DETAIL:					
				Study:	\$0)			
				Land Acquisition /	ROW: \$0)			
				Engineering / Desig	gn: \$´	10,000			
				Construction:	\$	140,000		Cost Total:	\$150,000
				Annual Maint. Cost	t: \$ [·]	1,000		Project Difference:	\$0
				Maint. Year Start:	1	905			

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



ARK-19-CIP	Parks								
06-19-CIP	Ashton Park Playground								
Project Inforn	nation								
Submitted By:	Derek Melville	Dep	partment:	Department	of Public Servic	es Project D	escription:		
Category:	Visionary	Dep	artment Head:	Frank Dituri		Replace e	existing play equipment	with small structure designed	l for
Fund Group:	General	Sta	ff Priority:	Essential (Sl	hould Do)			ucture for older children is	
Fund Detail:	Parks & Rec	Cou	Incil Priority:					y School. The new equipment A accessibility standards.	nt
Ashton Park Pla	ayground - Cost					306-19-CIP-C			
Funding Source	es:								
		Previous	2019/2020	2020/2021	2021/2022	2022/2	023 2023/2024	2024/2025	Total
BBTP	Brown Bridge Trust Parks	\$0	\$0	\$0	\$0	\$15,00	0 \$0	\$0	\$15,000
Р	Private	\$0	\$0	\$0	\$0	\$15,00	0 \$0	\$0	\$15,000
								Project Total:	\$30,000
				COST DETAIL:					
				Study:	9	0			
				Land Acquisition	/ ROW: \$	0			
				Engineering / Des	sign: 🖇	0			
				Construction:	\$	30,000		Cost Total:	\$30,000
				Annual Maint. Co	st: 🧣	500		Project Difference:	\$0
				Maint. Year Start:		1905			
Service Impact	:								
Minor impacts for	or City Parks operations. Annua	ly wood chips	will need to be s	spread.					

Project Justification:

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

Location Description:

1200 Wayne Street



PARK-19-CIP	Parks								
539-19-CIP	Boon Street Park Playg	round Improve	ements						
Project Inform	nation								
Submitted By:	Derek Melville	Dep	partment:	Department	of Public Service	S Project Descript	ion:		
Category:	Visionary	Dep	partment Head:	Frank Dituri		This neighborhoo	od park has a mixtu	re of thirty year old and old	der
Fund Group:	General	Sta	ff Priority:	Essential (S	hould Do)			nent should be replaced, a	
Fund Detail:	Parks & Rec	Cou	uncil Priority:					nd the trail should have de e fines) to improve access	
Boon Street Par	k Playground Improvements	- Cost			5	39-19-CIP-C			
Funding Source	es:								
		Previous	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	2024/2025	Total
BBTP	Brown Bridge Trust Parks	\$0	\$0	\$50,000	\$0	\$0	\$0	\$0	\$50,000
Р	Private	\$0	\$0	\$8,000	\$0	\$0	\$0	\$0	\$8,000
								Project Total:	\$58,000
				COST DETAIL:					
				Study:	\$C)			
				Land Acquisition	/ ROW: \$0)			
				Engineering / Des	sign: \$3	3,000			
				Construction:	\$5	55,000		Cost Total:	\$58,000
				Annual Maint. Co	st: \$1	,000		Project Difference:	\$0
				Maint. Year Start:	1	905			
Service Impact:									

Service Impact:

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

Project Justification:

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

Location Description:

925 Boon Street



PARK-19-CIP	Parks									
26-19-CIP	Bryant Park Improvement	ts								
Project Inform	nation									
Submitted By:	Lauren Vaughn	Dej	partment:	Department	of Public Servic	es Project l	Descriptio	on:		
Category:	Visionary	Dej	partment Head:	Frank Dituri		Bryant P	Park is one	of the most utilize	d parks in the City, so it I	nas
Fund Group:	General	Sta	ff Priority:	Essential (S	hould Do)				pdating the bathhouse, a	
Fund Detail:	Parks & Rec	Co	uncil Priority:			mini pav will grea area dur	rilions and tly reduce ring the late	grills are desired. the amount of san e fall to early sprin	ating small picnic ares wi Additionally, a retaining v id that blows up into the t g period. It will also help nrinking of the turf areas.	vall turf to stop
Bryant Park Imp	provements					26-19-CIP-C				
Funding Source	es:									
		Previous	2019/2020	2020/2021	2021/2022	2022/	2023	2023/2024	2024/2025	Tota
BBTP	Brown Bridge Trust Parks	\$0	\$0	\$0	\$95,000	\$0		\$0	\$0	\$95,000
FSG	Federal / State Grant	\$0	\$0	\$50,000	\$50,000	\$0		\$0	\$0	\$100,000
LFG	Local / Foundation Grant	\$0	\$15,000	\$0	\$0	\$0		\$0	\$0	\$15,000
									Project Total:	\$210,000
				COST DETAIL:						
				Study:	5	60				
				Land Acquisition	/ ROW:	50				
				Engineering / Des	sign:	\$15,000				
				Construction:	S	\$195,000			Cost Total:	\$210,000
				Annual Maint. Co	st:	\$2,000			Project Difference:	\$0
				Maint. Year Start:		1905				

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



ARK-19-CIP	Parks									
)90-19-CIP	Franklin Street Promenade									
Project Inform	ation									
Submitted By:	Russ Soyring	Dep	partment:	Planning and	d Zoning		Project Descripti	on:		
Category:	Capital	Dep	partment Head:	Russ Soyring	g		Phase 1: An exte	nsion of Franklin S	treet as a promenade to co	onnect
Fund Group:	General	Sta	ff Priority:	Important (C	ould Do)				Boardman Lake. To do thi	-
Fund Detail:	Parks & Rec	Coi	uncil Priority:					noving security gate ng security fencing	es for the wastewater treat	iment
							street ending sho amenities.		klin Street is reconstructed shared street with pedesti	,
Franklin Street P						1090-	19-CIP-C			
Funding Source	s:					_				
		Previous	2019/2020	2020/2021	2021/2022	2	2022/2023	2023/2024	2024/2025	Total
GEN	General Fund	\$0	\$0	\$0	\$0		\$0	\$79,500	\$0	\$79,500
									Project Total:	\$79,500
				COST DETAIL:						
				Study:		\$0				
				Land Acquisition		\$0				
				Engineering / Des	ign:	\$0				
				Construction:		\$79,50	00		Cost Total:	\$79,500
				Annual Maint. Co	st:				Project Difference:	\$0
				Maint. Year Start:						
Service Impact:										
	impact due to landscaping, lighti	ng.								
Project Justifica										
Envision 8th Mas										

Location Description:

Extension of the 500 block of Franklin to Boardman Lake



PARK-19-CIP	<u>Parks</u>								
3-19-CIP	Hannah Park improvem	ents							
Project Inform	nation								
Submitted By:	Derek Melville	De	epartment:	Department	of Public Servic	es Project Descript	ion:		
Category:	Visionary	D	epartment Head:	Frank Dituri				6' path where an informal	
Fund Group:	Brown Bridge Trust Park	s Impro St	taff Priority:	Essential (S	hould Do)			s. Decorative lights will re gation system improvement	•
Fund Detail:	Parks & Rec	C	ouncil Priority:					ehicles/pedestrians comin	
						the park from Ur	ion Street.		
	nprovements (+Private +BBTF) - Cost				3-19-CIP-C			
Funding Source	es:	Drevieve	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	2024/2025	Total
BBTP	Brown Bridge Trust Parks	Previous \$0		\$0	\$0	\$0	2023 /2024 \$0	\$0	\$65,000
Р	Private		\$65,000 ©0			·			
P	Privale	\$80,000	\$0	\$0	\$0	\$0	\$0	\$0	\$80,000
								Project Total:	\$145,000
				COST DETAIL:					
				Study:	\$	0			
				Land Acquisition	/ ROW: \$	0			
				Engineering / Des	sign: \$	2,000			
				Construction:	\$	63,000		Cost Total:	\$65,000
				Annual Maint. Co	st: \$	1,000		Project Difference:	\$80,000
				Maint. Year Start:		905			
Comiles Immedi									

Service Impact:

Annually the Parks Department will have to provide maintenance to the trail and will have to maintain the irrigation system.

Project Justification:

The project will provide a minor face lift for Hannah Park and will increase bike user and pedestrian user access through the park and also increase user safety. The drive into the park will help prevent future erosion and maintenance issues.

Location Description:

200 6th Street



PARK-19-CIP	Parks								
309-19-CIP	Indian Woods Playground								
Project Inform	nation								
Submitted By:	Lauren Vaughn		partment:		of Public Service	,	•		
Category: Fund Group: Fund Detail:	Visionary General Parks & Rec	Sta	partment Head: Iff Priority: uncil Priority:	Frank Dituri Essential (Sł	hould Do)	new structure standards. So	that would meet curre ome of the existing play	ing play equipment with a nt safety and ADA access / pieces could remain as t ast 15 years. Additionally	ibility hey
						between the sidewalk or tr	upper and lower tiers o	ke to have a connection f the park, possibly throug an improved picnic area	•
	Playground - Cost				3	809-19-CIP-C			
Funding Sourc	es:	D	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	2024/2025	Total
FSG	Federal / State Grant	Previous \$0	\$60,000	\$0	\$0	\$0	\$0	2024/2025 \$0	\$60,000
GEN	General Fund	\$0 \$0	\$60,000 \$50,000	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$50,000 \$50,000
P	Private	\$0 \$0	\$30,000 \$10,000	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$30,000 \$10,000
,	Tilvate	φυ	\$10,000	φU	φυ	φΟ	φυ	·	
								Project Total:	\$120,000
				COST DETAIL:					
				Study:	\$0				
				Land Acquisition	/ ROW: \$0)			
				Engineering / Des	ign: \$	10,000			
				Construction:	\$	10,000		Cost Total:	\$120,000
				Annual Maint. Cos	st: \$*	1,000		Project Difference:	\$0
				Maint. Year Start:	1	905			
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



72-19-CIP	Mini Park Upgrade and	East Downtow	n Entrance						
Project Inform	nation								
Submitted By:	Lauren Vaughn	Dep	artment:	Department	of Public Service	S Project Description	ion:		
Category:	Visionary	Dep	artment Head:	Frank Dituri		Improvements to	Mini Park at the cor	mer of East Front Street and	ť
Fund Group:	General	Sta	ff Priority:	Important (C	ould Do)		•	ocal point for the entrance to	
Fund Detail:	Parks & Rec	Сог	Incil Priority:			•	vements should inc dian" plaza and lanc	lude lighting, reworked trails Iscaping updates.	;
Mini Park Upgra	ade and East Downtown Entra	n - Cost			ç	72-19-CIP-C			
Funding Source	es:								
		Previous	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	2024/2025	Tota
BBTP	Brown Bridge Trust Parks	\$0	\$0	\$0	\$0	\$0	\$25,000	\$0	\$25,000
GEN	General Fund	\$0	\$0	\$0	\$0	\$0	\$5,000	\$0	\$5,000
Р	Private	\$0	\$0	\$0	\$0	\$0	\$25,000	\$0	\$25,000
								Project Total:	\$55,000
				COST DETAIL:					
				Study:	\$0)			
				Land Acquisition	/ ROW: \$0)			
				Engineering / Des	sign: \$´	0,000			
				Construction:	\$4	5,000		Cost Total:	\$55,000
				Annual Maint. Co	st: \$´	,000		Project Difference:	\$0
				Maint. Year Start:	1	905			

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



5-19-CIP	Natural Features Invento	ry (Planning	Commission)						
		iy (i lanning	Commission						
Project Inform	ation								
Submitted By:	Russ Soyring	Dej	partment:	Planning and	l Zoning	Project Descript	ion:		
Category:	Visionary	Dej	partment Head:	Russ Soyring	9	Conduct an exter	nsive Natural Featu	ires Inventory (NFI), includi	ing
Fund Group:	General	Sta	ff Priority:	Important (Co	ould Do)			nd water quality to establish	
Fund Detail:	Parks & Rec	Co	uncil Priority:				• • •	After the completion of the l ds can be developed. Curr	
							•	collected as part of the SA	•
						grant.			
	s Inventory (Planning) - Cost					785-19-CIP-C			
Funding Source	s:		0040/0000	0000/0004	0004/0000	0000/0000	0000/0004	0004/0005	T . (1)
		Previous	2019/2020	2020/2021	2021/2022		2023/2024	2024/2025	Tota
GEN	General Fund	\$0	\$0	\$20,000	\$0	\$0	\$0	\$0	\$20,00
								Project Total:	\$20,00
				COST DETAIL:					
				Study:	:	\$20,000			
				Land Acquisition	ROW:	\$0			
				Engineering / Des	ign:	\$0			
				Construction:	:	\$0		Cost Total:	\$20,00
				Annual Maint. Cos	st:			Project Difference:	\$
				Maint. Year Start:					
Service Impact:									
None.									

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

Location Description:

City-wide.



PARK-19-CIP	Parks								
684-19-CIP	Park Sign Replacement								
Project Inform	nation								
Submitted By:	Lauren Vaughn	Dej	partment:	Department	of Public Service	es Project Descript	ion:		
Category:	Maintenance	Dej	partment Head:	Frank Dituri		This project wou	ld replace all main p	park entrance signs with a	
Fund Group:	General	Sta	ff Priority:	Essential (S	hould Do)		0 1	parks up to date. This would	
Fund Detail:	Parks & Rec	Co	uncil Priority:				ew branding design (or marking trails and	(logo) on the signs and some I for wayfinding.	
Park Sign Repla	cement - Cost					684-19-CIP-C			
Funding Source	es:								
		Previous	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	2024/2025	Total
GEN	General Fund	\$0	\$30,000	\$30,000	\$0	\$0	\$0	\$0	\$60,000
								Project Total:	\$60,000
				COST DETAIL:					
				Study:	\$)			
				Land Acquisition	/ ROW: \$)			
				Engineering / Des	sign: \$	4,000			
				Construction:	\$	56,000		Cost Total:	\$60,000
				Annual Maint. Co	st: \$	500		Project Difference:	\$0
				Maint. Year Start:	1	905			

Service Impact:

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

Project Justification:

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

Location Description:

n/a



PARK-19-CIP	<u>Parks</u>								
543-19-CIP	Rose and Boyd Triangle	Park (Jupiter	r Gardens)						
Project Inform	ation								
Submitted By:	Derek Melville	De	partment:	Department	of Public Service	S Project Descript	ion:		
Category:	Visionary	De	partment Head:	Frank Dituri		The North Traver	se Heights neighbo	prhood group and other	
Fund Group:	General	Sta	ff Priority:	Essential (Sl	hould Do)		•	est in seeing improvements	s to
Fund Detail:	Parks & Rec	Co	uncil Priority:				de: a small trailside	shelter, sidewalks, e repair stations, natural	
						•		. The use of this park cou	ıld
							f these amenities a	re added.	
-	Triangle Park (Jupiter Garde -	Cost				543-19-CIP-C			
Funding Source	es:	Previous	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	2024/2025	Tota
BBTP	Brown Bridge Trust Parks	\$0	\$0 \$0	\$30,000	\$0	\$0	\$0	\$0	\$30,000
FSG	Federal / State Grant	\$0 \$0	\$0 \$0	\$30,000 \$10,000	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$30,000
LFG	Local / Foundation Grant	\$0 \$0	\$0 \$0	\$10,000	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$10,000
P	Private	\$0 \$0	\$10,000	\$10,000 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$10,000
		ΨΟ	ψ10,000	ΨŬ	φυ	ψŬ	ψu		
								Project Total:	\$60,000
				COST DETAIL:					
				Study:	\$				
				Land Acquisition					
				Engineering / Des	sign: \$	1,000			
				Construction:		59,000		Cost Total:	\$60,000
				Annual Maint. Co	st: \$	1,500		Project Difference:	\$0
						905			

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



<u> ARK-19-CIP</u>	<u>Parks</u>										
02-19-CIP	Senior Center -Bayfro	nt Plan									
Project Inform	nation										
Submitted By:	Russ Soyring	De	partment:	Planning and	d Zoning	Project Descripti	on:				
Category:	Visionary	De	partment Head:	Frank Dituri		Sidewalks, new p	Sidewalks, new parking lot improvement and Stormwater Treatment Structure are key elements of the project.				
Fund Group:	Bayfront Plan NON-TI	F Implem Sta	aff Priority:	Important (C	ould Do)	Structure are key					
Fund Detail:	Parks & Rec	Co	ouncil Priority:								
Senior Center B	ayfront Phase (+Grant) - Co	st				602-19-CIP-C					
Funding Source	es:										
		Previous	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	2024/2025	Total		
FSG	Federal / State Grant	\$0	\$0	\$0	\$0	\$0	\$0	\$50,000	\$50,000		
Р	Private	\$0	\$0	\$0	\$0	\$0	\$0	\$111,888	\$111,888		
								Project Total:	\$161,888		
				COST DETAIL:							
				Study:	\$	4,000					
				Land Acquisition	/ ROW: \$	0					
				Engineering / Des	ign: \$	11,410					
				Construction:	\$	146,478		Cost Total:	\$161,888		
				Annual Maint. Cos	st: \$	8,000		Project Difference:	\$0		
				Maint. Year Start:							
Service Impact:											
Service requiren	nents would increase- Sidew	valk and stormwa	ter maintenance								
Project Justifica	ation:										
2010 Bayfront P	lan										

Location Description:

801 E. Front Street



	_								
PARK-19-CIP	<u>Parks</u>								
926-19-CIP	Senior Citizen Park Imp	provements							
Project Inform	nation								
Submitted By:	Lauren Vaughn	Dep	partment:	Department	of Public Service	S Project Descript	ion:		
Category:	Visionary	Dep	partment Head:	Frank Dituri		These improvem	ents would include a	an adult "playground" with	1
Fund Group:	General	Sta	ff Priority:	Essential (S	hould Do)	•	•	nior population with stren	gth,
Fund Detail:	Parks & Rec	Cou	uncil Priority:					necting these features. s and improved parking sh	hould
								ed with the new Senior C	
						<u> </u>	ons to create a com	prehensive plan for the sp	ace.
	Park Improvements (Grant +P	- Cost			ç	26-19-CIP-C			
Funding Source	es:	Previous	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	2024/2025	Tota
BBTP	Brown Bridge Trust Parks	\$0	\$0	\$0	\$0	\$0	\$0	\$35,000	\$35,000
LFG	Local / Foundation Grant	\$0	\$0	\$0	\$0	\$0	\$0	\$35,000	\$35,000
Р	Private	\$0	\$0	\$0	\$0	\$0	\$0	\$5,000	\$5,000
								Project Total:	\$75,000
				COST DETAIL:					
				Study:	\$0)			
				Land Acquisition	/ ROW: \$0)			
				Engineering / Des	sign: \$2	2,000			
				Construction:	\$7	73,000		Cost Total:	\$75,000
				Annual Maint. Co	st: \$	500		Project Difference:	\$0

Service Impact:

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

Project Justification:

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

Location Description:

801 E Front Street



PARK-19-CIP	<u>Parks</u>								
927-19-CIP	Sunset Park Improvemen	ts							
Project Inform	nation								
Submitted By:	Lauren Vaughn	Dej	partment:	Department	of Public Services	Project Descripti	on:		
Category:	Visionary	Dej	partment Head:	Frank Dituri		The improvement	ts to Sunset Parks	would include: a small pic	nic
Fund Group:	General	Sta	ff Priority:	Essential (S	hould Do)	•		round, fitness stations, a	
Fund Detail:	Parks & Rec	Co	uncil Priority:			sand/grass interfa	ace and a drinking t so recently support a potential raquetb	and retaining wall at the fountain/water bottle filling ed by the Parks & Recrea all/handball court be place	ition
Sunset Park Im	provements (+Grant +Private - 0	Cost			92	7-19-CIP-C			
Funding Sourc	es:								
		Previous	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	2024/2025	Tota
BBTP	Brown Bridge Trust Parks	\$0	\$0	\$0	\$0	\$100,000	\$0	\$0	\$100,00
FSG	Federal / State Grant	\$0	\$0	\$0	\$0	\$100,000	\$0	\$0	\$100,00
LFG	Local / Foundation Grant	\$0	\$0	\$0	\$0	\$25,000	\$0	\$0	\$25,00
Р	Private	\$0	\$0	\$0	\$0	\$25,000	\$0	\$0	\$25,00
								Project Total:	\$250,00
				COST DETAIL:					
				Study:	\$0				
				Land Acquisition	/ ROW: \$0				
				Engineering / Des	sign: \$20),000			
				Construction:	\$23	30,000		Cost Total:	\$250,00
				Annual Maint. Co	st: \$2,	500		Project Difference:	\$
				Maint. Year Start:	19	05			

Service Impact:

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

Project Justification:

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

Location Description:

635 E Front



PARK-19-CIP	<u>Parks</u>								
1020-19-CIP	West End Beach Bathho	ouse Project							
Project Inform	nation								
Submitted By:	Derek Melville	De	partment:	Department	of Public Servic	es Project Descript	ion:		
Category:	Visionary	De	partment Head:	Frank Dituri		The existing bath	nroom facility is old,	non-ADA compliant and i	in
Fund Group:	General	Sta	ff Priority:	Essential (S	hould Do)			uild a new bathhouse/cha	0 0
Fund Detail:	Parks & Rec	Co	uncil Priority:			Additionally, the	addition of an ADA	efficient ADA compliant far access to the beach along built bathhouse will be	,
West End Beac	h Bathhouse Project					1020-19-CIP-C			
Funding Source	es:								
		Previous	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	2024/2025	Tota
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	\$100,000	\$120,000	\$0	\$0	\$0	\$220,000
								Project Total:	\$383,000
				COST DETAIL:					
				Study:	9	60			
				Land Acquisition	/ ROW: \$	60			
				Engineering / Des	sign:	43,000			
				Construction:	9	340,000		Cost Total:	\$383,000
				Annual Maint. Co	st:	2,000		Project Difference:	\$0
				Maint. Year Start:		1905			
Service Impact									

Service Impact:

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

Project Justification:

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

Location Description:

706 West Grandview Parkway- West End



Six Year Capital Improvement Plan

Budget Year 2019-2020 by Program Name

All Projects Submitted for 2019-2020

Bold - Indicates	projects occurring in the first FY of the plan.											
+ - Indicates pro	jects with multiple funding											
				Fiscal Year	Project	City	Non-City					
Project ID		Cat	Previous	2019-2020	2020-2021	2021-2022	2022-2023	2023-2024	2024-2025	Cost	Funds	Funds
Streets												
⊢ 14-19-CIP	Annual Street Reconstruction Program	М	\$1,140,000	\$1,333,638	\$1,331,181	\$519,046	\$510,000	\$515,738	\$0	\$5,349,602	\$5,349,602	\$0
320-19-CIP	Division Street	V	\$100,000	\$0	\$100,000	\$100,000	\$100,000	\$0	\$0	\$400,000	\$400,000	\$0
F 717-19-CIP	East Front St Reconstruction (400-500 blocks)	V	\$0	\$0	\$0	\$0	\$0	\$915,000	\$0	\$915,000	\$915,000	\$0
₽ 882-19-CIP	Eighth Street- Boardman to Railroad Ave.	V	\$235,000	\$3,405,000	\$0	\$0	\$0	\$0	\$0	\$3,640,000	\$765,000	\$2,875,000
1087-19-CIP	Front Street Streetscapes	М	\$0	\$0	\$500,000	\$500,000	\$0	\$0	\$0	\$1,000,000	\$1,000,000	\$0
H 1115-19-CIP	Garfield Ave Reconstruction (Hannah to Front St)	С	\$0	\$0	\$0	\$412,500	\$0	\$0	\$0	\$412,500	\$82,500	\$330,000
616-19-CIP	Grand Traverse Commons Infrastructure	V	\$0	\$0	\$223,095	\$690,000	\$310,000	\$0	\$0	\$1,223,095	\$0	\$1,223,095
713-19-CIP	Grandview Parkway Pedestrian Crossing Enhancement	V	\$0	\$0	\$0	\$0	\$0	\$500,000	\$0	\$500,000	\$500,000	\$0
F 1130-19-CIP	Highway Safety Improvement Program (HSIP)	С	\$0	\$20,000	\$600,000	\$0	\$0	\$0	\$0	\$620,000	\$80,000	\$540,000
1088-19-CIP	State Street Streetscapes	М	\$0	\$0	\$500,000	\$500,000	\$0	\$0	\$0	\$1,000,000	\$1,000,000	\$0
889-19-CIP	Traffic Calming	V	\$0	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$0	\$500,000	\$500,000	\$0
1070-19-CIP	Traffic Signal Mast Arm	С	\$0	\$100,000	\$0	\$0	\$0	\$0	\$0	\$100,000	\$100,000	\$0
15-19-CIP	Traffic Signal Power Backup	V	\$0	\$22,500	\$22,500	\$22,500	\$22,500	\$0	\$0	\$90,000	\$90,000	\$0
16-19-CIP	Traffic Signal Upgrades	V	\$0	\$120,000	\$60,000	\$60,000	\$60,000	\$60,000	\$0	\$360,000	\$360,000	\$0
1089-19-CIP	Tree Replacement	М	\$0	\$0	\$50,000	\$50,000	\$0	\$0	\$0	\$100,000	\$100,000	\$0
1026-19-CIP	Union Street and Streetscape	С	\$0	\$0	\$669,060	\$0	\$0	\$0	\$0	\$669,060	\$669,060	\$0
Total Streets			\$1,475,000	\$5,101,138	\$4,155,836	\$2,954,046	\$1,102,500	\$2,090,738	\$0	\$16,879,257	\$11,911,162	\$4,968,095



-19-CIP	Annual Street Reconstruc	tion Progra	m							
Project Inform										
Submitted By:	Tim Lodge	Dor	partment:	Engineering			Project Descripti	02:		
Category:	Maintenance	•	partment Head:						vides funds to resurface m	aior
Fund Group:	General		ff Priority:	Essential (Sh	ould Do)				nits. Funding eligible for bri	•
Fund Detail:	Streets		uncil Priority:				and street repair, storm water syste underground utilit streets: 8th, E. 11 Fitzhugh and exis street reconstruct	resurfacing, reco m. Millage fund c ies. In the coming th, E. 10th, Jeffer ting gravel street ion and are coord ars, pavement pre	nstruction including sidewa cannot be used for sidewal g fiscal years the following son, Monroe, Madison, Ra s (Griffin, Fulton) are on th linated with utility fund pro- eservation projects are plan	alks, ks or andolph, e list for jects.
Annual Street Re	econstruction Program (+GTC -	Cost				14-1	19-CIP-C			
Funding Source										
-		Previous	2019/2020	2020/2021	2021/2	2022	2022/2023	2023/2024	2024/2025	Tota
ACPF	Available Capital Projects Fund	\$330,000	\$0	\$0	\$0		\$0	\$0	\$0	\$330,00
GEN	General Fund	\$0	\$523,638	\$521,181	\$519,0	046	\$510,000	\$515,738	\$0	\$2,589,60
RCMF	Road Commission Millage Fund	\$810,000	\$810,000	\$810,000	\$0		\$0	\$0	\$0	\$2,430,00
									Project Total:	\$5,349,60
				COST DETAIL:						
				Study:		\$0				
				Land Acquisition /	ROW:	\$0				
				Engineering / Desi	gn:	\$0				
				Construction:		\$0			Cost Total:	\$
				Annual Maint. Cos	t:				Project Difference:	\$5,349,60
				Maint. Year Start:						
Service Impact:										
None.										
	tion:									
Project Justifica										



TREETS-19-CII	P <u>Streets</u>									
20-19-CIP	Division Street									
Project Infor	mation									
Submitted By: Category: Fund Group:	Visionary General	De	partment: partment Head: aff Priority:	Engineering Tim Lodge Important (C	ould Do)		2020 MDOT Safe	vements to Division ty project. In 2015	n Street in conjunction wit /16, MDOT completed a P rticipation in the project wil	EL
Fund Detail:	Streets	Co	uncil Priority:				include items suc enhancements.	h as sidewalks, lig		Піксіў
Division Street						320-	19-CIP-C			
Funding Sour	Ces:	Previous	2019/2020	2020/2021	2021/202	22	2022/2023	2023/2024	2024/2025	Total
ACPF	Available Capital Projects Fund	\$100,000	\$0	\$0	\$0		\$0	\$O	\$0	\$100,000
GEN	General Fund	\$0	\$0	\$100,000	\$100,00	00	\$100,000	\$0	\$0	\$300,000
									Project Total:	\$400,000
				COST DETAIL:						
				Study:		\$0				
				Land Acquisition	/ ROW:	\$0				
				Engineering / Des	ign:	\$0				
				Construction:		\$0			Cost Total:	\$0
				Annual Maint. Co	st:				Project Difference:	\$400,000
				Maint. Year Start:						
Service Impac	:: astructure requiring operation, ma	intenance, an	d replacement.							
Project Justifi	cation:									
Partnering with	n MDOT for value added features	of their impov	ement project.							
Location Desc	cription:									

Location Description:

Division Street from 13th to 7th Street.



TREETS-19-CIP	<u>Streets</u>								
17-19-CIP	East Front St Reconstruc	tion (400-50	0 blocks)						
Project Inform	ation								
Submitted By:	Tim Lodge	De	partment:	Engineering		Project Descripti	on:		
Category:	Visionary	De	partment Head:	Tim Lodge		Street reconstruc	tion with utility reha	bilitation and replacemen	ıt. New
Fund Group:	Tax Increment Financing	Sta	ff Priority:	Essential (Sl	hould Do)			cks, and sidewalk along E	
Fund Detail:	TIF 97	Co	uncil Priority:			Front between Pa SID.	ark Street and Gran	dview Parkway. Project	pending
						The City will requ with the streetsca with the street pro	ape. Utility funds wil	m TCLP for lighting assound the utilized and coordina jects associated with this and 1053-19-CIP.	ited
East Front Reco	onstructio (Park to Grand - Cost					717-19-CIP-C			
Funding Source	es:								
		Previous	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	2024/2025	Tota
FSG	Federal / State Grant	\$0	\$0	\$0	\$0	\$0	\$400,000	\$0	\$400,00
SAF	Special Assessment Fund	\$0	\$0	\$0	\$0	\$0	\$257,500	\$0	\$257,50
TIF97	TIF 97	\$0	\$0	\$0	\$0	\$0	\$257,500	\$0	\$257,50
								Project Total:	\$915,00
				COST DETAIL:					
				Study:		\$0			
				Land Acquisition	/ ROW:	\$0			
				Engineering / Des	ign:	\$0			
				Construction:		\$915,000		Cost Total:	\$915,00
				Annual Maint. Co	st:			Project Difference:	\$

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

Project Justification:

TIF 97

Location Description:

East Front Street 400-500 blocks.



TREETS-19-CIP	<u>Streets</u>									
82-19-CIP	Eighth Street- Boardman	to Railroad	Ave.							
Project Inform	ation									
Submitted By:	Tim Lodge	Dej	partment:	Engineering			Project Description	on:		
Category:	Visionary	Dej	partment Head:	Tim Lodge			Implementation o	f Eighth Street Pl	an based on outcome of 8	th
Fund Group:	General	Sta	ff Priority:	Essential (S	hould Do)				econstruct 8th Street from	
Fund Detail:	Streets	Co	uncil Priority:						nue including sidewalks, sewers, sanitary sewers,	
							•	-	nstruction. *This project ne	eeds to
									Transmission Line #935 p	roject
Fighth Street- La	ke Ave. to Woodmere - Cost					883	included in the Wa 2-19-CIP-C	ater Fund.		
Funding Source						002	2-13-011-0			
		Previous	2019/2020	2020/2021	2021/20)22	2022/2023	2023/2024	2024/2025	Total
ACPF	Available Capital Projects Fund	\$185,000	\$0	\$0	\$0		\$0	\$0	\$0	\$185,000
GEN	General Fund	\$50,000	\$2,875,000	\$0	\$0		\$0	\$0	\$0	\$2,925,000
S	Sewer Fund	\$0	\$530,000	\$0	\$0		\$0	\$0	\$0	\$530,000
									Project Total:	\$3,640,000
				COST DETAIL:						
				Study:		\$0				
				Land Acquisition	/ ROW:	\$0				
				Engineering / Des	sign:	\$0				
				Construction:		\$5,2	200,000		Cost Total:	\$5,200,000
				Annual Maint. Co	st:				Project Difference:	\$-1,560,000
				Maint. Year Start:						
Service Impact:										
Maintenance ma	y increase due to streetscape, a	amenities and	cycle-track.							

Project Justification:

Envision 8th Charrette public process

Location Description:

8th Street from Boardman Ave to Railroad Ave.



TREETS-19-CIP	Streets									
)87-19-CIP	Front Street Streetscapes									
Project Inform	ation									
Submitted By:	Jean Derenzy	Dej	partment:	Downtown D	evelopment		Project Descripti	on:		
Category:	Maintenance	Dej	partment Head:	Jean Derenz	y		Upgrade streetsc	apes in the 100 a	nd 200 blocks of East Fror	nt
Fund Group:	Tax Increment Financing	Sta	ff Priority:	Essential (SI	nould Do)					
Fund Detail:	TIF 97	Co	uncil Priority:							
Front Street Stre	etscapes Cost					108	7-19-CIP-C			
Funding Source	s:	Previous	2019/2020	2020/2021	2021/20	22	2022/2023	2023/2024	2024/2025	Tota
TIF97	TIF 97	\$0	\$0	\$500,000	\$500,00		\$0	\$0	\$0	\$1,000,000
									Project Total:	\$1,000,000
				COST DETAIL:						
				Study:		\$0				
				Land Acquisition	/ ROW:	\$0				
				Engineering / Des	ign:	\$0				
				Construction:		\$1,00	00,000		Cost Total:	\$1,000,000
				Annual Maint. Cos	st:				Project Difference:	\$0
				Maint. Year Start:		190	5			
Service Impact:										
Minor sidewalk a	and street closures									

Original streetscapes at end of life and need to be upgraded

Location Description:

100/200 blocks of East Front Street



TREETS-19-CIP	<u>Streets</u>									
15-19-CIP	Garfield Ave Reconstruct	ion (Hannah	to Front St)							
Project Inform	ation									
Submitted By:	Tim Lodge	De	partment:	Engineering			Project Descripti	on:		
Category:	Capital	De	partment Head:	Tim Lodge			Garfield Ave. Rec	construction project	t to utilize small urban func	ls.
Fund Group:	General	Sta	aff Priority:	Essential (Sh	nould Do)					
Fund Detail:	Streets	Co	uncil Priority:							
TBD Street Reco	onstruction-C					1118	5-19-CIP-C			
Funding Source	s:									
		Previous	2019/2020	2020/2021	2021/20		2022/2023	2023/2024	2024/2025	Total
FSG	Federal / State Grant	\$0	\$0	\$0	\$330,00		\$0	\$0	\$0	\$330,000
GEN	General Fund	\$0	\$0	\$0	\$82,500)	\$0	\$0	\$0	\$82,500
									Project Total:	\$412,500
				COST DETAIL:						
				Study:		\$0				
				Land Acquisition	/ ROW:	\$0				
				Engineering / Des	ign:	\$0				
				Construction:		\$412	,500		Cost Total:	\$412,500
				Annual Maint. Cos	st:				Project Difference:	\$0
				Maint. Year Start:						
Service Impact: None.										
Project Justifica	tion:									
Street Reconstru	iction									

Location Description:

Garfield Ave. between Hannah and Front Street



TREETS-19-CIP	Streets								
16-19-CIP	Grand Traverse Commons	s Infrastruct	ure						
Project Informa	ation								
Submitted By:	Tim Lodge	Dej	partment:	Engineering		Project Descript	ion:		
Category:	Visionary	Dej	partment Head:	Tim Lodge		For Streets, Side	walks, Water, Sev	ver, and Storm Sewer	
Fund Group:	General	Sta	ff Priority:	Imperitive (M	lust Do)		-	verse Commons Developn	nent.
Fund Detail:	Streets	Co	uncil Priority:			Reimbursement	anticipated from B	rowntield IIF.	
Grand Traverse	Commons Infrastructure - Cost				6	616-19-CIP-C			
Funding Source	s:								
		Previous	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	2024/2025	Total
BR	Brownfield	\$0	\$0	\$223,095	\$690,000	\$310,000	\$0	\$0	\$1,223,095
								Project Total:	\$1,223,095
				COST DETAIL:					
				Study:	\$(0			
				Land Acquisition	/ ROW: \$	0			
				Engineering / Des	ign: \$	0			
				Construction:	\$	1,223,095		Cost Total:	\$1,223,095
				Annual Maint. Cos	st:			Project Difference:	\$0
				Maint. Year Start:					
Service Impact:									
	te utilities to public utilities.								
Project Justifica									
Replacing aged i	infrastructure as part of Brownfie	eld Place.							

Location Description:

Grand Traverse Commons Development.



TREETS-19-CIP	<u>Streets</u>								
13-19-CIP	Grandview Parkway Pede	strian Cross	sing Enhancen	nent					
Project Informa	ation								
Submitted By:	Rob Baciagalupi	De	partment:	Downtown D	Development	Project Descript	ion:		
Category:	Visionary	De	partment Head:	Jean Derenz	zy	Pedestrian enhar	ncements to cross	Grandview Parkway betwe	en
Fund Group:	Tax Increment Financing	Sta	aff Priority:					gateway treatment at Unio	
Fund Detail:	TIF 97	Co	uncil Priority:			Street. Project to	be coordinated wi	th MDOT enhancements ir	12022.
Grandview Parkv	vay Pedestrian Crossing Enha	- Cost				713-19-CIP-C			
Funding Sources	s:	_ .	2019/2020	2020/2021	2021/2022	0000/0000	0000/0004	0004/0005	Tot
TIF07	TIE 07	Previous				2022/2023	2023/2024	2024/2025	
TIF97	TIF 97	\$0	\$0	\$0	\$0	\$0	\$500,000	\$0	\$500,00
								Project Total:	\$500,00
				COST DETAIL:					
				Study:	\$	0			
				Land Acquisition	/ ROW: \$	0			
				Engineering / Des	sign: \$	0			
				Construction:	\$	500,000		Cost Total:	\$500,00
				Annual Maint. Co	st:			Project Difference:	\$
				Maint. Year Start:					
Service Impact: None foreseen									
Project Justifica	tion:								
Crossing enhanc	ement/Connectivity								

Location Description:

Grandview Parkway



STREETS-19-CIP	Streets										
1130-19-CIP	Highway Safety Improver	ment Progra	am (HSIP)								
Project Inform	nation										
Submitted By: Category: Fund Group: Fund Detail:	Tim Lodge Capital General Available Capital Projects	Department: Department Head: Staff Priority: ts Fund Council Priority:		Engineering Tim Lodge Essential (Should Do)		Intersection with project is valued 10% or \$60,000 be responsible f construction tes pedestrians wish access to the ex	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 \$600,000 for which the City is responsible for 10% or \$60,000 with the program paying the other 90%. The City wil 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				
Highway Safaty	Improvement Program (HSIP)					in the roadway. 1130-19-CIP					
Funding Source						1130-19-CIF					
r unung oouroo		Previous	2019/2020	2020/2021	2021/202	2022/2023	2023/2024	2024/2025	Total		
FSG	Federal / State Grant	\$0	\$0	\$540,000	\$0	\$0	\$0	\$0	\$540,000		
GEN	General Fund	\$0	\$20,000	\$60,000	\$0	\$0	\$0	\$0	\$80,000		
								Project Total:	\$620,000		
				COST DETAIL:							
				Study:		\$0					
				Land Acquisition	/ ROW:	\$0					
				Engineering / Des	sign:	\$20,000					
				Construction:		\$600,000		Cost Total:	\$620,000		
				Annual Maint. Co	st:			Project Difference:	\$0		
				Maint. Year Start:							

Service Impact:

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

signal.

Project Justification:

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

Location Description:

Intersection of Parsons Rd and Airport Access Rd.



TREETS-19-CIP	<u>Streets</u>									
088-19-CIP	State Street Streetscapes									
Project Inform	ation									
Submitted By:	Jean Derenzy	Dep	partment:	Downtown D	Development		Project Descripti	on:		
Category:	Maintenance	Dep	partment Head:	Jean Derenz	zy		Upgrade streetsc	apes in the 100 a	nd 200 blocks of East State	e
Fund Group:	Tax Increment Financing	Sta	ff Priority:	Essential (Sl	hould Do)		Street			
Fund Detail:	TIF 97	Cou	uncil Priority:							
State Street Stre	etscapes Cost					1088	-19-CIP-C			
Funding Source	s:	Previous	2019/2020	2020/2021	2021/20	2 2	2022/2023	2023/2024	2024/2025	Tota
TIF97	TIF 97	\$0	\$0	\$500,000	\$500,00		\$0	\$0	\$0	\$1,000,000
									Project Total:	\$1,000,000
				COST DETAIL:						
				Study:		\$0				
				Land Acquisition	/ ROW:	\$0				
				Engineering / Des	sign:	\$0				
				Construction:		\$1,000	0,000		Cost Total:	\$1,000,000
				Annual Maint. Co	st:				Project Difference:	\$0
				Maint. Year Start:		1905				
Service Impact:										
Temporary sidew	alk and street closures									

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

Location Description:

100/200 East State Street



REETS-19-CIP	<u>Streets</u>								
9-19-CIP	Traffic Calming								
Project Inform	ation								
Submitted By:	Tim Lodge	Dej	partment:	Engineering		Project Descripti	on:		
Category:	Visionary	Dej	partment Head:	Tim Lodge		Funding for Traffi	c Calming infrastru	cture improvements per C	ity
Fund Group:	General	Sta	iff Priority:	Important (Could	d Do)	Commission.			
Fund Detail:	Streets	Co	uncil Priority:						
Traffic Calming -	Cost				889	9-19-CIP-C			
Funding Source	s:	Description	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	2024/2025	Tota
GEN	General Fund	Previous							
GEN	General i unu	\$0	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$0	\$500,00
								Project Total:	\$500,00
				COST DETAIL:					
				Study:	\$0				
				Land Acquisition / RC	DW: \$0				
				Engineering / Design	: \$0				
				Construction:	\$0			Cost Total:	\$
				Annual Maint. Cost:				Project Difference:	\$500,00
				Maint. Year Start:					
Service Impact:									
Additional infrast	ructure requiring operation, m	aintenance, and	d replacement.						

Improving safety and traffic concerns.

Location Description:

City-wide.



REETS-19-CIP	<u>Streets</u>								
70-19-CIP	Traffic Signal Mast Arm								
Project Inform	ation								
Submitted By:	Jean Derenzy	Dej	partment:	Downtown E	Development	Project Descript	ion:		
Category:	Capital	Dej	partment Head:	Tim Lodge		•	U 1	n conjunction with MDOT	
Fund Group:	Tax Increment Financing	Sta	ff Priority:	Essential (S	hould Do)			Grandview Parkway/E. Fi	
Fund Detail:	TIF 97	Co	uncil Priority:			intersection and	Grandview Parkway	/Union Street intersection	1.
Traffic Signal Ma	st Arm					1070-19-CIP-C			
Funding Source	s:	Previous	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	2024/2025	Tota
TIF97	TIF 97	\$0	\$100,000	\$0	\$0	\$0	\$0	\$0	\$100,00
								Project Total:	\$100,00
				COST DETAIL:					
				Study:		\$0			
				Land Acquisition	/ ROW:	\$0			
				Engineering / Des	sign:	\$0			
				Construction:		\$100,000		Cost Total:	\$100,00
				Annual Maint. Co	st:			Project Difference:	\$
				Maint. Year Start:					
Service Impact:									
None.									
Project Justifica	tion:								
Signal Upgrade									

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



REETS-19-CIP	<u>Streets</u>									
-19-CIP	Traffic Signal Power Backu	ıp								
Project Inform	ation									
Submitted By:	Tim Lodge	De	partment:	Engineering			Project Description	on:		
Category:	Visionary	De	partment Head:	Tim Lodge			Provide funding to	o install battery ba	ackup power systems in all si	ignal
Fund Group:	General	Sta	ff Priority:	Essential (Sho	uld Do)		equipment by 202	22.		-
Fund Detail:	Streets	Co	uncil Priority:							
Traffic Signal Pov	wer Backup - Cost					15-1	19-CIP-C			
Funding Source	s:	Previous	2019/2020	2020/2021	2021/20	? ?	2022/2023	2023/2024	2024/2025	Tota
GEN	General Fund	\$0	\$22,500	\$22,500	\$22,500		\$22,500	\$0	\$0	\$90,00
		÷.	<i>4</i> --,000	<i> </i>	<i> </i>		<i>+,</i>	<i>v</i> ·		\$90,00
				COST DETAIL:					Project Total:	\$90,00
				Study:		\$0				
				Land Acquisition / F	sow.	\$0				
				Engineering / Desig		\$0				
				Construction:		\$0			Cost Total:	\$
				Annual Maint. Cost:	:				Project Difference:	\$90,00
				Maint. Year Start:						
Service Impact:										
Reducing the nee	ed for response in brief power ou	itages.								

Project Justification:

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

Location Description:

Various locations city-wide.



-

Six Year Capital Improvement Program

REETS-19-CIP	Streets									
-19-CIP	Traffic Signal Upgrades									
Project Inform	nation									
Submitted By:	Tim Lodge	Dep	partment:	Engineering			Project Descripti	on:		
Category:	Visionary	Dep	partment Head:	Tim Lodge			This is an annual	program that will	fund traffic signal consulting	g and
Fund Group:	General	Sta	ff Priority:	Essential (Sho	ould Do)		0 10		lannah, Parsons traffic sigi	nal
Fund Detail:	Streets	Со	uncil Priority:				and the Parsons/	Hastings intersect	ion signal.	
Traffic Signal Up	ogrades - Cost					16-	19-CIP-C			
Funding Source	es:									
		Previous	2019/2020	2020/2021	2021/20		2022/2023	2023/2024	2024/2025	Tota
GEN	General Fund	\$0	\$120,000	\$60,000	\$60,000)	\$60,000	\$60,000	\$0	\$360,000
									Project Total:	\$360,000
				COST DETAIL:						
				Study:		\$0				
				Land Acquisition /	ROW:	\$0				
				Engineering / Desig	gn:	\$0				
				Construction:		\$0			Cost Total:	\$0
				Annual Maint. Cost	:				Project Difference:	\$360,000
				Maint. Year Start:						
Service Impact: Reduce operation	: onal and maintenance costs.									
Project Justifica	ation:									
Replacing aged	traffic signal equipment.									

Location Description:

Various locations city-wide.



TREETS-19-CIP	<u>Streets</u>									
)89-19-CIP	Tree Replacement									
Project Informa	ation									
Submitted By:	Jean Derenzy	De	partment:	Downtown D	evelopment	Proje	ct Descripti	on:		
Category:	Maintenance	De	partment Head:	Jean Derenz	<u>y</u>	Repla	ace Trees th	roughout the DDA	District	
Fund Group:	Tax Increment Financing	Sta	aff Priority:	Essential (SI	hould Do)					
Fund Detail:	TIF 97	Co	uncil Priority:							
Tree Replacemer	nt Cost					1089-19-CI	P-C			
Funding Sources	5:	D	2019/2020	2020/2021	2021/202	a aa	22/2022	2023/2024	2024/2025	Total
TIF97	TIF 97	Previous					22/2023		2024/2025	
11F97	HF 97	\$0	\$0	\$50,000	\$50,000	\$0		\$0	\$0	\$100,000
									Project Total:	\$100,000
				COST DETAIL:						
				Study:		\$0				
				Land Acquisition	/ ROW:	\$0				
				Engineering / Des	ign:	\$0				
				Construction:		\$100,000			Cost Total:	\$100,000
				Annual Maint. Cos	st:				Project Difference:	\$0
				Maint. Year Start:		1905				
Service Impact: Temporary Sidew	alk Closures									
Project Justificat	tion:									
Trees are overgro	own/dying and need to be repla	iced.								

Location Description:

DDA District



TREETS-19-CIP	Streets								
026-19-CIP	Union Street and Streetso	ape							
Project Inform	ation								
Submitted By:	Rob Baciagalupi	De	partment:	Downtown D	Development	Project Descripti	on:		
Category:	Capital	De	partment Head:	Jean Derenz	zy	Streetscape impr	ovements on Unio	n Street from Ninth Street	iO
Fund Group:	Tax Increment Financing	St	aff Priority:	Important (C	could Do)	South Union Stre	et Bridge		
Fund Detail:	Streets	Co	ouncil Priority:						
Union Street and	d Streetscape - Cost					1026-19-CIP-C			
Funding Source	s:								
		Previous	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	2024/2025	Total
SAF	Special Assessment Fund	\$0	\$0	\$334,530	\$0	\$0	\$0	\$0	\$334,530
TIFOT	TIF Old Town	\$0	\$0	\$334,530	\$0	\$0	\$0	\$0	\$334,530
								Project Total:	\$669,060
				COST DETAIL:					
				Study:	\$	0			
				Land Acquisition	/ ROW: \$	0			
				Engineering / Des	sign: \$	0			
				Construction:	\$	669,059		Cost Total:	\$669,059
				Annual Maint. Co	st:			Project Difference:	\$1
				Maint. Year Start:					
Service Impact:									
No new services	foreseen								
Project Justifica	ation:								
Replacement of	old streetscapes								

Location Description:

Old Town



Six Year Capital Improvement Plan

All Projects Submitted for 2019-2020

Budget Year 2019-2020 by Program Name

Bold - Indicates	projects occurring in the first FY of the plan.											
+ - Indicates pro	ojects with multiple funding											
				Fiscal Year	Project	City	Non-City					
Project ID		Cat	Previous	2019-2020	2020-2021	2021-2022	2022-2023	2023-2024	2024-2025	Cost	Funds	Funds
Walkways												
+ 570-19-CIP	Boardman Lake Trail-West (14th to S. Airport)	V	\$0	\$5,248,000	\$0	\$0	\$0	\$0	\$0	\$5,248,000	\$0	\$5,248,000
316-19-CIP	Boardman River Walk south of 8th Street Bridge	V	\$0	\$0	\$0	\$0	\$0	\$0	\$690,700	\$690,700	\$690,700	\$0
946-19-CIP	Expand Sidewalk System/Infill Gaps	V	\$60,589	\$370,759	\$373,215	\$375,351	\$377,165	\$378,659	\$374,911	\$2,310,648	\$2,310,648	\$0
+ 1023-19-CIP	Expand Sidewalk System/Infill Gaps (SR2S)	С	\$100,000	\$1,150,000	\$1,150,000	\$0	\$0	\$0	\$0	\$2,400,000	\$400,000	\$2,000,000
1025-19-CIP	Rivers Edge Riverwalk Decking Replacement	М	\$0	\$0	\$106,869	\$0	\$0	\$0	\$0	\$106,869	\$106,869	\$0
+ 942-19-CIP	TART Trail Reconstruct from Woodmere to Avenue B	М	\$0	\$80,000	\$0	\$0	\$0	\$345,000	\$0	\$425,000	\$370,000	\$55,000
Total Walkwa	ys		\$160,589	\$6,848,759	\$1,630,084	\$375,351	\$377,165	\$723,659	\$1,065,611	\$11,181,217	\$3,878,217	\$7,303,000



ALK-19-CIP	<u>Walkways</u>								
70-19-CIP	Boardman Lake Trail-We	est (14th to S.	Airport)						
Project Inform	nation								
Submitted By:	Russ Soyring	De	partment:	Planning and	d Zoning	Project Descript	on:		
Category:	Visionary	De	partment Head:	Russ Soyrin	g	The City of Trave	rse City is working	TART Trails, Garfield Tov	wnship
Fund Group:	General	Sta	ff Priority:	Important (C	ould Do)		• •	blete the final segment of	
Fund Detail:	Walkways/Bike Paths	Co	uncil Priority:			along the west si trail encircling Bo	de of the lake is nee ardman Lake which o with a trail master	two and a half mile segred eded to complete the five n was first conceptualized r plan funded by the Coa	e mile d more
Boardman Lake	Trail-West (14th to S. Airpo - 0	Cost				570-19-CIP-C			
Funding Source	es:								
		Previous	2019/2020	2020/2021	2021/202		2023/2024	2024/2025	Total
BR	Brownfield	\$0	\$3,600,000	\$0	\$0	\$0	\$0	\$0	\$3,600,000
FSG	Federal / State Grant	\$0	\$1,248,000	\$0	\$0	\$0	\$0	\$0	\$1,248,000
Р	Private	\$0	\$400,000	\$0	\$0	\$0	\$0	\$0	\$400,000
								Project Total:	\$5,248,000
				COST DETAIL:					
				Study:		\$0			
				Land Acquisition	/ ROW:	\$0			
				Engineering / Des	sign:	\$510,774			
				Construction:		\$4,360,571		Cost Total:	\$4,871,345
				Annual Maint. Co	st:	\$12,000		Project Difference:	\$376,655
				Maint. Year Start:		1905			
Service Impact:	:								
Operations and	Maintenance Agreement is need	cessary among	project partners						

Project Justification:

Parks and Recreation Element of Master Plan

Location Description:

West side of Boardman Lake



IALK-19-CIP	Walkways	<u>i</u>							
16-19-CIP	Boardman River Walk se	outh of 8th Sti	reet Bridge						
Project Inform	nation								
Submitted By:	Rob Baciagalupi	Dep	partment:	Downtown D	Development	Project Descript	on:		
Category:	Visionary	Dep	partment Head:	Russ Soyrin	g	River Boardwalk	from the 8th Street	bridge to the Boardman L	ake
Fund Group:	General	Sta	ff Priority:	Important (C	Could Do)			ear feet of elevated boardw	
Fund Detail:	Walkways/Bike Paths	Cou	uncil Priority:			low-level lighting	fishing and resting	platforms and landscapin	g.
Boardman Rive	er Walk south of 8th Street Br - (Cost			:	316-19-CIP-C			
Funding Sourc	es:	- .	0040/0000	0000/0004	0004/0000	0000/0000	0000/0004	0004/0005	Tata
TIFOT	TIF Old Town	Previous	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	2024/2025	Tota
TIFUT		\$0	\$0	\$0	\$0	\$0	\$0	\$690,700	\$690,70
								Project Total:	\$690,70
				COST DETAIL:					
				Study:	\$	0			
				Land Acquisition	/ ROW: \$	0			
				Engineering / Des	sign: \$	81,800			
				Construction:	\$	608,900		Cost Total:	\$690,70
				Annual Maint. Co	st: \$	2,000		Project Difference:	\$
				Maint. Year Start:					
Service Impact									
Increased servi	ce and maintenance.								
Project Justific	cation:								
Boardman Rive	er Enhancement								

Location Description:

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



NALK-19-CIP	<u>Walkways</u>								
46-19-CIP	Expand Sidewalk System	n/Infill Gaps							
Project Informa	ation								
Submitted By:	Tim Lodge	Dej	partment:	Engineering		Project Descrip	tion:		
Category:	Visionary	Dej	partment Head:	Tim Lodge		Enhance public	service and access t	hrough improved walkat	bility
Fund Group:	General	Sta	off Priority:	Essential (St	hould Do)	-		ion of City's sidewalk	
Fund Detail:	Walkways/Bike Paths	Co	uncil Priority:	Imperitive (N	lust Do)	map on file in Er Targeted areas a to public facilitie infill/gaps and \$6	ngineering. Maintena are major street corri s. Current estimates	sidewalk system accordi nce of existing sidewalk dors and locations in pro call for \$3.4 million for repair. \$500,000 is allotte	s. eximity
						15-year bond pa	s project will be final yment at \$366,500 a	nced via bond. Expecting a year.	9
	System/Infill Gaps (+SID + - 0	Cost				946-19-CIP-C			
Funding Sources	5:	Description	2019/2020	2020/2021	2021/202	2 2022/2023	2023/2024	2024/2025	Tota
GEN	General Fund	Previous \$60,589	\$370,759	\$373,215	\$375,351	\$377,165	\$378,659	\$374,911	\$2,310,648
		<i>\\</i> 00,000	<i>QO I O, I O O</i>	<i>\\</i> 010,210	<i>\\</i> 070,001	<i>Q</i> 011,100	<i>Q(1),000</i>		
								Project Total:	\$2,310,648
				COST DETAIL:		\$0			
				Study:		\$0			
				Land Acquisition	/ ROW:	φU			
					_	* =00.000			
				Engineering / Des	ign:	\$500,000			
				Construction:	-	\$500,000 \$4,000,000		Cost Total:	\$4,500,000
				0 0	-			Cost Total: Project Difference:	\$4,500,000 <mark>\$-2,189,35</mark> 3

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.



ALK-19-CIP	<u>Walkways</u>								
23-19-CIP	Expand Sidewalk System	n/Infill Gaps (SR2S)						
Project Inform	nation								
Submitted By:	Missy Luick	Dej	partment:	Engineering		Project Descripti	on:		
Category:	Capital	Dej	partment Head:	Tim Lodge		In July 2018, the	City of Traverse Cit	ty received notification fro	om the
Fund Group:	General	Sta	ff Priority:	Essential (Sh	ould Do)	•		ion that our multi-school	\$2M
Fund Detail:	Walkways/Bike Paths	Co	uncil Priority:	Imperitive (M	ust Do)			structure grant received of linear trail/sidewalk	
								g, crosswalk improvemen	
								nhance public service an ure near schools. The pro	
						-	•	Department (In-kind	Jeci
						contribution). It is	anticipated that pro	ofessional services will ne	
								on. Additionally, there an	
							to provide match fo	ents and in-eligible costs t or	inat
Expand Sidewa	Ik System/Infill Gaps (SR2S) - C)				1023-19-CIP-C			
Funding Sourc	es:								
		Previous	2019/2020	2020/2021	2021/202	2 2022/2023	2023/2024	2024/2025	Tota
FSG	Federal / State Grant	\$0	\$1,000,000	\$1,000,000	\$0	\$0	\$0	\$0	\$2,000,00
GEN	General Fund	\$0	\$50,000	\$50,000	\$0	\$0	\$0	\$0	\$100,00
IN	Inkind	\$100,000	\$100,000	\$100,000	\$0	\$0	\$ 0	\$0	\$300,00
								Project Total:	\$2,400,00
				COST DETAIL:					
				Study:		\$0			
				Land Acquisition	ROW:	\$0			
				Engineering / Des	ign:	\$400,000			
				Construction:		\$2,000,000		Cost Total:	\$2,400,00
				Annual Maint. Cos	st:			Project Difference:	\$
				Maint. Year Start:					
Service Impact	• structure will increase operations								

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

Location Description:

City-wide



VALK-19-CIP	<u>Walkways</u>								
025-19-CIP	Rivers Edge Riverwalk De	ecking Repla	acement						
Project Inform	nation								
Submitted By:	Rob Baciagalupi	De	partment:	Downtown D	Development	Project Descript	on:		
Category:	Maintenance	De	partment Head:	Jean Derenz	zy	Replacement of o	lecking on River's E	dge Riverwalk	
Fund Group:	Tax Increment Financing	Sta	aff Priority:						
Fund Detail:	Walkways/Bike Paths	Co	uncil Priority:						
Rivers Edge Riv	verwalk Decking Replacement - 0	Cost				1025-19-CIP-C			
Funding Source	es:								
		Previous	2019/2020	2020/2021	2021/2022		2023/2024	2024/2025	Tota
TIFOT	TIF Old Town	\$0	\$0	\$106,869	\$0	\$0	\$0	\$0	\$106,869
								Project Total:	\$106,869
				COST DETAIL:					
				Study:		\$0			
				Land Acquisition	/ ROW:	\$0			
				Engineering / Des	sign:	\$0			
				Construction:		\$106,869		Cost Total:	\$106,869
				Annual Maint. Co	st:			Project Difference:	\$
				Maint. Year Start:					
Service Impact:	:								
None foreseen									
Project Justifica	ation:								
Replacement of	f old decking								

River's Edge



VALK-19-CIP	<u>Walkways</u>									
42-19-CIP	TART Trail Reconstruct	from Woodme	ere to Avenue	В						
Project Inform	nation									
Submitted By:	Russ Soyring	Dej	partment:	Planning and	d Zoning		Project Descripti	on:		
Category:	Maintenance	Dej	partment Head:	Frank Dituri			This section of TA	ART trail was cons	tructed in 1986 and is in ne	eed of
Fund Group:	General	Sta	ff Priority:	Important (C	ould Do)			0	Voodmere to Avenue B. Ro	
Fund Detail:	Walkways/Bike Paths	Co	uncil Priority:				future years without between Hastings	out root control. Ph s and Avenue B wi ,000. Phase 2 time	rface which will accelerate hase 1 includes the portion th a connector to Avenue I eline is yet to be determine	B and
TART Trail Reco	onstruct from Woodmere to Av	B- Cost				94	2-19-CIP-C			
Funding Source	es:									
		Previous	2019/2020	2020/2021	2021/20)22	2022/2023	2023/2024	2024/2025	Tota
GEN	General Fund	\$0	\$25,000	\$0	\$0		\$0	\$345,000	\$0	\$370,00
Р	Private	\$0	\$55,000	\$0	\$0		\$0	\$0	\$0	\$55,00
									Project Total:	\$425,00
				COST DETAIL:						
				Study:		\$0				
				Land Acquisition	/ ROW:	\$0				
				Engineering / Des	sign:	\$0				
				Construction:		\$50	0,000		Cost Total:	\$500,00
				Annual Maint. Co	st:				Project Difference:	\$-75,00
				Maint. Year Start:						
Service Impact:	:									
None.										

Project Justification:

Trail surface is deteriorating and width does not meet current standards.

Location Description:

TART Trail from Woodmere to Avenue B.



Six Year Capital Improvement Plan

All Projects Submitted for 2019-2020

Budget Year 2019-2020 b	y Program Name
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Project ID Cat Previous 2019-2020 2021-2021 2022-2023 2023-2024 2023-2026 2023-2000 2023-2000 2030	Bold - Indicates	s projects occurring in the first FY of the plan.												
Project ID Cat Previous 2019-2020 2021-2022 2022-2023 2022-2024 2024-2025 Cat Cat Fundal	+ - Indicates pr	ojects with multiple funding												
Mastewater Date Date Date Date Date Date Date 1981-19-CP 127 Strm Staver Repair/Remarkable Repair/Remarka										Fiscal Year	Project	City	Non-City	
1911-19-CP 12** Storm Sever Repail-Remained & C S0 S0 </td <td>Project ID</td> <td></td> <td>Cat</td> <td>Previous</td> <td>2019-2020</td> <td>2020-2021</td> <td>2021-2022</td> <td>2022-2023</td> <td>2023-2024</td> <td>2024-2025</td> <td>-</td> <td>Funds</td> <td>Funds</td>	Project ID		Cat	Previous	2019-2020	2020-2021	2021-2022	2022-2023	2023-2024	2024-2025	-	Funds	Funds	
March Mighta Value State Forder Lis To M S0 S0 S0 S100.000 S470.000 S470.000 <th< td=""><td>Wastewater</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></th<>	Wastewater													
Weilingon M S0 S450.000	1091-19-CIP	•	С	\$0	\$20,000	\$0	\$0	\$0	\$0	\$0	\$20,000	\$20,000	\$0	
Set-Is-CIP Annual Sever Rehab/Replace V S0 \$450,000 \$450,000 \$450,000 \$52,700,00 \$270,000 \$211,21,158 \$77 103-19-CIP Digester 5 Cleaning and Reconditioning M \$00 \$0 \$0 \$0 \$0 \$0 \$277,240 \$13,8,620 \$13,2,158 \$77 103-19-CIP Digester 5 Cleaning and Reconditioning M \$00 \$0 <td>1052-19-CIP</td> <td></td> <td>М</td> <td>\$0</td> <td>\$0</td> <td>\$0</td> <td>\$0</td> <td>\$0</td> <td>\$100,000</td> <td>\$0</td> <td>\$100,000</td> <td>\$100,000</td> <td>\$0</td>	1052-19-CIP		М	\$0	\$0	\$0	\$0	\$0	\$100,000	\$0	\$100,000	\$100,000	\$0	
1318-CIP Annual Stom Water Migt Program M S0 S50,000 S50,000 <td>+ 1044-19-CIP</td> <td>2nd Membrane Replacement</td> <td>М</td> <td>\$0</td> <td>\$0</td> <td>\$0</td> <td>\$0</td> <td>\$0</td> <td>\$0</td> <td>\$940,000</td> <td>\$940,000</td> <td>\$470,000</td> <td>\$470,000</td>	+ 1044-19-CIP	2nd Membrane Replacement	М	\$0	\$0	\$0	\$0	\$0	\$0	\$940,000	\$940,000	\$470,000	\$470,000	
+ 94619-CIP Digester 3 and 4 Reconditioning Equipment M \$608,188 \$349,313 \$638,334 \$319,1677 \$0 \$0 \$1,915,002 \$1,132,158 \$77 1036-19-CIP Digester 5 Cleaning and Reconditioning Equipment M \$0 \$0 \$0 \$0 \$0 \$0 \$1,132,158 \$77 1037-19-CIP Digester 5 Cleaning and Reconditioning Equipment M \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$1,132,158 \$77,240 \$138,620 \$13,132,158 \$77,240 \$13,8620 \$13,132,158 \$77,240 \$13,8620 \$13,132,158 \$13,112,158 \$17,152,158 \$17,152,158 \$13,152,158 \$13,152,158 \$13,152,158 \$13,152,158 \$13,152,158 \$13,152,158 \$13,152,158 \$13,152,158 \$13,152,158 \$13,150,000 \$250,000 \$250,000 \$250,000 \$250,000 \$30,000 \$30,000 \$30,000 \$30,000 \$30,000 \$30,000 \$30,000 \$30,000 \$30,000 \$30,000 \$30,000 \$30,000 \$30,000 \$30,000<	366-19-CIP	Annual Sewer Rehab/Replace	V	\$0	\$450,000	\$450,000	\$450,000	\$450,000	\$450,000	\$450,000	\$2,700,000	\$2,700,000	\$0	
+ 1036-19-CIP Equipment Digester 5 Cleaning and Reconditioning Equipment M \$0 \$0 \$0 \$277,240 \$0 \$0 \$277,240 \$138,620 \$137, \$137, \$137,400 1037-19-CIP Digester Gas Metring C \$0 \$0 \$0 \$70,000 \$0 \$0 \$70,000 \$35,000 \$33,000 \$33,000 \$33,000 \$33,000 \$33,000 \$30,000 \$250,000 \$250,000 \$250,000 \$250,000 \$250,000 \$30,	13-19-CIP	Annual Storm Water Mngt Program	М	\$0	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$300,000	\$300,000	\$0	
Equipment Equipment <t< td=""><td>+ 948-19-CIP</td><td>Digester 3 and 4 Reconditioning</td><td>М</td><td>\$608,188</td><td>\$349,313</td><td>\$638,334</td><td>\$319,167</td><td>\$0</td><td>\$0</td><td>\$0</td><td>\$1,915,002</td><td>\$1,132,158</td><td>\$782,845</td></t<>	+ 948-19-CIP	Digester 3 and 4 Reconditioning	М	\$608,188	\$349,313	\$638,334	\$319,167	\$0	\$0	\$0	\$1,915,002	\$1,132,158	\$782,845	
PT-19-CIP Enclose Membrane Trains C S0	+ 1036-19-CIP		М	\$0	\$0	\$0	\$0	\$277,240	\$0	\$0	\$277,240	\$138,620	\$138,620	
1000-19-CIP Engineering Eval/Cond Assess Birchwood-Bay SL S V S0 \$30,000 \$0 \$0 \$0 \$0 \$0 \$30,000	+ 1037-19-CIP	Digester Gas Metering	С	\$0	\$0	\$0	\$0	\$70,000	\$0	\$0	\$70,000	\$35,000	\$35,000	
Birchwood-Bay SL S Victor Name Victor Name <th colspan<="" td=""><td>• 971-19-CIP</td><td>Enclose Membrane Trains</td><td>С</td><td>\$0</td><td>\$0</td><td>\$0</td><td>\$0</td><td>\$0</td><td>\$0</td><td>\$500,000</td><td>\$500,000</td><td>\$250,000</td><td>\$250,000</td></th>	<td>• 971-19-CIP</td> <td>Enclose Membrane Trains</td> <td>С</td> <td>\$0</td> <td>\$0</td> <td>\$0</td> <td>\$0</td> <td>\$0</td> <td>\$0</td> <td>\$500,000</td> <td>\$500,000</td> <td>\$250,000</td> <td>\$250,000</td>	• 971-19-CIP	Enclose Membrane Trains	С	\$0	\$0	\$0	\$0	\$0	\$0	\$500,000	\$500,000	\$250,000	\$250,000
Interface Image: Control of Control o	1000-19-CIP		V	\$0	\$30,000	\$0	\$0	\$0	\$0	\$0	\$30,000	\$30,000	\$0	
Guard LS	1031-19-CIP	Engineering Eval/Cond Assess Woodmere LS	V	\$0	\$0	\$30,000	\$0	\$0	\$0	\$0	\$30,000	\$30,000	\$0	
Facility Plan Pacility Plan Main Pacility Pla	967-19-CIP	5 5	V	\$0	\$0	\$30,000	\$0	\$0	\$0	\$0	\$30,000	\$30,000	\$0	
Study Study <th< td=""><td>+ 1019-19-CIP</td><td></td><td>М</td><td>\$200,000</td><td>\$300,000</td><td>\$0</td><td>\$0</td><td>\$0</td><td>\$0</td><td>\$0</td><td>\$500,000</td><td>\$250,000</td><td>\$250,000</td></th<>	+ 1019-19-CIP		М	\$200,000	\$300,000	\$0	\$0	\$0	\$0	\$0	\$500,000	\$250,000	\$250,000	
Interaction	1002-19-CIP		V	\$0	\$0	\$50,000	\$0	\$0	\$0	\$0	\$50,000	\$50,000	\$0	
Interaction Line Membrane Distribution & RAS Channel M \$00 \$00 \$00 \$00 \$00 \$00 \$95,400 \$47,700 \$4 (4,7700) 1032-19-CIP New Portable Generator for Lift Stations C \$00 \$00 \$00 \$00 \$150,000 \$00 \$150,000 \$150,000 \$150,000 \$47,700 \$4 (4,7700) \$4 900-19-CIP New Portable Generator for Lift Stations C \$00 \$00 \$00 \$150,000 \$00 \$150,000 \$47,700 \$4 905-19-CIP Plant-Membrane Replacement M \$860,000 \$00 \$00 \$00 \$00 \$00 \$1,720,000 \$860,000 \$860 905-19-CIP Primary Clarifier Chain/Flight Replacement M \$00 \$00 \$1,000,000 \$00 \$1,000,000 \$500,000	1001-19-CIP	Front ST. LS- Upgrade	М	\$0	\$0	\$0	\$598,000	\$0	\$0	\$0	\$598,000	\$598,000	\$0	
Aeration Line Aeration	913-19-CIP	Lift Station Telemetry System	V	\$0	\$0	\$0	\$0	\$131,312	\$0	\$0	\$131,312	\$131,312	\$0	
+ 890-19-CIP Plant-Membrane Replacement M \$860,000 \$860,000 \$0 \$0 \$0 \$0 \$1,720,000 \$860,000 \$860,000 + 905-19-CIP Primary Clarifier Chain/Flight Replacement M \$0 \$0 \$0 \$1,000,000 \$0 \$0 \$0 \$1,000,000 \$500,0	+ 900-19-CIP		М	\$0	\$0	\$0	\$0	\$0	\$0	\$95,400	\$95,400	\$47,700	\$47,700	
+ 905-19-CIP Primary Clarifier Chain/Flight Replacement M \$0 \$0 \$0 \$1,000,000 \$0 \$0 \$1,000,000 \$50	1032-19-CIP	New Portable Generator for Lift Stations	С	\$0	\$0	\$0	\$0	\$0	\$150,000	\$0	\$150,000	\$150,000	\$0	
+ 904-19-CIP Primary Clarifier Supports and Structure M \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$251,226 \$25 + 902-19-CIP Primary Header Replacement M \$0 \$0 \$1,500,000 \$0 \$0 \$1,500,000 \$750,000 <	+ 890-19-CIP	Plant-Membrane Replacement	М	\$860,000	\$860,000	\$0	\$0	\$0	\$0	\$0	\$1,720,000	\$860,000	\$860,000	
• 902-19-CIP Primary Header Replacement M \$0 \$0 \$1,500,000 \$0 \$0 \$0 \$1,500,000 \$75	• 905-19-CIP	Primary Clarifier Chain/Flight Replacement	М	\$0	\$0	\$0	\$1,000,000	\$0	\$0	\$0	\$1,000,000	\$500,000	\$500,000	
	• 904-19-CIP	Primary Clarifier Supports and Structure	М	\$0	\$0	\$0	\$502,451	\$0	\$0	\$0	\$502,451	\$251,226	\$251,226	
+ 912-19-CIP Reconditioning Digesters 1 and 2 M \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	902-19-CIP	Primary Header Replacement	М	\$0	\$0	\$1,500,000	\$0	\$0	\$0	\$0	\$1,500,000	\$750,000	\$750,000	
	● 912-19-CIP	Reconditioning Digesters 1 and 2	М	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	



Six Year Capital Improvement Plan

Budget Year 2019-2020 by Program Name

All Projects Submitted for 2019-2020

Bold - Indicates	projects occurring in the first FY of the plan.											
+ - Indicates pro	ojects with multiple funding											
				Fiscal Year	Project	City	Non-City					
Project ID		Cat	Previous	2019-2020	2020-2021	2021-2022	2022-2023	2023-2024	2024-2025	Cost	Funds	Funds
Vastewater												
898-19-CIP	Riverine Lift Station Engineering Eval Etc.	М	\$0	\$0	\$0	\$0	\$112,865	\$0	\$0	\$112,865	\$112,865	\$0
1075-19-CIP	RWWTP-ADMINISTRATION BLDG HVAC UPGRADE	М	\$0	\$0	\$34,344	\$0	\$0	\$0	\$0	\$34,344	\$17,172	\$17,172
1079-19-CIP	RWWTP-AERATION BASIN AERATING EQUIPMENT UPGRADE	С	\$0	\$0	\$0	\$0	\$1,500,000	\$0	\$0	\$1,500,000	\$750,000	\$750,000
1077-19-CIP	RWWTP-BOILER CONTROLS UPGRADE	М	\$0	\$0	\$56,000	\$0	\$0	\$0	\$0	\$56,000	\$28,000	\$28,000
1076-19-CIP	RWWTP-CRANE AND HOIST PAINTING	М	\$0	\$0	\$50,000	\$0	\$0	\$0	\$0	\$50,000	\$25,000	\$25,000
1078-19-CIP	RWWTP-UPGRADE DIGESTED SOLIDS THICKENING EQUIPMENT	С	\$0	\$0	\$0	\$0	\$0	\$0	\$1,500,000	\$1,500,000	\$750,000	\$750,000
795-19-CIP	SCADA Upgrade	V	\$0	\$0	\$120,000	\$0	\$0	\$0	\$0	\$120,000	\$60,000	\$60,000
1073-19-CIP	Scour Air Blower Overhaul-5 blowers at TCRWWTP	М	\$45,000	\$47,250	\$47,250	\$48,250	\$48,250	\$0	\$0	\$236,000	\$118,000	\$118,000
893-19-CIP	Screw Pump 2 and 3 Replacement	М	\$0	\$0	\$0	\$1,160,000	\$0	\$0	\$0	\$1,160,000	\$580,000	\$580,000
970-19-CIP	TCRWWTP- PLC Upgrade	М	\$0	\$0	\$300,000	\$0	\$0	\$0	\$0	\$300,000	\$150,000	\$150,000
968-19-CIP	Upgrade Controls at 6 Lift Stations	М	\$0	\$0	\$0	\$0	\$184,440	\$0	\$0	\$184,440	\$184,440	\$0
1033-19-CIP	UV System and Related Structures Upgrade	С	\$0	\$0	\$0	\$0	\$0	\$3,000,000	\$0	\$3,000,000	\$1,500,000	\$1,500,000
764-19-CIP	Window Replacement 503 Hannah Ave.	V	\$0	\$0	\$60,000	\$0	\$0	\$0	\$0	\$60,000	\$60,000	\$0
1058-19-CIP	WW Gravity Main Rehab\Repair and PACP Inspections	М	\$0	\$0	\$0	\$0	\$385,000	\$385,000	\$385,000	\$1,155,000	\$1,155,000	\$0
1057-19-CIP	WW Manholes Rehab\Repair and MACP Inspections	М	\$0	\$0	\$0	\$0	\$50,000	\$50,000	\$50,000	\$150,000	\$150,000	\$0
otal Wastewa	ater		\$1,713,188	\$2,106,563	\$3,415,928	\$4,127,868	\$3,259,107	\$4,185,000	\$3,970,400	\$22,778,054	\$14,464,492	\$8,313,562



W-19-CIP	Westewa	tor							
	Wastewa								
91-19-CIP	12" Storm Sewer Repai	r-Ramsdell & V	Watch Hill Apts						
Project Inform	ation								
Submitted By:	Art Krueger	Dep	partment:	Department	of Municipal Utilitie	Project Descripti	on:		
Category:	Capital	Dep	partment Head:	Art Krueger		Replace approx.	180 LF of a problem	natic segment of existing 8	3" clay
Fund Group:	Waste Water	Sta	ff Priority:	Imperitive (N	/lust Do)			ric root problems have led	
Fund Detail:	Stormwater Fund	Cou	uncil Priority:			-		age occurred and the City t is all in a green area so	was
								new manhole is also neede	ed at
						the upstream end	1.		
	r Repair-Ramsdell & Watch ⊢	lill Apts			109	1-19-CIP-C			
Funding Source	IS:								
0	O survey Franci	Previous	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	2024/2025	Tota
S	Sewer Fund	\$0	\$20,000	\$0	\$0	\$0	\$0	\$0	\$20,000
								Project Total:	\$20,000
				COST DETAIL:					
				Study:	\$0				
				Land Acquisition	/ ROW : \$0				
				Engineering / Des	sign: \$0				
				Construction:	\$20,	000		Cost Total:	\$20,000
				Annual Maint. Co	st:			Project Difference:	\$0
				Maint. Year Start:					
Service Impact:									
Improvement wi	I decrease City's liability with	flooding issues a	and decrease long	term maintenanc	ce costs.				
Project Justifica	ation:								
Floject Justilica									

Off west end of Ramsdell, south near 720 Watch Hill to east toward Willow St.



<u>WW-19-CIP</u>	<u>Wastewater</u>								
1052-19-CIP	16" San. Forcemain East I	Front L.S. To	o Wellington						
Project Inform	ation								
Submitted By:	Art Krueger	De	partment:	Department	of Municipal Uti	litie Project Descri	ption:		
Category:	Maintenance	De	partment Head:	Art Krueger		Replace appro	x. 300 lineal feet of a	aging 16" forcemain from the	
Fund Group:	Waste Water	Sta	ff Priority:	Essential (S	hould Do)		-	ont Street to Wellington Stree	et.
Fund Detail:	Sewer Collection System	Co	uncil Priority:			This project wo Project.	ould be part of the Ea	ast Front St. Reconstruction	
16" San. Forcem	nain East Front L.S. To Wellingto	n				1052-19-CIP-C			
Funding Source	es:								
		Previous	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	2024/2025	Total
S	Sewer Fund	\$0	\$0	\$0	\$0	\$0	\$100,000	\$0	\$100,000
								Project Total:	\$100,000
				COST DETAIL:					
				Study:	\$	0			
				Land Acquisition	/ ROW: \$	0			
				Engineering / Des	sign: \$	0			
				Construction:	\$	100,000		Cost Total:	\$100,000
				Annual Maint. Co	st:			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-19-CIP	Wastewater								
1044-19-CIP	2nd Membrane Replaceme								
Project Inform									
Submitted By:	Elizabeth Hart	Dej	partment:	Department	of Municipal Utiliti	e Project Descript	on:		
Category:	Maintenance	Dej	partment Head:	Art Krueger				n year until all 8 trains of	
Fund Group:	Waste Water	Sta	ff Priority:	Essential (Sl	hould Do)			ject was moved out to start	
Fund Detail:	Sewer Plant and Buildings	Co	uncil Priority:			2024/2025 and ir	active for now.		
2nd Membrane	Replacement				1(944-19-CIP-C			
Funding Source	es:								
		Previous	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	2024/2025	Total
Р	Private	\$0	\$0	\$0	\$0	\$0	\$0	\$470,000	\$470,000
S	Sewer Fund	\$0	\$0	\$0	\$0	\$0	\$0	\$470,000	\$470,000
								Project Total:	\$940,000
				COST DETAIL:					
				Study:	\$0				
				Land Acquisition	/ ROW: \$0				
				Engineering / Des	sign: \$0				
				Construction:	\$94	10,000		Cost Total:	\$940,000
				Annual Maint. Co	st:			Project Difference:	\$0
				Maint. Year Start:					

Service Impact:

This project will allow the waste water treatment facility to maintain plant capacity, ensuring we can permeate at a rate that meets influent flow demands. Outside the initial purchase of the replacement membrane, there is very little future anticipated maintenance costs. It is recommended that the City budget to replace this train of membranes 8 years after its installation, however, 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



<u>WW-19-CIP</u>	Wastewater	<u>.</u>								
366-19-CIP	Annual Sewer Rehab/Rep	lace								
Project Inform	ation									
Submitted By:	Justin Roy	De	partment:	Department	of Municipal	l Utilitie	Project Descripti	on:		
Category:	Visionary	De	partment Head:	Art Krueger			Provide \$450,000	annually in both	the water and wastewater	funds
Fund Group:	Waste Water	Sta	ff Priority:	Imperitive (N	/lust Do)		-		nts (repair and replacemer	it) of
Fund Detail:	Sewer Collection System	Co	uncil Priority:				our underground	Intrastructure.		
Annual Sewer R	ehab/Replace - Cost					366	-19-CIP-C			
Funding Source	es:									
		Previous	2019/2020	2020/2021	2021/20	022	2022/2023	2023/2024	2024/2025	Tota
S	Sewer Fund	\$0	\$450,000	\$450,000	\$450,0	00	\$450,000	\$450,000	\$450,000	\$2,700,000
									Project Total:	\$2,700,000
				COST DETAIL:						
				Study:		\$0				
				Land Acquisition	/ ROW:	\$0				
				Engineering / Des	sign:	\$0				
				Construction:		\$2,70	00,000		Cost Total:	\$2,700,000
				Annual Maint. Co	st:				Project Difference:	\$0
				Maint. Year Start:						
Service Impact:										

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.



	Westewate	-							
<u>W-19-CIP</u>	Wastewate	<u>r</u>							
-19-CIP	Annual Storm Water Mng	t Program							
Project Inform	nation								
Submitted By:	Tim Lodge	Dep	partment:	Department of	of Municipal Utilitie	Project Descript	on:		
Category:	Maintenance	Dep	partment Head:	Art Krueger		This line item will	guarantee funds to	construct and repair city	storm
Fund Group:	Waste Water	Sta	ff Priority:	Essential (Sh	ould Do)			disconnect sanitary sewer	s as
Fund Detail:	Sewer Collection System	Cou	uncil Priority:			well as construct	water quality relate	d infrastructure.	
Annual Storm V	Vater Management Program - C	ost			13-	19-CIP-C			
Funding Source	es:								
		Previous	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	2024/2025	Tota
S	Sewer Fund	\$0	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$300,00
								Project Total:	\$300,00
				COST DETAIL:					
			:	Study:	\$0				
			I	Land Acquisition	ROW: \$0				
				Engineering / Des	ign: \$0				
				Construction:	\$300	0,000		Cost Total:	\$300,00
				Annual Maint. Cos	st:			Project Difference:	\$
			I	Maint. Year Start:					
Service Impact									
Will require ope	eration, maintenance, and replace	ement as addit	tional infrastructur	e is installed.					

To maintain and improve water quality.

Location Description:

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



<u>WW-19-CIP</u>	<u>Wastewater</u>								
948-19-CIP	Digester 3 and 4 Recondit	ioning							
Project Inform	ation								
Submitted By:	Elizabeth Hart	Dep	partment:	Department of	f Municipal Utiliti	e Project Descript	on:		
Category:	Maintenance	Dep	partment Head:	Art Krueger		Perform actions of	outlined by third par	ty condition assessment	of
Fund Group:	Waste Water	Sta	ff Priority:	Imperitive (Mu	ust Do)	digesters.Cost is	TBD by condition a	ssessment.	
Fund Detail:	Sewer Plant and Buildings	Cou	uncil Priority:						
Digester 3 and 4	Reconditioning per 2017/2 - Co	st			94	8-19-CIP-C			
Funding Source	s:								
		Previous	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	2024/2025	Total
Р	Private	\$304,094	\$174,657	\$319,167	\$159,584	\$0	\$0	\$0	\$957,501
S	Sewer Fund	\$304,094	\$174,657	\$319,167	\$159,584	\$0	\$0	\$0	\$957,501
								Project Total:	\$1,915,002
				COST DETAIL:					
				Study:	\$0				
				Land Acquisition /	ROW: \$0				
				Engineering / Desig	gn: \$0				
				Construction:	\$1,	915,002		Cost Total:	\$1,915,002
				Annual Maint. Cost	:			Project Difference:	\$0
				Maint. Year Start:					

Service Impact:

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

Project Justification:

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

Location Description:



<u>WW-19-CIP</u>	Wastewate	<u>r</u>								
1036-19-CIP	Digester 5 Cleaning and	Reconditioni	ng Equipment							
Project Inform	nation									
Submitted By:	Elizabeth Hart	De	partment:	Department	of Municipal Utiliti	e Project Descript	on:			
Category:	Maintenance	De	partment Head:	Art Krueger		Clean digester 5,	re-coat concrete if	needed, refurbishing of e	xisting	
Fund Group:	Waste Water	Sta	ff Priority:			centrifugal pumps used for mixing, and purchase of 1 new pump to				
Fund Detail:	Sewer Plant and Buildings	S Co	uncil Priority:			add redundancy.				
Digester 5 Clear	ning and Reconditioning Equipn	nent			10	36-19-CIP-C				
Funding Source	es:									
		Previous	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	2024/2025	Total	
Р	Private	\$0	\$0	\$0	\$0	\$138,620	\$0	\$0	\$138,620	
S	Sewer Fund	\$0	\$0	\$0	\$0	\$138,620	\$0	\$0	\$138,620	
								Project Total:	\$277,240	
				COST DETAIL:						
				Study:	\$0					
				Land Acquisition	/ ROW : \$0					
				Engineering / Des	sign: \$0					
				Construction:	\$27	7,240		Cost Total:	\$277,240	
				Annual Maint. Co	st:			Project Difference:	\$0	
				Maint. Year Start:						
Somico Impost										

Service Impact:

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

Project Justification:

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

Location Description:



WW-19-CIP	Wastewater								
1037-19-CIP	Digester Gas Metering								
Project Inform	nation								
Submitted By:	Elizabeth Hart	Dep	partment:	Department	of Municipal Utili	ie Project Descrip	tion:		
Category:	Capital	Dep	partment Head:	Art Krueger		Add metering a	nd monitoring capab	ilities to the digester gas	
Fund Group:	Waste Water	Sta	ff Priority:	Important (C	ould Do)	system.			
Fund Detail:	Sewer Plant and Buildings	Со	uncil Priority:						
Digester Gas M	etering				1	037-19-CIP-C			
Funding Source	es:								
		Previous	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	2024/2025	Total
Р	Private	\$0	\$0	\$0	\$0	\$35,000	\$0	\$0	\$35,000
S	Sewer Fund	\$0	\$0	\$0	\$0	\$35,000	\$0	\$0	\$35,000
								Project Total:	\$70,000
				COST DETAIL:					
				Study:	\$C				
				Land Acquisition	/ ROW: \$0				
				Engineering / Des	ign: \$C				
				Construction:	\$7	0,000		Cost Total:	\$70,000
				Annual Maint. Cos	st:			Project Difference:	\$0
				Maint. Year Start:					
0									

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:



<u>WW-19-CIP</u>	<u>Wastewater</u>										
971-19-CIP	Enclose Membrane Trains										
Project Inform	ation										
Submitted By:	Elizabeth Hart	Dej	partment:	Department	of Municipal Utiliti	e Project Descript	ion:				
Category:	Capital	Dej	partment Head:	Art Krueger		Construct a build	Construct a building around membrane trains to keep them out of				
Fund Group:	Waste Water	Sta	ff Priority:	Important (C	Could Do)		the elements preventing possible freezing, etc., and making it				
Fund Detail:	Sewer Plant and Buildings	Co	uncil Priority:				covery cleaning in th 24/2025 and is inact	he winter months. Project wa tive for now.	as		
Enclose Membra	ane Trains - Cost				97	'1-19-CIP-C					
Funding Source	es:										
		Previous	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	2024/2025	Total		
Р	Private	\$0	\$0	\$0	\$0	\$0	\$0	\$250,000	\$250,000		
S	Sewer Fund	\$0	\$0	\$0	\$0	\$0	\$0	\$250,000	\$250,000		
								Project Total:	\$500,000		
				COST DETAIL:							
				Study:	\$0						
				Land Acquisition	/ ROW : \$0						
				Engineering / Des	sign: \$0						
				Construction:	\$5	00,000		Cost Total:	\$500,000		
				Annual Maint. Co	st:			Project Difference:	\$0		
				Maint. Year Start:							

Service Impact:

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

Project Justification:

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

Location Description:



WW-19-CIP	Wastewater									
1000-19-CIP	Engineering Eval/Cond As	ssess Birch	wood-Bay St L	S						
Project Inform	nation									
Submitted By:	Elizabeth Hart	Dej	partment:	Department	of Municipal Uti	litie P	Project Descripti	on:		
Category:	Visionary	Dej	partment Head:	Art Krueger		A	An engineering e	valuation at Birch	wood and Bay St Lift Statior	าร
Fund Group:	Waste Water	Sta	ff Priority:	Essential (S	hould Do)	•			acity, its structural condition,	and
Fund Detail:	Sewer Collection System	Co	uncil Priority:			iC		l equipment upgra	iues.	
Engineering Eva	al/Cond Assess Birchwood & Bay	/ St LS				1000-1	9-CIP-C			
Funding Source	es:									
		Previous	2019/2020	2020/2021	2021/2022		2022/2023	2023/2024	2024/2025	Total
S	Sewer Fund	\$0	\$30,000	\$0	\$0		\$0	\$0	\$0	\$30,000
									Project Total:	\$30,000
				COST DETAIL:						
				Study:	\$	60				
				Land Acquisition	/ ROW: \$	60				
				Engineering / Des	sign: \$	\$30,000)			
				Construction:	\$	60			Cost Total:	\$30,000
				Annual Maint. Co	st:				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:

Birchwood- 2060 E. Front St., Bay St-580 Bay St.



<u>WW-19-CIP</u>	Wastewater									
1031-19-CIP	Engineering Eval/Cond As	sess Wood	mere LS							
Project Inform	nation									
Submitted By:	Elizabeth Hart	Dej	partment:	Department	of Municipal Util	litie P	Project Descripti	on:		
Category:	Visionary	Dej	partment Head:	Art Krueger		E	Evaluate current o	capacity and cond	ition of the lift stations devise	
Fund Group:	Waste Water	Sta	ff Priority:	Essential (Sh	nould Do)	е	engineering plan	for addressing an	y needs.	
Fund Detail:	Sewer Collection System	Co	uncil Priority:							
Engineering Eva	al/Cond Assessment Woodmere	LS				1031-1	19-CIP-C			
Funding Source	es:									
		Previous	2019/2020	2020/2021	2021/2022		2022/2023	2023/2024	2024/2025	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 / Des	ign: \$	30,000)			
				Construction:	\$	0			Cost Total:	\$30,000
				Annual Maint. Cos	st:				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 lift station is 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.



<u>WW-19-CIP</u>	Wastewater								
967-19-CIP	Engineering Evaluation of	Clinch -Co	ast Guard LS						
Project Inform	nation								
Submitted By:	Elizabeth Hart	De	partment:	Department	of Municipal Uti	itie Project Desci	iption:		
Category:	Visionary	De	partment Head:	Art Krueger		Evaluate curr	ent capacity and cond	dition of the lift stations devis	se
Fund Group:	Waste Water	Sta	ff Priority:	Essential (SI	hould Do)	engineering p	lan for addressing an	y needs.	
Fund Detail:	Sewer Collection System	Co	uncil Priority:						
Engineering Eva	aluation-Clinch -Coast Guard- Co	ost				967-19-CIP-C			
Funding Source	es:								
		Previous	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	2024/2025	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 / Des	ign: \$	30,000			
				Construction:	\$	0		Cost Total:	\$30,000
				Annual Maint. Cos	st:			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.



W-19-CIP	Wastewater								
019-19-CIP	Engineering study pertain	ing to the F	acility Plan						
Project Inform	ation								
Submitted By:	Elizabeth Hart	Dep	partment:	Department	of Municipal Utili	tie Project De	scription:		
Category:	Maintenance	Dep	artment Head:	Art Krueger		There are	portions of the facility th	at range from 44-58 years	of age.
Fund Group:	Waste Water	Sta	ff Priority:	Imperitive (N	/lust Do)	•		ation, and in some cases fa	
Fund Detail:	Sewer Plant and Buildings	Соц	Incil Priority:				engineering study need	at outlines these areas, and Is to be performed to detail	
Enigneering stud	dy pertaining to the Facility Plan					019-19-CIP-C			
Funding Source	es:								
		Previous	2019/2020	2020/2021	2021/2022	2022/20		2024/2025	Total
Р	Private	\$100,000	\$150,000	\$0	\$0	\$0	\$0	\$0	\$250,000
S	Sewer Fund	\$100,000	\$150,000	\$0	\$0	\$0	\$0	\$0	\$250,000
								Project Total:	\$500,000
				COST DETAIL:					
				Study:	\$0)			
				Land Acquisition	/ ROW: \$0)			
				Engineering / Des	sign: \$	500,000			
				Construction:	\$()		Cost Total:	\$500,000
				Annual Maint. Co	st:			Project Difference:	\$0
				Maint. Year Start:					
Service Impact:									
Systematically id	dentifies and prioritizes issues at	the facility, ar	nd estimates the	cost/benefits of ad	dressing these is	sues.			

Project Justification:

This project will ensure that the facility will be able to treat waste and produce an effluent that meets its NPDES permit requirements.

Location Description:



W	<u>W-19-CIP</u>	<u>Wastewater</u>									
10	02-19-CIP	Front St LS- Engineering I	Evaluation/0	Capacity Study	,						
	Project Informa	ation									
	Submitted By:	Elizabeth Hart	Dej	partment:	Department	of Municipal Ut	ilitie	Project Descripti	on:		
	Category:	Visionary	Dej	partment Head:	Art Krueger			Engineering study	/ to evaluate the o	capacity of the lift station,	
	Fund Group:	Waste Water	Sta	ff Priority:	Essential (Sl	hould Do)				n (including the wet well), and	
	Fund Detail:	Sewer Collection System	Co	uncil Priority:				options for equipr	nent upgrades.		
	Front St LS- Eng	ineering Evaluation					1002	-19-CIP-C			
	Funding Sources	s:									
			Previous	2019/2020	2020/2021	2021/2022	2	2022/2023	2023/2024	2024/2025	Total
	S	Sewer Fund	\$0	\$0	\$50,000	\$0		\$0	\$0	\$0	\$50,000
										Project Total:	\$50,000
					COST DETAIL:						
					Study:	ŝ	\$0				
					Land Acquisition	/ ROW: 5	\$0				
					Engineering / Des	sign:	\$50,0	00			
					Construction:	5	\$0			Cost Total:	\$50,000
					Annual Maint. Co	st:				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.



<u>WW-19-CIP</u>	<u>Wastewater</u>									
1001-19-CIP	Front ST. LS- Upgrade									
Project Inform	ation									
Submitted By:	Elizabeth Hart	Dep	partment:	Department o	f Municipal Util	itie	Project Descripti	on:		
Category:	Maintenance	Dep	partment Head:	Art Krueger					Ds in place that have an e	
Fund Group:	Waste Water	Sta	ff Priority:	Essential (Sh	ould Do)			-	s will be in service 9 years II, bypass capability, piping	-
Fund Detail:	Sewer Collection System	Cou	uncil Priority:						graded to add dependabili	
							-		te and will be subject to ch	ange
Front ST. LS-VF	D Pipe&Pump Wet Well Upgrade	e					once the 2020-20 -19-CIP-C	21 engineering st	udy has been performed.	
Funding Source	s:									
		Previous	2019/2020	2020/2021	2021/2022		2022/2023	2023/2024	2024/2025	Total
S	Sewer Fund	\$0	\$0	\$0	\$598,000		\$0	\$0	\$0	\$598,000
									Project Total:	\$598,000
				COST DETAIL:						
				Study:	\$	0				
				Land Acquisition /	ROW: \$	0				
				Engineering / Desi	gn: \$	0				
				Construction:	\$	598,0	000		Cost Total:	\$598,000
				Annual Maint. Cos	t:				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 waste water can be properly conducted to the treatment plant for treatment. Helps to plan and budgeted any needed upgrades.

Location Description:

Front St.



<u>/W-19-CIP</u>	Wastewater	<u>r</u>								
13-19-CIP	Lift Station Telemetry Sys	stem								
Project Inform	ation									
Submitted By:	Elizabeth Hart	Dej	partment:	Department	of Municipal Utilit	e Project Descript	ion:			
Category:	Visionary	Dej	partment Head:	Art Krueger		Add and or upgra	ade telemetry at the	e following lift		
Fund Group:	Waste Water	Sta	ff Priority:	Important (C	ould Do)		od, Bay St., Woodn	nere, Coast Guard, Clinch	Park,	
Fund Detail:	Sewer Collection System	Co	uncil Priority:		and Riverine	erine				
Lift Station Telen	netry System for 6 Lift Station				9	13-19-CIP-C				
Funding Source	es:									
		Previous	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	2024/2025	Tota	
S	Sewer Fund	\$0	\$0	\$0	\$0	\$131,312	\$0	\$0	\$131,312	
								Project Total:	\$131,312	
				COST DETAIL:						
				Study:	\$0					
				Land Acquisition	/ ROW : \$0					
				Engineering / Des	i gn: \$0					
				Construction:	\$1	31,312		Cost Total:	\$131,312	
				Annual Maint. Cos	st:			Project Difference:	\$0	
				Maint. Year Start:						
Service Impact:										
This would allow	for real time monitoring of the l	ift stations red	ucing operationa	al vulnerabilities, and	d add trending ca	pabilities.				

Project Justification:

Would improve the capability of monitoring lift station operations, reduce vulnerabilities related to lift station failures, and adds trending capabilities.

Location Description:

606 Hannah



WW-19-CIP	<u>Wastewate</u>	<u>r</u>								
900-19-CIP	Membrane Distribution &	RAS Chann	el Aeration Lin	le						
Project Inform	nation									
Submitted By:	Elizabeth Hart	Dej	partment:	Department	of Municipal Utilit	e Project Descript	ion:			
Category:	Maintenance	Dej	partment Head:	Art Krueger		Remove and rep	lace aging aeration	line in the membrane		
Fund Group:	Waste Water	Sta	ff Priority:	Essential (Should Do)			distribution and RAS channel with SCH 80 PVC. This project was			
Fund Detail:	Sewer Plant and Buildings	G Co	uncil Priority:			moved out to 20	24/2025 and is inact	ive for now.		
Membrane Distr	ribution and RAS Channel Aera	- Cost			9	00-19-CIP-C				
Funding Source	es:									
		Previous	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	2024/2025	Total	
Р	Private	\$0	\$0	\$0	\$0	\$0	\$0	\$47,700	\$47,700	
S	Sewer Fund	\$0	\$0	\$0	\$0	\$0	\$0	\$47,700	\$47,700	
								Project Total:	\$95,400	
				COST DETAIL:						
				Study:	\$0					
				Land Acquisition	/ ROW : \$0					
				Engineering / Des	s ign: \$0					
				Construction:	\$9	5,400		Cost Total:	\$95,400	
				Annual Maint. Co	st:			Project Difference:	\$0	
				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:



<u>/W-19-CIP</u>	Wastewater	•							
032-19-CIP	New Portable Generator for	or Lift Statio	ns						
Project Inform	ation								
Submitted By:	Elizabeth Hart	Dep	artment:	Department	of Municipal Utiliti	e Project Descript	ion:		
Category:	Capital	Dep	artment Head:	Art Krueger		Current generato	or is obsolete as of 2	017. Parts are difficult to	obtain
Fund Group:	Waste Water	Sta	if Priority:	Imperitive (M	lust Do)	•	•	This generator would be u	
Fund Detail:	Sewer Collection System	Coι	Incil Priority:			outages.	overnows at lift stat	ions in the event of powe	ſ
New Portable Ge	enerator for Lift Stations				1()32-19-CIP-C			
Funding Source	s:								
		Previous	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	2024/2025	Tota
S	Sewer Fund	\$0	\$0	\$0	\$0	\$0	\$150,000	\$0	\$150,000
								Project Total:	\$150,000
				COST DETAIL:					
				Study:	\$0				
				Land Acquisition	ROW: \$0				
				Engineering / Des	ign: \$0				
				Construction:	\$1	50,000		Cost Total:	\$150,000
				Annual Maint. Cos	st:			Project Difference:	\$0
				Maint. Year Start:					
Service Impact:									
Allows critical lift	stations to stay in operation wh	en line power	is unavailable pi	eventing sewer bac	kups, and overflo	WS.			

Project Justification:

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

Location Description:



WW-19-CIP	<u>Wastewater</u>								
890-19-CIP	Plant-Membrane Replacen	nent							
Project Inform	nation								
Submitted By:	Elizabeth Hart	Dep	partment:	Department	of Municipal Utiliti	e Project Descript	ion:		
Category:	Maintenance	Dep	artment Head:	Art Krueger		Replace 1 Train	of Membranes each	year until remaining 4 tr	ains of
Fund Group:	Waste Water	Stat	ff Priority:	Imperitive (M	ust Do)	500C membrane	cassettes are repla	ced.	
Fund Detail:	Sewer Plant and Buildings	Coι	Incil Priority:						
Plant-Membran	e Replacement - Cost				89	90-19-CIP-C			
Funding Source	es:								
		Previous	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	2024/2025	Total
Р	Private	\$430,000	\$430,000	\$0	\$0	\$0	\$0	\$0	\$860,000
S	Sewer Fund	\$430,000	\$430,000	\$0	\$0	\$0	\$0	\$0	\$860,000
								Project Total:	\$1,720,000
				COST DETAIL:					
				Study:	\$0				
				Land Acquisition	ROW: \$0				
				Engineering / Des	ign: \$0				
				Construction:	\$1,	720,000		Cost Total:	\$1,720,000
				Annual Maint. Cos	st:			Project Difference:	\$0
				Maint. Year Start:					

Service Impact:

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

Project Justification:

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

Location Description:

606 Hannah



<u>WW-19-CIP</u>	Wastewater	<u>r</u>							
905-19-CIP	Primary Clarifier Chain/Fl	ight Replace	ement						
Project Inform	nation								
Submitted By:	Elizabeth Hart	Dej	partment:	Department of I	Municipal Utilitie	Project Descript	on:		
Category:	Maintenance	Dej	partment Head:	Art Krueger		Replace the chai	ns and flights in al	8 Primary Clarifiers.	
Fund Group:	Waste Water	Sta	ff Priority:	Imperitive (Mus	t Do)				
Fund Detail:	Sewer Plant and Buildings	Co	uncil Priority:						
Replace the Cha	ains and Flights in Primary - Co	st			905	-19-CIP-C			
Funding Source	es:								
		Previous	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	2024/2025	Total
Р	Private	\$0	\$0	\$0	\$500,000	\$0	\$0	\$0	\$500,000
S	Sewer Fund	\$0	\$0	\$0	\$500,000	\$0	\$0	\$0	\$500,000
								Project Total:	\$1,000,000
				COST DETAIL:					
				Study:	\$0				
				Land Acquisition / R	ow : \$0				
				Engineering / Desigr	n: \$0				
				Construction:	\$1,0	00,000		Cost Total:	\$1,000,000
				Annual Maint. Cost:				Project Difference:	\$0
				Maint. Year Start:					
0									

Service Impact:

The primary clarifiers are rectangular tanks that allow for the solids in the waste water ,that are large enough, to settle, to do so this, reduces the load on the downstream processes saving money and helping to protect the longevity of the membranes. The chain and flight mechanism in these tanks collects the settled and floating solids so they can be pumped to the digesters for stabilization. These mechanisms have met the end of their useful life, and if they fail a tank has to be taken out of service reducing the effectiveness of the process itself.

Project Justification:

Properly maintain the equipment and processes at the treatment facility to meet the requirements of the NPDES permit.

Location Description:



<u>Wastewater</u>								
Primary Clarifier Supports	and Struct	ure						
ation								
Elizabeth Hart	Dep	partment:	Department of	Municipal Utilitie	Project Descript	ion:		
Maintenance	Dep	partment Head:	Art Krueger		Replace support	beams and bracket	s in all 8 Primary Clarifiers	6.
Waste Water	Sta	ff Priority:	Imperitive (Mu	st Do)	Repair and recoa	t the concrete in all	8 Primary Clarifiers.	
Sewer Plant and Buildings	Cou	uncil Priority:						
Supports and Structure - Cost				90	4-19-CIP-C			
s:								
	Previous	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	2024/2025	Tota
Private	\$0	\$0	\$0	\$251,226	\$0	\$0	\$0	\$251,226
Sewer Fund	\$0	\$0	\$0	\$251,226	\$0	\$0	\$0	\$251,226
							Project Total:	\$502,451
			COST DETAIL:					
			Study:	\$0				
			Land Acquisition / F	ROW: \$0				
			Engineering / Desig	jn: \$0				
			Construction:	\$50	2,451		Cost Total:	\$502,451
			Annual Maint. Cost:	:			Project Difference:	\$0
			Maint. Year Start:					
5	Primary Clarifier Supports Ition Elizabeth Hart Maintenance Waste Water Sewer Plant and Buildings Supports and Structure - Cost	Primary Clarifier Supports and Structure ation Elizabeth Hart Deg Maintenance Deg Waste Water Sta Sewer Plant and Buildings Con Supports and Structure - Cost Private \$0	Primary Clarifier Supports and Structure Ition Department: Elizabeth Hart Department: Maintenance Department Head: Waste Water Staff Priority: Sewer Plant and Buildings Council Priority: Supports and Structure - Cost Previous 2019/2020 Private \$0 \$0	Primary Clarifier Supports and Structure ttion Elizabeth Hart Department: Department of Maintenance Department Head: Art Krueger Waste Water Staff Priority: Imperitive (Mu Sewer Plant and Buildings Council Priority: Imperitive (Mu Supports and Structure - Cost Previous 2019/2020 2020/2021 Private \$0 \$0 \$0 Sewer Fund \$0 \$0 \$0 Vaste Vater \$0 \$0 \$0 Private \$0 \$0 \$0 Sewer Fund \$0 \$0 \$0	Primary Clarifier Supports and Structure ntion Department: Department of Municipal Utilitie Maintenance Department Head: Art Krueger Waste Water Staff Priority: Imperitive (Must Do) Sewer Plant and Buildings Council Priority: 90 Supports and Structure - Cost Previous 2019/2020 2020/2021 2021/2022 Sewer Fund \$0 \$0 \$0 \$251,226 Sewer Fund \$0 \$0 \$0 \$251,226 Sewer Fund \$0 \$0 \$0 \$251,226 Sewer Fund \$0 \$0 \$0 \$0 \$0 Land Acquisition / ROW: \$0 \$0 \$0 \$0 \$0 Engineering / Design: \$0 \$0 \$0 \$0 \$0 Image: Sever Fund Image: Sever Fund Sever Fund \$0 \$0 \$0 \$0 Study: Sever Fund So \$0 \$0 \$0 \$0 Land Acquisition / ROW: \$0 \$0 \$0 \$0 \$0 \$0 Land Acquisition	Primary Clarifier Supports and Structure ttion Department : Department of Municipal Utilitie Project Descripti Maintenance Department Head: Art Krueger Replace support Waste Water Staff Priority: Imperitive (Must Do) Replace support Sewer Plant and Buildings Council Priority: 904-19-CIP-C Supports and Structure - Cost Previous 2019/2020 2020/2021 2021/2022 2022/2023 Private \$0 \$0 \$0 \$251,226 \$0 \$0 Sewer Fund \$0 \$0 \$0 \$251,226 \$0 \$0 Land Acquisition / ROW: \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 Land Acquisition / ROW: \$0 \$0 Engineering / Design: \$0 \$00 \$00 \$00 \$00 \$00 \$00 \$00 \$0	Primary Clarifier Supports and Structure thion Elizabeth Hart Department: Department of Municipal Utilitie Project Description: Maintenance Department Head: Art Krueger Replace support beams and bracket Waste Water Staff Priority: Imperitive (Must Do) Replace support beams and bracket Sewer Plant and Buildings Council Priority: 904-19-CIP-C Staff Priority: 2019/2020 2020/2021 2021/2022 2022/2023 2023/2024 Private \$0 \$0 \$0 \$251,226 \$0 \$0 Sewer Fund \$0 \$0 \$0 \$251,226 \$0 \$0 Sewer Fund \$0 \$0 \$0 \$0 \$0 \$0 \$0 Land Acquisition / ROW: \$0 \$0 Land Acquisition / ROW: \$0 Engineering / Design: \$0 Lanual Maint: Cost: Kutuel Kutuel Kutuel Kutuel Kutuel Kutuel	Primary Clarifier Supports and Structure tition Elizabeth Hart Department: Department dead: Art Krueger Replace support beams and brackets in all 8 Primary Clarifiers Maintenance Department Head: Art Krueger Replace support beams and brackets in all 8 Primary Clarifiers Waste Water Staff Priority: Imperitive (Must Do) Replare and recoat the concrete in all 8 Primary Clarifiers Supports and Structure - Cost Previous 2019/2020 2020/2021 2021/2022 2022/2023 2023/2024 2024/2025 Supports and Structure - Cost Previous 2019/2020 2020/2021 2021/2022 2022/2023 2023/2024 2024/2025 Sewer Fund S0 \$0 <

Service Impact:

This project would replace the brackets and beams that the covers on the primary clarifier tanks rest. Without the covers in place odors associated with raw sewage will escape into the neighboring locations.

Project Justification:

Public interest-Without the covers in place odors will escape into the neighboring locations.

Location Description:



<u>WW-19-CIP</u>	<u>Wastewater</u>								
902-19-CIP	Primary Header Replacem	ent							
Project Inform	ation								
Submitted By:	Elizabeth Hart	Dej	partment:	Department	of Municipal Utilit	e Project Descript	ion:		
Category:	Maintenance	Dej	partment Head:	Art Krueger		The top of the He	eader has some exp	oosed areas. Header has	never
Fund Group:	Waste Water	Sta	ff Priority:	Imperitive (N	lust Do)	been full so does	sn't leak, but should	be repaired.	
Fund Detail:	Sewer Plant and Buildings	Co	uncil Priority:						
Primary Header	Replacement - Cost				9	02-19-CIP-C			
Funding Source	s:								
		Previous	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	2024/2025	Total
Р	Private	\$0	\$0	\$750,000	\$0	\$0	\$0	\$0	\$750,000
S	Sewer Fund	\$0	\$0	\$750,000	\$0	\$0	\$0	\$0	\$750,000
								Project Total:	\$1,500,000
				COST DETAIL:					
				Study:	\$0				
				Land Acquisition	ROW: \$0				
				Engineering / Des	ign: \$0				
				Construction:	\$1	500,000		Cost Total:	\$1,500,000
				Annual Maint. Cos	st:			Project Difference:	\$0
				Maint. Year Start:					

Service Impact:

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

Project Justification:

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

Location Description:



<u>WW-19-CIP</u>	<u>Wastewater</u>								
912-19-CIP	Reconditioning Digesters	1 and 2							
Project Inform	nation								
Submitted By:	Elizabeth Hart	Dej	partment:	Department	of Municipal Utilit	ie Project Descript	ion:		
Category:	Maintenance	Dej	partment Head:	Art Krueger		Install flame arre	stors, and PRVs. Id	entify and seal all leaks	s. Test
Fund Group:	Waste Water	Sta	ff Priority:	Important (C	ould Do)		-	Subject to engineering	-
Fund Detail:	Sewer Plant and Buildings	Co	uncil Priority:				om facility plan comp o 2024/2025 and is	oletion in 2018-2019. F inactive for now.	roject
Reconditioning	Digesters 1 and 2 - Cost				9	12-19-CIP-C			
Funding Source	es:								
		Previous	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	2024/2025	
Р	Private	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
S	Sewer Fund	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
								Project Total:	
				COST DETAIL:					
				Study:	\$0				
				Land Acquisition	/ ROW : \$0				
				Engineering / Des	sign: \$0				
				Construction:	\$8	0,000		Cost Total:	
				Annual Maint. Cos	st:			Project Difference:	
				Maint. Year Start:					

Total

\$0

\$0 \$0

\$80,000 \$-80,000

Service Impact:

Digesters 1 and 2 are out of service because they aren't in proper condition to be used for sludge stabilization. Refurbishing the digesters to full operability will increase the capacity of the sludge stabilization process, improve the quality of the digester gas, possibly increase digester gas production and thus allow us to extend our use of the gas reducing the amount of natural gas used at the facility.

Project Justification:

Improves biosolids quality and methane gas quality-This project would increase the capacity of the sludge stabilization process, reduce the amount of solids needing to be land applied, improve the quality of the digester gas, and possibly the quantity.

Location Description:



<u>WW-19-CIP</u>	Wastewater								
898-19-CIP	Riverine Lift Station Engir	neering Eval	Etc.						
Project Inform	ation								
Submitted By:	Elizabeth Hart	Dep	partment:	Department	of Municipal Utilit	e Project Descript	ion:		
Category:	Maintenance	Dep	partment Head:	Art Krueger		Engineering stud	y to evaluate the ca	pacity of the lift station,	
Fund Group:	Waste Water	Sta	ff Priority:	Essential (Sl	hould Do)			and options for equipment	
Fund Detail:	Sewer Collection System	Cou	uncil Priority:			maybe-replace p	des as defined by e umps, check valves nd replace cathodic	, add a wet well mixer,reline	e
Riverine Lift Stat	ion Engineering Eval etc.				8	98-19-CIP-C		•	
Funding Source	s:								
		Previous	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	2024/2025	Total
S	Sewer Fund	\$0	\$0	\$0	\$0	\$112,865	\$0	\$0	\$112,865
								Project Total:	\$112,865
				COST DETAIL:					
				Study:	\$0				
				Land Acquisition	/ ROW: \$0				
				Engineering / Des	s ign: \$0				
				Construction:	\$1	12,865		Cost Total:	\$112,865
				Annual Maint. Co	st:			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:

Riverine lift station is 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:

318 East Eighth Street



/W-19-CIP	Wastewater								
075-19-CIP	RWWTP-ADMINISTRATION	N BLDG HV	AC UPGRADE						
Project Inform	nation								
Submitted By:	Elizabeth Hart	Dep	partment:	Department of	Municipal Utilit	ie Project Descrip	tion:		
Category:	Maintenance	Dep	partment Head:	Art Krueger		The HVAC syste	em in the administra	ation building at the facility	does
Fund Group:	Waste Water	Sta	ff Priority:	Essential (Shou	uld Do)			ld upgrade the system so th	nat
Fund Detail:	Sewer Plant and Buildings	Cou	uncil Priority:			temperature, pa adequately.	rticularly in the labo	pratory, can be controlled	
RWWTP-ADMI	NISTRATION BLDG HVAC SYST	EM UPGRAD	Ε		1	075-19-CIP-C			
Funding Sourc	es:	Previous	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	2024/2025	Total
Р	Private	\$0	\$0	\$17,172	\$0 \$0	\$0	\$0 \$0	\$0	\$17,172
S	Sewer Fund	\$0 \$0	\$0 \$0	\$17,172	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$17,172
3	Sewel Fullu	φU	Ф О	Φ 17,172	4 0	2 0	Ф О	р О	\$17,172
								Project Total:	\$34,344
				COST DETAIL:					
				Study:	\$0				
				Land Acquisition / R	XOW: \$0				
				Engineering / Desig	n: \$0				
				Construction:	\$3	4,344		Cost Total:	\$34,344
				Annual Maint. Cost:				Project Difference:	\$0
				Maint. Year Start:					
Service Impact	:								
We believe that	t an upgrade will reduces current	maintenance	expenses.						

Project Justification:

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

Location Description:



<u>WW-19-CIP</u>	<u>Wastewater</u>									
1079-19-CIP	RWWTP-AERATION BASIN	AERATING	G EQUIPMENT	UPGRADE						
Project Inform	nation									
Submitted By:	Elizabeth Hart	Dej	partment:	Department	of Municipal Uti	ilitie	Project Descripti	on:		
Category:	Capital	Dej	partment Head:	Art Krueger			This project will u	pgrade the facility's	aeration basin aerating	
Fund Group:	Waste Water	Sta	ff Priority:	Imperitive (M	/lust Do)				ty engineering plan to be	
Fund Detail:	Sewer Plant and Buildings	Co	uncil Priority:				•	•	uded a cost benefit analy	•
			-						how to more efficiently a e cost of the upgrade per	
							•		the CIP is a rough estimation	
							meant to be a pla	ice holder, and will	be updated once the Fac	ility
						4070		study is complete.		
	TION BASIN AERATING EQUIPM	IENT UPGR/	ADE			1079	-19-CIP-C			
Funding Source	es:	Previous	2019/2020	2020/2021	2021/2022		2022/2023	2023/2024	2024/2025	Total
Р	Private	\$0	\$0	\$0	\$0		\$750,000	\$0	\$0	\$750,000
S	Sewer Fund	\$0	\$0	\$0	\$0		\$750,000	\$0	\$0	\$750,000
									Project Total:	\$1,500,000
				COST DETAIL:						
				Study:	\$	60				
				Land Acquisition	/ ROW: \$	60				
				Engineering / Des	sign: \$	50				
				Construction:	\$	\$1,500	0,000		Cost Total:	\$1,500,000
				Annual Maint. Co	st:				Project Difference:	\$0
				Maint. Year Start:						
Service Impact	-									

Service Impact:

We anticipate that the equipment upgrade will decrease annual maintenance expenses.

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:



<u>WW-19-CIP</u> <u>Wastewater</u> 1077-19-CIP RWWTP-BOILER CONTROLS UPGRADE

Project Infor Submitted By		De	partment:	Department	of Municipal Utilitie	Project Descripti	on:			
Category: Fund Group: Fund Detail:	Maintenance Waste Water Sewer Plant and Buildings	Waste Water Staff Sewer Plant and Buildings Count		Art Krueger Essential (Sl	nould Do)	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.				
RWWTP-BOIL	LER CONTROLS UPGRADE				1077	7-19-CIP-C				
Funding Sour	rces:									
		Previous	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	2024/2025	Total	
Р	Private	\$0	\$0	\$28,000	\$0	\$0	\$0	\$0	\$28,000	
S	Sewer Fund	\$0	\$0	\$28,000	\$0	\$0	\$0	\$0	\$28,000	
								Project Total:	\$56,000	
				COST DETAIL:						

\$0

\$0 \$0

\$56,000

Cost Total:

Project Difference:

\$56,000

\$0

Service Impact:

Maintenance costs are not anticipated to be substantial.

Project Justification:

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

Study:

Land Acquisition / ROW:

Engineering / Design:

Annual Maint. Cost:

Maint. Year Start:

Construction:

the use of natural gas.

Location Description:



<u>WW-19-CIP</u>

<u>Wastewater</u>

1076-19-CIP RWWTP-CRANE AND HOIST PAINTING

Project Info	ormation								
Submitted By	y: Elizabeth Hart	Dej	partment:	Department	of Municipal Utilit	e Project Descript	ion:		
Category:	Maintenance	Dej	partment Head:	Art Krueger		The crane and he	pist painting projects	includes all the cranes and	
Fund Group:	Waste Water	Sta	ff Priority:	Essential (SI	hould Do)		0	ranes and hoists will preven	
Fund Detail:	Sewer Plant and Buildings	Co	uncil Priority:			commercial grad		ets. They will be painted with	1
RWWTP-CR/	ANE AND HOIST PAINTING				10)76-19-CIP-C			
Funding Sou	irces:								
		Previous	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	2024/2025	Total
Р	Private	\$0	\$0	\$25,000	\$0	\$0	\$0	\$0	\$25,000
S	Sewer Fund	\$0	\$0	\$25,000	\$0	\$0	\$0	\$0	\$25,000
								Project Total:	\$50,000
				COST DETAIL:					
				Study:	\$0				
				Land Acquisition	/ ROW : \$0				
				Engineering / Des	sign: \$0				
				Construction:	\$5	0,000		Cost Total:	\$50,000

Project Difference:

\$0

Annual Maint. Cost: Maint. Year Start:

Service Impact:

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

Project Justification:

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

Location Description:



<u>WW-19-CIP</u>	<u>Wastewater</u>									
1078-19-CIP	RWWTP-UPGRADE DIGES	TED SOLID	S THICKENIN	G EQUIPMENT						
Project Inform	ation									
Submitted By:	Elizabeth Hart	Dep	artment:	Department	of Municipal Utili	itie	Project Descriptio	n:		
Category:	Capital	Dep	artment Head:	Art Krueger		-	This project will be	engineered as p	part of the Facility Plan	
Fund Group:	Waste Water	Stat	ff Priority:	Essential (Sh	nould Do)		0 0 ,		completed in 2020. The	_
Fund Detail:	Sewer Plant and Buildings	Coι	Incil Priority:						efit analysis, and cost estimate luded in the CIP is a rough	3.
							estimate meant as			
RWWTP-Upgrad	le Digested Solids Thickening Eq	luipment				1078-	19-CIP-C			
Funding Source	s:									
		Previous	2019/2020	2020/2021	2021/2022		2022/2023	2023/2024	2024/2025	Total
Р	Private	\$0	\$0	\$0	\$0		\$0	\$0	\$750,000	\$750,000
S	Sewer Fund	\$0	\$0	\$0	\$0		\$0	\$0	\$750,000	\$750,000
									Project Total:	\$1,500,000
				COST DETAIL:						
				Study:	\$(0				
				Land Acquisition	/ ROW: \$(0				
				Engineering / Des	ign: \$	0				
				Construction:	\$	1,500	,000		Cost Total:	\$1,500,000
				Annual Maint. Cos	st:				Project Difference:	\$0
				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:



<u> WW-19-CIP</u>	<u>Wastewater</u>								
795-19-CIP	SCADA Upgrade								
Project Inform	nation								
Submitted By:	Elizabeth Hart	Dep	partment:	Department of	of Municipal Utilit	e Project Descript	ion:		
Category:	Visionary	Dep	artment Head:	Art Krueger		Upgrade SCADA	system that contr	ols the plant.	
Fund Group:	Waste Water	Stat	ff Priority:	Important (Co	ould Do)				
Fund Detail:	Sewer Plant and Buildings	Cοι	Incil Priority:						
SCADA Upgrade	e - Cost				79	95-19-CIP-C			
Funding Source	es:								
		Previous	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	2024/2025	Total
Р	Private	\$0	\$0	\$60,000	\$0	\$0	\$0	\$0	\$60,000
S	Sewer Fund	\$0	\$0	\$60,000	\$0	\$0	\$0	\$0	\$60,000
								Project Total:	\$120,000
				COST DETAIL:					
				Study:	\$0				
				Land Acquisition /	ROW: \$0				
				Engineering / Desi	i gn: \$0				
				Construction:	\$1	20,000		Cost Total:	\$120,000
				Annual Maint. Cos	it:			Project Difference:	\$0
				Maint. Year Start:					
Service Impact:									
There is very litt	le if any on going maintenance co	ost related to	the upgrade of t	he 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:



<u>WW-19-CIP</u>	<u>Wastewater</u>									
1073-19-CIP	Scour Air Blower Overhau	I-5 blowers	at TCRWWTP							
Project Inform	nation									
Submitted By: Category:		•	partment:		of Municipal Utiliti			A/TR are used in the mem	brana	
Fund Group: Fund Detail:	Group: Waste Water Detail: Sewer Plant and Buildings		Department Head: Art Krueg Staff Priority: Imperitive Council Priority:		lust Do)	The Scour Air Blowers at the TCRWWTP are used in the membrane process to periodically clear solids from the membrane surface in order to maintain permeability. The blowers have been in service since 2004 and based on the run times, and recent inspection by Aerzen, they are in need of an overhaul. Aerzen, the blower manufacturer, has an exchange program that will allow us to keep 5 scour air blowers in services while the inspect and overhaul the blower that was in service at the facility. The service Aerzen provides removal and install of the blowers which are very heavy. We will only be charge for the actual items needing overhauled once the blower has been inspected in the shop. We will need to front the cost of the exchange unit and also bay for install and removal. Once the system is assessed, we will be reimbursed for the actual cost of the				
						is assessed, we	will be reimbursed for	or the actual cost of the	-	
Scour Air Blowe					10	is assessed, we	will be reimbursed for		-	
Scour Air Blowe Funding Source		Previous	2019/2020	2020/2021	10	is assessed, we overhaul. The ex	will be reimbursed for	or the actual cost of the	rhaul.	
		Previous \$22,500	2019/2020 \$23,625	2020/2021 \$23,625		is assessed, we overhaul. The ex 073-19-CIP-C	will be reimbursed for change cost is the n	or the actual cost of the naximum cost of the Over	rhaul. Tota	
Funding Source	es:				2021/2022	is assessed, we overhaul. The ex 073-19-CIP-C 2022/2023	will be reimbursed for change cost is the n 2023/2024	or the actual cost of the naximum cost of the Over 2024/2025	-	
Funding Source	Private	\$22,500	\$23,625	\$23,625	2021/2022 \$24,125	is assessed, we <u>overhaul. The ex</u> 073-19-CIP-C 2022/2023 \$24,125	will be reimbursed for change cost is the n 2023/2024 \$0	or the actual cost of the naximum cost of the Over 2024/2025 \$0	rhaul. Tota \$118,000 \$118,000	
Funding Source	Private	\$22,500	\$23,625	\$23,625 \$23,625	2021/2022 \$24,125	is assessed, we <u>overhaul. The ex</u> 073-19-CIP-C 2022/2023 \$24,125	will be reimbursed for change cost is the n 2023/2024 \$0	or the actual cost of the naximum cost of the Over 2024/2025 \$0 \$0	rhaul. Tota \$118,000 \$118,000	
Funding Source	Private	\$22,500	\$23,625	\$23,625 \$23,625 COST DETAIL:	2021/2022 \$24,125 \$24,125 \$24,125 \$0 / ROW: \$0	is assessed, we <u>overhaul. The ex</u> 073-19-CIP-C 2022/2023 \$24,125	will be reimbursed for change cost is the n 2023/2024 \$0	or the actual cost of the naximum cost of the Over 2024/2025 \$0 \$0	rhaul. Tota \$118,000 \$118,000	
Funding Source	Private	\$22,500	\$23,625	\$23,625 \$23,625 COST DETAIL: Study: Land Acquisition Engineering / Des	2021/2022 \$24,125 \$24,125 \$0 / ROW: \$0 sign: \$0	is assessed, we <u>overhaul. The ex</u> 073-19-CIP-C 2022/2023 \$24,125 \$24,125	will be reimbursed for change cost is the n 2023/2024 \$0	or the actual cost of the naximum cost of the Over 2024/2025 \$0 \$0 Project Total:	rhaul. Total \$118,000 \$118,000 \$236,000	
Funding Source	Private	\$22,500	\$23,625	\$23,625 \$23,625 COST DETAIL: Study: Land Acquisition	2021/2022 \$24,125 \$24,125 \$0 / ROW: \$0 \$ign: \$0 \$2	is assessed, we <u>overhaul. The ex</u> 073-19-CIP-C 2022/2023 \$24,125	will be reimbursed fo change cost is the r 2023/2024 \$0 \$0	or the actual cost of the naximum cost of the Over 2024/2025 \$0 \$0	rhaul. Tota \$118,000	

Service Impact:

These blowers provide scour air to the blowers. The air scouring is necessary to remove solids buildup from the membrane fibers that occurs during the process of permeating through the fibers, allowing the permeating process to continue and preventing plant backups.

Project Justification:

Scour Air is needed for the proper operation of the membranes which are vital to the facility's treatment process, and to meeting NPDES permit requirements.

Location Description:



WW-19-CIP

<u>Wastewater</u>



<u>WW-19-CIP</u>	<u>Wastewater</u>								
893-19-CIP	Screw Pump 2 and 3 Repla	acement							
Project Inform	nation								
Submitted By:	Elizabeth Hart	Dej	partment:	Department	of Municipal Utiliti	e Project Descript	ion:		
Category:	Maintenance	Dej	partment Head:	Art Krueger		Replacement of	screw body, upper	and lower bearings, drive	
Fund Group:	Waste Water	Sta	ff Priority:	Imperitive (N	/lust Do)			d trough reconditioning.	
Fund Detail:	Sewer Plant and Buildings	Co	uncil Priority:			pumps if feasible	•	ps 2 and 3 with submersibl ective. (To be determined b 3-2019)	
Screw Pump Re	eplacement - Cost				89	93-19-CIP-C			
Funding Source	es:								
		Previous	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	2024/2025	Total
Р	Private	\$0	\$0	\$0	\$580,000	\$0	\$0	\$0	\$580,000
S	Sewer Fund	\$0	\$0	\$0	\$580,000	\$0	\$0	\$0	\$580,000
								Project Total:	\$1,160,000
				COST DETAIL:					
				Study:	\$0				
				Land Acquisition	/ ROW : \$0				
				Engineering / Des	sign: \$0				
				Construction:	\$1	160,000		Cost Total:	\$1,160,000
				Annual Maint. Co	st:			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:



WW-19-CIP	Wastewater								
970-19-CIP	TCRWWTP- PLC Upgrade								
Project Inform	nation								
Submitted By:	Elizabeth Hart	Dej	partment:	Department	of Municipal Utili	ie Project Descript	ion:		
Category:	Maintenance	Dej	partment Head:	Art Krueger		Upgrade PLC (P	rogrammable Logic	Controls) to maintain cur	rent
Fund Group:	Waste Water	Sta	ff Priority:	Imperitive (N	/lust Do)			s and includes adding	
Fund Detail:	Sewer Plant and Buildings	Co	uncil Priority:			additional proces own processor.	sors to allow memb	prane trains to operate on	their
Plant PLC Upgra	ade - Cost				9	70-19-CIP-C			
Funding Source	es:								
		Previous	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	2024/2025	Total
Р	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 / Des	sign: \$0				
				Construction:	\$3	00,000		Cost Total:	\$300,000
				Annual Maint. Co	st:			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



<u>WW-19-CIP</u>	Wastewater	<u>r</u>							
968-19-CIP	Upgrade Controls at 6 Life	t Stations							
Project Inform	nation								
Submitted By:	Elizabeth Hart	De	partment:	Department	of Municipal Utili	ie Project Descript	ion:		
Category:	Maintenance	De	partment Head:	Art Krueger		Upgrade control	panels to replace ol	bsolete equipment and ad	id
Fund Group:	Waste Water	Sta	ff Priority:	Essential (Sl	hould Do)			Birchwood, Bay St., Wood	mere,
Fund Detail:	Sewer Collection System	Co	uncil Priority:			Coast Guard, Cli	nch Park, and River	rine Lift Stations	
Control Upgrade	e at 6 Lift Stations- Cost				ç	68-19-CIP-C			
Funding Source	es:								
		Previous	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	2024/2025	Total
S	Sewer Fund	\$0	\$0	\$0	\$0	\$184,440	\$0	\$0	\$184,440
								Project Total:	\$184,440
				COST DETAIL:					
				Study:	\$0				
				Land Acquisition	/ ROW: \$0				
				Engineering / Des	sign: \$0				
				Construction:	\$1	84,440		Cost Total:	\$184,440
				Annual Maint. Co	st:			Project Difference:	\$0
				Maint. Year Start:					

Service Impact:

Ensure that automated controls are fully operational, well supported if there are issues, and improves monitoring capabilities which reduces vunerbilities related to sewer backups and overflows.

Project Justification:

Reduces the risk of sewer overflows and backups.

Location Description:

Birchwood-2060 E. Front St., Bay Street-580 Bay Street, Clinch Park- 111 E. Grandview Parkway, Coast Guard-911 Airport Access Rd. Woodmere-645 Woodmere Ave, Riverine-318 E Eighth St.



WW-19-CIP	Wastewater										
1033-19-CIP	UV System and Related St	ructures Up	ograde								
Project Inform	nation										
Submitted By:	Elizabeth Hart	Dej	partment:	Department	of Municipal Utilitie	Project Descripti	ion:				
Category:	Capital	Dej	partment Head:	Art Krueger		Upgrade UV Syst	Upgrade UV System and Related Structures as outlined in the				
Fund Group:	Waste Water	Sta	ff Priority:	Essential (S	hould Do)		rsion of the Traverse City Regional Waste Water				
Fund Detail:	Sewer Plant and Buildings	Co	uncil Priority:			Ireatment Plant 0 2017.	Ultraviolet Disinfectio	on Evaluation dated Sep	tember		
UV System and	Related Structures Upgrade				10	33-19-CIP-C					
Funding Source	es:										
		Previous	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	2024/2025	Total		
Р	Private	\$0	\$0	\$0	\$0	\$0	\$1,500,000	\$0	\$1,500,000		
S	Sewer Fund	\$0	\$0	\$0	\$0	\$0	\$1,500,000	\$0	\$1,500,000		
								Project Total:	\$3,000,000		
				COST DETAIL:							
				Study:	\$0						
				Land Acquisition	/ ROW : \$0						
				Engineering / Des	sign: \$0						
				Construction:	\$3,0	000,000		Cost Total:	\$3,000,000		
				Annual Maint. Co	st:		I	Project Difference:	\$0		
				Maint. Year Start:							
Sonvice Impact											

Service Impact:

It has been found that the UV system was not designed to handle current design peak flow for the plant. This project would upgrade the system to meet peak flow demands, and to meet the MDEQ's current requirement of meeting 10 state standards as it relates to waste water treatment plant design criteria, it also allows the facility to meet the permit requirement of disinfecting 100% of the facility effluent at peak flows.

Project Justification:

This project is necessary for the facility to remain in compliance with its discharge permit issued be the MDEQ.

Location Description:



<u>W-19-CIP</u>	<u>Wastewater</u>								
4-19-CIP	Window Replacement 503	Hannah Av	/e.						
Project Inform	ation								
Submitted By:	Justin Roy	De	partment:	Department	of Municipal Utilitie	Project Descript	ion:		
Category:	Visionary	De	partment Head:	Art Krueger		Replace original	single pane windo	ws and doors with new ener	rgy
Fund Group:	Waste Water	Sta	aff Priority:	Essential (S	hould Do)	efficient windows	and doors.		
Fund Detail:	Sewer Plant and Buildings	Co	uncil Priority:						
Window Replace	ement 503 Hannah Ave Cost				764	-19-CIP-C			
Funding Source	s:								
		Previous	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	2024/2025	То
S	Sewer Fund	\$0	\$0	\$30,000	\$0	\$0	\$0	\$0	\$30,0
WAT	Water Fund	\$0	\$0	\$30,000	\$0	\$0	\$0	\$0	\$30,0
								Project Total:	\$60,0
				COST DETAIL:					
				Study:	\$0				
				Land Acquisition	/ ROW : \$0				
				Engineering / Des	sign: \$0				
				Construction:	\$60,	000		Cost Total:	\$60,0
				Annual Maint. Co	st:			Project Difference:	
				Maint. Year Start:					
Service Impact: Increase energy	efficiency and reduce heating co	osts.							
Project Justifica	ation:								
Windows need to	o be replaced - good stewardship	D.							

Location Description:

Water / Sewer Maintenance Building at 507 Hannah.



<u> WW-19-CIP</u>	Wastewater									
	WW Gravity Main Rehab		ACP Inspectio	ns						
	-									
Project Informa										
Submitted By:	Art Krueger	Dep	partment:	Department	of Municipal L	Jtilitie	Project Descripti	on:		
Category:	Maintenance	Dep	oartment Head:	Art Krueger			Rehabilitate and F	Repair Wastewate	er Gravity Mains that were	
Fund Group:	Waste Water	Sta	ff Priority:	Essential (Sl	hould Do)				ant Asset Management Pl	
Fund Detail:	Sewer Collection System	Cou	Incil Priority:				Also, continue to system within a se		n PACP inspections for the	entire
PACP Sanitary Se	ewer Video Inspections					1058	3-19-CIP-C			
Funding Sources	:									
		Previous	2019/2020	2020/2021	2021/202	2	2022/2023	2023/2024	2024/2025	Tota
S	Sewer Fund	\$0	\$0	\$0	\$0		\$385,000	\$385,000	\$385,000	\$1,155,000
									Project Total:	\$1,155,000
				COST DETAIL:						
				Study:		\$0				
				Land Acquisition	/ ROW:	\$0				
				Engineering / Des	ign:	\$0				
				Construction:		\$1,15	5,000		Cost Total:	\$1,155,000
				Annual Maint. Co	st:				Project Difference:	\$0
				Maint. Year Start:						

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.



057-19-CIP	WW Manholes Rehab\Rep		or inspections							
Project Inform	nation									
Submitted By:	Art Krueger	Dej	partment:	Department	of Municipal Util	litie	Project Descripti	on:		
Category:	Maintenance	Dej	partment Head:	Art Krueger				•	er Manholes that were	
Fund Group:	Waste Water	Sta	ff Priority:	Essential (Sl	hould Do)				ant Asset Management Plan.	
Fund Detail:	Sewer Collection System	Co	uncil Priority:						all remaining Wastewater during the 2015 SAW Grant	
							Project.			
MACP Manhole	Inspections					1057-	19-CIP-C			
Funding Source	es:									
		Previous	2019/2020	2020/2021	2021/2022		2022/2023	2023/2024	2024/2025	Tota
S	Sewer Fund	\$0	\$0	\$0	\$0		\$50,000	\$50,000	\$50,000	\$150,000
									Project Total:	\$150,000
				COST DETAIL:						
				Study:	\$	0				
				Land Acquisition	/ ROW: \$	0				
				Engineering / Des	sign: \$	0				
				Construction:	\$	150,0	00		Cost Total:	\$150,000
				Annual Maint. Co	st:				Project Difference:	\$0

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

Budget Year 2019-2020 by Program Name

All Projects Submitted for 2019-2020

	s projects occurring in the first FY of the plan.											
+ - Indicates pro	ojects with multiple funding			Final Var	Final Var	Ficool Vers	Eineel Verst	Final Var	Eisool Voor			
Project ID		0	Drouis	Fiscal Year 2019-2020	Fiscal Year 2020-2021	Fiscal Year 2021-2022	Fiscal Year 2022-2023	Fiscal Year 2023-2024	Fiscal Year 2024-2025	Project	City	Non-Cit
Project ID		Cat	Previous	2013-2020	2020-2021	2021-2022	2022-2023	2020-2024	2024-2020	Cost	Funds	Funds
Water												
1084-19-CIP	Abandon 12" Water Main Under River at Pine & Front	М	\$0	\$10,000	\$0	\$0	\$0	\$0	\$0	\$10,000	\$10,000	\$0
367-19-CIP	Annual Water Rehab/Replace	V	\$0	\$0	\$0	\$450,000	\$450,000	\$450,000	\$450,000	\$1,800,000	\$1,800,000	\$0
+ 986-19-CIP	Automated Metering Infrastructure (+Wastewater)	С	\$1,500,000	\$1,450,000	\$0	\$0	\$0	\$0	\$0	\$2,950,000	\$2,950,000	\$0
933-19-CIP	Chemical System Upgrades-Ferric, Chlorine&Fluoride	V	\$0	\$0	\$250,000	\$0	\$0	\$0	\$0	\$250,000	\$250,000	\$0
935-19-CIP	East - West Transmission Main Upgrade	С	\$793,000	\$1,480,000	\$1,004,000	\$1,345,000	\$1,024,000	\$1,470,000	\$1,250,000	\$8,366,000	\$8,366,000	\$0
1053-19-CIP	East Front Street 16" Watermain	С	\$0	\$0	\$0	\$0	\$0	\$420,000	\$0	\$420,000	\$420,000	\$0
930-19-CIP	Electrical Gear Upgrades at WTP & Low Service	V	\$0	\$0	\$0	\$850,000	\$0	\$0	\$0	\$850,000	\$850,000	\$0
934-19-CIP	Filters 1, 2 & 3 Valve Replacement	V	\$0	\$400,000	\$0	\$0	\$0	\$0	\$0	\$400,000	\$400,000	\$0
1093-19-CIP	Flocculation Tanks Structural Wall Repairs at WTP	М	\$0	\$400,000	\$0	\$0	\$0	\$0	\$0	\$400,000	\$400,000	\$0
932-19-CIP	Hannah Ave Water Main Upgrade	V	\$0	\$0	\$0	\$0	\$0	\$0	\$360,000	\$360,000	\$360,000	\$0
770-19-CIP	High & Low Service Pump Repairs	С	\$240,000	\$80,000	\$80,000	\$80,000	\$0	\$0	\$0	\$480,000	\$480,000	\$0
1028-19-CIP	Lagoon Maintenance	М	\$0	\$60,000	\$0	\$60,000	\$0	\$60,000	\$0	\$180,000	\$180,000	\$0
1015-19-CIP	Low Service Check Valve Replacement Project	М	\$0	\$40,000	\$0	\$0	\$0	\$0	\$0	\$40,000	\$40,000	\$0
+ 1027-19-CIP	Park Place Area Infrastructure Improvements	С	\$0	\$0	\$1,225,000	\$0	\$0	\$0	\$0	\$1,225,000	\$1,225,000	\$0
1086-19-CIP	Phase 2 Security Barrier @ Water Treatment Plant	С	\$0	\$0	\$100,000	\$0	\$0	\$0	\$0	\$100,000	\$100,000	\$0
121-19-CIP	Plant - Freight Elevator Compliance	V	\$0	\$0	\$0	\$0	\$100,000	\$0	\$0	\$100,000	\$100,000	\$0
1092-19-CIP	Remove and Replace Galvanized Water Services	М	\$0	\$0	\$0	\$1,000,000	\$1,000,000	\$1,000,000	\$1,000,000	\$4,000,000	\$4,000,000	\$0
1054-19-CIP	Union St. 12" Watermain	С	\$0	\$100,000	\$0	\$0	\$0	\$0	\$0	\$100,000	\$100,000	\$0
1016-19-CIP	Veterans Drive Water Main Replacement Project.	С	\$0	\$0	\$0	\$0	\$0	\$0	\$450,000	\$450,000	\$450,000	\$0
1049-19-CIP	Wayne Hill Fire Pump	С	\$0	\$0	\$100,000	\$0	\$0	\$0	\$0	\$100,000	\$100,000	\$0
1017-19-CIP	WTP Standby Generator Replacement Project	М	\$0	\$0	\$0	\$0	\$0	\$0	\$300,000	\$300,000	\$300,000	\$0
1065-19-CIP	WTP Sump Pump Discharge Flow Meter	С	\$0	\$0	\$20,000	\$0	\$0	\$0	\$0	\$20,000	\$20,000	\$0
1047-19-CIP	WTP Turbidimeters Replacement	М	\$0	\$0	\$0	\$0	\$15,000	\$10,000	\$0	\$25,000	\$25,000	\$0



Six Year Capital Improvement Plan

All Projects Submitted for 2019-2020

Budget Year 2019-2020 by Program Nam	е
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Bold - Indicates projects occurring in the first FY of the plan. + - Indicates projects with multiple funding											
Project ID	Cat	Previous	Fiscal Year 2019-2020	Fiscal Year 2020-2021	Fiscal Year 2021-2022	Fiscal Year 2022-2023	Fiscal Year 2023-2024	Fiscal Year 2024-2025	Project Cost	City Funds	Non-City Funds
Water											
1045-19-CIP WTP Water Quality In-Line Instrumentation	С	\$0	\$0	\$25,000	\$0	\$0	\$0	\$0	\$25,000	\$25,000	\$0
Total Water		\$2,533,000	\$4,020,000	\$2,804,000	\$3,785,000	\$2,589,000	\$3,410,000	\$3,810,000	\$22,951,000	\$22,951,000	\$0



ATER-19-CIP	Water								
084-19-CIP	Abandon 12" Water Main	Under River	at Pine & Froi	nt					
Proiect Inform	nation								
Submitted By:	Art Krueger	Dej	partment:	Department of	f Municipal Utiliti	e Project Descript	ion:		
Category:	Maintenance	Dej	partment Head:	Art Krueger		This project will b	be completed after P	Project 535-19-CIP West F	ront
Fund Group:	Water	Sta	ff Priority:	Imperitive (Mu	ist Do)			The bridge project include	
Fund Detail:	Water Distribution System	Co	uncil Priority:				•	etween Pine and Hall St. areas west and south of I	
Abandon 12" Wa	ater Main Under River at Pine &	Front			10	84-19-CIP-C			
Funding Source	es:								
		Previous	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	2024/2025	Tota
WAT	Water Fund	\$0	\$10,000	\$0	\$0	\$0	\$0	\$0	\$10,000
								Project Total:	\$10,00
				COST DETAIL:					
				Study:	\$0				
				Land Acquisition / I	ROW: \$0				
				Engineering / Desig	yn: \$0				
				Construction:	\$10),000		Cost Total:	\$10,000
				Annual Maint. Cost	:			Project Difference:	\$0
				Maint. Year Start:					
Service Impact:									
Improve water s	ystem hydraulics to west side an	d decrease w	ater 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



VATER-19-CIP	Water									
67-19-CIP	Annual Water Rehab/Repl	ace								
Project Inform	nation									
Submitted By:	Justin Roy	Dej	partment:	Department of	Municipal Util	litie	Project Descripti	on:		
Category:	Visionary	Dej	partment Head:	Art Krueger			Provide \$450,000	annually in the w	vater fund to continue syst	ematic
Fund Group:	Water	Sta	ff Priority:	Essential (Sho	ould Do)		•	•	ment) of the underground	
Fund Detail:	Water Distribution System	Co	uncil Priority:					•	ment Plan will also contair near-term projects.	i more
Annual Water R	ehab/Replace - Cost					367-′	19-CIP-C			
Funding Source	es:									
		Previous	2019/2020	2020/2021	2021/2022		2022/2023	2023/2024	2024/2025	Total
WAT	Water Fund	\$0	\$0	\$0	\$450,000		\$450,000	\$450,000	\$450,000	\$1,800,000
									Project Total:	\$1,800,000
				COST DETAIL:						
				Study:	\$	50				
				Land Acquisition / I	ROW: \$	50				
				Engineering / Desig	jn: \$	50				
				Construction:	\$	61,800	0,000		Cost Total:	\$1,800,000
				Annual Maint. Cost	:				Project Difference:	\$0
				Maint. Year Start:						
Service Impact:										
Replacing old w	ater mains will reduce emergenc	y repairs and	long-term maint	enance 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-19-CIP	Water								
986-19-CIP	Automated Metering Infra	structure (+	Wastewater)						
Project Inform	nation								
Submitted By:	Dave Green	De	partment:	Department	of Municipal Utiliti	e Project Descript	ion:		
Category:	Capital	De	partment Head:	Art Krueger		Install water met	ers and software to	accommodate smart met	tering
Fund Group:	Water	Sta	aff Priority:	Essential (S	hould Do)	•	•	migration to electronic adv	
Fund Detail:	Water Distribution System		uncil Priority:			provide reads to engineering and items to show pro	utility billing. Will a planning as well as oject results. 1.5 M	ers on energy use, reliabil also drive future system s provide metrics on comp illion projected to be spen ted with Light and Power	bleted ht in
Automated Met	ering Infrastructure (+Wastew - C	Cost			98	86-19-CIP-C			
Funding Sourc	es:								
		Previous	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	2024/2025	Total
S	Sewer Fund	\$750,000	\$725,000	\$0	\$0	\$0	\$0	\$0	\$1,475,000
WAT	Water Fund	\$750,000	\$725,000	\$0	\$0	\$0	\$0	\$0	\$1,475,000
								Project Total:	\$2,950,000
				COST DETAIL:					
				Study:	\$0				
				Land Acquisition	/ ROW : \$0				
				Engineering / Des	sign: \$0				
				Construction:	\$2,	950,000		Cost Total:	\$2,950,000
				Annual Maint. Co	st: \$3	9,600		Project Difference:	\$0
				Maint. Year Start:					

Service Impact:

Project will reduce operating costs by obtaining automatic meter reads for billing and increase water revenue by installing all new accurate meters thereby reducing water loss (unaccounted for water).

Project Justification:

Opportune time to install SMART water meters with TCLP's project implementation of SMART electric meters.

Location Description:

City wide.



WATER-19-CI	<u>Water</u>										
933-19-CIP	Chemical System Upgrade	es-Ferric, C	hlorine&Fluori	ide							
Project Inf	ormation										
Submitted E	By: Art Krueger	Dej	partment:	Department of	of Municipal Utili	tie Project Descript	Project Description:				
Category:	Visionary	Dej	partment Head:	Art Krueger		Of these three (3	Of these three (3) chemical systems, the Fluoride and Ferric				
Fund Group	: Water	Sta	ff Priority:	Essential (Sh	nould Do)			en completely upgraded as	of		
Fund Detail:	Water Treatment	Council Priority:				2017. The Chlorine system's chemical feed portion was also upgraded in 2012, so the two (2) 8,000 gal. chlorine bulk storage					
								emaining items needing to	-		
						upgraded since		ne end of their useful life.			
	/stem Upgrades (Alum, Chlorine & -	Cost			g	33-19-CIP-C					
Funding So	urces:		0040/0000	0000/0004	0004/0000	0000/0000	0000/0004	000 //0005	T . (.)		
		Previous	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	2024/2025	Total		
WAT	Water Fund	\$0	\$0	\$250,000	\$0	\$0	\$0	\$0	\$250,000		
								Project Total:	\$250,000		
				COST DETAIL:							
				Study:	\$C)					
				Land Acquisition	/ ROW: \$0)					
				Engineering / Des	ign: \$1	0,000					
				Construction:	\$2	240,000		Cost Total:	\$250,000		
				Annual Maint. Cos	st:			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.



ATER-19-CIP	<u>Water</u>									
5-19-CIP	East - West Transmission	Main Upgra	ade							
Project Inform	nation									
Submitted By: Category: Fund Group: Fund Detail:	tted By: Art Krueger ry: Capital Group: Water		epartment: epartment Head: aff Priority: buncil Priority:	Department of Municipal Utilitie Art Krueger Essential (Should Do)		 Project Description: 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. Water main cost for Phase 1 is included in the 8th St. Bridge Project FY19-20. FY18-19: Phase 3A: 24" main - Lake Ave from 8th to Cass (Completed) FY19-20: Phase 1: 20" & 24" main - 8th St Bridge Project & Phase 2: 24" main - 8th from Boardman Ave to Railroad Ave. FY20-21: Phase 5A: 24" main - Garfield from Washington to Webster & Webster to Rose St. FY21-22: Phase 5B: 24" main - Railroad Ave from 8th to Webster & Webster from Railroad Ave to Rose St. FY22-23: Phase 3B: 24" main - Lake Ave from Cass to Union & Phase 4: 24" main; 7th from Union to Wadsworth 				
						FY23-24: Phase 6	5: 24" main - 7th fror	m Wadsworth to Spruce		
East - West Trai	nsmission Main Upgrade - Cost				935	-19-CIP-C	r: 16" main - Spruce	from 7th to Wayne St.		
Funding Source										
		Previous	2019/2020	2020/2021 2	021/2022	2022/2023	2023/2024	2024/2025	т	
WAT	Water Fund	\$793,000	\$1,480,000	\$1,004,000 \$	1,345,000	\$1,024,000	\$1,470,000	\$1,250,000	\$8,366,	
								Project Total:	\$8,366,	
				COST DETAIL:						
				Study:	\$0					
				Study: Land Acquisition / ROV						
				•	: \$0	15,000				
				Land Acquisition / ROV	': \$0 \$1,5 [^]	15,000 51,000		Cost Total:	\$8,366	
				Land Acquisition / ROV Engineering / Design:	': \$0 \$1,5 [^]		r	Cost Total: Project Difference:	\$8,366,	

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-19-CIP

<u>Water</u>

Projects recommended in the 2014 Water System Reliability Study based upon water model.

Location Description:

Various locations as noted in project description.



WATER-19-CIP	Water									
1053-19-CIP	East Front Street 16" Wate	ermain								
Project Inform	ation									
Submitted By:	Art Krueger	Dej	partment:	Department	of Municipal Uti	ilitie	Project Descripti	on:		
Category:	Capital	Dej	partment Head:	Art Krueger			Replace approx.	1230 lineal feet o	f existing 16" pit cast main f	rom
Fund Group:	Water	Sta	ff Priority:	Essential (S	hould Do)		-	n E. Front Street	between Railroad and Boar	dman
Fund Detail:	Water Distribution System	Co	uncil Priority:				Avenues.			
East Front Stree	t 16" Watermain					1053-	-19-CIP-C			
Funding Source	es:									
		Previous	2019/2020	2020/2021	2021/2022		2022/2023	2023/2024	2024/2025	Total
WAT	Water Fund	\$0	\$0	\$0	\$0		\$0	\$420,000	\$0	\$420,000
									Project Total:	\$420,000
				COST DETAIL:						
				Study:	9	\$O				
				Land Acquisition	/ ROW:	\$0				
				Engineering / Des	sign:	\$0				
				Construction:	9	\$420,0	000		Cost Total:	\$420,000
				Annual Maint. Co	st:				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.



ATER-19-CIP	Water								
30-19-CIP	Electrical Gear Upgrades	at WTP & L	ow Service						
Project Inform	ation								
Submitted By:	Art Krueger	De	epartment:	Department of N	Municipal Utiliti	e Project Descript	ion:		
Category:	Visionary	De	partment Head:	Art Krueger		Project recomme	nded in the 2014	Water System Reliability St	udy
Fund Group:	Water	Sta	aff Priority:	Essential (Shou	lld Do)	Table 23, Project			
Fund Detail:	Water System Reliability I	Projec Co	ouncil Priority:				Service pumps. P	ectrical equipment for both Project will also increase ele	-
Electrical Gear L	Jpgrades at WTP & Low Serv -	Cost			93	0-19-CIP-C			
Funding Source	s:								
		Previous	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	2024/2025	Tota
WAT	Water Fund	\$0	\$0	\$0	\$850,000	\$0	\$0	\$0	\$850,000
								Project Total:	\$850,00
				COST DETAIL:					
				Study:	\$0				
				Land Acquisition / R	ow : \$0				
				Engineering / Design	n: \$0				
				Construction:	\$85	50,000		Cost Total:	\$850,00
				Annual Maint. Cost:				Project Difference:	\$
				Maint. Year Start:					

Project Justification:

Location Description:



WATER-19-CIP	<u>Water</u>								
934-19-CIP	Filters 1, 2 & 3 Valve Re	placement							
Project Inform	ation								
Submitted By:	Art Krueger	Dej	partment:	Department	of Municipal Utili	tie Project Descript	ion:		
Category:	Visionary	Dej	partment Head:	Art Krueger		Replace 8 of 9 va	alves per filter; 24 v	alves total in the three old	lest
Fund Group:	Water	Sta	ff Priority:	Essential (S	hould Do)			65 (Filters 1 & 2) and 1972	
Fund Detail:	Water Treatment	Co	uncil Priority:			,		heir useful life. The main e as replaced with the SCAD	
						Project ID#103 ir		is replaced with the SCAL	JA
Filters 1, 2 & 3 V	/alve Replacement - Cost				ç	34-19-CIP-C			
Funding Source	es:								
		Previous	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	2024/2025	Tota
WAT	Water Fund	\$0	\$400,000	\$0	\$0	\$0	\$0	\$0	\$400,000
								Project Total:	\$400,000
				COST DETAIL:					
				Study:	\$0)			
				Land Acquisition	/ ROW: \$0)			
				Engineering / Des	sign: \$2	25,000			
				Construction:	\$3	375,000		Cost Total:	\$400,000
				Annual Maint. Co	st:			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.



ATER-19-CIP	Water								
)93-19-CIP	Flocculation Tanks Struc	tural Wall Re	epairs at WTP						
Project Inform	ation								
Submitted By:	Art Krueger	De	partment:	Department	of Municipal Utilitie	Project Descript	ion:		
Category:	Maintenance	De	partment Head:	Art Krueger		The concrete wa	lls of the two (2) floo	cculation tanks at the wate	er
Fund Group:	Water	Sta	aff Priority:	Imperitive (M	/lust Do)			lowly over many years. T	
Fund Detail:	Water Treatment	Co	uncil Priority:			an exterior decord deteriorating cond issues with the conductor repaired. The in	rative stone panel w crete wall. The leak oncrete walls that no terior walls of these	t discovered until recently vas removed, exposing the s have caused structural eed to be evaluated and tanks also need to be under a different project a	e
Flocculation Tan	ks Structural Wall Repairs at W	TP			10	93-19-CIP-C			
Funding Source	s:								
		Previous	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	2024/2025	To
WAT	Water Fund	\$0	\$400,000	\$0	\$0	\$0	\$0	\$0	\$400,0
								Project Total:	\$400,0
				COST DETAIL:					
				Study:	\$0				
				Land Acquisition	/ ROW : \$0				
				Engineering / Des	sign: \$0				
				Construction:	\$40	0,000		Cost Total:	\$400,0
				Annual Maint. Cos	st:			Project Difference:	:
				Maint. Year Start:					
Service Impact:									
Continued opera	tion of Water Treatment Plant.								
Project Justifica									
Repairs are requ	ired to continue to treat water.								
Location Descri	ntion								

Location Description:

WTP - 2010 Eastern Ave.



VATER-19-CIP	Water								
32-19-CIP	Hannah Ave Water Main U	pgrade							
Project Inform	mation								
Submitted By:	Art Krueger	Dej	partment:	Department	of Municipal Utilitie	Project Descript	ion:		
Category:	Visionary	Dej	partment Head:	Art Krueger		Replace 1,900 lir	neal feet of aging 6	6-inch main on Hannah Ave	. with
Fund Group:	Water	Sta	ff Priority:	Essential (S	hould Do)			S. Garfield Ave. Project nee	ds to
Fund Detail:	Water Distribution System	Co	uncil Priority:			be coordinated w	ith the bonded sid	lewalk project.	
Hannah Ave Wa	ater Main Upgrade - Cost				93	2-19-CIP-C			
Funding Source	es:	_ .	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	2024/2025	Tota
WAT	Water Fund	Previous						2024/2025	
WAI	Water Fund	\$0	\$0	\$0	\$0	\$0	\$0	\$360,000	\$360,00
								Project Total:	\$360,000
				COST DETAIL:					
				Study:	\$0				
				Land Acquisition	/ ROW : \$0				
				Engineering / Des	sign: \$0				
				Construction:	\$36	0,000		Cost Total:	\$360,000
				Annual Maint. Co	st:			Project Difference:	\$0
				Maint. Year Start:					
Service Impact	:								
Increase system	m reliability and flows to immediat	e service area	а.						
Project Justific	cation:								
Project recomm	nended in the 2014 Water System	Reliability St	udy						

Location Description:

Hannah Ave. from Bates Street to S. Garfield Ave.



ATER-19-CIP	Water								
70-19-CIP	High & Low Service Pump	Repairs							
Project Inforn	nation								
Submitted By:	Art Krueger	De	partment:	Department of	of Municipal Utili	tie Project Desc	ription:		
Category:	Capital	De	partment Head:	Art Krueger		4 High Servio	ce and 3 Low Service	pumps and motors need to	be
Fund Group:	Water	Sta	ff Priority:	Imperitive (M	ust Do)	•	• • •	e company. The motor win	-
Fund Detail:	Water System Reliability P	rojec Co	uncil Priority:			installed on t	•	ble frequency drive (VFD) of w significant energy savings	
High & Low Ser	vice Pump Repairs - Cost				7	70-19-CIP-C	·		
Funding Source	es:								
		Previous	2019/2020	2020/2021	2021/2022	2022/2023		2024/2025	Tota
WAT	Water Fund	\$240,000	\$80,000	\$80,000	\$80,000	\$0	\$0	\$0	\$480,00
								Project Total:	\$480,00
				COST DETAIL:					
				Study:	\$0)			
				Land Acquisition	ROW: \$0	1			
				Engineering / Des	ign: \$(1			
				Construction:	\$4	80,000		Cost Total:	\$480,00
				Annual Maint. Cos	st:			Project Difference:	\$
				Maint. Year Start:					
Service Impact	:								
Increase pump	reliability, reduce energy consum	ption and red	uce overall main	tenance / emergeno	cy costs.				

Pumps are critical to WTP operations and need to be service regularly.

Location Description:

WTP - 2010 Eastern Ave.



WATER-19-CIP	Water									
1028-19-CIP	Lagoon Maintenance									
Project Inform	ation									
Submitted By:	Art Krueger	Dep	partment:	Department	of Municipal Uti	litie	Project Descripti	on:		
Category:	Maintenance	Dep	artment Head:	Art Krueger			There are 2 wash	water lagoons be	hind the water treatment pl	ant
Fund Group:	Water	Sta	ff Priority:	Imperitive (N	/lust Do)		facility and the slu removed and hau	-	r backwashing process mu	st be
Fund Detail:	Water Treatment	Cou	Incil Priority:				removed and hau	lied to the landfill.		
Lagoon Mainten	ance- Cost					1028-	-19-CIP-C			
Funding Source	IS:									
		Previous	2019/2020	2020/2021	2021/2022		2022/2023	2023/2024	2024/2025	Total
WAT	Water Fund	\$0	\$60,000	\$0	\$60,000		\$0	\$60,000	\$0	\$180,000
									Project Total:	\$180,000
				COST DETAIL:						
				Study:	\$	50				
				Land Acquisition	/ ROW: \$	50				
				Engineering / Des	sign: \$	50				
				Construction:	\$	5180,C	000		Cost Total:	\$180,000
				Annual Maint. Cos	st:				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:



WATER-19-CIP	Water									
1015-19-CIP	Low Service Check Valv	e Replaceme	nt Project							
Project Inform	nation									
Submitted By:	Art Krueger	De	partment:	Department	of Municipal Uti	litie Pi	roject Description	on:		
Category:	Maintenance	De	partment Head:	Art Krueger		R	eplace 3 old, ex	isting check valve	s in the Low Service Building	
Fund Group:	Water	Sta	aff Priority:	Essential (S	hould Do)	pi	iping system.			
Fund Detail:	Water Treatment	Co	uncil Priority:							
Low Service Ch	eck Valve Replacement Projec	t				1015-19	9-CIP-C			
Funding Source	es:									
		Previous	2019/2020	2020/2021	2021/2022		2022/2023	2023/2024	2024/2025	Total
WAT	Water Fund	\$0	\$40,000	\$0	\$0		\$0	\$0	\$0	\$40,000
									Project Total:	\$40,000
				COST DETAIL:						
				Study:	\$	0				
				Land Acquisition	/ ROW: \$	0				
				Engineering / Des	sign: \$	0				
				Construction:	\$	40,000	I		Cost Total:	\$40,000
				Annual Maint. Co	st:				Project Difference:	\$0
				Maint. Year Start:						

Service Impact:

Restore reliability to check valves which currently leak water from WTP back into pumps wet well. This causes inefficiencies in plant start-up operations due to a significant volume of water getting treated twice.

Project Justification:

Need to complete project to increase operational efficiency.

Location Description:

Low Service Pump Station - East end of Eastern Ave



WATER-19-CIP	Water								
1027-19-CIP	Park Place Area Infrastructu	ure Improv	vements						
Project Infor	mation								
Submitted By:	Missy Luick	Dej	partment:	Engineering		Project Descript	ion:		
Category:	Capital	Dej	partment Head:	Tim Lodge		The Park Place E	Brownfield Plan ide	ntifies water main and sto	vrm
Fund Group:	Water	Sta	off Priority:			•	• •	Watermain- An upgraded	
Fund Detail:	Water System Reliability Pro		uncil Priority:			down a portion o Sewer Water Qu of infiltration and portion of the dow using Brownfield	f State Street and N ality- This improver filtration to improve vntown area. Both	ardman to Cass and will g Washington Streets. Storm nent will include a combir e water quality for a signif projects will be reimburse	m nation ficant
Park Place Are	ea Infrastructure Improvements- Cos	st				1027-19-CIP-C			
Funding Sour									
		Previous	2019/2020	2020/2021	2021/202		2023/2024	2024/2025	Total
S		\$0	\$0	\$250,000	\$0	\$0	\$0	\$0	\$250,000
WAT	Water Fund	\$0	\$0	\$975,000	\$0	\$0	\$0	\$0	\$975,000
								Project Total:	\$1,225,000
				COST DETAIL:					
				Study:		\$0			
				Land Acquisition /	ROW:	\$0			
				Engineering / Desig	gn:	\$0			
				Construction:		\$1,225,000		Cost Total:	\$1,225,000
				Annual Maint. Cost	t:			Project Difference:	\$0
				Maint. Year Start:					

Service Impact:

The improvement will upgrade the city's water distribution system to current standards for fire protection and will implement best practices for storm water management.

there could be an increase in maintenance costs

Project Justification:

Park Place Brownfield Plan, Water Reliability Study, Improve Water Quality.

Location Description:

Park Place vicinity



								Water	VATER-19-CIP
						tment Plant	er @ Water Trea	Phase 2 Security Barrie	086-19-CIP
								nation	Project Inform
		tion:	Project Descript	/lunicipal Utilitie	Department	artment:	Dep	Art Krueger	Submitted By:
curity gate project to	ompleted security g	s Phase 2 to the co	This project adds		Art Krueger	artment Head:	Dep	Capital	Category:
vsical vehicular barrier	stalling a physical ve			Do)	Imperitive (N	f Priority:	Stat	Water	Fund Group:
		ve.	along Eastern Av			incil Priority:	Coι	Water Treatment	Fund Detail:
			6-19-CIP-C	1080			Plant	y Barrier @ Water Treatment	Phase 2 Security
								es:	Funding Source
	2024/2025	2023/2024	2022/2023	2021/2022	2020/2021	2019/2020	Previous		
\$100,000	\$0	\$0	\$0	\$0	\$100,000	\$0	\$0	Water Fund	WAT
ect Total: \$100,000	Project Tota								
					COST DETAIL:				
				\$0	Study:				
				SW: \$0	Land Acquisition				
				: \$0	Engineering / Des				
ost Total: \$100,000	Cost Tota		,000	\$100	Construction:				
fference: \$0	Project Differenc				Annual Maint. Cos				
					Maint. Year Start:				
							ant	y level at Water Treatment Pla	Service Impact: Increase security
								ation:	Project Justifica
								rity Recommendations	Homeland Secur
	Project Diffe						ant	y level at Water Treatment Pla ation:	Increase security Project Justifica

Location Description:

2010 Eastern Ave



WATER-19-CIP	Water									
121-19-CIP	Plant - Freight Elevator Co	ompliance								
Project Informa	ation									
Submitted By:	Art Krueger	Dep	partment:	Department	of Municipal Uti	litie Pro	oject Descripti	on:		
Category:	Visionary	Dep	partment Head:	Art Krueger		Re	placement of e	elevator's original s	teel single wall casing hyd	raulic
Fund Group:	Water	Sta	ff Priority:	Essential (S	hould Do)	cyli	inder (1965) wi	ith double wall cas	ing cylinder.	
Fund Detail:	Water Treatment	Cou	uncil Priority:							
Plant - Freight Ele	evator Compliance - Cost					121-19-C	CIP-C			
Funding Sources	5:									
		Previous	2019/2020	2020/2021	2021/2022		2022/2023	2023/2024	2024/2025	Total
WAT	Water Fund	\$0	\$0	\$0	\$0	5	\$100,000	\$0	\$0	\$100,000
									Project Total:	\$100,000
				COST DETAIL:						
				Study:	9	50				
				Land Acquisition	/ ROW:	60				
				Engineering / Des	sign:	50				
				Construction:	9	5100,000			Cost Total:	\$100,000
				Annual Maint. Co	st:				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:



WATER-19-CIP	Water								
1092-19-CIP	Remove and Replace Galv	anized Wat	er Services						
Project Inform	ation								
Submitted By:	Art Krueger	Dej	partment:	Department of	of Municipal Utilit	ie Project Descript	ion:		
Category:	Maintenance	Dej	partment Head:	Art Krueger		Michigan's new L	ead and Copper R	ule (LCR passed June 20	018)
Fund Group:	Water	Sta	ff Priority:	Essential (Sh	hould Do)			for replacement of up to	
Fund Detail:	Water Distribution System	Co	uncil Priority:			, , ,	•	water services from the c is" or "was" connected to	•
							0	at 50% of all private City	
						services are galv	anized, which is ap	proximately 3,700 servic	es. 5%
								ost of \$5,000 each or \$1N	•
Domovo and Do	nlass Calvanizad Water Carviso				1	year for 20 years 092-19-CIP-C	with the first year	planned to begin in FY20	21
	place Galvanized Water Service	5			I	092-19-CIP-C			
Funding Source	9S:	Description	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	2024/2025	Total
14/AT	Mater Fred	Previous							
WAT	Water Fund	\$0	\$0	\$0	\$1,000,000	\$1,000,000	\$1,000,000	\$1,000,000	\$4,000,000
								Project Total:	\$4,000,000
				COST DETAIL:					
				Study:	\$0				
				Land Acquisition	/ ROW : \$0				
				Engineering / Des	s ign: \$0				
				Construction:	\$4	,000,000		Cost Total:	\$4,000,000
				Annual Maint. Cos	st:			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-19-CIP	Water									
1054-19-CIP	Union St. 12" Watermain									
Project Inform	nation									
Submitted By:	Art Krueger	De	partment:	Department	of Municipal Util	itie	Project Descripti	on:		
Category:	Capital	De	partment Head:	Art Krueger		I	Install approx. 30	0 lineal feet of 12"	main under Boardman Riv	ver
Fund Group:	Water	Sta	ff Priority:	Imperitive (N	/lust Do)			-	side of river to alley north	
Fund Detail:	Water Distribution System	Co	uncil Priority:			-		-	ross the Union Street Dar 020 Fish Pass (Union St.	
Union St. 12" W	atermain						19-CIP-C			
Funding Source	es:									
		Previous	2019/2020	2020/2021	2021/2022		2022/2023	2023/2024	2024/2025	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 / Des	sign: \$	0				
				Construction:	\$	100,0	00		Cost Total:	\$100,000
				Annual Maint. Co	st:				Project Difference:	\$0
				Maint. Year Start:						
.										

Service Impact:

Replacement will reduce overall maintenance costs and increase reliability since it will be directionally drilled under the river vs. currently laying across the dam exposed to the elements, i.e. no bury on pipe.

Project Justification:

Needs to be replaced due to removal of existing 12" water main over Union St. dam with the 2020 Fish Pass project.

Location Description:

Between existing Union St. dam and Union Street bridge.



Project InformationSubmitted By:Justin RoCategory:CapitalFund Group:Water	istribution System	ment Project. Department: Department Head: Staff Priority: Council Priority:	Department of Art Krueger Essential (Sho	f Municipal Utilitie buld Do)	•	on: ' diameter water ma		
Submitted By:Justin RoCategory:CapitalFund Group:WaterFund Detail:Water DiVeterans Drive Water Main ReFunding Sources:	istribution System	Department Head: Staff Priority:	Art Krueger		Replace 6" and 8'			
Category: Capital Fund Group: Water Fund Detail: Water Di Veterans Drive Water Main Re Funding Sources:	istribution System	Department Head: Staff Priority:	Art Krueger		Replace 6" and 8'			
Fund Group: Water Fund Detail: Water Di Veterans Drive Water Main Re Funding Sources:	istribution System	Staff Priority:	-	ould Do)	•	' diameter water ma		
Fund Detail: Water Di Veterans Drive Water Main Re Funding Sources:	istribution System	2	Essential (Sho	ould Do)	Chroat and Caara		ain with 12" between 14th	
Veterans Drive Water Main Re Funding Sources:		Council Priority:			Street and George	etown Place.		
Funding Sources:	eplacement Project.							
-				1016	6-19-CIP-C			
WAT Water Fund								
WAT Water Fund	Previous		2020/2021	2021/2022	2022/2023	2023/2024	2024/2025	Total
	\$0	\$0	\$0	\$0	\$0	\$0	\$450,000	\$450,000
							Project Total:	\$450,000
			COST DETAIL:					
			Study:	\$0				
			Land Acquisition / I	ROW : \$0				
			Engineering / Desig	gn: \$0				
			Construction:	\$450	,000		Cost Total:	\$450,000
			Annual Maint. Cost	:			Project Difference:	\$0
			Maint. Year Start:					
Service Impact:								
Decrease overall maintenance	e costs and improve water su	oply / fire flows in thi	s area.					

Project recommended in 2014 Water System Reliability Study.

Location Description:

Veterans Drive between 14th St. and Georgetown Place.



WATER-19-CIP	Water								
1049-19-CIP	Wayne Hill Fire Pump								
Project Inform	nation								
Submitted By:	Art Krueger	Dej	partment:	Department	of Municipal Utilitie	Project Descript	ion:		
Category:	Capital	Dej	partment Head:	Art Krueger		Need to improve	fire protection in t	he Wayne Hill, Incochee an	d
Fund Group:	Water	Sta	ff Priority:	Imperitive (N	/lust Do)	0	•	cts which are fed from the \	Nayne
Fund Detail:	Water Distribution System	Co	uncil Priority:			Hill Booster Stati	on.		
Wayne Hill Fire	Pump				10	49-19-CIP-C			
Funding Source	es:								
		Previous	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	2024/2025	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 / Des	sign: \$0				
				Construction:	\$10	0,000		Cost Total:	\$100,000
				Annual Maint. Co	st:			Project Difference:	\$0
				Maint. Year Start:					
Service Impact									
Improved fire flo	ow and increased high pressure le	oop system re	eliability						
Project Justific	ation:								
Need to improve	e fire protection in this service are	ea.							

Location Description:

Wayne Hill Booster Station - Wayne St. and Incochee Rd.



ATER-19-CIP	Water								
17-19-CIP	WTP Standby Generator R	Replacemen	it Project						
Project Informa	ation								
Submitted By:	Art Krueger	De	partment:	Department	of Municipal Utilitie	Project Descripti	ion:		
Category:	Maintenance	De	partment Head:	Art Krueger		Existing generato	or is over 20 years	old and is nearing the end	of its
Fund Group:	Water	Sta	aff Priority:	Essential (SI	hould Do)	•	roject will replace it	t with a new, more efficient	t
Fund Detail:	Water System Reliability P	rojec Co	ouncil Priority:			model.			
WTP Standby Ge	nerator Replacement Project				101	7-19-CIP-C			
Funding Sources	3:								
		Previous	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	2024/2025	Tot
WAT	Water Fund	\$0	\$0	\$0	\$0	\$0	\$0	\$300,000	\$300,0
								Project Total:	\$300,0
				COST DETAIL:					
				Study:	\$0				
				Land Acquisition	/ ROW: \$0				
				Engineering / Des	sign: \$0				
				Construction:	\$300	,000		Cost Total:	\$300,0
				Annual Maint. Cos	st:			Project Difference:	:
				Maint. Year Start:					
Service Impact:				he end of it's usefu					

Recommended in the 2014 Water System Reliability Study.

Location Description:



WATER-19-CIP	Water									
1065-19-CIP	WTP Sump Pump Discha	rge Flow Me	ter							
Project Inform	nation									
Submitted By:	Art Krueger	De	partment:	Department	of Municipal Ut	ilitie	Project Descripti	on:		
Category:	Capital	De	partment Head:	Art Krueger			Install flow meter	to accurately mea	asure lagoon discharge (from	
Fund Group:	Water	Sta	off Priority:	Essential (SI	hould Do)				uired per the NPDES permit.	
Fund Detail:	Water Treatment	Co	uncil Priority:							
WTP Sump Pun	np Discharge Flow Meter					1065-	19-CIP-C			
Funding Source	es:									
		Previous	2019/2020	2020/2021	2021/2022	2	2022/2023	2023/2024	2024/2025	Total
WAT	Water Fund	\$0	\$0	\$20,000	\$0		\$0	\$0	\$0	\$20,000
									Project Total:	\$20,000
				COST DETAIL:						
				Study:	:	\$0				
				Land Acquisition	/ ROW:	\$0				
				Engineering / Des	ign:	\$0				
				Construction:	:	\$20,00	0		Cost Total:	\$20,000
				Annual Maint. Cos	st:				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.



47 40 CID	MTD Turbidimeters David								
47-19-CIP	WTP Turbidimeters Repla	acement							
Project Inforn	nation								
Submitted By:	Art Krueger	De	partment:	Department	of Municipal Utilitie	Project Descript	on:		
Category:	Maintenance	De	partment Head:	Art Krueger		Turbidity meters	at the WTP will nee	d to be replaced as they re	each
Fund Group:	Water	Sta	aff Priority:	Imperitive (N	/lust Do)			equipment and accurate	
Fund Detail:	Water Treatment	Co	uncil Priority:			readings are requ compliance.	aired by the MDEQ	for water quality monitorin	g /
WTP Turbidime	ters Replacement				104	7-19-CIP-C			
Funding Source	es:	D estriction	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	2024/2025	Tota
WAT	Water Fund	Previous \$0	\$0 \$0	\$0	\$0	\$15,000	\$10,000	\$0	\$25,00
		φU	ΦU	φU	φU	\$15,000	\$10,000	φ0 	
								Project Total:	\$25,00
				COST DETAIL:					
				Study:	\$0				
				Land Acquisition	/ ROW : \$0				
				Engineering / Des	sign: \$0				
				Construction:	\$25,	000		Cost Total:	\$25,00
				Annual Maint. Co	st:			Project Difference:	\$
				Maint. Year Start:					
Service Impact	:								
Restore reliabili	ty of instruments required for wa	ater quality as	mandated by MDE	EQ.					

Replace critical instruments when they reach end of useful life.

Location Description:

Water Treatment Plant - 2010 Eastern Ave.



ATER-19-CIP	Water									
45-19-CIP	WTP Water Quality In-Line Instrumentation									
Project Inform	ation									
Submitted By:	Art Krueger	Dep	partment:	Department	of Municipal Utilitie	Project Descripti	ion:			
Category:	Capital	Department Head: Staff Priority:		Art Krueger		Install a streaming current monitor instrument to monitor water chemistry in order to optimize daily coagulant dosing.				
Fund Group:	Water			Essential (Sł	nould Do)					
Fund Detail:	etail: Water Treatment		uncil Priority:							
WTP Water Qua	lity In-Line Instrumentation				104	15-19-CIP-C				
Funding Source	s:	Drevieue	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	2024/2025	Tota	
WAT	Water Fund	Previous								
WAI		\$0	\$0	\$25,000	\$0	\$0	\$0	\$0	\$25,00	
								Project Total:	\$25,00	
				COST DETAIL:						
				Study:	\$0					
				Land Acquisition	/ ROW : \$0					
				Engineering / Des	ign: \$0					
				Construction:	\$25,	000		Cost Total:	\$25,00	
				Annual Maint. Cos	st:			Project Difference:	\$	
				Maint. Year Start:						
Service Impact:	trument will help optimize cher	nical dosing (re	duce costs) and	ensure proper wate	er treatment					

MDEQ District Engineer has recommended installing this equipment at the WTP.

Location Description:



GRAND TOTAL:	\$6,368,877	\$40,849,991	\$36,510,998	\$37,827,914	\$20,236,349	\$25,266,796	\$17,768,825	\$184,829,750	\$128,616,045	\$56,213,705
	Previous	2019-2020	2020-2021	2021-2022	2022-2023	2023-2024	2024-2025	Cost	Funds	Funds
		Fiscal Year	Project	City	Non-City					

Table of Contents

Bridges	1
Brown Bridge	10
Cemetery	23
Civic	27
Facilities	33
Fire	43
Garage	47
General Government	50
Light and Power	67
Parking	102
Parks	118
Streets	135
Walkways	153
Wastewater	161
Water	203