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# Capital Improvement Plan

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Fiscal Years 2018 – 2023



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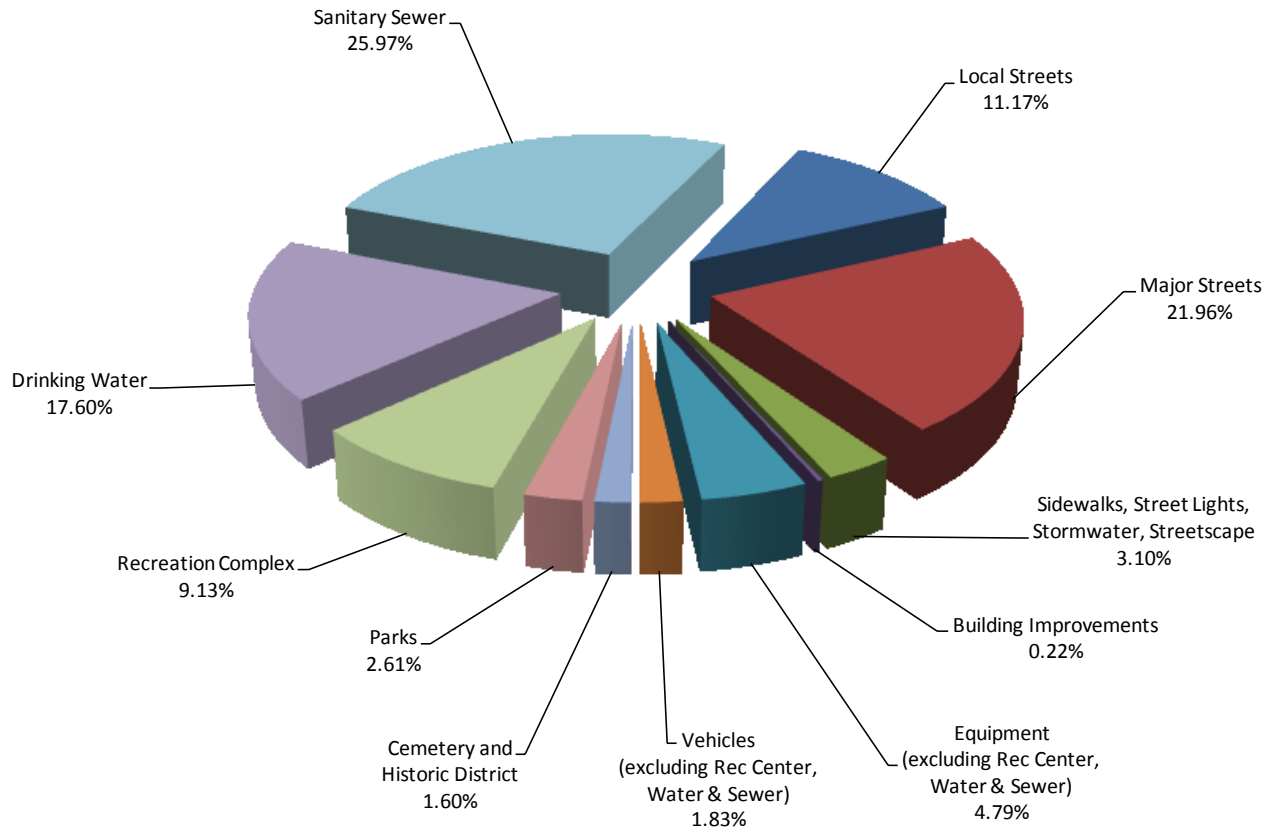
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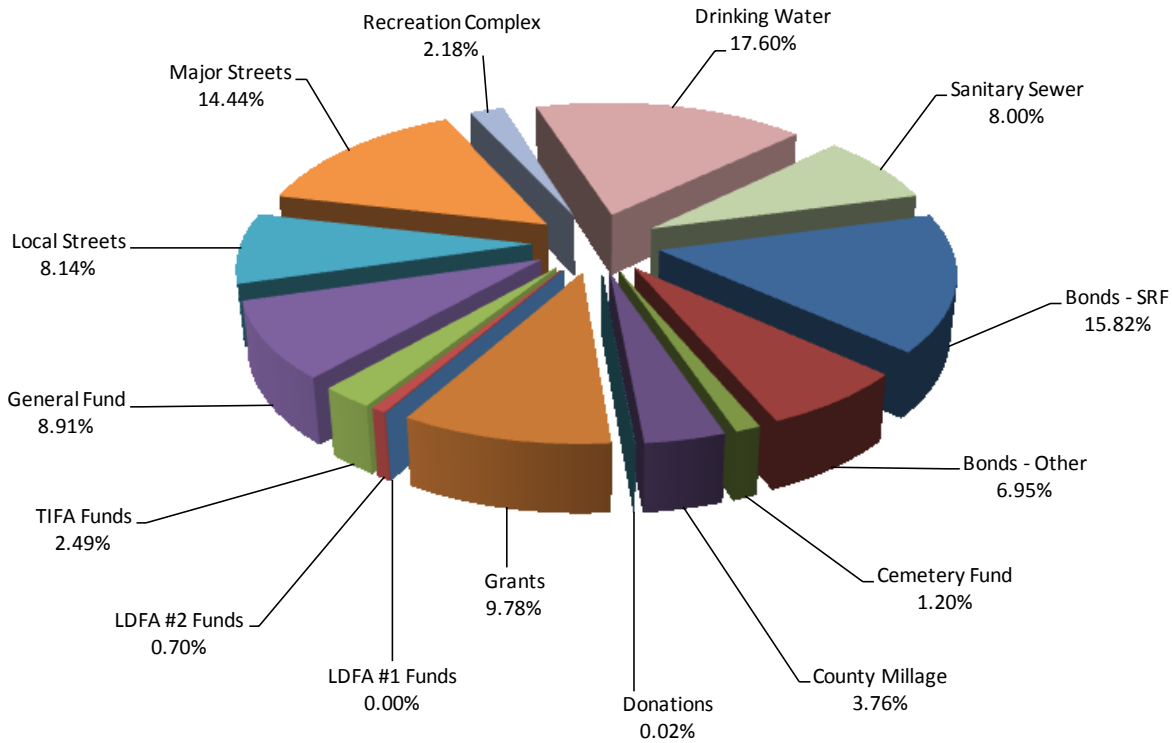
Capital Improvement Plan  
Summary of Uses and Sources of Funds  
For Fiscal Years Ending June 30, 2018–2023

USES OF FUNDS	FY18	FY19	FY20	FY21	FY22	FY23	TOTALS
Local Streets	\$237,205	\$687,295	\$661,395	\$306,875	\$200,000	\$400,000	\$2,492,770
Major Streets	595,550	725,800	2,363,435	287,215	139,560	790,840	4,902,400
Sidewalks, Street Lights, Stormwater, Streetscape	357,000	235,000	25,000	25,000	25,000	25,000	692,000
Building Improvements	0	50,000	0	0	0	0	50,000
Equipment (excluding Rec Center, Water & Sewer)	215,680	382,200	325,500	103,500	32,500	10,000	1,069,380
Vehicles (excluding Rec Center, Water & Sewer)	101,000	90,000	67,500	67,000	41,000	42,000	408,500
Cemetery & Historic District	207,345	30,000	30,000	30,000	30,000	30,000	357,345
Parks & Parking Lots	269,535	64,000	0	250,000	0	0	583,535
Recreation Complex	1,666,600	52,610	89,150	141,590	87,145	0	2,037,095
Drinking Water	348,595	1,333,005	1,007,500	772,500	237,500	230,000	3,929,100
Sanitary Sewer	1,148,600	3,986,225	304,600	125,000	145,000	88,000	5,797,425
<b>TOTAL PROJECT COSTS</b>	<b>\$5,147,110</b>	<b>\$7,636,135</b>	<b>\$4,874,080</b>	<b>\$2,108,680</b>	<b>\$937,705</b>	<b>\$1,615,840</b>	<b>\$22,319,550</b>

SOURCES OF FUNDS	FY18	FY19	FY20	FY21	FY22	FY23	TOTALS
Bonds - State Revolving Fund (SRF)	\$380,000	\$3,150,000	\$0	\$0	\$0	\$0	\$3,530,000
Bonds - Other	1,550,500	0	0	0	0	0	1,550,500
Cemetery Fund	192,345	15,000	15,000	15,000	15,000	15,000	267,345
County Millage/Reimbursement	165,000	166,320	167,980	169,660	171,360	0	840,320
Donations	3,800	0	0	0	0	0	3,800
Grant - CARES	20,000	0	0	0	0	0	20,000
Grant - Community Health	0	0	0	0	0	0	0
Grant - Historic Preservation	0	0	0	0	0	0	0
Grant - S2 (Sanitary Sewer)	0	0	0	0	0	0	0
Grant - S.A.W	575,100	112,500	0	0	0	0	687,600
Grant - Streets	0	0	1,475,000	0	0	0	1,475,000
LDFA #1 Funds	0	0	0	0	0	0	0
LDFA #2 Funds	12,000	0	144,000	0	0	0	156,000
TIFA Funds	247,535	174,000	135,000	0	0	0	556,535
<b>TOTAL FUNDING SOURCES</b>	<b>\$3,146,280</b>	<b>\$3,617,820</b>	<b>\$1,936,980</b>	<b>\$184,660</b>	<b>\$186,360</b>	<b>\$15,000</b>	<b>\$9,087,100</b>
<b>FUND REVENUE &amp; RESERVES/FUND BALANCE NEEDED</b>							
General Fund	\$424,080	\$566,200	\$408,000	\$435,500	\$88,500	\$67,000	\$1,989,280
Local Streets	237,205	520,975	493,415	137,215	28,640	400,000	1,817,450
Major Streets (including METRO Funds)	465,550	830,800	634,435	312,215	164,560	815,840	3,223,400
Recreation Complex	116,100	52,610	89,150	141,590	87,145	0	486,595
Drinking Water	348,595	1,333,005	1,007,500	772,500	237,500	230,000	3,929,100
Sanitary Sewer	409,300	714,725	304,600	125,000	145,000	88,000	1,786,625
<b>TOTAL FROM FUND REVENUE &amp; RESERVES</b>	<b>\$2,000,830</b>	<b>\$4,018,315</b>	<b>\$2,937,100</b>	<b>\$1,924,020</b>	<b>\$751,345</b>	<b>\$1,600,840</b>	<b>\$13,232,450</b>
<b>TOTAL FUNDING FOR PROJECTS</b>	<b>\$5,147,110</b>	<b>\$7,636,135</b>	<b>\$4,874,080</b>	<b>\$2,108,680</b>	<b>\$937,705</b>	<b>\$1,615,840</b>	<b>\$22,319,550</b>



USE OF FUNDS	FY18	FY19	FY20	FY21	FY22	FY23	TOTALS
Local Streets	\$237,205	\$687,295	\$661,395	\$306,875	\$200,000	\$400,000	\$2,492,770
Major Streets	595,550	725,800	2,363,435	287,215	139,560	790,840	4,902,400
Sidewalks, Street Lights, Stormwater, Streetscape	\$357,000	\$235,000	\$25,000	\$25,000	\$25,000	\$25,000	\$692,000
Building Improvements	0	50,000	0	0	0	0	50,000
Equipment (excluding Rec Center, Water & Sewer)	\$215,680	\$382,200	\$325,500	\$103,500	\$32,500	\$10,000	\$1,069,380
Vehicles (excluding Rec Center, Water & Sewer)	101,000	90,000	67,500	67,000	41,000	42,000	408,500
Cemetery and Historic District	\$207,345	\$30,000	\$30,000	\$30,000	\$30,000	\$30,000	\$357,345
Parks	269,535	64,000	0	250,000	0	0	583,535
Recreation Complex	\$1,666,600	\$52,610	\$89,150	\$141,590	\$87,145	\$0	\$2,037,095
Drinking Water	348,595	1,333,005	1,007,500	772,500	237,500	230,000	3,929,100
Sanitary Sewer	\$1,148,600	\$3,986,225	\$304,600	\$125,000	\$145,000	\$88,000	\$5,797,425
<b>TOTALS</b>	<b>\$5,147,110</b>	<b>\$7,636,135</b>	<b>\$4,874,080</b>	<b>\$2,108,680</b>	<b>\$937,705</b>	<b>\$1,615,840</b>	<b>\$22,319,550</b>



SOURCE OF FUNDS	FY18	FY19	FY20	FY21	FY22	FY23	TOTALS
Bonds - State Revolving Fund (SRF)	\$380,000	\$3,150,000	\$0	\$0	\$0	\$0	\$3,530,000
Bonds - Other	1,550,500	0	0	0	0	0	1,550,500
Cemetery Fund	192,345	15,000	15,000	15,000	15,000	15,000	267,345
County Millage	165,000	166,320	167,980	169,660	171,360	0	840,320
Donations	3,800	0	0	0	0	0	3,800
Grant - CARES	20,000	0	0	0	0	0	20,000
Grant - Community Health	0	0	0	0	0	0	0
Grant - Historic Preservation	0	0	0	0	0	0	0
Grant - S2 (Sanitary Sewer)	0	0	0	0	0	0	0
Grant - S.A.W.	575,100	112,500	0	0	0	0	687,600
Grant - Streets	0	0	1,475,000	0	0	0	1,475,000
LDFA #1 Funds	0	0	0	0	0	0	0
LDFA #2 Funds	12,000	0	144,000	0	0	0	156,000
TIFA Funds	247,535	174,000	135,000	0	0	0	556,535
General Fund	424,080	566,200	408,000	435,500	88,500	67,000	1,989,280
Local Streets	237,205	520,975	493,415	137,215	28,640	400,000	1,817,450
Major Streets (including METRO Funds)	465,550	830,800	634,435	312,215	164,560	815,840	3,223,400
Recreation Complex	116,100	52,610	89,150	141,590	87,145	0	486,595
Drinking Water	348,595	1,333,005	1,007,500	772,500	237,500	230,000	3,929,100
Sanitary Sewer	409,300	714,725	304,600	125,000	145,000	88,000	1,786,625
<b>TOTALS</b>	<b>\$5,147,110</b>	<b>\$7,636,135</b>	<b>\$4,874,080</b>	<b>\$2,108,680</b>	<b>\$937,705</b>	<b>\$1,615,840</b>	<b>\$22,319,550</b>

# Capital Acquisitions, Improvements & Replacement Needs





Capital Improvement Plan  
Capital Acquisitions, Improvements & Replacement Needs  
For Fiscal Year Ending June 30, 2018

Project Description	FY18 Cost	Source of Funding					Donations & Grants
		Revenue, Reserves, Fund Balance	Cemetery Fund	Component Units	County Millage	Debt Service	
<b>GENERAL FUND</b>							
<u>General Government</u>							
Update Firewall (part of City-wide project)	11,000	11,000					
Staff Vehicles (2)	32,000	32,000					
BS&A Software Upgrade (A/P, G/L, Cash Receipts, Budget)	18,000	18,000					
<u>Public Safety</u>							
Police Patrol Vehicle	37,000	37,000					
Electronic Wi-Fi Enabled Speed Signs (2)	9,380	9,380					
<u>Public Works</u>							
DPW Small Equipment Replacement	20,200	20,200					
DPW Vactor Heads for New Vactor	5,000	5,000					
Parks/Cemetery Mower	8,400	8,400					
Parks Mower	11,200	11,200					
Street Lights (LED conversion)	40,000	40,000					
S.A.W. Program (Stormwater)	262,000	26,200					235,800
DPW 4X4 Pickup w/Blade, Tailgate	32,000	32,000					
DPW/Parks Used Aerial Bucket	110,000	110,000					
DPW Vactor Lease (DPW: 30% of \$75K; shared with W&S)	22,500	22,500					
<u>Cemetery &amp; Historic District</u>							
Pave Cemetery Drives	192,345	0	192,345				
Rentschler Farm Improvements - TBD	15,000	15,000					
<u>Park Improvements</u>							
Salt Springs Park Improvements	10,000	10,000					
Curtiss Park Swings Replacement	22,000	0		22,000			
Millpond Park Pavillion Roof & Bathroom Rehab	15,000	0		15,000			
Parking Lot #4 Improvements	137,535	0		137,535			
Peoples Park Parking Lot	45,000	0		45,000			
Brecon Park Play Structure Installation	40,000	16,200					23,800
<b>RECREATION COMPLEX</b>							
Resurface Pool Deck/Flooring	52,100	52,100					
Roof Replacement	1,550,500	0				1,550,500	
Equipment Replacement Program (after trade-in)	64,000	64,000					
<b>MAJOR STREETS</b>							
Grant/Austin Rd: US-12 to W. end	114,000	114,000					
Grant/Old Creek: Henry to Oakbrook	76,000	76,000					
LDFA#2/South Industrial Drive	15,000	3,000		12,000			
Harper: N. Ann Arbor to N. Harris	271,500	106,500			165,000		
Grant/Maple: Clark to Library	8,000	0		8,000			
S. Harris: US-12 to Henry	25,500	25,500					
Mills Road: Hollywood to Bennett	28,000	28,000					
Barnes Ct: Industrial to W. end	23,550	23,550					
US-12 Sidewalk: Bridge to Austin Road	30,000	30,000					
Monroe St. Bridge Design & Reconstruction	34,000	34,000					
Sidewalk Improvement Program	25,000	25,000					



Capital Improvement Plan  
Capital Acquisitions, Improvements & Replacement Needs  
For Fiscal Year Ending June 30, 2018

Project Description	FY18 Cost	Source of Funding					
		Revenue, Reserves, Fund Balance	Cemetery Fund	Component Units	County Millage	Debt Service	Donations & Grants
<b>LOCAL STREETS</b>							
Woodland Dr. W: N. Ann Arbor to Colony; + Bridge	23,530	23,530					
Highland Dr: Mills to Bennett	15,000	15,000					
Colony Dr: Waterworks to Colony Ct.	18,795	18,795					
Colony Ct: Colony Dr. to W. end	148,170	148,170					
Lexington Dr: Colony to Lexington Ct.	23,010	23,010					
Lexington Ct: Lexington to N. end	8,700	8,700					
<b>DRINKING WATER</b>							
<u>Water Treatment Plant</u>							
Computer/Small Equipment Upgrades	5,000	5,000					
Well Rehabilitation/Improvements	30,000	30,000					
<u>DWRF Replacement</u>							
(4) Chemical Transfer Pumps	8,000	8,000					
High Service Pump (#1)	25,000	25,000					
RO Membranes (RO-1)	90,000	90,000					
Booster Replacement (#1)	20,000	20,000					
Contingency (anticipate \$200,000 annually)	57,000	57,000					
<u>Water Distribution</u>							
N. Ann Arbor Water main	70,000	70,000					
Whittier Ct (Nichols to N. End)	8,745	8,745					
Nichols Drive (Wallace to S. Harris)	21,150	21,150					
Vactor Lease (shared with Sewer & DPW)	7,500	7,500					
<b>SANITARY SEWER</b>							
<u>Wastewater Treatment Plant</u>							
Computer/Equipment Upgrades	10,000	10,000					
WWTP Rehabilitation Phase 2	30,000	30,000					
PCF Influent Pump VFD (Speed Control)	22,000	22,000					
RBC Drive Replacement	55,000	55,000					
Two (2) Influent Low Pressure Air Compressors	50,000	50,000					
TIFA Lift Pump Replacement	20,000	0		20,000			
Sauk Trail Lift Station	20,000	20,000					
Odor Study (completion)	35,000	35,000					
Odor Control Project	350,000	0				350,000	
<u>Sewer Collection</u>							
Michigan Ave/MDOT	45,000	45,000					
Highland Drive	35,000	35,000					
S.A.W. Project (years 2 & 3 of 3 year project)	377,000	37,700					339,300
Sanitary Spot Repairs	20,000	20,000					
E. Michigan Ave	34,600	34,600					
Vactor Lease (shared with Water & DPW)	45,000	45,000					
<b>PROJECT TOTALS FOR FISCAL YEAR 2018</b>	<b>\$5,140,910</b>	<b>\$2,024,630</b>	<b>\$192,345</b>	<b>\$259,535</b>	<b>\$165,000</b>	<b>\$1,900,500</b>	<b>\$598,900</b>





Capital Improvement Plan  
Capital Acquisitions, Improvements & Replacement Needs  
For Fiscal Year Ending June 30, 2019

Project Description	FY19 Cost	Source of Funding					Donations & Grants
		Revenue, Reserves, Fund Balance	Cemetery Fund	Component Units	County Millage	Debt Service	
<b>GENERAL FUND</b>							
<u>General Government</u>							
Communication Systems Upgrade	12,000	12,000					
Upgrade Conference Rooms to HD	10,000	10,000					
Facility Lighting Upgrade, Control Sensors	50,000	50,000					
<u>Public Safety</u>							
Police Patrol Vehicle	38,000	38,000					
Police Staff Vehicle	17,000	17,000					
Upgrade Conference Rooms to HD	10,000	10,000					
<u>Public Works</u>							
S.A.W. Program (Stormwater)	40,000	4,000					36,000
DPW 4X4 Pickup w/Blade, Tailgate	35,000	35,000					
DPW Vactor Lease (DPW: 30% of \$75K; shared with W&S)	22,500	22,500					
DPW 5-7 CYD Dump/Salt Truck	185,000	185,000					
DPW Small Salt Insert	6,000	6,000					
DPW Toolcat with Broom (additional unit)	57,200	57,200					
DPW Backhoe (DPW: 10% of \$100K)	10,000	10,000					
DPW Fuel Pump Replacement	25,000	25,000					
DPW Radios - Vehicles & Handhelds	20,000	20,000					
DPW Hearing Protection Wireless Headsets	8,000	8,000					
DPW Bobcat Snowblower (new units)	7,500	7,500					
DPW Brine System for vehicle #235	9,000	9,000					
<u>Cemetery &amp; Historic District</u>							
Cemetery Landscaping: Trees and Shrubs	5,000	0	5,000				
Cemetery Irrigation project (extend water lines)	10,000		10,000				
Rentschler Farm Improvements - TBD	15,000	15,000					
<u>Park Improvements</u>							
Brecon Park Picnic Shelter	25,000	25,000					
Millpond Park Small Dog Area	9,000	0		9,000			
Curtiss Park Pavillion Repair/Replacement	30,000	0		30,000			
<b>RECREATION COMPLEX</b>							
Building Block Cleaning & Sealing	15,750	15,750					
Pool Area Exit Doors	6,930	6,930					
Pool Area Interior Doors	16,930	16,930					
Video Surveillance Equipment	13,000	13,000					
<b>MAJOR STREETS</b>							
Grant/Maple: Clark to Library	90,000	0		90,000			
S. Harris: US-12 to Henry	37,900	37,900					
Mills Road: Hollywood to Bennett	267,200	267,200					
Barnes Ct: Industrial to W. end	133,450	133,450					
US-12 Sidewalk: Bridge to Austin Road	170,000	170,000					
Grant/N. Industrial: US12 to Woodland	115,500	115,500					
Grant/S. Industrial: US12 to S. end	51,750	51,750					
E. McKay: N Ann Arbor to Harris	30,000	30,000					
Sidewalk Improvement Program	25,000	25,000					



Capital Improvement Plan  
Capital Acquisitions, Improvements & Replacement Needs  
For Fiscal Year Ending June 30, 2019

Project Description	FY19 Cost	Source of Funding					
		Revenue, Reserves, Fund Balance	Cemetery Fund	Component Units	County Millage	Debt Service	Donations & Grants
<b>LOCAL STREETS</b>							
Woodland Dr. W: N. Ann Arbor to Colony; + Bridge	130,770	130,770					
Highland Dr: Mills to Bennett	210,000	43,680			166,320		
Colony Dr: Waterworks to Colony Ct.	106,505	106,505					
Lexington Dr: Colony to Lexington Ct.	130,390	130,390					
Lexington Ct: Lexington to N. end	49,300	49,300					
Riveroaks Bl: US-12 to S. end	10,830	10,830					
Nichols: Wallace to S. Harris	27,345	27,345					
Hillcrest: Lawson to S. Harris	12,885	12,885					
Lawson: S. Harris to Hillcrest	9,270	9,270					
<b>DRINKING WATER</b>							
<u>Water Treatment Plant</u>							
Well Rehabilitation/Improvements (various wells)	30,000	30,000					
Henry Street Water Tower Rehab & Painting	125,000	125,000					
<u>DWRF Replacement</u>							
High Service Pump (#2)	25,000	25,000					
RO Membranes (RO-2)	90,000	90,000					
Booster Replacement (#2)	20,000	20,000					
Scada Improvements/Upgrade	40,000	40,000					
Low Pressure Air Blower	20,000	20,000					
High Pressure Air Compressor	20,000	20,000					
Concentrate Pump Station	100,000	100,000					
Green Sand Filter Media	135,000	135,000					
Setling Ponds Rehabilitation	55,000	55,000					
<u>Water Distribution</u>							
N. Ann Arbor Water main	200,000	200,000					
Whittier Ct (Nichols to N. End)	49,555	49,555					
Vactor Lease (shared with Sewer & DPW)	7,500	7,500					
Nichols Drive (Wallace to S. Harris)	119,850	119,850					
Air Release Valve (Main #2)	70,000	70,000					
Hall (US-12 to E McKay)	26,200	26,200					
Mills Road: Hydrants (Hollywood to Bennett)	10,000	10,000					
Watson (NE of Nichols to Chandler)	81,100	81,100					
Wheeler Ct (Lewis to W. End)	48,800	48,800					
Backhoe (shared with Sewer & DPW)	60,000	60,000					
<b>SANITARY SEWER</b>							
<u>Wastewater Treatment Plant</u>							
RBC Drive Replacement	30,000	30,000					
Sauk Trail Lift Station	50,000	50,000					
Odor Control Project (SRF loan)	3,150,000	0				3,150,000	
Woodland Drive Lift Station Motor Control Replace	25,000	0		25,000			
Southside Lift Station Pump Replacement	20,000	0		20,000			
Four (4) Centrifugal Dry Pit Raw Influent Pumps	85,000	85,000					
Maplewood Lift Station	120,000	120,000					
Huntington Woods Lift Station	70,000	70,000					
Portable Pump Generator	60,000	60,000					

Project Description	FY19 Cost	Source of Funding					
		Revenue, Reserves, Fund Balance	Cemetery Fund	Component Units	County Millage	Debt Service	Donations & Grants
<b>SANITARY SEWER (Continued)</b>							
<u>Sewer Collection</u>							
S.A.W. Project (years 2 & 3 of 3 year project)	85,000	8,500					76,500
Sanitary Spot Repairs	50,000	50,000					
E. Michigan Ave	103,125	103,125					
Hall (US-12 to E McKay)	23,100	23,100					
Urban Growth Sewer Project	40,000	40,000					
Vactor Lease (shared with Water & DPW)	45,000	45,000					
Backhoe (shared with Water & DPW)	30,000	30,000					
<b>PROJECT TOTALS FOR FISCAL YEAR 2019</b>	<b>\$7,636,135</b>	<b>\$4,018,315</b>	<b>\$15,000</b>	<b>\$174,000</b>	<b>\$166,320</b>	<b>\$3,150,000</b>	<b>\$112,500</b>



Capital Improvement Plan  
Capital Acquisitions, Improvements & Replacement Needs  
For Fiscal Year Ending June 30, 2020

Project Description	FY20 Cost	Source of Funding					Donations & Grants
		Revenue, Reserves, Fund Balance	Cemetery Fund	Component Units	County Millage	Debt Service	
<b>GENERAL FUND</b>							
<u>General Government</u>							
City Hall Computer/Equipment upgrades	10,000	10,000					
<u>Public Safety</u>							
Police Patrol Vehicle	39,000	39,000					
<u>Public Works</u>							
DPW 4X4 Pickup w/Blade, Tailgate	28,500	28,500					
DPW Vactor Lease (DPW: 30% of \$75K; shared with W&S)	22,500	22,500					
DPW 5-7 CYD Dump/Salt Truck	195,000	195,000					
Parks Wood Chipper	48,000	48,000					
DPW/Parks 2 CYD Dump Truck	50,000	50,000					
<u>Cemetery &amp; Historic District</u>							
Cemetery Improvements TBD	15,000	0	15,000				
Rentschler Farm Improvements TBD	15,000	15,000					
<u>Park Improvements</u>							
Projects TBD	0	0					
<b>RECREATION COMPLEX</b>							
Parking Lot Improvements (by Pool/Phase 2)	89,150	89,150					
<b>MAJOR STREETS</b>							
Grant/Maple: Clark to Library	510,000	0		135,000			375,000
Monroe St. Bridge Design & Reconstruction	600,000	60,000					540,000
Grant/N. Industrial: US12 to Woodland	654,500	299,603					354,897
Grant/S. Industrial: US12 to S. end	378,250	29,147		144,000			205,103
E. McKay: N Ann Arbor to Harris	170,000	170,000					
Hall: US-12 to E. McKay	6,525	6,525					
Sauk Trail Court: Industrial to west end	44,160	44,160					
Sidewalk Improvement Program	25,000	25,000					
<b>LOCAL STREETS</b>							
Riveroaks Bl: US-12 to S. end	61,370	0			61,370		
Nichols: Wallace to S. Harris	154,955	48,345			106,610		
Hillcrest: Lawson to S. Harris	73,015	73,015					
Lawson: S. Harris to Hillcrest	52,530	52,530					
Oakbrook Ct: Old Creek to W. end	53,000	53,000					
Glennbrook: Old Creek to E. end	46,400	46,400					
W. McKay: N. Ann Arbor to Lewis	20,625	20,625					
Washington: Austin Dr to N. end	43,100	43,100					
Austin Drive: St. Andrew to E. end	156,400	156,400					
<b>DRINKING WATER</b>							
<u>Water Treatment Plant</u>							
Well Rehabilitation/Improvements	30,000	30,000					
Paint Industrial Park Water Tower	70,000	70,000					
<u>DWRF Replacement</u>							
Electric Room Upgrades	100,000	100,000					
Contingency (anticipate \$200,000 annually)	100,000	100,000					

Project Description	FY20 Cost	Source of Funding					
		Revenue, Reserves, Fund Balance	Cemetery Fund	Component Units	County Millage	Debt Service	Donations & Grants
<b>DRINKING WATER (Continued)</b>							
<u>Water Distribution</u>							
Vactor Lease (shared with Sewer & DPW)	7,500	7,500					
Heritage (Breconshire to Lexington)	98,200	98,200					
Huntington Loop (Huntington to US-12)	178,750	178,750					
Transmain #2 (WTP to Bennett)	202,400	202,400					
Raw Water Line (WTP to Ann Arbor)	115,500	115,500					
Sauk Trail Court (S. Industrial to W end)	70,400	70,400					
Lewis Street (US-12 to W. Henry)	34,750	34,750					
<b>SANITARY SEWER</b>							
<u>Wastewater Treatment Plant</u>							
Computer/Equipment Upgrades	8,000	8,000					
PCF Influent Pump VFD (Speed Control)	20,000	20,000					
RBC Drive Replacement	30,000	30,000					
Arboretum Lift Station Upgrade	50,000	50,000					
Breconshire Lift Station Upgrade	40,000	40,000					
<u>Sewer Collection</u>							
Sanitary Spot Repairs	50,000	50,000					
Sauk Trail Ct (S. Industrial to E. End)	61,600	61,600					
Backhoe (30% of \$85,000; shared with DPW & Water)	45,000	45,000					
<b>PROJECT TOTALS FOR FISCAL YEAR 2020</b>	<b>\$4,874,080</b>	<b>\$2,937,100</b>	<b>\$15,000</b>	<b>\$279,000</b>	<b>\$167,980</b>	<b>\$0</b>	<b>\$1,475,000</b>

Project Description	FY21 Cost	Source of Funding					
		Revenue, Reserves, Fund Balance	Cemetery Fund	Component Units	County Millage	Debt Service	Donations & Grants
<b>GENERAL FUND</b>							
<u>General Government</u>							
City Hall Computer/Equipment upgrades	10,000	10,000					
<u>Public Safety</u>							
Police Patrol Vehicle	40,000	40,000					
<u>Public Works</u>							
DPW Vactor Lease (DPW: 30% of \$75K; shared with W&S)	22,500	22,500					
DPW 4X2 Pickup	27,000	27,000					
DPW Leaf Collection Equipment	35,000	35,000					
DPW Mowers	36,000	36,000					
<u>Cemetery &amp; Historic District</u>							
Cemetery Improvements	15,000	0	15,000				
Rentschler Farm Improvements	15,000	15,000					
<u>Park Improvements</u>							
Tefft Park Splash Pad	250,000	250,000					
<b>RECREATION COMPLEX</b>							
Equipment Replacement Program (after trade-in)	65,000	65,000					
Parking Lot Improvements (South Ball Field/Phase 3)	76,590	76,590					
<b>MAJOR STREETS</b>							
Hall: US-12 to E. McKay	36,975	36,975					
Sauk Trail Court: Industrial to west end	250,240	250,240					
METRO Projects TBD	25,000	25,000					
<b>LOCAL STREETS</b>							
W. McKay: N. Ann Arbor to Lewis	116,875	116,875					
Bassett Dr: Harper to N. Harris	190,000	20,340			169,660		
<b>DRINKING WATER</b>							
<u>Water Treatment Plant</u>							
Computer/Equipment Upgrades	5,000	5,000					
Well Rehabilitation/Improvements (various wells)	30,000	30,000					
<u>DWRF Replacement</u>							
Replace Reverse Osmosis Skid	730,000	730,000					
<u>Water Distribution</u>							
Vactor Lease (shared with Sewer & DPW)	7,500	7,500					
Projects TBD	0	0					
<b>SANITARY SEWER</b>							
<u>Wastewater Treatment Plant</u>							
RBC Drive Replacement	30,000	30,000					
<u>Sewer Collection</u>							
Sanitary Spot Repairs	50,000	50,000					
Vactor Lease (shared with Water & DPW)	45,000	45,000					
Projects TBD	0	0					
<b>PROJECT TOTALS FOR FISCAL YEAR 2021</b>	<b>\$2,108,680</b>	<b>\$1,924,020</b>	<b>\$15,000</b>	<b>\$0</b>	<b>\$169,660</b>	<b>\$0</b>	<b>\$0</b>

Project Description	FY22 Cost	Source of Funding					
		Revenue, Reserves, Fund Balance	Cemetery Fund	Component Units	County Millage	Debt Service	Donations & Grants
<b>GENERAL FUND</b>							
<u>General Government</u>							
City Hall Computer/Equipment upgrades	10,000	10,000					
<u>Public Safety</u>							
Police Patrol Vehicle	41,000	41,000					
<u>Public Works</u>							
DPW Vactor Lease (DPW: 30% of \$75K; shared with W&S)	22,500	22,500					
<u>Cemetery &amp; Historic District</u>							
Cemetery Improvements	15,000	0	15,000				
Rentschler Farm Improvements	15,000	15,000					
<u>Park Improvements</u>							
Projects TBD	0	0					
<b>RECREATION COMPLEX</b>							
Parking Lot Improvements (North Ball Field/Phase 4)	87,145	87,145					
<b>MAJOR STREETS</b>							
Woodland Dr: Davco to Textile	68,010	68,010					
N. Ann Arbor: Tower Dr to City limits	71,550	71,550					
METRO Projects TBD	25,000	25,000					
<b>LOCAL STREETS</b>							
Hollywood Drive	200,000	28,640			171,360		
Projects TBD	0	0					
<b>DRINKING WATER</b>							
<u>Water Treatment Plant</u>							
Well Rehabilitation/Improvements	30,000	30,000					
<u>DWRF Replacement</u>							
RO Membranes (RO-1)	90,000	90,000					
Contingency (anticipate \$200,000 annually)	110,000	110,000					
<u>Water Distribution</u>							
Vactor Lease (shared with Sewer & DPW)	7,500	7,500					
Projects TBD	0	0					
<b>SANITARY SEWER</b>							
<u>Wastewater Treatment Plant</u>							
PCF Influent Pump VFD (Speed Control)	20,000	20,000					
RBC Drive Replacement	30,000	30,000					
<u>Sewer Collection</u>							
Sanitary Spot Repairs	50,000	50,000					
Vactor Lease (shared with Water & DPW)	45,000	45,000					
Projects TBD	0	0					
<b>PROJECT TOTALS FOR FISCAL YEAR 2022</b>	<b>\$937,705</b>	<b>\$751,345</b>	<b>\$15,000</b>	<b>\$0</b>	<b>\$171,360</b>	<b>\$0</b>	<b>\$0</b>

Project Description	FY23 Cost	Source of Funding					
		Revenue, Reserves, Fund Balance	Cemetery Fund	Component Units	County Millage	Debt Service	Donations & Grants
<b>GENERAL FUND</b>							
<u>General Government</u>							
City Hall Computer/Equipment upgrades	10,000	10,000					
<u>Public Safety</u>							
Police Patrol Vehicle	42,000	42,000					
<u>Public Works</u>							
Projects TBD	0	0					
<u>Cemetery &amp; Historic District</u>							
Cemetery Improvements	15,000	0	15,000				
Rentschler Farm Improvements	15,000	15,000					
<u>Park Improvements</u>							
Projects TBD	0	0					
<b>RECREATION COMPLEX</b>							
Projects TBD	0	0					
<b>MAJOR STREETS</b>							
Woodland Dr: Davco to Textile	385,390	385,390					
N. Ann Arbor: Tower Dr to City limits	405,450	405,450					
METRO Projects TBD	25,000	25,000					
<b>LOCAL STREETS</b>							
Marpool and Woodhill	400,000	400,000					
Projects TBD	0	0					
<b>DRINKING WATER</b>							
<u>Water Treatment Plant</u>							
Well Rehabilitation/Improvements	30,000	30,000					
<u>DWRF Replacement</u>							
RO Membranes (RO-2)	90,000	90,000					
High Pressure Air Compressor	10,000	10,000					
Contingency (anticipate \$200,000 annually)	100,000	100,000					
<u>Water Distribution</u>							
Projects TBD	0	0					
<b>SANITARY SEWER</b>							
<u>Wastewater Treatment Plant</u>							
Computer/Equipment Upgrades	8,000	8,000					
RBC Drive Replacement	30,000	30,000					
<u>Sewer Collection</u>							
Sanitary Spot Repairs	50,000	50,000					
Projects TBD	0	0					
<b>PROJECT TOTALS FOR FISCAL YEAR 2023</b>	<b>\$1,615,840</b>	<b>\$1,600,840</b>	<b>\$15,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>



# Capital Improvement Plan by Fund





USE OF FUNDS	FY18	FY19	FY20	FY21	FY22	FY23	TOTALS
<b>GENERAL GOVERNMENT</b>							
Update Firewall (part of City-wide project)	11,000						11,000
Staff Vehicles (2)	32,000						32,000
BS&A Software (G/L, A/P, A/R, Cash Receipts)	18,000						18,000
Communication Systems Upgrade		12,000					12,000
Upgrade Conference Rooms to HD		10,000					10,000
Facility Lighting Upgrade, Control Sensors		50,000					50,000
Upgrade Equipment/Computers (as needed)			10,000	10,000	10,000	10,000	40,000
<b>PUBLIC SAFETY</b>							
Police Patrol Vehicle	37,000	38,000	39,000	40,000	41,000	42,000	237,000
Electronic Wi-Fi Enabled Speed Signs	9,380						9,380
Police Staff Vehicle		17,000					17,000
Upgrade Conference Rooms to HD		10,000					10,000
<b>PUBLIC WORKS</b>							
DPW Small Equipment Replacement	20,200						20,200
DPW Vactor Heads for New Vactor	5,000						5,000
Parks/Cemetery Mower	8,400						8,400
Parks Mower	11,200						11,200
DPW/Parks Used Aerial Bucket	110,000						110,000
Street Lights (LED conversion)	40,000						40,000
S.A.W. Program (Stormwater)	262,000	40,000					302,000
DPW 4X4 Pickup w/Blade, Tailgate	32,000	35,000	28,500				95,500
DPW Vactor Lease (DPW: 30% of \$75K)	22,500	22,500	22,500	22,500	22,500		112,500
DPW 5-7 CYD Dump/Salt Truck		185,000	195,000				380,000
DPW Small Salt Insert		6,000					6,000
DPW Toolcat with Broom (additional unit)		57,200					57,200
DPW Backhoe (DPW: 10% of \$100K)		10,000					10,000
DPW Fuel Pump Replacement		25,000					25,000
DPW Radios - Vehicles & Handhelds		20,000					20,000
DPW Hearing Protection Wireless Headsets		8,000					8,000
DPW Bobcat Snowblower (new units)		7,500					7,500
DPW Brine System for vehicle #235		9,000					9,000
Parks Wood Chipper			48,000				48,000
DPW/Parks 2 CYD Dump Truck			50,000				50,000
DPW 4X2 Pickup				27,000			27,000
DPW Leaf Collection Equipment				35,000			35,000
DPW Mowers				36,000			36,000
<b>CEMETERY &amp; HISTORIC DISTRICT</b>							
Cemetery: Pave Drives	192,345						192,345
Cemetery Landscaping: Trees and Shrubs		5,000					5,000
Cemetery Irrigation project (extend water lines)		10,000					10,000
Cemetery (Projects TBD)			15,000	15,000	15,000	15,000	60,000
Rentschler Farm Improvements (Projects TBD)	15,000	15,000	15,000	15,000	15,000	15,000	90,000
<b>PARKS &amp; PARKING LOTS</b>							
Salt Springs Park Parking Lot Construction	10,000						10,000
Curtiss Park Swings Replacement	22,000						22,000
Millpond Park Pavillion Roof & Bathroom Rehab	15,000						15,000
Parking Lot #4 Improvements	137,535						137,535
Peoples Park Parking Lot	45,000						45,000
Brecon Park Play Structure Installation	40,000						40,000
Brecon Park Picnic Shelter		25,000					25,000
Millpond Park Small Dog Area		9,000					9,000
Curtiss Park Pavillion Repair/Replacement		30,000					30,000
Tefft Park Splash Pad				250,000			250,000
<b>TOTAL GENERAL FUND DEPENDENT PROJECTS:</b>	<b>\$1,095,560</b>	<b>\$656,200</b>	<b>\$423,000</b>	<b>\$450,500</b>	<b>\$103,500</b>	<b>\$82,000</b>	<b>\$2,810,760</b>



Capital Improvement Plan  
General Fund  
For Fiscal Years Ending June 30, 2018-2023

SOURCE OF FUNDS	FY18	FY19	FY20	FY21	FY22	FY23	TOTALS
Donations: Brecon Park Play Structure	3,800						3,800
Cemetery Perpetual Care Fund	192,345	15,000	15,000	15,000	15,000	15,000	267,345
Historic Preservation Grant: Cemetery Projects							0
Historic Preservation Grant: Rentschler Farm							0
CARES Grant-Brecon Park Play Structure	20,000						20,000
Community Health Grant							0
S.A.W. Grant	235,800	36,000					271,800
TIFA: Millpond Park	15,000	9,000					24,000
TIFA: Curtiss Park	22,000	30,000					52,000
TIFA: Parking Lot #4 Improvements	137,535						137,535
TIFA: Peoples Park Parking Lot	45,000						45,000
<b>TOTAL FUNDING SOURCES:</b>	<b>671,480</b>	<b>90,000</b>	<b>15,000</b>	<b>15,000</b>	<b>15,000</b>	<b>\$15,000</b>	<b>\$821,480</b>

Forecasted Available Fund Balance for CIP Projects <sup>1</sup>	\$2,899,554	\$2,433,905	\$1,830,058	\$1,454,872	\$1,077,238	\$1,090,242	
Funds from General Fund Needed for CIP Projects	\$424,080	\$566,200	\$408,000	\$435,500	\$88,500	\$67,000	\$1,989,280
Excess(Deficit) Unassigned Year End Fund Balance	\$2,475,474	\$1,867,705	\$1,422,058	\$1,019,372	\$988,738	\$1,023,242	

<sup>1</sup> Beginning Year Fund Balance + Revenues - Expenditures before Capital Improvement project costs



Capital Improvement Plan  
Recreation Complex  
For Fiscal Years Ending June 30, 2018-2023

USE OF FUNDS	FY18	FY19	FY20	FY21	FY22	FY23	TOTALS
Resurface Pool Deck/Flooring	52,100						52,100
Roof Replacement	1,550,500						1,550,500
Equipment Replacement Program (after trade-in)	64,000			65,000			129,000
Building Block Cleaning & Sealing		15,750					15,750
Pool Area Exit Doors		6,930					6,930
Pool Area Interior Doors		16,930					16,930
Video Surveillance Equipment		13,000					13,000
Parking Lot Improvements (by Pool/Phase 2)			89,150				89,150
Parking Lot Improvements (South Ball Field/Phase 3)				76,590			76,590
Parking Lot Improvements (North Ball Field/Phase 4)					87,145		87,145
Facility &/or Equipment Upgrades TBD							0
<b>TOTAL RECREATION COMPLEX PROJECTS:</b>	<b>\$1,666,600</b>	<b>\$52,610</b>	<b>\$89,150</b>	<b>\$141,590</b>	<b>\$87,145</b>	<b>\$0</b>	<b>\$2,037,095</b>

SOURCE OF FUNDS	FY18	FY19	FY20	FY21	FY22	FY23	TOTALS
Donations							0
C.A.R.E.S. Grant: ADA Doors							0
Community Health Grant							0
Bond	1,550,500						1,550,500
<b>TOTAL FUNDING SOURCES:</b>	<b>\$1,550,500</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$1,550,500</b>

Forecasted Available Fund Balance for CIP Projects <sup>1</sup>	\$571,177	\$394,557	\$279,446	\$126,270	(\$85,340)	(\$248,822)	
Recreation Complex Funds Needed for CIP Projects	\$116,100	\$52,610	\$89,150	\$141,590	\$87,145	\$0	\$486,595
Excess(Deficit) Year End Fund Balance	\$455,077	\$341,947	\$190,296	(\$15,320)	(\$172,485)	(\$248,822)	

<sup>1</sup> Beginning Year Fund Balance + Revenues - Expenditures *before* Capital Improvement project costs



Capital Improvement Plan  
Major Streets  
For Fiscal Years Ending June 30, 2018-2023

USE OF FUNDS	FY18	FY19	FY20	FY21	FY22	FY23	TOTALS
<b>STREET PROJECTS</b>							
Grant/Austin Rd: US-12 to W. end	114,000						114,000
Grant/Old Creek: Henry to Oakbrook	76,000						76,000
Harper: N. Ann Arbor to N. Harris	271,500						271,500
Grant/Maple: Clark to Library	8,000	90,000	510,000				608,000
S. Harris: US-12 to Henry	25,500	37,900					63,400
Mills Road: Hollywood to Bennett	28,000	267,200					295,200
Barnes Ct: Industrial to W. end	23,550	133,450					157,000
US-12 Sidewalk: Bridge to Austin Road	30,000	170,000					200,000
Monroe St. Bridge Design & Reconstruction	34,000		600,000				634,000
Grant/N. Industrial: US12 to Woodland		115,500	654,500				770,000
Grant/S. Industrial: US12 to S. end	15,000	51,750	378,250				445,000
E. McKay: N Ann Arbor to Harris		30,000	170,000				200,000
Hall: US-12 to E. McKay			6,525	36,975			43,500
Sauk Trail Court: Industrial to west end			44,160	250,240			294,400
Woodland Dr: Davco to Textile					68,010	385,390	453,400
N. Ann Arbor: Tower Dr to City limits					71,550	405,450	477,000
<b>TOTAL MAJOR STREETS PROJECTS:</b>	<b>\$625,550</b>	<b>\$895,800</b>	<b>\$2,363,435</b>	<b>\$287,215</b>	<b>\$139,560</b>	<b>\$790,840</b>	<b>\$5,102,400</b>

<b>METRO FUND PROJECTS</b>							
Sidewalk Improvement Program	25,000	25,000	25,000	25,000	25,000	25,000	150,000
Projects TBD	0	0	0	0	0	0	0
<b>TOTAL METRO FUND PROJECTS:</b>	<b>\$25,000</b>	<b>\$25,000</b>	<b>\$25,000</b>	<b>\$25,000</b>	<b>\$25,000</b>	<b>\$25,000</b>	<b>\$150,000</b>
<b>TOTAL MAJOR STREETS &amp; METRO FUND PROJECTS:</b>	<b>\$650,550</b>	<b>\$920,800</b>	<b>\$2,388,435</b>	<b>\$312,215</b>	<b>\$164,560</b>	<b>\$815,840</b>	<b>\$5,252,400</b>

SOURCE OF FUNDS	FY18	FY19	FY20	FY21	FY22	FY23	TOTALS
County Millage: Harper Street	165,000						165,000
Grant: Monroe Street Bridge			540,000				540,000
Grant: Austin Road and Old Creek							0
Grant: N. Industrial & S. Industrial			560,000				560,000
Grant: Maple Road			375,000				375,000
TIFA: Maple Road	8,000	90,000	135,000				233,000
TIFA:							0
LDFA#2: S. Industrial	12,000		144,000				156,000
LDFA#2:							0
<b>TOTAL SOURCES OF FUNDS:</b>	<b>\$185,000</b>	<b>\$90,000</b>	<b>\$1,754,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$2,029,000</b>

Forecasted Available Fund Balance for CIP Projects <sup>1</sup>	\$1,247,667	\$914,717	(\$721,422)	(\$943,399)	(\$787,237)	(\$428,932)	
Net Major Street Funds Need for Street Projects	\$440,550	\$805,800	\$609,435	\$287,215	\$139,560	\$790,840	\$3,073,400
Excess(Deficit) Year End Fund Balance	\$807,117	\$108,917	(\$1,330,857)	(\$1,230,614)	(\$926,797)	(\$1,219,772)	

Forecasted "Assigned Sauk Trail"	\$161,000	\$211,000	\$261,000	\$284,000	\$284,000	\$284,000	
Potential Excess(Deficit) Year End Fund Balance	\$968,117	\$319,917	(\$1,069,857)	(\$946,614)	(\$642,797)	(\$935,772)	

Forecasted Available Fund Balance for CIP Projects <sup>1</sup>	\$73,894	\$74,894	\$75,894	\$76,894	\$77,894	\$78,894	
NET Cost of METRO Projects	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000	\$150,000
Excess(Deficit) Year End Fund Balance	\$48,894	\$49,894	\$50,894	\$51,894	\$52,894	\$53,894	

<sup>1</sup> Beginning Year Fund Balance + Revenues - Expenditures before Capital Improvement project costs

Note: Annual Debt Service per \$1,000,000 borrowed would be approximately \$69,000 on a 20 year bond; \$83,000 on a 15 year bond



Capital Improvement Plan  
Local Streets  
For Fiscal Years Ending June 30, 2018-2023

USE OF FUNDS	FY18	FY19	FY20	FY21	FY22	FY23	TOTALS
Woodland Dr. W: N. Ann Arbor to Colony; + Bridge	23,530	130,770					154,300
Highland Dr: Mills to Bennett	15,000	210,000					225,000
Colony Dr: Waterworks to Colony Ct.	18,795	106,505					125,300
Colony Ct: Colony Dr. to W. end	148,170						148,170
Lexington Dr: Colony to Lexington Ct.	23,010	130,390					153,400
Lexington Ct: Lexington to N. end	8,700	49,300					58,000
Riveroaks Bl: US-12 to S. end		10,830	61,370				72,200
Nichols: Wallace to S. Harris		27,345	154,955				182,300
Hillcrest: Lawson to S. Harris		12,885	73,015				85,900
Lawson: S. Harris to Hillcrest		9,270	52,530				61,800
Oakbrook Ct: Old Creek to W. end			53,000				53,000
Glennbrook: Old Creek to E. end			46,400				46,400
W. McKay: N. Ann Arbor to Lewis			20,625	116,875			137,500
Washington: Austin Dr to N. end			43,100				43,100
Austin Drive: St. Andrew to E. end			156,400				156,400
Bassett Dr: Harper to N. Harris				190,000			190,000
Hollywood Drive					200,000		200,000
Marpool and Woodhill						400,000	400,000
<b>TOTAL LOCAL STREETS PROJECTS:</b>	<b>\$237,205</b>	<b>\$687,295</b>	<b>\$661,395</b>	<b>\$306,875</b>	<b>\$200,000</b>	<b>\$400,000</b>	<b>\$2,492,770</b>

SOURCE OF FUNDS	FY18	FY19	FY20	FY21	FY22	FY23	TOTALS
County Millage: Various Projects	0	166,320	167,980	169,660	171,360	0	675,320
TIFA:							0
<b>TOTAL SOURCES OF FUNDS:</b>	<b>\$0</b>	<b>\$166,320</b>	<b>\$167,980</b>	<b>\$169,660</b>	<b>\$171,360</b>	<b>\$0</b>	<b>\$675,320</b>

Forecasted Available Fund Balance for CIP Projects <sup>1</sup>	\$419,086	\$489,484	\$115,594	(\$208,669)	(\$157,135)	\$22,102	
Net Local Street Funds Needed for CIP Projects	\$237,205	\$520,975	\$493,415	\$137,215	\$28,640	\$400,000	\$1,817,450
Excess(Deficit) Year End Fund Balance	\$181,881	(\$31,491)	(\$377,821)	(\$345,884)	(\$185,775)	(\$377,898)	

<sup>1</sup> Beginning Year Fund Balance + Revenues - Expenditures *before* Capital Improvement project costs

Note: Annual Debt Service per \$1,000,000 borrowed would be approximately \$69,000 on a 20 year bond; \$83,000 on a 15 year bond



Capital Improvement Plan  
Drinking Water  
For Fiscal Years Ending June 30, 2018-2023

USE OF FUNDS	FY18	FY19	FY20	FY21	FY22	FY23	TOTALS
<b>WATER TREATMENT PLANT/DWRF REPLACEMENT</b>							
Computer/Equipment Upgrades	5,000			5,000			10,000
Well Rehabilitation/Improvements (various wells)	30,000	30,000	30,000	30,000	30,000	30,000	180,000
Henry Street Water Tower Rehab & Painting		125,000					125,000
Paint Industrial Park Water Tower			70,000				70,000
DWRF Replacement: (4) Chemical Transfer Pumps	8,000						8,000
DWRF Replacement: High Service Pump (#1 & #2)	25,000	25,000					50,000
DWRF Replacement: RO Membranes (RO-1, RO-2)	90,000	90,000			90,000	90,000	360,000
DWRF Replacement: Booster Replacement (#1 & #2)	20,000	20,000					40,000
DWRF Replacement: Scada Improvements/Upgrade		40,000					40,000
DWRF Replacement: Low Pressure Air Blower		20,000					20,000
DWRF Replacement: High Pressure Air Compressor		20,000				10,000	30,000
DWRF Replacement: Concentrate Pump Station		100,000					100,000
DWRF Replacement: Green Sand Filter Media		135,000					135,000
DWRF Replacement: Settling Ponds Rehabilitation		55,000					55,000
DWRF Replacement: Electric Room Upgrades			100,000				100,000
DWRF Replacement: Replace Reverse Osmosis Skid				730,000			730,000
DWRF Replacement: Contingency/TBD	57,000		100,000		110,000	100,000	367,000
<b>WATER DISTRIBUTION</b>							
Reliability Study	6,200						6,200
N. Ann Arbor Water main	70,000	200,000					270,000
Whittier Ct (Nichols to N. End)	8,745	49,555					58,300
Vactor Lease (shared with Sewer & DPW)	7,500	7,500	7,500	7,500	7,500		37,500
Nichols Drive (Wallace to S. Harris)	21,150	119,850					141,000
Air Release Valve (Main #2)		70,000					70,000
Hall (US-12 to E McKay)		26,200					26,200
Mills Road: Hydrants (Hollywood to Bennett)		10,000					10,000
Watson (NE of Nichols to Chandler)		81,100					81,100
Wheeler Ct (Lewis to W. End)		48,800					48,800
Backhoe (shared with Sewer & DPW)		60,000					60,000
Heritage (Breconshire to Lexington)			98,200				98,200
Huntington Loop (Huntington to US-12)			178,750				178,750
Transmain #2 (WTP to Bennett)			202,400				202,400
Raw Water Line (WTP to Ann Arbor)			115,500				115,500
Sauk Trail Court (S. Industrial to W end)			70,400				70,400
Lewis Street (US-12 to W. Henry)			34,750				34,750
<b>TOTAL DRINKING WATER PROJECTS:</b>	<b>\$348,595</b>	<b>\$1,333,005</b>	<b>\$1,007,500</b>	<b>\$772,500</b>	<b>\$237,500</b>	<b>\$230,000</b>	<b>\$3,929,100</b>

SOURCE OF FUNDS	FY18	FY19	FY20	FY21	FY22	FY23	TOTALS
Grant/MDOT: US-12 Project (Monroe to Maple)							0
TIFA:							0
LDFA2:							0
<b>TOTAL SOURCES OF FUNDS:</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>

Forecasted Working Capital to support CIP Projects	\$1,680,377	\$1,908,030	\$1,919,246	\$982,588	\$1,441,488	\$1,892,600	
Drinking Water Funds Needed for CIP Projects	\$348,595	\$1,333,005	\$1,007,500	\$772,500	\$237,500	\$230,000	\$3,929,100

NOTE: A \$1,000,000 bond in FY17 will cost \$68,500 - \$82,500 annually



SANITARY SEWER PROJECTS	FY18	FY19	FY20	FY21	FY22	FY23	TOTALS
<b>WASTEWATER TREATMENT PLANT</b>							
Computer/Equipment Upgrades	10,000		8,000			8,000	26,000
WWTP Rehabilitation Phase 2	30,000						30,000
PCF Influent Pump VFD (Speed Control)	22,000		20,000		20,000		62,000
RBC Drive Replacement	55,000	30,000	30,000	30,000	30,000	30,000	205,000
Two (2) Influent Low Pressure Air Compressors	50,000						50,000
TIFA Lift Pump Replacement	20,000						20,000
Sauk Trail Lift Station	20,000	50,000					70,000
Odor Study	35,000						35,000
Odor Control Project	350,000	3,150,000					3,500,000
Woodland Drive Lift Station Motor Control Replace		25,000					25,000
Southside Lift Station Pump Replacement		20,000					20,000
Four (4) Centrifugal Dry Pit Raw Influent Pumps		85,000					85,000
Maplewood Lift Station		120,000					120,000
Huntington Woods Lift Station		70,000					70,000
Portable Pump Generator		60,000					60,000
Arboretum Lift Station			50,000				50,000
Breconshire Lift Station			40,000				40,000
<b>SEWER COLLECTION</b>							
Michigan Ave/MDOT Sewer Main	45,000						45,000
Highland Drive	35,000						35,000
S.A.W. Project (years 2 & 3 of 3 year project)	377,000	85,000					462,000
Sanitary Spot Repairs	20,000	50,000	50,000	50,000	50,000	50,000	270,000
E. Michigan Ave	34,600	103,125					137,725
Hall (US-12 to E McKay)		23,100					23,100
Urban Growth Sewer Project		40,000					40,000
Sauk Trail Ct (S. Industrial to E. End)			61,600				61,600
Vactor Lease (shared with Water & DPW)	45,000	45,000	45,000	45,000	45,000		225,000
Backhoe (shared with Water & DPW)		30,000					30,000
<b>TOTAL SANITARY SEWER PROJECTS:</b>	<b>\$1,148,600</b>	<b>\$3,986,225</b>	<b>\$304,600</b>	<b>\$125,000</b>	<b>\$145,000</b>	<b>\$88,000</b>	<b>\$5,797,425</b>

SOURCES OF FUNDS	FY18	FY19	FY20	FY21	FY22	FY23	TOTALS
Grant: S-2							0
S.A.W. Grant	339,300	76,500					415,800
State Revolving Fund Loan (SRF)	380,000	3,150,000					3,530,000
TIFA: Woodland Dr Lift Station Motor Controls	10,000	25,000					35,000
TIFA: Southside Lift Pump	10,000	20,000					30,000
LDFA2:							0
<b>TOTAL SOURCES OF FUNDS:</b>	<b>\$739,300</b>	<b>\$3,271,500</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$4,010,800</b>

Forecasted Working Capital to support CIP Projects	\$1,321,024	\$1,594,178	\$1,506,549	\$1,395,355	\$1,876,760	\$2,308,549	
Sanitary Sewer Funds Needed for CIP Projects	\$409,300	\$714,725	\$304,600	\$125,000	\$145,000	\$88,000	\$1,786,625

NOTE: Some TIFA support. A \$1,000,000 bond will cost \$68,500 - \$82,500 annually.



# Capital Improvement Plan Glossary



CARES – Cultural Arts, Recreation, Enrichment, and Senior Citizens:

CARES millage provides funding for recreational programs and facilities that enhance the life of the residents within the Saline Area School Districts.

CIP – Capital Improvement Plan (Program):

A short-range plan, usually four to ten years, which identifies capital projects and equipment purchases, provides a planning schedule and identifies options for financing the plan projects.

CMAQ Grant – Congestion Mitigation and Air Quality Improvement Program:

A federally-funded program that provides support for surface transportation projects, environmental projects, and other related efforts that contribute to air quality improvements and provide congestion relief.

DPW – Department of Public Works:

The City's Department of Public Works is responsible for the maintenance and repair of city streets, sidewalks, vehicles, parks, cemetery, and utility systems (water distribution and sewer collection). The DPW also coordinates with Waste Management for the city trash removal services, Detroit Edison for street lighting issues and event organizers to provide support for community events.

DWRF – Drinking Water Revolving Fund:

Michigan's Drinking Water Revolving Fund program provides low cost financing to qualified municipalities for drinking water projects.

LDFA – Local Development Finance Authority:

LDFA was created 7/6/87 per Public Act 281 of 1986 to promote economic development of manufacturing firms and promote high technology development. The authority captures a portion of the tax increment revenue, which is the amount of additional taxes collected due to growth in taxable valuation of property in the LDFA district in relation to the initial (base year) taxable valuation. The authority pays a share of the bond costs for roads and utilities serving the LDFA district.

MDOT – Michigan Department of Transportation:

The Michigan Department of Transportation has jurisdiction over Michigan's 120,000 mile highway, road and street networks, administers other state and federal transportation programs, and is responsible for developing and implementing a comprehensive transportation plan for the entire state that includes all modes of transportation.

RBC – Rotating Biological Contractor:

A biological treatment process used in the treatment of wastewater. The RBC process involves allowing the wastewater to come in contact with a biological medium in order to remove pollutants in the wastewater before being discharged to the environment.

RO – Reverse Osmosis:

A water purification technology that uses a semipermeable membrane to remove certain minerals and chemicals from our drinking water supply.

S2 Grant – Sanitary Sewer grant:

State Grant program created specifically with the intent of accelerating the progress of water pollution control efforts and provide financial assistance for the planning and design of sewage treatment projects, stormwater treatment projects, and for user charge system development (a system used to determine rates or charges).

S.A.W. Program – Stormwater, Asset Management, and Wastewater:

State program created to establish grants and low-interest loans for stormwater plan development, sewage collection and treatment plan development, and asset management plan development that outline cost-effective improvements, operation and maintenance measures. State funded low-interest loans can be used to cover the construction costs for projects identified in the asset management plans.

SCADA – Supervisory Control and Data Acquisition:

SCADA is a type of Industrial Control System that monitors and controls large-scale industrial processes and gathers data in real-time in order to control equipment and conditions. SCADA will sound warnings when conditions become hazardous.

SRF – State Revolving Fund:

Michigan’s State Revolving Fund was created for the purpose of providing low-interest loans to assist qualified local municipalities with the construction of needed wastewater facilities and improvement projects.

TIFA – Tax Increment Finance Authority:

TIFA was created 4/19/82 per Public Act 450 of 1980 to attract industrial development as well as to encourage commercial redevelopment in the downtown and other existing commercially developed areas. The authority captures a portion of the tax increment revenue, which is the amount of additional taxes collected due to growth in taxable valuation of property in the TIFA district in relation to the initial (base year) taxable valuation. The authority pays for street construction in the TIFA district, a share of bond costs for roads and utilities, park improvements, and utility improvements in development areas.

VAV – Variable Air Volume:

VAV describes a method of temperature control characterized by a supply air stream of constant temperature and a modulation of the amount of air that serves a particular space. It is both an effective and economical means of temperature control.

VFD – Variable Frequency Drive:

Equipment used to control the motor speed of machinery. Where process conditions require adjustment of flow from a pump or fan, varying the speed saves energy compared to other techniques for flow control.

WTP – Water Treatment Plant:

The City’s Water Treatment Plant has a daily maximum output capacity of 3.5 million gallons and produces on average 1.2 million gallons per day. The plant removes harmful contaminants and hardness from the drinking water. Water testing is performed daily and monitoring for contaminants is done on a regular basis to ensure the quality of the water.

WWTP – Wastewater Treatment Plant:

The City’s Wastewater Treatment Plant (also called Pollution Control Facility or PCF) treats an average of 1.2 million gallons of wastewater per day. Treatment is accomplished through a combination of biological, chemical and physical processes.

