



FY2023-FY2027 CAPITAL IMPROVEMENT PLAN AND 2023 CAPITAL BUDGET

**MONICA DANIELS, FINANCE ASSET MANAGER
FINANCE COMMITTEE MEETING JUNE 1, 2022**



Summary of FY2023-2027 Five-Year CIP Draft and FY2023 Capital Budget

The FY 2023 – FY 2027 capital improvement plan provides for \$247 million of water system improvements and \$271 million of sewer system improvements over the five-year planning cycle. **Five Year Total \$518M** and **FY23 Capital Budget of \$ 126,268,000**

Category Summary	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	Total 5-Year 2023-2027
Water Main	\$ 49,880	\$ 33,964	\$ 35,600	\$ 32,314	\$ 31,315	\$ 30,750	\$ 163,943
Sewer Line Replacement	\$ 46,918	\$ 40,525	\$ 35,275	\$ 35,500	\$ 35,500	\$ 35,500	\$ 182,300
CIPMO	\$ 5,590	\$ 8,000	\$ -	\$ -	\$ -	\$ -	\$ 8,000
Green Infrastructure	\$ 15,845	\$ 12,801	\$ 12,237	\$ 10,425	\$ 13,899	\$ 11,885	\$ 61,247
Central Services	\$ 12,814	\$ 10,264	\$ 3,000	\$ 3,500	\$ 4,400	\$ 4,500	\$ 25,664
Meters/ Fire Hydrants	\$ 3,526	\$ 2,710	\$ 17,805	\$ 4,100	\$ 1,100	\$ 1,100	\$ 26,815
Major Repair/Restoration	\$ 18,333	\$ 18,004	\$ 18,200	\$ 11,200	\$ 1,291	\$ 1,000	\$ 49,695
	\$ 152,906	\$ 126,268	\$ 122,117	\$ 97,039	\$ 87,505	\$ 84,735	\$ 517,664
Water	\$ 79,628	\$ 60,635	\$ 69,430	\$ 47,884	\$ 34,906	\$ 34,100	\$ 246,955
Sewer	\$ 73,278	\$ 65,633	\$ 52,687	\$ 49,155	\$ 52,599	\$ 50,635	\$ 270,709
	\$ 152,906	\$ 126,268	\$ 122,117	\$ 97,039	\$ 87,505	\$ 84,735	\$ 517,664

Water Project List

Total estimated cost (1000's)

Water Project List 2023-2027 CIP

Description	Status	Source of Funds	2021-22	2022-23	2023-24	2024-25	2025-26	2026-27	2023-2027 CIP Total	Percent of CIP
WS-707 Water Main Replacement	C	DWSRF/I&E	-	-	-	-	-	-	-	0.0%
WS-710 Water Main Replacement-Incl Wayne Co Roads	A	DWSRF/I&E	200	-	-	-	-	-	-	0.0%
WS-711 Water Main Replacement- Incl Jefferson Streetscape	A	DWSRF/I&E	4,200	1,814	-	-	-	-	1,814	0.7%
WS-712 Water Main Replacement-Cornerstone Village	A	I&E/Bond	7,630	1,000	-	-	-	-	1,000	0.4%
WS-713 Water Main Replacement-Jefferson/Chalmers	A	DWSRF/I&E	7,500	7,250	2,000	-	-	-	9,250	3.7%
WS-715 Pilot Areas-Riverdale, Minock, Miller & Rosedale	A	DWSRF/I&E	6,900	5,000	100	-	-	-	5,100	2.1%
WS-718 WM New Center Commons & Virginia Park	A	DWSRF/I&E	2,300	-	-	-	-	-	-	0.0%
DWS-907 Watermain & Sewer Rehab- North Rosedale Park	A	I&E/Bond	5,000	-	-	-	-	-	-	0.0%
WS-720 Watermain Replacement-Various Streets	P	Bond	3,100	6,000	3,000	2,700	-	-	11,700	4.7%
WS-721 Lead Service Line Replacement	P	DWSRF/I&E	6,000	5,000	4,000	-	-	-	9,000	3.6%
WS-723 Lead Service Line Replacement for Settlements	P	Grant/Legal Settlements	800	600	-	-	-	-	600	0.2%
WS-725 Watermain Replacement-Medical Ctr, Cultural Ctr & Midtown	N	DWRF/Bond	-	4,000	5,000	5,000	-	-	14,000	5.7%
WS-732 Water Main Replacement, Various Locations - Detroit West of Livernois Ave.	N	DWSRF/I&E	-	-	2,750	5,000	4,000	-	11,750	4.8%
WS-733 Water Main Replacement, Various Locations - Detroit East of Livernois Avenue	N	DWSRF/I&E	-	-	2,250	5,000	4,000	-	11,250	4.6%
WS-734 Emergency Watermain Break Repair	A	O&M	-	450	-	-	-	-	450	0.2%
WS-702 Repair & Replacement of Water Mains	C	O&M	-	-	-	-	-	-	-	0.0%
WS-708 Repair of Water Mains	C	O&M	-	-	-	-	-	-	-	0.0%
WS-717 Repair & Replacement of Water Mains	A	I&E	3,500	2,500	3,000	3,000	-	-	8,500	3.4%
WS-719 Repair/Improvement of Water Mains incl restoratio	A	O&M	5,000	9,179	6,000	4,000	291	-	19,470	7.9%
DWS-902 Repair of Pavement (After break repair)	C	O&M	1,920	-	-	-	-	-	-	0.0%
DWS-904 Repair of Lawns (After break repair)	A	O&M	1,500	200	425	-	-	-	625	0.3%
DWS-919 (replace DWS-902)	A	O&M	5,100	2,500	5,100	2,720	-	-	10,320	4.2%
Transmission Main Allowance	N	O&M	-	-	-	-	-	-	-	0.0%
PC-808 Far West Warren (non GSI)	A	Bond	4,000	1,300	4,000	864.00	565.00	-	6,729	2.7%
CS-1909A-Condition Assessments-High Priority Neighborhoods	A	I&E	250	-	-	-	-	-	-	0.0%
CS-1921 Watermain/Sewer Design	A	I&E	1,000	1,000	1,000	-	-	-	2,000	0.8%
CS-1923 Third Party Inspection (Water & Sewer)	P	I&E	750	750	1,500	-	-	-	2,250	0.9%
CS-1947 Condition Assessment Sherwood Forest,	P	I&E	250	250	-	-	-	-	250	0.1%
CS-1812 Professional Engineering and Construction Services for CIPMO	A	I&E	2,795	4,000	-	-	-	-	4,000	1.6%
Construction Program Management Allowances	N	I&E	-	-	1,000	750	750	750	3,250	1.3%
Watermain Program Allowances	N	I&E	-	-	9,000	13,000	22,000	30,000	74,000	30.0%
PC-803B Meter Installation	A	I&E	700	700	700	-	-	-	1,400	0.6%
Water Meter Replacement Program	A	I&E	451	850	850	850	850	850	4,250	1.7%
Fire Hydrant Replacement Program	A	I&E	250	250	250	250	250	250	1,250	0.5%
CS-1925 Itron Migration -MIU Replacement	A	I&E	1,800	350	14,890	3,000	-	-	18,240	7.4%
CS-1926 Itron Migration Project Management	A	I&E	325	560	1,115	-	-	-	1,675	0.7%
Vehicle, Heavy Equipment, and Equipment Purchases	A	I&E	682	981	500	750	1,200	750	4,181	1.7%
Information Technology	A	I&E	1,965	2,688	500	500	500	500	4,688	1.9%
Facility Improvement Allowance	A	I&E	3,761	1,463	500	500	500	1,000	3,963	1.6%
TOTALS			79,628	60,635	69,430	47,884	34,906	34,100	246,955	100.0%

Sewer Project List

Total estimated cost (1000's)

Sewer Project List 2023-2027 CIP

Description	Status	Source of Funds	2021-22	2022-23	2023-24	2024-25	2025-26	2026-27	2023-2027 CIP Total	Percent of CIP
DWS-903 Inspection and Rehabilitation of Sewers City Wide	C	I&E/ Bond	7,000	-	-	-	-	-	-	0.0%
DWS-907 North Rosedale Park	A	Bond	3,000	-	-	-	-	-	-	0.0%
DWS-908 Cornerstone Village Sewer Rehab	A	Bond	2,693	-	-	-	-	-	-	0.0%
DWS-916 Sewer Improvements in High Priority Neighborhoods	A	SRF/I&E	2,600	-	-	-	-	-	-	0.0%
DWS-917 Sewer Improvement in Riverdale	P	SRF/I&E	5,000	3,900	3,800	-	-	-	7,700	2.8%
DWS-918 Sewer Improvements in Rosedale	P	SRF/I&E	4,450	3,000	-	-	-	-	3,000	1.1%
DWS-920 Inspection and Rehabilitation of Sewers City Wide (Replace DWS-903)	A	I&E	3,000	8,000	4,000	-	-	-	12,000	4.4%
DWS-921 Electrical Monitoring Upgrades at Belle Isle, Woodmere, Fischer Sewage Pump Stations	P	I&E	200	200	200	-	-	-	400	0.1%
DWS-926 Sewer Condition Assessments - West Village, Southwest Detroit	P	I&E	-	2,500	2,500	-	-	-	5,000	1.8%
DWS-931 Roofing Upgrades at Sewage Pump Stations	P	I&E	325	325	275	-	-	-	600	0.2%
DWS-932 Large Sewer Improvements: Riverdale & Rosedale	P	SRF/I&E	4,400	4,000	-	-	-	-	4,000	1.5%
DWS-937 Sewer Condition assessments throughout City	P	SRF/I&E	8,000	7,600	8,000	-	-	-	15,600	5.8%
DWS-938 Sewer Condition assessments throughout City	A	SRF/I&E	2,250	4,000	-	-	-	-	4,000	1.5%
DWS-939 Sewer Condition Assessments High Priority Areas	N	SRF/I&E	2,250	2,250	2,250	-	-	-	4,500	1.7%
Sewer Program Allowances	N	I&E	-	2,000	12,000	35,000	35,000	35,000	119,000	44.0%
DWS-947 Emergency Contract for sewers-June 2021 Rain Event	C	I&E/FEMA	-	-	-	-	-	-	-	0.0%
DWS-948 Emergency Contract for sewers-June 2021 Rain Event	C	I&E/FEMA	-	-	-	-	-	-	-	0.0%
DWS-949 Emergency Contract for water in basement investigations-June 2021 Rain Event	C	I&E/FEMA	-	-	-	-	-	-	-	0.0%
DWS-950 Emergency Services for June 2021 Rain Event	C	I&E/FEMA	-	-	-	-	-	-	-	0.0%
CS-1962 June Event Claims Review	A	I&E	-	-	-	-	-	-	-	0.0%
CS-1812 Professional Engineering and Construction Services for Capital Improvement Program Management Organization	A	I&E	2,795	4,000	-	-	-	-	4,000	1.5%
DWS-902 Repair of Pavement (After break repair)	C	O&M	75	-	-	-	-	-	-	0.0%
DWS-904 Repair of Lawns (break repair)	A	O&M	338	75	75	-	-	-	150	0.1%
DWS-919 (replace DWS-902)	P	O&M	900	900	900	480	-	-	2,280	0.8%
DWS-965 Sinkhole Repairs	P	O&M	-	2,200	1,700	-	-	-	3,900	1.4%
Repair and Maintenance Allowance	N	O&M	-	-	1,000	1,000	1,000	1,000	4,000	1.5%
CS-1921 Watermain/Sewer Design	A	I&E	1,000	1,000	1,000	-	-	-	2,000	0.7%
CS-1923 Third Party Inspection (Water & Sewer)	P	I&E	750	750	750	-	-	-	1,500	0.6%
CS-1976 Belle Isle CSO Condition Assessment (GLWA)	A	I&E	-	-	-	-	-	-	-	0.0%
CSO Improvement Program -Cost Sharing with GLWA	N	I&E	-	1,000	500	500	500	500	3,000	1.1%
CS-1522 Green Infrastructure Program Management	C	I&E	-	-	-	-	-	-	-	0.0%
PC-808 Far West Stormwater Improvements	A	I&E/Grant	10,040	6,425	4,903	6,539	8,399	3,635	29,901	11.0%
PC-808 Far West Warren Sewer Rehabilitation (Non GSI)	A	I&E	1,500	2,648	996	996	-	-	4,640	1.7%
PC-801A Oakman Blvd	C	I&E	60	70	70	-	-	-	140	0.1%
PC-800 O'Shea Park	C	I&E	10	14	-	-	-	-	14	0.0%
PC-806 Charles H. Wright Academy	A	I&E	1,485	110	38	-	-	-	148	0.1%
St. Paul (CPP)	P			154					154	0.1%
Capital Partnership Program	H	I&E	100	-	-	-	-	-	-	0.0%
Chandler Park Drive (CIPMP)	N	I&E	150	-	-	-	-	-	-	0.0%
DWS-935 Green Stormwater Infrastructure Maintenance	P	I&E	-	180	200	220	-	-	600	0.2%
Oakman Boulevard Stormwater Optimization Improvements	N	I&E/Grant	-	-	900	-	-	-	900	0.3%
Artesian Project Enhancements	N	I&E/Grant	-	400	-	-	-	-	400	0.1%
Brightmoor GSI Construction (EPA)	N	I&E/Grant	-	-	1,050	50	-	-	1,100	0.4%
Bentler-Westbrook Construction (NFWF)	N	I&E/Grant	-	-	525	65	-	-	590	0.2%
Minock Park Greening Construction (USFS)	N	I&E/Grant	-	300	290	-	-	-	590	0.2%
Minock Park GSI (EGLE)	N	I&E/Grant	-	-	515	55	-	-	570	0.2%
CS-1884 Green Infrastructure Program Management	A	I&E	2,500	2,500	2,750	2,500	1,500	250	9,500	3.5%
Green Infrastructure Program	N	I&E	-	-	-	-	4,000	8,000	12,000	4.4%
Vehicle, Heavy Equipment, and Equipment Purchases	N	I&E	682	981	500	750	1,200	750	4,181	1.5%
Information Technology	N	I&E	1,965	2,688	500	500	500	500	4,688	1.7%
Facility Improvement Allowance	N	I&E	3,761	1,463	500	500	500	1,000	3,963	1.5%
TOTALS			73,280	65,633	52,687	49,155	52,599	50,635	270,709	100.0%

Vehicle, Heavy Equipment, and Equipment

Descriptions	Type	QTY	Estimated Unit Cost	2021-22	2022-23
Field Services Operations			94,000		
F150	Truck	1	52,000	90,000	52,000
F-350 Super Duty	Utility Truck	1	42,000	250,000	42,000
Fleet Operations			1,868,000		
Pool Vehicles	Vehicle	4	35,000	105,000	140,000
Transit Connect	Vehicle	5	30,000	15,000	150,000
Transit Cargo AWD	Vehicle	6	51,000		306,000
Mini Hydro excavator	Heavy Equipment	1	100,000		100,000
F-550 Super Duty	Utility Truck	6	138,000	-	828,000
F-350 Super Duty	Utility Truck	2	42,000	250,000	84,000
F150	Truck	5	52,000	260,000	260,000
Total				1,550,000	1,962,000

Information Technology

Descriptions	Type		2022-23
Security			
CS-1933 Video Security System Upgrades	Software	Addition	150,000
ID Card Security System	Hardware/Equipment	Addition	50,000
Customer Service			
CS-1719 City Insights Portal Updates	Software	Software Maintenance	250,000
CS-1917 EnQuesta Upgrade	Software	Software Maintenance	250,000
Selectron IVR	Software	Other IT Implementation	125,000
Facilities			
Meeting Room Upgrades/ Hardware/Consu	Hardware/Equipment	Hardware/Equipment	100,000
Additional IT space at CSF	Hardware/Equipment	New Hardware/Equipment Implementation	200,000
Operations			
CS-1956 Records Management	Software	New Software Implementation	300,000
Itron Replacement (staffing support)	Other IT Implementation	CIP IT Consulting Services	400,000
Claims Reportion & Case Management	Software	New Software Implementation	300,000
Permitting System	Software	New Software Implementation	250,000
Matters Management System	Software	New Software Implementation	200,000
CS-1952 Oracle Supply chain Management	Other IT Implementation	New Other IT Implementation	
Information Technology			
Desktops	Hardware/Equipment	Hardware	40,000
Laptop Charging Stations	Hardware/Equipment	Hardware	6,000
Laptops	Hardware/Equipment	Hardware	225,000
Rugged Tablets/Laptops	Hardware/Equipment	Hardware	30,000
Tablets	Hardware/Equipment	Hardware	50,000
Vehicle Mounts	Hardware/Equipment	Hardware/Equipment	125,000
ITIL Based Service Desk w/City of Detroit	Software	New Software Implementation	50,000
CS-1935 Phone System Migration to Avaya	Hardware/Equipment	New Hardware/Equipment Implementation	5,000
Infrastructure Hardware, data center, IDF	Hardware/Equipment	Hardware	60,000
Printers	Hardware/Equipment	Hardware	60,000
DWS-940 Low Voltage Wiring	Hardware/Equipment	New Hardware/Equipment Implementation	300,000
DWS-954 Mhz Radios	Hardware/Equipment	Hardware	250,000
CS-1957 Cityworks/AssetWorks/Records Im	Other IT Implementation	New Other IT Implementation	500,000
CS-1924 GPS for underground assets	Other IT Implementation	New Other IT Implementation	500,000
CS-1941 GIS Update As-Built Drawing Upgrades			600,000
Total			\$ 5,376,000

FY 2023 Facility Improvements

Descriptions	Type	2022-23
Roofing		
CSF	Roof replacement	500,000
Heating Units		
CSF	HVAC Units	200,000
Garage Door Replacement		
DWS-936 Overhead Doors CSF/ West Yard	Fabric Door Replacement	26,000
Interior Improvements		
IT Team new location	Build out move from GLWA space	200,000
Parking Lot Improvements		
Parking Lot Repavement	CSF-Employee Lot	1,500,000
Other-General		
Detroit Building Authority (DBA)	Consolidation, Renovations & Improvements	500,000
Total		\$ 2,926,000



Summary of Changes

- Added Sewer projects related to Rain Event damage responses, Federal funding initiatives and GLWA CSO cost sharing improvements
- Updated allowance programs for later years on the 5-year projection based on spend patterns. Project details are under development and will also rely on ongoing condition assessments. These allowances may not be fully funded.
- Minor changes to the FY2023 allocations based on FY 2022 project progress. Finance estimates approximately \$50M budgeted in FY2022 will not be spent based on current activity, which accounts for a slight increase for FY2023.



FY2023-2027 Five-Year CIP Development

Next Steps

- Submit copy to GLWA by Feb 1st per Lease Agreement
- Complete Central Services project details FY2022
- Review construction progress and procurement projections through June 2022
- Update maps with current projects by District for City Council and Community presentations
- Develop CIP book with project details and street index
- Review federal funding options for additional development of projects
- Present final draft to BOWC to finalize by June 30, 2022

Thank You



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