

## Water Utility

### 2024 Capital Budget Request Summary

#### Request by Proposal

Project/Program Name	2024	2025	2026	2027	2028	2029
Booster Pump Station #213 Lakeview Reconstruction	500,000	-	-	-	-	2,100,000
Booster Pump Station 128 Upgrade	-	-	-	1,100,000	-	-
Chlorinators & Florinators Program	40,000	40,000	50,000	50,000	60,000	60,000
High Point/Raymond/MidTown	10,000	-	-	-	1,145,000	-
John Nolen Drive	30,000	30,000	-	-	-	-
New Water Facility Planning	800,000	-	-	-	-	1,500,000
Park Street, South (Olin to RR)	-	-	509,000	-	-	-
Unit Well 12 Conversion to a Two Zone Well	-	1,000,000	4,000,000	-	-	-
Unit Well 15 - PFAS Treatment Facility	5,135,000	-	-	-	-	-
Unit Well Rehab Program	371,000	382,000	393,000	405,000	417,000	430,000
Water Hydrants Program	412,000	424,000	437,000	450,000	464,000	476,000
Water Mains - New	89,000	1,070,000	1,696,000	3,294,000	3,039,000	3,192,000
Water Mains Replacement	5,709,000	6,220,000	11,991,000	12,500,000	17,605,000	18,750,000
Water Meter and Fixed Network Program	539,000	552,000	566,000	580,000	595,000	610,000
Water Utility Facility Improvements	2,248,000	2,316,000	2,385,000	2,457,000	2,530,000	2,606,000
Water Utility Vehicles & Equipment	1,015,000	915,000	875,000	820,000	815,000	795,000
Water Valve Cut-In Program	64,000	66,000	68,000	70,000	72,000	74,000
Well 27 Iron & Manganese Mitigation	-	-	-	3,500,000	3,500,000	-
Wilson St (MLK to King)	501,000	-	-	-	-	-
<b>Total</b>	<b>\$ 17,463,000</b>	<b>\$ 13,015,000</b>	<b>\$ 22,970,000</b>	<b>\$ 25,226,000</b>	<b>\$ 30,242,000</b>	<b>\$ 30,593,000</b>

## Request by Funding Source - GO Borrowing vs. Other

### 2024 Request

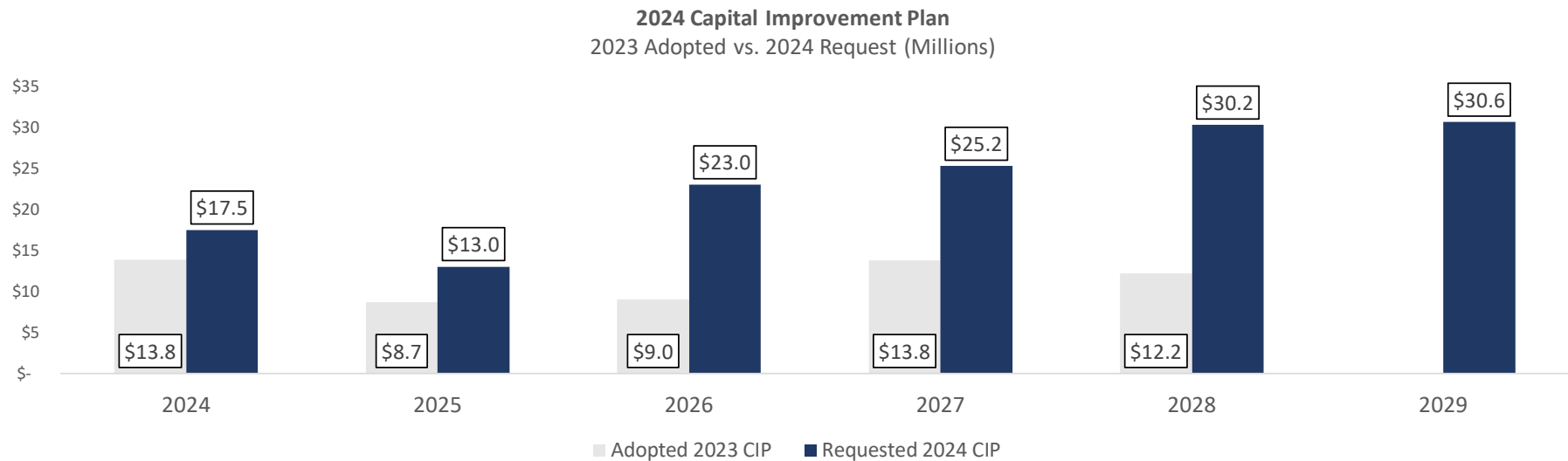
Funding Source	2024	2025	2026	2027	2028	2029	Total ('24 to '28)
Other	17,463,000	13,015,000	22,970,000	25,226,000	30,242,000	30,593,000	108,916,000
<b>Total</b>	<b>\$ 17,463,000</b>	<b>\$ 13,015,000</b>	<b>\$ 22,970,000</b>	<b>\$ 25,226,000</b>	<b>\$ 30,242,000</b>	<b>\$ 30,593,000</b>	<b>\$ 108,916,000</b>

### Prior Year CIP

Funding Source	2024	2025	2026	2027	2028	Total ('24 to '28)
Other	13,828,000	8,714,000	8,982,000	13,755,000	12,219,500	57,498,500
<b>Total</b>	<b>\$ 13,828,000</b>	<b>\$ 8,714,000</b>	<b>\$ 8,982,000</b>	<b>\$ 13,755,000</b>	<b>\$ 12,219,500</b>	<b>\$ 57,498,500</b>

### Request vs. Prior Year CIP - % Change

Funding Source	2024	2025	2026	2027	2028	Total ('24 to '28)
Other	26.3%	49.4%	155.7%	83.4%	147.5%	89.4%
<b>Total</b>	<b>26.3%</b>	<b>49.4%</b>	<b>155.7%</b>	<b>83.4%</b>	<b>147.5%</b>	<b>89.4%</b>



## Major Changes

### Booster Pump Station #213 Lakeview Reconstruction

- Project budget increased by \$374,000 from State Sources and shifted in 2024 and 2029 and advanced \$500,000 to machinery needs in 2024 and the remainder to 2029 for remaining improvements.

### Booster Pump Station 128 Upgrade

- Project advanced from 2028 to 2027 due to Water Utility's updated Master Plan.
- Project costs increased by \$1.0 million in State Sources to reflect project completion in one year.

### Chlorinators & Florinators Program

- Program budget decreased by \$115,000 in Reserves Applied from 2024-2028 due to reduction in number of units agency plans on replacing.

### High Point-Raymond-Mid Towne

- Project budget increased by \$10,000 and \$842,000 in Expense Depreciation in 2024 and 2028.

### John Nolen Drive

- New project. Request includes \$30,000 in Miscellaneous Revenue in 2024 and 2025.

### New Water Facility Planning

- New project. Request includes \$800,000 in State Sources in 2024 and \$1.5 million in State Sources in 2029.

### Park Street, South (Olin to RR)

- Project was delayed from 2025 to 2026 due to timing of construction project.
- Program budget increased by \$72,000 in Miscellaneous Revenue in 2026 from 2025 due to inflation and materials cost. This reflects a 14.1% increase.

### Unit Well 12 Conversion to a Two Zone Well

- Project advanced from 2026 to 2025 due to Water Utility's updated 10 year master plan.
- Project budget increased by \$942,000 in State Sources in 2025 and 2026 due to increased construction costs. This reflects a 23.2% increase.

### Unit Well 15 PFAS Treatment Facility

- No major changes compared to Adopted 2023 CIP.

### Unit Well Rehab Program

- No major changes compared to Adopted 2023 CIP.

### Water Hydrants Program

- No major changes compared to Adopted 2023 CIP.

#### Water Mains – New

- Program budget decreased by \$679,000 in Reserves Applied in 2024.
- Program budget increased by \$962,000 to \$2.8 million in Reserves Applied from 2025 to 2028 due to expected increases in projects in the out years.

#### Water Mains Replacement

- New program. Program combines prior Adopted 2023 CIP programs - Water Mains - Pavement Management, Water Mains - Pipe Lining, and Water Mains - Reconstruct Streets.
- Request includes \$4.4m in Miscellaneous Revenue and \$1.3 million in Reserves Applied in 2024.

#### Water Meter and Fixed Network Program

- No major changes compared to Adopted 2023 CIP.

#### Water Utility Facility Improvements

- Program budget increased by \$4.0 million in Reserves Applied in 2024-2028 due to inflation, increased materials cost, and adding a remodel to the Olin facility. This reflects a 54.3% increase.

#### Water Utility Vehicles & Equipment

- Program budget increased by \$853,000 (average annual increase of \$170,600) in Reserves Applied from 2024-2028 due to increased vehicle costs. This reflects a 24.1% average annual increase.

#### Water Valve Cut-In Program

- Program budget increased by \$22,000-\$24,000 annually in Reserves Applied from 2024-2028 due to increased contract costs. This reflects a 49.8% increase.

#### Unit Well 27 Iron & Manganese Mitigation

- Project advanced from post 2029 to 2027 due to Water Utility's updated 10-year CIP.
- Request includes \$3.5 million annually in State Sources in 2027 and 2028.

#### Wilson Street (MLK to King)

- Project budget increased by \$344,000 in Depreciation Expense in 2024 due to combining the Outer Capital Loop Doty Street Project with the Wilson Street Project, increased materials costs, and inflation. This reflects a 219% increase.

TO: Dave Schmiedicke, Finance Director, City of Madison

FROM: Krishna Kumar, General Manager, Madison Water Utility

DATE: April 21, 2023

SUBJECT: Madison Water Utility 2024 Capital Budget Request

### Equity Considerations in the Budget

Madison Water Utility's 2024 Capital Budget uses data-driven approaches to identify and prioritize equitable investments and strategically address any disparities in services throughout the community. Resources are also allocated for communication and outreach efforts, which enable all members of the community to participate and be heard throughout every phase of a given project.

### Goals of Agency's Capital Budget

The primary goal of our 2024 capital budget is to replace failing infrastructure so as to continue to meet levels of service for water quality and reliability established by the Water Utility Board, while maintaining water rate affordability and management of our long term debt.

These goals align with efficient government and green and resilient plan elements from the City's Comprehensive Plan adopted in 2018.

The 2024 CIP consists of the following projects:

Pipeline Projects	\$ 6.3M
Facility Projects	\$ 8.7M
Vehicles/Other Projects	\$ 2.4M
Total	\$17.4M

The Utility intends to fund these projects as stated below:

Expense Depreciation	\$ 5.0M
SDWL	\$ 6.4M
Reserves	\$ 6.0M
Total	\$17.4M

The majority of the proposed Water Utility Capital projects and programs implement improvements, repairs and/or replacements of water supply and distribution system infrastructure with community

service impacts that extend well beyond the physical location of any given project. With that in mind, the Utility remains cognizant of the need to balance our infrastructure investments throughout all segments of our community without placing undue burdens within Environmental Justice Areas or areas with a higher percentage of both people of color and/or people living below the poverty line. In most cases the community costs associated with the Utility’s proposed Capital projects are distributed equally among the entire Utility customer base. However, for those projects which could potentially include assessable improvements, direct-customer costs or connection fees, the Utility thoroughly evaluates the proposed direct costs to the community, including the proposed project locations in relation to Madison’s Environmental Justice Areas, to fairly and equitably balance these costs throughout the community.

### Project Prioritization

Using the techniques of asset management, we are placing emphasis on our most critical infrastructure assets and prioritizing work based on business case evaluations. Madison Water Utility’s infrastructure renewal and replacement programs stem from a data-driven Asset Management program and a comprehensive Utility Master Plan. These programs define and assess core risk metrics for all existing infrastructure in the system, as well as identify and evaluate the projected needs of Madison’s water system. These programs allow the Utility to objectively identify and evaluate critical water infrastructure needs for the present and the future. The Utility further prioritizes these infrastructure investments using a triple bottom line framework based on the economic, environmental and social impacts of the proposed projects.

### Prioritized List of 2024 Capital Requests

<b>PROGRAM/PROJECT</b>	<b>MUNIS PROJECT</b>	<b>2024 PRIORITY</b>
JOHN NOLAN DRIVE	11860	1
UW #15 PFAS MITIGATION	14092	2
WATER MAINS NEW	14676	3
WATER MAINS REPLACE REHAB IMPROVE	14677	4
WILSON STREEET (MLK TO KING)	11543	5
HIGH POINT/RAYMOND/MIDTOWN	12454	6
PARK STREET SOUTH	11133	7
BOOSTER PUMP STATION 213 RECONSTRUCT	12441	8
UW #27 IRON AND MANGANESE MITIGATION	14205	9
BOOSTER PUMP STATION 128 UPGRADE	12442	10
WATER UTILITY FACILITY IMPROVEMENTS	14678	11
CLORINATORS AND FLORIDATORS PROGRAM	14684	12
NEW VALVE CUT-IN PROGRAM	14683	13

VEHICLES & EQUIPMENT PROGRAM	14680	14
METER & FIXED NETWORK PROGRAM	14679	15
UW REHAB PROGRAM	14681	16
HYDRANT PROGRAM	14682	17
UW #12 CONVERSION TO A TWO ZONE WELL	10452	18
NEW WATER FACILITY PLANNING	14697	19

### Summary of Changes from 2023 Capital Improvement Plan

The Utility is committed to sound fiscal planning and building up financial reserves that will ultimately fund its infrastructure replacement program and reduce reliance on debt financing.

The Utility received approval from the Public Service Commission of Wisconsin on December 29, 2022 for a new funding mechanism for the main replacement program called Expense Depreciation. It allows us to cash fund \$5 million of main replacement projects annually. Due to this approval, Utility’s main programs have increased by \$1.7 million from what was adopted in 2023.

The Utility included 2 new projects in the 2024 CIP – \$500,000 for Booster Pump Station #213 (Lakeview Reconstruction project) and \$800,000 for New Water Facility Planning project. These projects were scheduled for 2026 and 2027 in the 2023 CIP. We have moved them up to keep in alignment with our overall 10 year master plan.

In 2024 the Utility combined three main rehabilitation programs into one main replacement program. This was done to accommodate changes between the three programs after the current year CIP budget is adopted. All three main programs have the same goal to update the water infrastructure, diminishing the risk of main failure and to extend the useful life of the mains at a lower cost than replacing them.

### Funding Considerations

The Utility is committed to reducing its reliance on debt financing of our recurring capital programs. The most recent approved rate case included expense depreciation of \$5M which is a “pay as you go” option to cash fund main replacement program (explained above).

The Utility has applied for and been approved for Safe Drinking Water Loan (SDWL) funds of \$5.8M of 2020 and 2021 main projects. This program funds projects at 55% of the current market rate for municipal bonds. We intend to close on this loan in 2023.

The Utility has also filed an intent to apply for State Fiscal Year 2024 SDWL funds for the following projects:

- UW #19 Water Quality Mitigation project for \$6.8M

- UW #15 PFAS Mitigation project for \$6.0M. These funds are part of the Bipartisan Infrastructure Law (BIL) forgivable funding and we expect to receive 70% principal forgiveness on this project.
- 2021 and 2022 main projects for \$3.3M
- Several operational efficiency projects for \$1.0M

The Utility intends to apply for State Fiscal Year 2025 SDWL funds for our UW 14 Sodium and Chloride Mitigation project for \$1.7M.

Due to the recently approved rate case, the Utility also has sufficient reserves available to fund our ongoing capital programs.



# 2024 Capital Improvement Plan

## Project Budget Proposal

### Identifying Information

Agency	<input type="text" value="Water Utility"/>	New or Existing Project	<input type="text" value="Existing"/>
Proposal Name	<input type="text" value="Booster Pump Station #213 Lakeview Reconstruction"/>	Project Type	<input type="text" value="Project"/>
Project Number	<input type="text" value="12441"/>		

#### Previous Description

This project is for reconstructing the Lake View Booster Pumping Station. The goal of the project is to meet fire fighting requirements and expansion in Zone 5. A generator will also be added to ensure reliability of the pumping station in the event of a power outage. Pump capacity will be increased to 1200 gallons per minute.

#### New or Updated Description

## Alignment with Strategic Plans and Citywide Priorities

Citywide Element

Strategy

Describe how this project/program advances the Citywide Element

Adequate pumping capacity is essential to renewing and maintaining critical infrastructure.

Does this project/program advance goals in a Citywide agenda or strategic plan other than Imagine Madison (e.g. Climate Forward, Housing Forward, Metro Forward, Vision Zero)?

If yes, specify which plan(s) the project/program would advance and describe how the project/program will help the City meet its strategic goals.

Pressure Zone 5 in the north end of the service area has long been restricted by the size of the reservoir and the associated booster pumping station. Fire protection capacity is limited and currently does not meet Utility standards. With the construction of the Lake View Reservoir, Zone 5 has 300,000 gallons of available storage capacity and requires an upgrade of the booster pumping station to support this reservoir. The existing reservoir will be upgraded to a firm capacity of 1,000 gpm with generator backup for reliability. This allows Zone 5 to expand improving pressure for local residents and development of unimproved land. Design development is currently scheduled to start in 2024.

## Racial Equity and Social Justice

We are continuing our efforts to articulate and prioritize racial equity and social justice in the City's budget and operations. Please respond to the following questions and incorporate these responses into your budget narrative to ensure racial equity is included in decision-making.

Is the proposed project/program primarily focused on maintenance or repair?

Yes

Describe how routine maintenance and/or scheduled repair considers equity and quality of life for residents. Describe how you use an equity lens to prioritize maintenance and/or repair projects.

This project is located in an Environmental Justice Area with a higher percentage of People of Color and a higher percentage of people living below the poverty line. This project continues an investment into water supply piping and storage/fire protection improvements in this area with project costs being distributed equally among the entire Utility customer base.

Is the proposed budget or budget change related to a recommendation from a Neighborhood Resource Team (NRT)?

No

If yes, please identify the specific NRT and recommendation. Be as specific as possible.

## Climate Resilience and Sustainability

Does this project/program improve the city's climate resilience or sustainability by addressing climate change impacts, reducing GHG emissions, improving energy efficiency, growing a climate-friendly economy, or reducing the environmental impact of city assets or operations?

No

If yes, describe how

## Budget Information

### Requested Budget by Funding Source

Funding Source	2024	2025	2026	2027	2028	2029
State Sources	\$ 500,000					\$ 2,100,000
<b>Total</b>	<b>\$ 500,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 2,100,000</b>

### Requested Budget by Expense Type

Expense Type	2024	2025	2026	2027	2028	2029
Building	\$ 500,000					\$ 2,100,000
<b>Total</b>	<b>\$ 500,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 2,100,000</b>

Explain any changes from the 2023 CIP in the proposed funding for this project/program

The 2023 CIP proposed funding \$2.226M over three years beginning in 2026. The current CIP proposes \$500K for priority machinery and equipment needs in 2024, and \$2.1M for remaining improvements in 2029.

If TIF or Impact Fee are a requested funding source, which district(s)

District/Detail	2024	2025	2026	2027	2028	2029

If TIF is a requested funding source, is this request included in an approved TIF project plan?

If the proposal includes building/ facility expenses, has the proposal been reviewed by City Engineering Facilities?

If no, explain how you developed the facilities cost estimate for the budget request.

### Project Schedule and Location

Complete the schedule below for each year of requested funding. Please detail costs across the major project phases (planning, design, or construction/implementation).

Year	Phase/Description	Cost	Location	Alder District
2024	Pipe and equipment replacements	\$ 500,000	1320 Lake View Ave	18
2029	Construction	\$ 2,100,000	1320 Lake View Ave	18

## Operating Costs

**Over the next six years, will the project/program require any of the following IT resources?**

Electronic hardware that will be connected to a City device in any manner, including wireless, bluetooth, NFC, etc.?	No
Software (either local or in the cloud)?	No
A new website or changes to an existing website?	No

**For projects/programs requesting new software/hardware:**

Have you submitted an IT project request form? <a href="#">IT Project Request Form</a>	No
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**Changes to existing hardware/software:**

Will any existing software or processes need to be modified to support this project/program or initiative? <a href="#">If yes, submit an IT Project Request Form</a>	No
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**Surveillance Technology:**

Do you believe any of the hardware or software to be considered surveillance technology? <a href="#">Surveillance technology is defined in MGO Sec. 23.63(2).</a> If yes, please reach out to Sarah Edgerton prior to submitting your budget request.	No
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**In addition to IT costs, projects/programs may have other operational impacts. Over the next six years, will the project/program require any of the following:**

Facilities/land maintenance?	No
Vehicle setup or maintenance costs?	No
External management or consulting contracts?	No
How many additional FTE positions required for ongoing operations of this project/program?	0.00

**Estimate the project/program annual operating costs**

Description - please detail operating costs by major where available	Annual Costs
No change in facility-related operating costs are associated with the proposed improvements.	n/a

# 2024 Capital Improvement Plan

## Project Budget Proposal

### Identifying Information

Agency	<input type="text" value="Water Utility"/>	New or Existing Project	<input type="text" value="Existing"/>
Proposal Name	<input type="text" value="Booster Pump Station 128 Upgrade"/>	Project Type	<input type="text" value="Project"/>
Project Number	<input type="text" value="12442"/>		

#### Previous Description

Pressure Zone 11 on the far west side is experiencing development pressure and growth. The Blackhawk elevated tank was completed and put into service in December 2018, and will support projected growth in the area. Pump station capacity at the Blackhawk Booster Pumping Station is a limiting factor and the pumps and electrical systems require upgrade. This project will increase firm pumping capacity from 1,000 gpm to 1,400 to 2,100 gpm. Design development is scheduled to start in 2028.

#### New or Updated Description

Pressure Zone 11 on the far west side is experiencing development pressure and growing. The Blackhawk elevated tank was completed and put into service in December 2018 and will support projected growth in the area. Pump station capacity at the Blackhawk Booster Pumping Station is a limiting factor and the pumps and electrical systems require upgrade. This proposal will increase firm pumping capacity from 1,000 gpm to 1,400 gpm to 2,100 gpm. Design and construction is scheduled to happen in 2027.

### Alignment with Strategic Plans and Citywide Priorities

Citywide Element	<input type="text" value="Green and Resilient"/>
Strategy	<input type="text" value="Protect Madison's water supply and infrastructure to provide safe clean drinking water."/>

#### Describe how this project/program advances the Citywide Element

This project repairs and updates an existing undersized and deteriorated water supply and booster pumping facility in order to meet established Utility Level-of-Service of water main infrastructure.



Does this project/program advance goals in a Citywide agenda or strategic plan other than Imagine Madison (e.g. Climate Forward, Housing Forward, Metro Forward, Vision Zero)?

Yes

If yes, specify which plan(s) the project/program would advance and describe how the project/program will help the City meet its strategic goals.

Pressure Zone 11 on the far west side is experiencing development pressure and growing. The Blackhawk elevated tank was completed and put into service in December 2018 and will support projected growth in the area. Pump station capacity at the Blackhawk Booster Pumping Station is a limiting factor and the pumps and electrical systems require upgrade. This proposal will increase firm pumping capacity from 1,000 gpm to 1,400 gpm to 2,100 gpm.

## Racial Equity and Social Justice

We are continuing our efforts to articulate and prioritize racial equity and social justice in the City's budget and operations. Please respond to the following questions and incorporate these responses into your budget narrative to ensure racial equity is included in decision-making.

Is the proposed project/program primarily focused on maintenance or repair?

Yes

Describe how routine maintenance and/or scheduled repair considers equity and quality of life for residents. Describe how you use an equity lens to prioritize maintenance and/or repair projects.

Although this project is not located within an Environmental Justice Area, the scope of the facility improvements extend service from this facility into Pressure Zones 10 and 11, affecting a significant number of community residents. Project costs will be distributed equally among the entire Utility customer base. Projects are coordinated amongst all City Public Works agencies and local representatives/public improvement needs. The objective is to fairly distribute improvements City-wide and balance improvements to include work within Environmental Justice Areas and Neighborhood Development Plans whenever possible, and minimize project cost impacts which may create financial burdens in lower income areas.

Is the proposed budget or budget change related to a recommendation from a Neighborhood Resource Team (NRT)?

No

If yes, please identify the specific NRT and recommendation. Be as specific as possible.

## Climate Resilience and Sustainability

Does this project/program improve the city's climate resilience or sustainability by addressing climate change impacts, reducing GHG emissions, improving energy efficiency, growing a climate-friendly economy, or reducing the environmental impact of city assets or operations?

Yes

If yes, describe how

This project proposes to replace undersized deteriorated pumping and motor control equipment with modern, sufficiently sized and more efficient equipment resulting in improved energy efficiency at this facility.

## Budget Information

### Requested Budget by Funding Source

Funding Source	2024	2025	2026	2027	2028	2029
State Sources				\$ 1,100,000		
<b>Total</b>	\$ -	\$ -	\$ -	\$ 1,100,000	\$ -	\$ -

### Requested Budget by Expense Type

Expense Type	2024	2025	2026	2027	2028	2029
Machinery and Equipment				\$ 1,100,000		
<b>Total</b>	\$ -	\$ -	\$ -	\$ 1,100,000	\$ -	\$ -

Explain any changes from the 2023 CIP in the proposed funding for this project/program

After updated Water Utility's Master Plan this project was moved up from starting in 2028 to starting in 2027. The costs have also been updated to include all of the work to be one in one year instead of over a couple of years.

If TIF or Impact Fee are a requested funding source, which district(s)

District/Detail	2024	2025	2026	2027	2028	2029

If TIF is a requested funding source, is this request included in an approved TIF project plan?

If the proposal includes building/ facility expenses, has the proposal been reviewed by City Engineering Facilities?

If no, explain how you developed the facilities cost estimate for the budget request.

**Project Schedule and Location**

Complete the schedule below for each year of requested funding. Please detail costs across the major project phases (planning, design, or construction/implementation).

Year	Phase/Description	Cost	Location	Alder District
2027	Engineering design and construction	\$ 1,100,000	9160 Waterside Street	9

## Operating Costs

**Over the next six years, will the project/program require any of the following IT resources?**

Electronic hardware that will be connected to a City device in any manner, including wireless, bluetooth, NFC, etc.?	No
Software (either local or in the cloud)?	No
A new website or changes to an existing website?	No

**For projects/programs requesting new software/hardware:**

Have you submitted an IT project request form? <a href="#">IT Project Request Form</a>	No
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**Changes to existing hardware/software:**

Will any existing software or processes need to be modified to support this project/program or initiative? <a href="#">If yes, submit an IT Project Request Form</a>	No
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**Surveillance Technology:**

Do you believe any of the hardware or software to be considered surveillance technology? <a href="#">Surveillance technology is defined in MGO Sec. 23.63(2).</a> If yes, please reach out to Sarah Edgerton prior to submitting your budget request.	No
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**In addition to IT costs, projects/programs may have other operational impacts. Over the next six years, will the project/program require any of the following:**

Facilities/land maintenance?	No
Vehicle setup or maintenance costs?	No
External management or consulting contracts?	No
How many additional FTE positions required for ongoing operations of this project/program?	0.00

**Estimate the project/program annual operating costs**

Description - please detail operating costs by major where available	Annual Costs
No change from existing operating costs.	n/a

# 2024 Capital Improvement Plan

## Program Budget Proposal

### Identifying Information

Agency	<input type="text" value="Water Utility"/>	New or Existing Project	<input type="text" value="Existing"/>
Proposal Name	<input type="text" value="Chlorinators &amp; Florinators Program"/>	Project Type	<input type="text" value="Program"/>
Project Number	<input type="text" value="12386"/>		
2024 Project Number	<input type="text" value="1464"/>		

#### Previous Description

This program rebuilds and replaces chlorinator and florinator equipment on a 10 year replacement cycle. The goal of this program is to reduce failures and service interruptions for safe and reliable water. Progress will be measured by the frequency of equipment failure.

#### New or Updated Description

### Alignment with Strategic Plans and Citywide Priorities

Citywide Element	<input type="text" value="Green and Resilient"/>
Strategy	<input type="text" value="Protect Madison's water supply and infrastructure to provide safe clean drinking water."/>

#### Describe how this project/program advances the Citywide Element

Meeting established water quality regulations and goals is essential to renewing and maintaining critical infrastructure.

Does this project/program advance goals in a Citywide agenda or strategic plan other than Imagine Madison (e.g. Climate Forward, Housing Forward, Metro Forward, Vision Zero)?

Yes

If yes, specify which plan(s) the project/program would advance and describe how the project/program will help the City meet its strategic goals.

This is part of our Asset Management plan that rebuilds and replaces chlorinator and fluoridator equipment throughout the system on a 10 year replacement cycle. The goal of this program is to reduce failures and service interruptions.

## Racial Equity and Social Justice

We are continuing our efforts to articulate and prioritize racial equity and social justice in the City's budget and operations. Please respond to the following questions and incorporate these responses into your budget narrative to ensure racial equity is included in decision-making.

Is the proposed project/program primarily focused on maintenance or repair?

Yes

Describe how routine maintenance and/or scheduled repair considers equity and quality of life for residents. Describe how you use an equity lens to prioritize maintenance and/or repair projects.

This program is system wide and all Madison Water Utility customers, regardless of race, will share in the benefits of system reliability.

Is the proposed budget or budget change related to a recommendation from a Neighborhood Resource Team (NRT)?

No

If yes, please identify the specific NRT and recommendation. Be as specific as possible.

## Climate Resilience and Sustainability

Does this project/program improve the city's climate resilience or sustainability by addressing climate change impacts, reducing GHG emissions, improving energy efficiency, growing a climate-friendly economy, or reducing the environmental impact of city assets or operations?

No

If yes, describe how

## Budget Information

### Requested Budget by Funding Source

Funding Source	2024	2025	2026	2027	2028	2029
Reserves Applied (Water)	\$ 40,000	\$ 40,000	\$ 50,000	\$ 50,000	\$ 60,000	\$ 60,000
<b>Total</b>	<b>\$ 40,000</b>	<b>\$ 40,000</b>	<b>\$ 50,000</b>	<b>\$ 50,000</b>	<b>\$ 60,000</b>	<b>\$ 60,000</b>

### Requested Budget by Expense Type

Expense Type	2024	2025	2026	2027	2028	2029
Machinery and Equipment	\$ 40,000	\$ 40,000	\$ 50,000	\$ 50,000	\$ 60,000	\$ 60,000
<b>Total</b>	<b>\$ 40,000</b>	<b>\$ 40,000</b>	<b>\$ 50,000</b>	<b>\$ 50,000</b>	<b>\$ 60,000</b>	<b>\$ 60,000</b>

Explain any changes from the 2023 CIP in the proposed funding for this project/program



If TIF or Impact Fee are a requested funding source, which district(s)

District/Detail	2024	2025	2026	2027	2028	2029

If TIF is a requested funding source, is this request included in an approved TIF project plan?

If the proposal includes building/ facility expenses, has the proposal been reviewed by City Engineering Facilities?

If no, explain how you developed the facilities cost estimate for the budget request.

Project Schedule and Location

Complete the table below for each year of requested funding. Detail the minor projects that will occur and provide location detail when necessary. If detailed project plans are not available, explain why and when this information will be available.

Year	Project Name	Cost	Location	Alder District
2024	2024 Chlorinators and Floridators	\$ 40,000	Citywide	Citywide
2025	2025 Chlorinators and Floridators	\$ 40,000	Citywide	Citywide
2026	2026 Chlorinators and Floridators	\$ 50,000	Citywide	Citywide
2027	2027 Chlorinators and Floridators	\$ 50,000	Citywide	Citywide
2028	2028 Chlorinators and Floridators	\$ 60,000	Citywide	Citywide
2029	2029 Chlorinators and Floridators	\$ 60,000	Citywide	Citywide

## Operating Costs

**Over the next six years, will the project/program require any of the following IT resources?**

Electronic hardware that will be connected to a City device in any manner, including wireless, bluetooth, NFC, etc.?	No
Software (either local or in the cloud)?	No
A new website or changes to an existing website?	No

**For projects/programs requesting new software/hardware:**

Have you submitted an IT project request form? <a href="#">IT Project Request Form</a>	No
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**Changes to existing hardware/software:**

Will any existing software or processes need to be modified to support this project/program or initiative? <a href="#">If yes, submit an IT Project Request Form</a>	No
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**Surveillance Technology:**

Do you believe any of the hardware or software to be considered surveillance technology? <a href="#">Surveillance technology is defined in MGO Sec. 23.63(2).</a> If yes, please reach out to Sarah Edgerton prior to submitting your budget request.	No
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**In addition to IT costs, projects/programs may have other operational impacts. Over the next six years, will the project/program require any of the following:**

Facilities/land maintenance?	No
Vehicle setup or maintenance costs?	No
External management or consulting contracts?	No
How many additional FTE positions required for ongoing operations of this project/program?	0.00

**Estimate the project/program annual operating costs**

Description - please detail operating costs by major where available	Annual Costs

# 2024 Capital Improvement Plan

## Project Budget Proposal

### Identifying Information

Agency	<input type="text" value="Water Utility"/>	New or Existing Project	<input type="text" value="Existing"/>
Proposal Name	<input type="text" value="High Point/Raymond/MidTown"/>	Project Type	<input type="text" value="Project"/>
Project Number	<input type="text" value="12454"/>		

#### Previous Description

This project funds the connection of water mains in the Marty Road area. When the project to complete the street and path network (as outlined in the High Point - Raymond Neighborhood Development Plan) goes forward, water infrastructure will be built to connect piping between Pressure Zones 8 and 9. This connection will increase operational resiliency in an area that is currently more isolated within the system than desirable.

#### New or Updated Description

### Alignment with Strategic Plans and Citywide Priorities

Citywide Element	<input type="text" value="Green and Resilient"/>
Strategy	<input type="text" value="Protect Madison's water supply and infrastructure to provide safe clean drinking water."/>

#### Describe how this project/program advances the Citywide Element

This program repairs and/or replaces existing undersized or deteriorated water mains and extends new mains to meet established Utility Level-of-Service for water main infrastructure. This project also improves inter-zone transfer and system redundancy in the areas of Pressure Zones 7, 8, 9 and 10 (southwest Madison).

Does this project/program advance goals in a Citywide agenda or strategic plan other than Imagine Madison (e.g. Climate Forward, Housing Forward, Metro Forward, Vision Zero)?

Yes

If yes, specify which plan(s) the project/program would advance and describe how the project/program will help the City meet its strategic goals.

The proposed Madison Water Utility budget allows for design services related to Water Utility infrastructure in the project area.

## Racial Equity and Social Justice

We are continuing our efforts to articulate and prioritize racial equity and social justice in the City's budget and operations. Please respond to the following questions and incorporate these responses into your budget narrative to ensure racial equity is included in decision-making.

Is the proposed project/program primarily focused on maintenance or repair?

Yes

Describe how routine maintenance and/or scheduled repair considers equity and quality of life for residents. Describe how you use an equity lens to prioritize maintenance and/or repair projects.

The proposed improvements will increase the municipal water service area near the proposed project and add redundancy and back up supply options for Madison Water Utility Pressure Zone 9. Madison Water Utility costs are distributed amongst the entire Utility customer base.

Is the proposed budget or budget change related to a recommendation from a Neighborhood Resource Team (NRT)?

No

If yes, please identify the specific NRT and recommendation. Be as specific as possible.

## Climate Resilience and Sustainability

Does this project/program improve the city's climate resilience or sustainability by addressing climate change impacts, reducing GHG emissions, improving energy efficiency, growing a climate-friendly economy, or reducing the environmental impact of city assets or operations?

No

If yes, describe how

## Budget Information

### Requested Budget by Funding Source

Funding Source	2024	2025	2026	2027	2028	2029
Miscellaneous Revenue	\$ 10,000				\$ 1,145,000	
<b>Total</b>	<b>\$ 10,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 1,145,000</b>	<b>\$ -</b>

### Requested Budget by Expense Type

Expense Type	2024	2025	2026	2027	2028	2029
Water Network	\$ 10,000				\$ 1,145,000	
<b>Total</b>	<b>\$ 10,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 1,145,000</b>	<b>\$ -</b>

Explain any changes from the 2023 CIP in the proposed funding for this project/program

This project will be funded through expense depreciation, which was approved in the Water Utilities' last rate case which was approved in December 2022.

If TIF or Impact Fee are a requested funding source, which district(s)

District/Detail	2024	2025	2026	2027	2028	2029

If TIF is a requested funding source, is this request included in an approved TIF project plan?

If the proposal includes building/ facility expenses, has the proposal been reviewed by City Engineering Facilities?

If no, explain how you developed the facilities cost estimate for the budget request.

### Project Schedule and Location

Complete the schedule below for each year of requested funding. Please detail costs across the major project phases (planning, design, or construction/implementation).

Year	Phase/Description	Cost	Location	Alder District
2024	Planning - Engineering Design Services	\$ 10,000	Marty Road to High Point Road	1, 7, 20
2028	Construction/Implementation - Pipeline Improvements	\$ 1,145,000	Marty Road to High Point Road	1, 7, 20



## Operating Costs

**Over the next six years, will the project/program require any of the following IT resources?**

Electronic hardware that will be connected to a City device in any manner, including wireless, bluetooth, NFC, etc.?	No
Software (either local or in the cloud)?	No
A new website or changes to an existing website?	No

**For projects/programs requesting new software/hardware:**

Have you submitted an IT project request form? <a href="#">IT Project Request Form</a>	No
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**Changes to existing hardware/software:**

Will any existing software or processes need to be modified to support this project/program or initiative? <a href="#">If yes, submit an IT Project Request Form</a>	No
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**Surveillance Technology:**

Do you believe any of the hardware or software to be considered surveillance technology? <a href="#">Surveillance technology is defined in MGO Sec. 23.63(2).</a> If yes, please reach out to Sarah Edgerton prior to submitting your budget request.	No
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**In addition to IT costs, projects/programs may have other operational impacts. Over the next six years, will the project/program require any of the following:**

Facilities/land maintenance?	No
Vehicle setup or maintenance costs?	No
External management or consulting contracts?	No
How many additional FTE positions required for ongoing operations of this project/program?	0.00

**Estimate the project/program annual operating costs**

Description - please detail operating costs by major where available	Annual Costs

# 2024 Capital Improvement Plan

## Project Budget Proposal

### Identifying Information

Agency	<input type="text" value="Water Utility"/>	New or Existing Project	<input type="text" value="New"/>
Proposal Name	<input type="text" value="John Nolen Drive"/>	Project Type	<input type="text" value="Project"/>
Project Number	<input type="text" value="11860"/>		

#### Previous Description

New request. No current description

#### New or Updated Description

This project is for replacing the causeway bridges on John Nolen Drive between North Shore Drive and Olin Avenue. The goal of this project is to improve the transportation safety for this corridor for pedestrians, bicycles, and motor vehicles. The project's scope includes replacing the six bridges on the John Nolen Drive causeway, which are approaching the end of their service life. The bike path is also planned to be reconstructed to create additional space for bike and pedestrian traffic, particularly where it is narrow over waterways. Pavement is planned for replacement in the corridor. Design is scheduled through 2025 and construction is scheduled for 2026-2027. Madison Water Utility will be making minor relocations and valve/hydrant improvements in support of overall project and we are not anticipating participating in the state/major construction contract.

### Alignment with Strategic Plans and Citywide Priorities

Citywide Element	<input type="text" value="Green and Resilient"/>
Strategy	<input type="text" value="Protect Madison's water supply and infrastructure to provide safe clean drinking water."/>

#### Describe how this project/program advances the Citywide Element

This project, as required to accommodate the overall roadway project, will repair/or replace existing undersized or deteriorated water mains in the project area to meet established Utility Level-of-Service for water main infrastructure.

Does this project/program advance goals in a Citywide agenda or strategic plan other than Imagine Madison (e.g. Climate Forward, Housing Forward, Metro Forward, Vision Zero)?

No

If yes, specify which plan(s) the project/program would advance and describe how the project/program will help the City meet its strategic goals.

[Empty text box for response]

### Racial Equity and Social Justice

We are continuing our efforts to articulate and prioritize racial equity and social justice in the City’s budget and operations. Please respond to the following questions and incorporate these responses into your budget narrative to ensure racial equity is included in decision-making.

Is the proposed project/program primarily focused on maintenance or repair?

Yes

Describe how routine maintenance and/or scheduled repair considers equity and quality of life for residents. Describe how you use an equity lens to prioritize maintenance and/or repair projects.

Water infrastructure improvements in support of the overall roadway improvement project. Madison Water Utility costs are distributed amongst the entire Utility customer base.

Is the proposed budget or budget change related to a recommendation from a Neighborhood Resource Team (NRT)?

No

If yes, please identify the specific NRT and recommendation. Be as specific as possible.

[Empty text box for response]

### Climate Resilience and Sustainability

Does this project/program improve the city’s climate resilience or sustainability by addressing climate change impacts, reducing GHG emissions, improving energy efficiency, growing a climate-friendly economy, or reducing the environmental impact of city assets or operations?

No

If yes, describe how

[Empty text box for response]

## Budget Information

### Requested Budget by Funding Source

Funding Source	2024	2025	2026	2027	2028	2029
Miscellaneous Revenue	\$ 30,000	\$ 30,000				
<b>Total</b>	<b>\$ 30,000</b>	<b>\$ 30,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>

### Requested Budget by Expense Type

Expense Type	2024	2025	2026	2027	2028	2029
Water Network	\$ 30,000	\$ 30,000				
<b>Total</b>	<b>\$ 30,000</b>	<b>\$ 30,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>

Explain any changes from the 2023 CIP in the proposed funding for this project/program

If TIF or Impact Fee are a requested funding source, which district(s)

District/Detail	2024	2025	2026	2027	2028	2029

If TIF is a requested funding source, is this request included in an approved TIF project plan?

If the proposal includes building/ facility expenses, has the proposal been reviewed by City Engineering Facilities?

If no, explain how you developed the facilities cost estimate for the budget request.



## Operating Costs

**Over the next six years, will the project/program require any of the following IT resources?**

Electronic hardware that will be connected to a City device in any manner, including wireless, bluetooth, NFC, etc.?	No
Software (either local or in the cloud)?	No
A new website or changes to an existing website?	No

**For projects/programs requesting new software/hardware:**

Have you submitted an IT project request form? <a href="#">IT Project Request Form</a>	No
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**Changes to existing hardware/software:**

Will any existing software or processes need to be modified to support this project/program or initiative? <a href="#">If yes, submit an IT Project Request Form</a>	No
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**Surveillance Technology:**

Do you believe any of the hardware or software to be considered surveillance technology? <a href="#">Surveillance technology is defined in MGO Sec. 23.63(2).</a> If yes, please reach out to Sarah Edgerton prior to submitting your budget request.	No
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**In addition to IT costs, projects/programs may have other operational impacts. Over the next six years, will the project/program require any of the following:**

Facilities/land maintenance?	No
Vehicle setup or maintenance costs?	No
External management or consulting contracts?	No
How many additional FTE positions required for ongoing operations of this project/program?	0.00

**Estimate the project/program annual operating costs**

Description - please detail operating costs by major where available	Annual Costs
No change to existing operating costs are anticipated as a result of this project.	n/a

# 2024 Capital Improvement Plan

## Project Budget Proposal

### Identifying Information

Agency	<input type="text" value="Water Utility"/>	New or Existing Project	<input type="text" value="New"/>
Proposal Name	<input type="text" value="New Water Facility Planning"/>	Project Type	<input type="text" value="Project"/>
Project Number	<input type="text" value="14697"/>		

#### Previous Description

New request. No current description

#### New or Updated Description

The City Planning Department is projecting significant development pressure within parts of the City over the next 20 years. System water demands coupled with reliability requirements indicate water supply deficiencies will exist within the City. Development projections will result in certain supply deficiencies growing to the point that they become critical by the year 2040. This project will investigate the ways and means of addressing the City's future water supply shortages now. Alternatives will include but will not be limited to; a new well; pumping water from other areas of the system; and optimization of operation. Planning and investigation will commence in 2024, with the project completion targeted by 2032.

### Alignment with Strategic Plans and Citywide Priorities

Citywide Element	<input type="text" value="Green and Resilient"/>
Strategy	<input type="text" value="Protect Madison's water supply and infrastructure to provide safe clean drinking water."/>

#### Describe how this project/program advances the Citywide Element

This project will evaluate and propose mitigation strategies in order to meet Utility Level-of-Service related to water supply and system capacity.



Does this project/program advance goals in a Citywide agenda or strategic plan other than Imagine Madison (e.g. Climate Forward, Housing Forward, Metro Forward, Vision Zero)?

Yes

If yes, specify which plan(s) the project/program would advance and describe how the project/program will help the City meet its strategic goals.

Improving system distribution capabilities and pressure consistency will yield energy savings and allow for the existing water facilities in the area to run at more optimal rates, effectively reducing the carbon footprint associated with water pumping/distribution operations. The potential integration of a reservoir element at a given site could be an integral part of a "time of day energy use plan", further saving energy and associated costs, and helping the local energy company "flatten the curve" by generating less energy overall.

## Racial Equity and Social Justice

We are continuing our efforts to articulate and prioritize racial equity and social justice in the City's budget and operations. Please respond to the following questions and incorporate these responses into your budget narrative to ensure racial equity is included in decision-making.

Is the proposed project/program primarily focused on maintenance or repair?

No

For projects/programs that are not specifically focused on maintenance and repair 1) what specific inequities does this program intend to address? How and for whom? 2) What data helped shape your proposal? Data may include qualitative and quantitative data such as demographic, qualified census tracts, environmental justice areas, specific recommendations from a Racial Equity and Social Justice Analysis, or other sources.

This project funds water supply improvements needed to strengthen distribution system capacity, improve pressures & fire protection, allow transfer of water between system zones, and serve new developments beyond the extent of the existing service area in compliance with City of Madison development policies and all applicable neighborhood development plans. New water infrastructure projects may include assessable improvements or connection fees, so project location related to Environmental Justice Areas is a consideration for balancing project vs. project need. Projects are coordinated amongst all City Public Works agencies and local representatives/public improvement needs. The objective is to fairly distribute improvements City-wide and balance improvements to include work within Environmental Justice Areas and Neighborhood Development Plans whenever possible, and minimize project cost impacts with may create financial burdens in lower income areas.

Is the proposed budget or budget change related to a recommendation from a Neighborhood Resource Team (NRT)?

No

If yes, please identify the specific NRT and recommendation. Be as specific as possible.

## Climate Resilience and Sustainability

Does this project/program improve the city's climate resilience or sustainability by addressing climate change impacts, reducing GHG emissions, improving energy efficiency, growing a climate-friendly economy, or reducing the environmental impact of city assets or operations?

No

If yes, describe how

## Budget Information

### Requested Budget by Funding Source

Funding Source	2024	2025	2026	2027	2028	2029
State Sources	\$ 800,000					\$ 1,500,000
<b>Total</b>	<b>\$ 800,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 1,500,000</b>

### Requested Budget by Expense Type

Expense Type	2024	2025	2026	2027	2028	2029
Building	\$ 800,000					\$ 1,500,000
<b>Total</b>	<b>\$ 800,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 1,500,000</b>

Explain any changes from the 2023 CIP in the proposed funding for this project/program

If TIF or Impact Fee are a requested funding source, which district(s)

District/Detail	2024	2025	2026	2027	2028	2029

If TIF is a requested funding source, is this request included in an approved TIF project plan?

If the proposal includes building/ facility expenses, has the proposal been reviewed by City Engineering Facilities?

If no, explain how you developed the facilities cost estimate for the budget request.

## Project Schedule and Location

Complete the schedule below for each year of requested funding. Please detail costs across the major project phases (planning, design, or construction/implementation).

Year	Phase/Description	Cost	Location	Alder District
2024	Planning and investigation	\$ 800,000	unknown at this time	
2029	Engineering planning/design and possible construction	\$ 1,500,000	unknown at this time	

## Operating Costs

**Over the next six years, will the project/program require any of the following IT resources?**

Electronic hardware that will be connected to a City device in any manner, including wireless, bluetooth, NFC, etc.?	No
Software (either local or in the cloud)?	No
A new website or changes to an existing website?	No

**For projects/programs requesting new software/hardware:**

Have you submitted an IT project request form? <a href="#">IT Project Request Form</a>	No
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**Changes to existing hardware/software:**

Will any existing software or processes need to be modified to support this project/program or initiative? <a href="#">If yes, submit an IT Project Request Form</a>	No
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**Surveillance Technology:**

Do you believe any of the hardware or software to be considered surveillance technology? <a href="#">Surveillance technology is defined in MGO Sec. 23.63(2).</a> If yes, please reach out to Sarah Edgerton prior to submitting your budget request.	No
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**In addition to IT costs, projects/programs may have other operational impacts. Over the next six years, will the project/program require any of the following:**

Facilities/land maintenance?	No
Vehicle setup or maintenance costs?	No
External management or consulting contracts?	No
How many additional FTE positions required for ongoing operations of this project/program?	0.00

**Estimate the project/program annual operating costs**

Description - please detail operating costs by major where available	Annual Costs

# 2024 Capital Improvement Plan

## Project Budget Proposal

### Identifying Information

Agency	<input type="text" value="Water Utility"/>	New or Existing Project	<input type="text" value="Existing"/>
Proposal Name	<input type="text" value="Park Street, South (Olin to RR)"/>	Project Type	<input type="text" value="Project"/>
Project Number	<input type="text" value="11133"/>		

#### Previous Description

This project is for reconstructing South Park Street. The goal of the project is to improve the pavement quality of the roadway. The current pavement rating is 4 of 10. The project's scope includes South Park Street from the railroad to Olin Avenue. Design is planned for 2023 and construction is planned for 2025. This timeline aligns with the Wisconsin Department of Transportation timeline.

#### New or Updated Description

MWU Proposes to connect a system hydraulic gap located between Wingra Creek and the railroad crossing to improve system hydraulics in close proximity to Unit Well 18. Also, minor system improvements, as needed, in accommodation of the roadway reconstruction project. Design is planned for 2023-2024 and construction is planned for 2026.

### Alignment with Strategic Plans and Citywide Priorities

Citywide Element	<input type="text" value="Green and Resilient"/>
Strategy	<input type="text" value="Protect Madison's water supply and infrastructure to provide safe clean drinking water."/>

#### Describe how this project/program advances the Citywide Element

This project replaces existing failed and/or undersized water mains. The work is done in conjunction with other agencies to reduce the number of times the public is impacted by the construction on major thoroughfares.

Does this project/program advance goals in a Citywide agenda or strategic plan other than Imagine Madison (e.g. Climate Forward, Housing Forward, Metro Forward, Vision Zero)?

Yes

If yes, specify which plan(s) the project/program would advance and describe how the project/program will help the City meet its strategic goals.

Madison Water Utility proposes to improve system hydraulics in close proximity to Unit Well 18. Also, minor system improvements, as needed, in accommodation of the roadway reconstruction project.

## Racial Equity and Social Justice

We are continuing our efforts to articulate and prioritize racial equity and social justice in the City's budget and operations. Please respond to the following questions and incorporate these responses into your budget narrative to ensure racial equity is included in decision-making.

Is the proposed project/program primarily focused on maintenance or repair?

Yes

Describe how routine maintenance and/or scheduled repair considers equity and quality of life for residents. Describe how you use an equity lens to prioritize maintenance and/or repair projects.

This project extends through an environmental justice area with higher percentage of Black, Indigenous, People of Color and people with lower incomes. It also extends through the Southside NRT. Improving the pavement, sidewalks and bike facilities in this area will create a safe convenient transportation for these groups. Madison Water Utility costs are distributed amongst the entire Utility customer base.

Is the proposed budget or budget change related to a recommendation from a Neighborhood Resource Team (NRT)?

No

If yes, please identify the specific NRT and recommendation. Be as specific as possible.

## Climate Resilience and Sustainability

Does this project/program improve the city's climate resilience or sustainability by addressing climate change impacts, reducing GHG emissions, improving energy efficiency, growing a climate-friendly economy, or reducing the environmental impact of city assets or operations?

No

If yes, describe how

## Budget Information

### Requested Budget by Funding Source

Funding Source	2024	2025	2026	2027	2028	2029
Miscellaneous Revenue			\$ 509,000			
<b>Total</b>	\$ -	\$ -	\$ 509,000	\$ -	\$ -	\$ -

### Requested Budget by Expense Type

Expense Type	2024	2025	2026	2027	2028	2029
Water Network			\$ 509,000			
<b>Total</b>	\$ -	\$ -	\$ 509,000	\$ -	\$ -	\$ -

Explain any changes from the 2023 CIP in the proposed funding for this project/program

Construction is expected to be in 2026.



If TIF or Impact Fee are a requested funding source, which district(s)

District/Detail	2024	2025	2026	2027	2028	2029

If TIF is a requested funding source, is this request included in an approved TIF project plan?

If the proposal includes building/ facility expenses, has the proposal been reviewed by City Engineering Facilities?

If no, explain how you developed the facilities cost estimate for the budget request.



## Operating Costs

**Over the next six years, will the project/program require any of the following IT resources?**

Electronic hardware that will be connected to a City device in any manner, including wireless, bluetooth, NFC, etc.?	No
Software (either local or in the cloud)?	No
A new website or changes to an existing website?	No

**For projects/programs requesting new software/hardware:**

Have you submitted an IT project request form? <a href="#">IT Project Request Form</a>	No
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**Changes to existing hardware/software:**

Will any existing software or processes need to be modified to support this project/program or initiative? <a href="#">If yes, submit an IT Project Request Form</a>	No
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**Surveillance Technology:**

Do you believe any of the hardware or software to be considered surveillance technology? <a href="#">Surveillance technology is defined in MGO Sec. 23.63(2).</a> If yes, please reach out to Sarah Edgerton prior to submitting your budget request.	No
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**In addition to IT costs, projects/programs may have other operational impacts. Over the next six years, will the project/program require any of the following:**

Facilities/land maintenance?	No
Vehicle setup or maintenance costs?	No
External management or consulting contracts?	No
How many additional FTE positions required for ongoing operations of this project/program?	0.00

**Estimate the project/program annual operating costs**

Description - please detail operating costs by major where available	Annual Costs
No increase in existing operating costs are anticipated as a result of the proposed project.	n/a

# 2024 Capital Improvement Plan

## Project Budget Proposal

### Identifying Information

Agency	<input type="text" value="Water Utility"/>	New or Existing Project	<input type="text" value="Existing"/>
Proposal Name	<input type="text" value="Unit Well 12 Conversion to a Two Zone Well"/>	Project Type	<input type="text" value="Project"/>
Project Number	<input type="text" value="10452"/>		

#### Previous Description

This project is for rebuilding and expanding Well #12 located on South Whitney Way. The goal of the project is to provide water supply capacity to five existing pressure zones, which represents the majority of the City's west side. The system flexibility provided by this project will improve service reliability and maximize water supply. Funding in 2026 is for design with construction to begin in 2027.

#### New or Updated Description

This project is for rebuilding and expanding Well #12 located on South Whitney Way. The goal of the project is to provide water supply capacity to five existing pressure zones, which represents the majority of the City's west side. The system flexibility provided by this project will improve service reliability and maximize water supply. Funding in 2025 is for design and the start of construction.

### Alignment with Strategic Plans and Citywide Priorities

Citywide Element	<input type="text" value="Green and Resilient"/>
Strategy	<input type="text" value="Protect Madison's water supply and infrastructure to provide safe clean drinking water."/>

#### Describe how this project/program advances the Citywide Element

Operational flexibility and efficiency is essential to renewing and maintaining critical drinking water supply and fire protection infrastructure.

Does this project/program advance goals in a Citywide agenda or strategic plan other than Imagine Madison (e.g. Climate Forward, Housing Forward, Metro Forward, Vision Zero)?

Yes

If yes, specify which plan(s) the project/program would advance and describe how the project/program will help the City meet its strategic goals.

Well 12 is located on the border between Zone 7 and Zone 8. This location provides the opportunity to permanently convert Well 12 to a two zone supply point that would also provide booster pumping capacity from Zone 7 to Zone 8. This project has been developed during 2017/2018 and is ready for implementation.

## Racial Equity and Social Justice

We are continuing our efforts to articulate and prioritize racial equity and social justice in the City's budget and operations. Please respond to the following questions and incorporate these responses into your budget narrative to ensure racial equity is included in decision-making.

Is the proposed project/program primarily focused on maintenance or repair?

Yes

Describe how routine maintenance and/or scheduled repair considers equity and quality of life for residents. Describe how you use an equity lens to prioritize maintenance and/or repair projects.

Although this project is not located within an Environmental Justice Area, the scope of the facility improvements extend service from this facility into Pressure Zone 8, which includes many areas within Environmental Justice Areas with a higher percentage of both people of color and people living below the poverty line. Project costs will be distributed equally among the entire Utility customer base.

Is the proposed budget or budget change related to a recommendation from a Neighborhood Resource Team (NRT)?

No

If yes, please identify the specific NRT and recommendation. Be as specific as possible.

## Climate Resilience and Sustainability

Does this project/program improve the city's climate resilience or sustainability by addressing climate change impacts, reducing GHG emissions, improving energy efficiency, growing a climate-friendly economy, or reducing the environmental impact of city assets or operations?

No

If yes, describe how

## Budget Information

### Requested Budget by Funding Source

Funding Source	2024	2025	2026	2027	2028	2029
State Sources		\$ 1,000,000	\$ 4,000,000			
<b>Total</b>	\$ -	\$ 1,000,000	\$ 4,000,000	\$ -	\$ -	\$ -

### Requested Budget by Expense Type

Expense Type	2024	2025	2026	2027	2028	2029
Building		\$ 1,000,000	\$ 4,000,000			
<b>Total</b>	\$ -	\$ 1,000,000	\$ 4,000,000	\$ -	\$ -	\$ -

Explain any changes from the 2023 CIP in the proposed funding for this project/program

While updated the Water Utility's 10 year master plan this project was moved up from starting in 2026 to starting in 2025 and the costs increased to reflect expected construction costs.

If TIF or Impact Fee are a requested funding source, which district(s)

District/Detail	2024	2025	2026	2027	2028	2029

If TIF is a requested funding source, is this request included in an approved TIF project plan?

If the proposal includes building/ facility expenses, has the proposal been reviewed by City Engineering Facilities?

If no, explain how you developed the facilities cost estimate for the budget request.





## Operating Costs

**Over the next six years, will the project/program require any of the following IT resources?**

Electronic hardware that will be connected to a City device in any manner, including wireless, bluetooth, NFC, etc.?	No
Software (either local or in the cloud)?	No
A new website or changes to an existing website?	No

**For projects/programs requesting new software/hardware:**

Have you submitted an IT project request form? <a href="#">IT Project Request Form</a>	No
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**Changes to existing hardware/software:**

Will any existing software or processes need to be modified to support this project/program or initiative? <a href="#">If yes, submit an IT Project Request Form</a>	No
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**Surveillance Technology:**

Do you believe any of the hardware or software to be considered surveillance technology? <a href="#">Surveillance technology is defined in MGO Sec. 23.63(2).</a> If yes, please reach out to Sarah Edgerton prior to submitting your budget request.	No
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**In addition to IT costs, projects/programs may have other operational impacts. Over the next six years, will the project/program require any of the following:**

Facilities/land maintenance?	No
Vehicle setup or maintenance costs?	No
External management or consulting contracts?	No
How many additional FTE positions required for ongoing operations of this project/program?	0.00

**Estimate the project/program annual operating costs**

Description - please detail operating costs by major where available	Annual Costs
No additional facility operating costs are anticipated in result of the proposed facility improvements.	n/a

# 2024 Capital Improvement Plan

## Project Budget Proposal

### Identifying Information

Agency	<input type="text" value="Water Utility"/>	New or Existing Project	<input type="text" value="Existing"/>
Proposal Name	<input type="text" value="Unit Well 15 - PFAS Treatment Facility"/>	Project Type	<input type="text" value="Project"/>
Project Number	<input type="text" value="14092"/>		

#### Previous Description

The contaminant, PFAS, has been detected at Well 15. While PFAS is not regulated at this time, there is significant concern about potential health impacts. To prepare for a change in the PFAS regulatory requirements, this project will investigate and study potential treatment options. A study that was performed on Well 15 gave guidance on how to proceed with improving the PFAS levels at Well 15. The Water Utility intends to apply for State Safe Drinking Water Loans for this project. The Water Utility intends to apply for Bipartisan Infrastructure Loan forgiveness for this project.

#### New or Updated Description

### Alignment with Strategic Plans and Citywide Priorities

Citywide Element	<input type="text" value="Green and Resilient"/>
Strategy	<input type="text" value="Protect Madison's water supply and infrastructure to provide safe clean drinking water."/>

#### Describe how this project/program advances the Citywide Element

Meeting established water quality regulations and goals is essential to renewing and maintaining critical infrastructure.

Does this project/program advance goals in a Citywide agenda or strategic plan other than Imagine Madison (e.g. Climate Forward, Housing Forward, Metro Forward, Vision Zero)?

Yes

If yes, specify which plan(s) the project/program would advance and describe how the project/program will help the City meet its strategic goals.

This project is included in the Master Plan and the long term CIP.

## Racial Equity and Social Justice

We are continuing our efforts to articulate and prioritize racial equity and social justice in the City's budget and operations. Please respond to the following questions and incorporate these responses into your budget narrative to ensure racial equity is included in decision-making.

Is the proposed project/program primarily focused on maintenance or repair?

No

For projects/programs that are not specifically focused on maintenance and repair 1) what specific inequities does this program intend to address? How and for whom? 2) What data helped shape your proposal? Data may include qualitative and quantitative data such as demographic, qualified census tracts, environmental justice areas, specific recommendations from a Racial Equity and Social Justice Analysis, or other sources.

The planned improvement at Well 15 will remove organic contaminants (PFAS & VOCs) from the water. Household income of people living in the area primarily served by Well 15 is lower than median household income for Madison as a whole. Further, other environmental stresses including airport noise contribute to health burden. A triple bottom line approach will evaluate social, environmental, and economic factors to prioritize the order of completion for these projects in our long-term CIP. Equity and social justice will be important determinants.

Is the proposed budget or budget change related to a recommendation from a Neighborhood Resource Team (NRT)?

No

If yes, please identify the specific NRT and recommendation. Be as specific as possible.

## Climate Resilience and Sustainability

Does this project/program improve the city's climate resilience or sustainability by addressing climate change impacts, reducing GHG emissions, improving energy efficiency, growing a climate-friendly economy, or reducing the environmental impact of city assets or operations?

Yes

If yes, describe how

The proposed treatment system will eliminate two high-energy blowers and post-treatment chemical addition needed to re-condition the water. This treatment system change will accelerate our path to a carbon-neutral future.

## Budget Information

### Requested Budget by Funding Source

Funding Source	2024	2025	2026	2027	2028	2029
State Sources	\$ 5,135,000					
<b>Total</b>	<b>\$ 5,135,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>

### Requested Budget by Expense Type

Expense Type	2024	2025	2026	2027	2028	2029
Machinery and Equipment	\$ 5,135,000					
<b>Total</b>	<b>\$ 5,135,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>

Explain any changes from the 2023 CIP in the proposed funding for this project/program

The budget increased slightly from the 2023 CIP due to expected construction costs.

If TIF or Impact Fee are a requested funding source, which district(s)

District/Detail	2024	2025	2026	2027	2028	2029

If TIF is a requested funding source, is this request included in an approved TIF project plan?

If the proposal includes building/ facility expenses, has the proposal been reviewed by City Engineering Facilities?

If no, explain how you developed the facilities cost estimate for the budget request.



## Operating Costs

**Over the next six years, will the project/program require any of the following IT resources?**

Electronic hardware that will be connected to a City device in any manner, including wireless, bluetooth, NFC, etc.?	No
Software (either local or in the cloud)?	No
A new website or changes to an existing website?	No

**For projects/programs requesting new software/hardware:**

Have you submitted an IT project request form? <a href="#">IT Project Request Form</a>	No
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**Changes to existing hardware/software:**

Will any existing software or processes need to be modified to support this project/program or initiative? <a href="#">If yes, submit an IT Project Request Form</a>	No
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**Surveillance Technology:**

Do you believe any of the hardware or software to be considered surveillance technology? <a href="#">Surveillance technology is defined in MGO Sec. 23.63(2).</a> If yes, please reach out to Sarah Edgerton prior to submitting your budget request.	No
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**In addition to IT costs, projects/programs may have other operational impacts. Over the next six years, will the project/program require any of the following:**

Facilities/land maintenance?	No
Vehicle setup or maintenance costs?	No
External management or consulting contracts?	No
How many additional FTE positions required for ongoing operations of this project/program?	0.00

**Estimate the project/program annual operating costs**

Description - please detail operating costs by major where available	Annual Costs

# 2024 Capital Improvement Plan

## Program Budget Proposal

### Identifying Information

Agency	<input type="text" value="Water Utility"/>	New or Existing Project	<input type="text" value="Existing"/>
Proposal Name	<input type="text" value="Unit Well Rehab Program"/>	Project Type	<input type="text" value="Program"/>
Project Number	<input type="text" value="12341"/>		
2024 Project Number	<input type="text" value="14681"/>		

#### Previous Description

This program is for the 10 year unit well upgrade projects as recommended by the Wisconsin Department of Natural Resources. The goal of this program is to ensure that all unit wells are functioning at an efficient level and to reduce annual maintenance costs. Progress will be measured by reduction of maintenance costs, fewer unit well failures, and compliance with the 10 year schedule.

#### New or Updated Description

### Alignment with Strategic Plans and Citywide Priorities

Citywide Element	<input type="text" value="Green and Resilient"/>
Strategy	<input type="text" value="Protect Madison's water supply and infrastructure to provide safe clean drinking water."/>

#### Describe how this project/program advances the Citywide Element

This program keeps our water supply capacities at peak levels which is important for fire protection and safe clean drinking water.



Does this project/program advance goals in a Citywide agenda or strategic plan other than Imagine Madison (e.g. Climate Forward, Housing Forward, Metro Forward, Vision Zero)?

Yes

If yes, specify which plan(s) the project/program would advance and describe how the project/program will help the City meet its strategic goals.

This program fits into our Asset Management plan and is for the 10 year unit well maintenance that is recommended by the WIDNR. The goal of this program is to ensure that all unit wells are functioning reliably, efficiently, and to reduce annual maintenance costs.

## Racial Equity and Social Justice

We are continuing our efforts to articulate and prioritize racial equity and social justice in the City's budget and operations. Please respond to the following questions and incorporate these responses into your budget narrative to ensure racial equity is included in decision-making.

Is the proposed project/program primarily focused on maintenance or repair?

Yes

Describe how routine maintenance and/or scheduled repair considers equity and quality of life for residents. Describe how you use an equity lens to prioritize maintenance and/or repair projects.

All Water Utility customers benefit from this program that keeps our water supply capacities at peak levels which is important for fire protection and safe clean drinking water.

Is the proposed budget or budget change related to a recommendation from a Neighborhood Resource Team (NRT)?

No

If yes, please identify the specific NRT and recommendation. Be as specific as possible.

## Climate Resilience and Sustainability

Does this project/program improve the city's climate resilience or sustainability by addressing climate change impacts, reducing GHG emissions, improving energy efficiency, growing a climate-friendly economy, or reducing the environmental impact of city assets or operations?

Yes

If yes, describe how

This improves the City's climate and sustainability goals by rehabilitating or replacing aging pumps to ensure the deep wells are operating efficiently thus reducing energy and maintenance costs throughout the system.

## Budget Information

### Requested Budget by Funding Source

Funding Source	2024	2025	2026	2027	2028	2029
Reserves Applied (Water)	\$ 371,000	\$ 382,000	\$ 393,000	\$ 405,000	\$ 417,000	\$ 430,000
<b>Total</b>	<b>\$ 371,000</b>	<b>\$ 382,000</b>	<b>\$ 393,000</b>	<b>\$ 405,000</b>	<b>\$ 417,000</b>	<b>\$ 430,000</b>

### Requested Budget by Expense Type

Expense Type	2024	2025	2026	2027	2028	2029
Machinery and Equipment	\$ 371,000	\$ 382,000	\$ 393,000	\$ 405,000	\$ 417,000	\$ 430,000
<b>Total</b>	<b>\$ 371,000</b>	<b>\$ 382,000</b>	<b>\$ 393,000</b>	<b>\$ 405,000</b>	<b>\$ 417,000</b>	<b>\$ 430,000</b>

Explain any changes from the 2023 CIP in the proposed funding for this project/program

If TIF or Impact Fee are a requested funding source, which district(s)

District/Detail	2024	2025	2026	2027	2028	2029

If TIF is a requested funding source, is this request included in an approved TIF project plan?

If the proposal includes building/ facility expenses, has the proposal been reviewed by City Engineering Facilities?

If no, explain how you developed the facilities cost estimate for the budget request.

## Project Schedule and Location

Complete the table below for each year of requested funding. Detail the minor projects that will occur and provide location detail when necessary. If detailed project plans are not available, explain why and when this information will be available.

Year	Project Name	Cost	Location	Alder District
2024	UW #6	\$ 124,000	2757 University Ave	5
2024	UW #13	\$ 124,000	1201 Wheeler Rd	18
2024	UW #28	\$ 123,000	8210 Old Sauk Rd	9
2025	UW #7	\$ 127,000	1613 N Sherman Ave	12
2025	UW #12	\$ 127,000	501 S Whitney Way	11
2025	UW #16	\$ 128,000	6706 Mineral Point Rd	19
2026	UW #19	\$ 131,000	2526 Lake Mendota Dr	5
2026	UW #25	\$ 131,000	5415 Queensbridge Rd	3
2026	UW #14	\$ 131,000	5130 University Ave	19
2027	UW #9	\$ 135,000	4724 Spaanem Ave	15
2027	UW #26	\$ 135,000	910 High Point Rd	1
2027	UW #27	\$ 135,000	18 N Randall Ave	5
2028	UW #31	\$ 139,000	4901 Tradewinds Parkway	16
2028	UW #29	\$ 139,000	829 N Thompson Dr	17
2028	UW #8	\$ 139,000	3206 Lakeland Ave	10
2029	UW #11	\$ 143,000	102 Dempsey Rd	15
2029	UW #17	\$ 143,000	201 S Hancock St	4
2029	UW #18	\$ 144,000	1925 S Park St	14

## Operating Costs

**Over the next six years, will the project/program require any of the following IT resources?**

Electronic hardware that will be connected to a City device in any manner, including wireless, bluetooth, NFC, etc.?	No
Software (either local or in the cloud)?	No
A new website or changes to an existing website?	No

**For projects/programs requesting new software/hardware:**

Have you submitted an IT project request form? <a href="#">IT Project Request Form</a>	No
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**Changes to existing hardware/software:**

Will any existing software or processes need to be modified to support this project/program or initiative? <a href="#">If yes, submit an IT Project Request Form</a>	No
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**Surveillance Technology:**

Do you believe any of the hardware or software to be considered surveillance technology? <a href="#">Surveillance technology is defined in MGO Sec. 23.63(2).</a> If yes, please reach out to Sarah Edgerton prior to submitting your budget request.	No
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**In addition to IT costs, projects/programs may have other operational impacts. Over the next six years, will the project/program require any of the following:**

Facilities/land maintenance?	No
Vehicle setup or maintenance costs?	No
External management or consulting contracts?	No
How many additional FTE positions required for ongoing operations of this project/program?	0.00

**Estimate the project/program annual operating costs**

Description - please detail operating costs by major where available	Annual Costs

# 2024 Capital Improvement Plan

## Program Budget Proposal

### Identifying Information

Agency	<input type="text" value="Water Utility"/>	New or Existing Project	<input type="text" value="Existing"/>
Proposal Name	<input type="text" value="Water Hydrants Program"/>	Project Type	<input type="text" value="Program"/>
Project Number	<input type="text" value="12385"/>		
2024 Project Number	<input type="text" value="14682"/>		

#### Previous Description

This program is for the annual raising, replacing and moving of water hydrants. The goal of this program is to maintain reliable service for fire suppression.

#### New or Updated Description

### Alignment with Strategic Plans and Citywide Priorities

Citywide Element	<input type="text" value="Neighborhoods and Housing"/>
Strategy	<input type="text" value="Create complete neighborhoods across the city where residents have access to transportation options and resources needed for daily living"/>

#### Describe how this project/program advances the Citywide Element

Water Utility will allow safer access and operations by replacing, raising, or relocating our aging fire hydrants. Water Utility will ensure that the citizens of Madison receive fair premiums for homeowners and commercial fire insurance by maintaining or improving our current ISO class 1 rating.

Does this project/program advance goals in a Citywide agenda or strategic plan other than Imagine Madison (e.g. Climate Forward, Housing Forward, Metro Forward, Vision Zero)?

Yes

If yes, specify which plan(s) the project/program would advance and describe how the project/program will help the City meet its strategic goals.

This program is for the annual raising, replacing, and moving fire hydrants. The goal of this program is to maintain reliable service for fire suppression. This program fits in with both our Master Plan and Asset Management Plan.

## Racial Equity and Social Justice

We are continuing our efforts to articulate and prioritize racial equity and social justice in the City’s budget and operations. Please respond to the following questions and incorporate these responses into your budget narrative to ensure racial equity is included in decision-making.

Is the proposed project/program primarily focused on maintenance or repair?

Yes

Describe how routine maintenance and/or scheduled repair considers equity and quality of life for residents. Describe how you use an equity lens to prioritize maintenance and/or repair projects.

This program will allow for safer access and operations by replacing, raising, or relocating our aging fire hydrants. We will ensure that the citizens of Madison receive fair premiums for homeowners and commercial fire insurance by maintaining our current ISO Class 1 rating.

Is the proposed budget or budget change related to a recommendation from a Neighborhood Resource Team (NRT)?

No

If yes, please identify the specific NRT and recommendation. Be as specific as possible.

## Climate Resilience and Sustainability

Does this project/program improve the city’s climate resilience or sustainability by addressing climate change impacts, reducing GHG emissions, improving energy efficiency, growing a climate-friendly economy, or reducing the environmental impact of city assets or operations?

No

If yes, describe how

## Budget Information

### Requested Budget by Funding Source

Funding Source	2024	2025	2026	2027	2028	2029
Reserves Applied (Water)	\$ 412,000	\$ 424,000	\$ 437,000	\$ 450,000	\$ 464,000	\$ 476,000
<b>Total</b>	<b>\$ 412,000</b>	<b>\$ 424,000</b>	<b>\$ 437,000</b>	<b>\$ 450,000</b>	<b>\$ 464,000</b>	<b>\$ 476,000</b>

### Requested Budget by Expense Type

Expense Type	2024	2025	2026	2027	2028	2029
Water Network	\$ 412,000	\$ 424,000	\$ 437,000	\$ 450,000	\$ 464,000	\$ 476,000
<b>Total</b>	<b>\$ 412,000</b>	<b>\$ 424,000</b>	<b>\$ 437,000</b>	<b>\$ 450,000</b>	<b>\$ 464,000</b>	<b>\$ 476,000</b>

Explain any changes from the 2023 CIP in the proposed funding for this project/program



If TIF or Impact Fee are a requested funding source, which district(s)

District/Detail	2024	2025	2026	2027	2028	2029

If TIF is a requested funding source, is this request included in an approved TIF project plan?

If the proposal includes building/ facility expenses, has the proposal been reviewed by City Engineering Facilities?

If no, explain how you developed the facilities cost estimate for the budget request.

## Project Schedule and Location

Complete the table below for each year of requested funding. Detail the minor projects that will occur and provide location detail when necessary. If detailed project plans are not available, explain why and when this information will be available.

Year	Project Name	Cost	Location	Alder District
2024	2024 Water Utility Hydrant Program	\$ 412,000	Citywide	Citywide
2025	2025 Water Utility Hydrant Program	\$ 424,000	Citywide	Citywide
2026	2026 Water Utility Hydrant Program	\$ 437,000	Citywide	Citywide
2027	2027 Water Utility Hydrant Program	\$ 450,000	Citywide	Citywide
2028	2028 Water Utility Hydrant Program	\$ 464,000	Citywide	Citywide
2029	2029 Water Utility Hydrant Program	\$ 476,000	Citywide	Citywide

## Operating Costs

**Over the next six years, will the project/program require any of the following IT resources?**

Electronic hardware that will be connected to a City device in any manner, including wireless, bluetooth, NFC, etc.?	No
Software (either local or in the cloud)?	No
A new website or changes to an existing website?	No

**For projects/programs requesting new software/hardware:**

Have you submitted an IT project request form? <a href="#">IT Project Request Form</a>	No
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**Changes to existing hardware/software:**

Will any existing software or processes need to be modified to support this project/program or initiative? <a href="#">If yes, submit an IT Project Request Form</a>	No
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**Surveillance Technology:**

Do you believe any of the hardware or software to be considered surveillance technology? <a href="#">Surveillance technology is defined in MGO Sec. 23.63(2).</a> If yes, please reach out to Sarah Edgerton prior to submitting your budget request.	No
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**In addition to IT costs, projects/programs may have other operational impacts. Over the next six years, will the project/program require any of the following:**

Facilities/land maintenance?	No
Vehicle setup or maintenance costs?	No
External management or consulting contracts?	No
How many additional FTE positions required for ongoing operations of this project/program?	0.00

**Estimate the project/program annual operating costs**

Description - please detail operating costs by major where available	Annual Costs

# 2024 Capital Improvement Plan

## Program Budget Proposal

### Identifying Information

Agency	<input type="text" value="Water Utility"/>	New or Existing Project	<input type="text" value="Existing"/>
Proposal Name	<input type="text" value="Water Mains - New"/>	Project Type	<input type="text" value="Program"/>
Project Number	<input type="text" value="12507"/>		
2024 Project Number	<input type="text" value="14676"/>		

#### Previous Description

This program is for installing new water mains throughout the City. The goal of the program is to strengthen and expand the existing distribution system, improve water pressure, improve fire protection, allow transfer of water between pressure zones, and to serve the growing areas of the City. Newly installed mains include hydraulic improvements consistent with the Water Utility Master Plan.

#### New or Updated Description

### Alignment with Strategic Plans and Citywide Priorities

Citywide Element	<input type="text" value="Green and Resilient"/>
Strategy	<input type="text" value="Protect Madison's water supply and infrastructure to provide safe clean drinking water."/>

#### Describe how this project/program advances the Citywide Element

This program extends and hydraulically improves the existing water system by installing new mains to meet established Utility Level-of Service for water distribution system pipeline infrastructure.

Does this project/program advance goals in a Citywide agenda or strategic plan other than Imagine Madison (e.g. Climate Forward, Housing Forward, Metro Forward, Vision Zero)?

Yes

If yes, specify which plan(s) the project/program would advance and describe how the project/program will help the City meet its strategic goals.

The proposed "2024 Water Mains New" projects extend new water mains to improve water system hydraulics, pressures, fire protection, and support ongoing development and water supply/facility improvements. These projects occur in conjunction with associated roadway construction projects or as stand-alone water main improvements consistent with infrastructure priorities identified in in the Water Utility Master Plan.

## Racial Equity and Social Justice

We are continuing our efforts to articulate and prioritize racial equity and social justice in the City's budget and operations. Please respond to the following questions and incorporate these responses into your budget narrative to ensure racial equity is included in decision-making.

Is the proposed project/program primarily focused on maintenance or repair?

No

For projects/programs that are not specifically focused on maintenance and repair 1) what specific inequities does this program intend to address? How and for whom? 2) What data helped shape your proposal? Data may include qualitative and quantitative data such as demographic, qualified census tracts, environmental justice areas, specific recommendations from a Racial Equity and Social Justice Analysis, or other sources.

This program funds new water main extensions to help strengthen the distribution system, improve pressures and fire protection, allow transfer of water between system zones, and serve new developments beyond the extends of the existing service are, City-wide and in compliance with City of Madison development policies and all applicable neighborhood development plans. New water main extension projects may include assessable improvements or connection fees, so project location related to Environmental Justice Areas is a consideration for balancing project cost vs. project need. Projects are coordinated amongst all City Public Works agencies and local representatives/public improvement needs. The objective is to fairly distribute improvements City-wide and balance improvements to include work within Environmental Justice Areas and Neighborhood Development Plans whenever possible, and minimize project cost impacts which may create financial burdens in lower income areas.

Is the proposed budget or budget change related to a recommendation from a Neighborhood Resource Team (NRT)?

No

If yes, please identify the specific NRT and recommendation. Be as specific as possible.

## Climate Resilience and Sustainability

Does this project/program improve the city's climate resilience or sustainability by addressing climate change impacts, reducing GHG emissions, improving energy efficiency, growing a climate-friendly economy, or reducing the environmental impact of city assets or operations?

No

If yes, describe how

## Budget Information

### Requested Budget by Funding Source

Funding Source	2024	2025	2026	2027	2028	2029
Reserves Applied (Water)	\$ 89,000	\$ 1,070,000	\$ 1,696,000	\$ 3,294,000	\$ 3,039,000	\$ 3,192,000
<b>Total</b>	<b>\$ 89,000</b>	<b>\$ 1,070,000</b>	<b>\$ 1,696,000</b>	<b>\$ 3,294,000</b>	<b>\$ 3,039,000</b>	<b>\$ 3,192,000</b>

### Requested Budget by Expense Type

Expense Type	2024	2025	2026	2027	2028	2029
Water Network	\$ 89,000	\$ 1,070,000	\$ 1,696,000	\$ 3,294,000	\$ 3,039,000	\$ 3,192,000
<b>Total</b>	<b>\$ 89,000</b>	<b>\$ 1,070,000</b>	<b>\$ 1,696,000</b>	<b>\$ 3,294,000</b>	<b>\$ 3,039,000</b>	<b>\$ 3,192,000</b>

Explain any changes from the 2023 CIP in the proposed funding for this project/program

This program has increased from the 2023 CIP due to expected increase in projects in the out years. Out year project and budget estimates are preliminary and are subject to change.

If TIF or Impact Fee are a requested funding source, which district(s)

District/Detail	2024	2025	2026	2027	2028	2029

If TIF is a requested funding source, is this request included in an approved TIF project plan?

If the proposal includes building/ facility expenses, has the proposal been reviewed by City Engineering Facilities?

If no, explain how you developed the facilities cost estimate for the budget request.

## Project Schedule and Location

Complete the table below for each year of requested funding. Detail the minor projects that will occur and provide location detail when necessary. If detailed project plans are not available, explain why and when this information will be available.

Year	Project Name	Cost	Location	Alder District
2024	Blue Harvest Ln, Feathers Edge Dr, Treetops Dr (new street)	\$ 18,000	Feathers Edge Dr-Meadow Rd, Blue Harvest Ln-83'SW of Soaring Sky Run, Blue Harvest Ln - 1100' SE	1
2024	Atticus Way	\$ 18,000	619' S of Verona Rd Frontage Rd - Red Arrow Trl	10
2024	Lien Rd Water Main Extension	\$ 24,000	Interstate 90/94 - Felland Rd	17
2024	Unallocated - System Improvements / MWU Crew Projects (City-Wide)	\$ 29,000	Citywide	Citywide
2025	Lien Rd Water Main Extension	\$ 1,009,000	Interstate 90/94 - Felland Rd	17
2025	Unallocated - System Improvements / MWU Crew Projects (City-Wide)	\$ 61,000	Citywide	Citywide
2026	Unallocated - System Improvements / MWU Crew Projects (City-Wide)	\$ 1,696,000	Citywide	Citywide
2027	Reiner Rd	\$ 1,068,000	Standing Butte Rd - Pegasus Pl	17
2027	Unallocated - System Improvements / MWU Crew Projects (City-Wide)	\$ 2,226,000	Citywide	Citywide
2028	Unallocated - System Improvements / MWU Crew Projects (City-Wide)	\$ 3,039,000	Citywide	Citywide
2029	Unallocated - System Improvements / MWU Crew Projects (City-Wide)	\$ 3,192,000	Citywide	Citywide



## Operating Costs

**Over the next six years, will the project/program require any of the following IT resources?**

Electronic hardware that will be connected to a City device in any manner, including wireless, bluetooth, NFC, etc.?	No
Software (either local or in the cloud)?	No
A new website or changes to an existing website?	No

**For projects/programs requesting new software/hardware:**

Have you submitted an IT project request form? <a href="#">IT Project Request Form</a>	No
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**Changes to existing hardware/software:**

Will any existing software or processes need to be modified to support this project/program or initiative? <a href="#">If yes, submit an IT Project Request Form</a>	No
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**Surveillance Technology:**

Do you believe any of the hardware or software to be considered surveillance technology? <a href="#">Surveillance technology is defined in MGO Sec. 23.63(2).</a> If yes, please reach out to Sarah Edgerton prior to submitting your budget request.	No
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**In addition to IT costs, projects/programs may have other operational impacts. Over the next six years, will the project/program require any of the following:**

Facilities/land maintenance?	No
Vehicle setup or maintenance costs?	No
External management or consulting contracts?	No
How many additional FTE positions required for ongoing operations of this project/program?	0.00

**Estimate the project/program annual operating costs**

Description - please detail operating costs by major where available	Annual Costs
No additional operating costs are anticipated as a result of the proposed improvements.	n/a

# 2024 Capital Improvement Plan

## Program Budget Proposal

### Identifying Information

Agency	<input type="text" value="Water Utility"/>	New or Existing Project	<input type="text" value="New"/>
Proposal Name	<input type="text" value="Water Mains Replacement"/>	Project Type	<input type="text" value="Program"/>
Project Number	<input type="text" value="11893"/>		
2024 Project Number	<input type="text" value="14677"/>		

#### Previous Description

New request. No current description

#### New or Updated Description

This program is for replacing existing water mains in conjunction with the reconstruction of roads as part of the City's Engineering- Major Streets Reconstruct Streets and Pavement Management program. In 2024 there is one program for all the water main replacements. In previous budgets there were three programs that covered this work and they were, Water Mains - Pavement Management, Water Mains - Pipe Lining, and Water Mains Reconstruct Streets. The goal of the program is to update the water infrastructure, diminishing the risk of pipe failure and to extend the useful life of the pipes at a lower cost than replacing the pipe. As for the pipe lining portion of this project it measures the miles of pipe rehabilitated using the lining method. The program aligns with the Water Utility's goal to replace or rehabilitate over 400 miles of aging pipe within the City over a 40-year period to renew and maintain the system.

### Alignment with Strategic Plans and Citywide Priorities

Citywide Element	<input type="text" value="Green and Resilient"/>
Strategy	<input type="text" value="Protect Madison's water supply and infrastructure to provide safe clean drinking water."/>

#### Describe how this project/program advances the Citywide Element

This program repairs and/or replaces existing undersized or deteriorated water mains to meet established Utility Level-of Service for water main infrastructure.

Does this project/program advance goals in a Citywide agenda or strategic plan other than Imagine Madison (e.g. Climate Forward, Housing Forward, Metro Forward, Vision Zero)?

Yes

If yes, specify which plan(s) the project/program would advance and describe how the project/program will help the City meet its strategic goals.

This program supports the replacement and upgrade of deficient water mains in coordination with the City's Street Reconstruction and Pavement Management Programs, or as stand-alone water main replacement projects located within major roadways. This program typically replaces deteriorated, undersized, water mains which are difficult to maintain or have imposed significant maintenance/repair costs. This program also funds the rehabilitates the existing deteriorated water mains which may not necessitate complete replacement by means of open-trench pipe replacement. Rehabilitation is often favorable in situations where the existing deteriorated main is of sufficient diameter to

## Racial Equity and Social Justice

We are continuing our efforts to articulate and prioritize racial equity and social justice in the City's budget and operations. Please respond to the following questions and incorporate these responses into your budget narrative to ensure racial equity is included in decision-making.

Is the proposed project/program primarily focused on maintenance or repair?

Yes

Describe how routine maintenance and/or scheduled repair considers equity and quality of life for residents. Describe how you use an equity lens to prioritize maintenance and/or repair projects.

This program replaces deteriorated, undersized, water mains in conjunction with planned roadway improvements, City-wide. This program also funds the rehabilitation of deteriorated water mains which may not necessitate full open-trench replacement. Madison Water Utility utilizes and Asset Management program to establish assess and define Core Risk metrics for all water mains in the system. Existing mains are rated to establish their probability of failure and their consequence of failure. The cost of water main replacements are distributed equally amongst the entire Utility customer base. Projects are coordinated amongst all City Public Works agencies and local representatives/public improvement needs. The objective is to fairly distribute improvements City-wide and balance improvements to include work within Environmental Justice Areas and Neighborhood Development Plans whenever possible.

Is the proposed budget or budget change related to a recommendation from a Neighborhood Resource Team (NRT)?

No

If yes, please identify the specific NRT and recommendation. Be as specific as possible.

## Climate Resilience and Sustainability

Does this project/program improve the city's climate resilience or sustainability by addressing climate change impacts, reducing GHG emissions, improving energy efficiency, growing a climate-friendly economy, or reducing the environmental impact of city assets or operations?

No

If yes, describe how

## Budget Information

### Requested Budget by Funding Source

Funding Source	2024	2025	2026	2027	2028	2029
Miscellaneous Revenue	\$ 4,459,000	\$ 4,970,000	\$ 9,491,000	\$ 10,000,000	\$ 13,855,000	\$ 15,000,000
Reserves Applied (Water)	\$ 1,250,000	\$ 1,250,000	\$ 2,500,000	\$ 2,500,000	\$ 3,750,000	\$ 3,750,000
<b>Total</b>	<b>\$ 5,709,000</b>	<b>\$ 6,220,000</b>	<b>\$ 11,991,000</b>	<b>\$ 12,500,000</b>	<b>\$ 17,605,000</b>	<b>\$ 18,750,000</b>

### Requested Budget by Expense Type

Expense Type	2024	2025	2026	2027	2028	2029
Water Network	\$ 5,709,000	\$ 6,220,000	\$ 11,991,000	\$ 12,500,000	\$ 17,605,000	\$ 18,750,000
<b>Total</b>	<b>\$ 5,709,000</b>	<b>\$ 6,220,000</b>	<b>\$ 11,991,000</b>	<b>\$ 12,500,000</b>	<b>\$ 17,605,000</b>	<b>\$ 18,750,000</b>

### Explain any changes from the 2023 CIP in the proposed funding for this project/program

For the 2024 budget three programs were combined into one program. This program is the combination of Water Mains - Pavement Management, Water Main - Pipe Lining, and Water Mains - Reconstruct Streets. In December of 2022 the 2021 Rate Case was approved and part of that rate case included \$5 million of expense depreciation for water main replacements. The \$5 million covers the water mains portion of the portion of the projects and then the additional budget listed under the reserves applied line are to cover the hydrants and services for the projects. The expense depreciation increases in 2026 to accommodate the expected rate increases with future rate cases.

If TIF or Impact Fee are a requested funding source, which district(s)

District/Detail	2024	2025	2026	2027	2028	2029

If TIF is a requested funding source, is this request included in an approved TIF project plan?

If the proposal includes building/ facility expenses, has the proposal been reviewed by City Engineering Facilities?

If no, explain how you developed the facilities cost estimate for the budget request.

## Project Schedule and Location

Complete the table below for each year of requested funding. Detail the minor projects that will occur and provide location detail when necessary. If detailed project plans are not available, explain why and when this information will be available.

Year	Project Name	Cost	Location	Alder District
2024	Evergreen Ave, Center Ave, Willard Ave, Ohio Ave	\$ 557,000	Center Ave - Oakridge Ave; Dunning St - Hudson Ave; Evergreen Ave - Ohio Ave; Center Ave - Willard Ave	15
2024	Doncaster Dr, Beverly Rd, Danbury St	\$ 498,000	Danbury St - Seminole Hwy; Whenona Dr - Seminole Hwy; Mohawk Dr - Doncaster Dr	10
2024	Rutledge St	\$ 501,000	Riverside Dr - Division St	6
2024	Knutson Dr	\$ 101,000	Green Ave to Northport Dr	18
2024	Lake Mendota Dr, Norman Way	\$ 75,000	143' W of Spring Ct - Epworth Ct, Lake Mendota Dr - E End	19
2024	N Franklin Ave, Stevens St	\$ 769,000	Regent St - University Ave, Grand Ave - N Franklin Ave	5
2024	W Washington Ave, S Henry St	\$ 185,000	S Fairchild St - S Broom St, W Washington Ave - W Main St	4
2024	Starker Ave	\$ 1,000,000	Woodvale Dr - Droster Rd	16
2024	21C3B UW Madison - Engineering Dr, Randall Ave, Dayton St Utilities	\$ 462,000	Engineering Dr - W Dayton St, N Randall Ave - N Charter St	5&8
2024	Zone 6E-4 Resiliency	\$ 155,000		16
2024	CIPP Rehabilitation of Water Mains 2024	\$ 1,019,000	Citywide	Citywide
2024	Temporary Bypass System Materials - Inventory/Replacement	\$ 49,000	Citywide	Citywide
2024	I-90 Crossing at Ho Chunk Site	\$ 49,000		16
2024	Unallocated - System Improvements / MWU Crew Projects (City-Wide)	\$ 289,000	Citywide	Citywide
2025	Pontiac Tr, Nokomis Ct, Rosewood Cir, Boston Ct	\$ 81,000	Hammersley Rd - Mohican Pass; Pontiac Tr - North End; Pontiac Tr - South End; Pontiac Tr - North End	10
2025	Davidson St, Park Ct, Maher Ave, Gary St, Drexel Ave, Monona Ct	\$ 684,000	Maier Ave - Dempsey Rd (x2), Cottage Grove Rd - Davies St, Dempsey Rd - Elinor St, Lake Edge Blvd - Davies St, Drexel Ave - Maher Ave	15
2025	MacArthur Rd, Larson Ct, Sycamore Ave, MacArthur Ct	\$ 686,000	E. Wash Ave - South End; MacArthur Rd - West End; MacArthur Rd - 500' East; MacArthur Rd - North End	3
2025	Farwell St, South Ct, North Ct	\$ 304,000	Milwaukee St - C & NW RR; Farwell St - Corry St; Farwell St - Corry St	15
2025	Dawes St, Lansing St, Leon St, Richard St	\$ 121,000	Lansing St - Walter St, Milwaukee St - Richard St, Starkweather Dr - Farrell St	15
2025	Gilbert Rd	\$ 51,000	Raymond Rd - Kroncke Dr	10
2025	Ozark Trl, Antietam Ln, Shenandoah Way, Jetty Dr, Natchez Pl	\$ 304,000	Jetty Dr - Old Sauk Rd, Natchez Pl - Blue Ridge Pkwy, Jetty Dr - N Yellowstone Dr, Inner Dr - E End, Jetty Dr - N End	19
2025	S Hancock St, E Main St, E Wilson St	\$ 484,000	E Washington Ave - E Wilson St, S Webster St - S Blair St, S Hancock St - S Franklin St	6
2025	Merril Springs Rd, Tomahawk Trl, Flambeau Rd	960000	302' N of Flambeau, University Ave - Tomahawk Trl	19
2025	Camilla Rd, Dolores Ct, Loretta Ct, Christine Ln	202000	Dolores Dr - Vondron Rd, Dolores Dr - Vondron Rd, Loretta Ln - Christine Ln, Camilla Rd - Dolores Dr	16
2025	CIPP Rehabilitation of Water Mains 2025	1126000	Citywide	Citywide
2025	Unallocated - System Improvements / MWU Crew Projects (City-Wide)	1217000	Citywide	Citywide
2026	Jefferson St, Oakland Ave, Grant St	637000	Oakland Ave - Grant St; Madison St - Adams St; Madison St - Jefferson St	13
2026	Elmside Blvd, Sommers Ave, Center Ave	762000	Atwood Ave - Oakridge Ave; Miller Ave - Elmside Blvd; Miller Ave - Elmside Blvd	15
2026	Maier Ave, Douglas Trl	637000	Pflaum Rd - Tompkins Dr, Joylyne Dr - Camden Rd	15
2026	Norman Way, Wood Cir	637000	University Ave - Lake Mendota Dr; Norman	19
2026	Lake View Ave, Hanover St, West Ln, East Ln	1188000	Drewry Ln; Lake View Ave - North End; Lake View Ave - North End	18
2026	Sherman Ave, McGuire St	423000	McGuire St - N Sherman Ave; Sherman Ave - Fordem Ave	12
2026	Hawthorne Ct	423000	University Ave - State St	2
2026	E Main St	1272000	S Blair St - S Ingersoll St	6
2026	Regent St	667000	N Park St - N Randall Ave	8&13
2026	CIPP Rehabilitation of Water Mains 2026	2376000	Undistributed (City-Wide, Locations Under Development)	Citywide
2026	Unallocated - System Improvements / MWU Crew Projects (City-Wide)	2969000	Citywide	Citywide

2027	Dawes St, Leon St	379000	Starkweather Dr - Lansing St, Milwaukee St - Starkweather Dr	15
2027	Reiner Rd	891000	Standing Butte Rd - Pegasus Pl	3
2027	Maier Ave, Morningside Ave	445000	Davies St - Buckeye Rd, Maier Ave - Camden Rd	15
2027	Groveland Ter, Crestview Dr, Herro Ln, Dixie Ln	445000	Tompkins Dr - Crewstview Dr, Indian Trce -	15
2027	Reindahl Ave, Schmedeman Ave, Rowland Ave, Graceland Ave, Ridgeway Ave	401000	E Washington Ave - Graceland Ave (x3), Rei	12
2027	Hickory St	401000	W Olin Ave - Pine St	13
2027	Merrill Springs Rd	535000	Flambeau Rd - Lake Mendota Dr	19
2027	S Franklin Ave	535000	Regent St - Hammersley Ave	5
2027	Regent St	891000	Monroe St - N Randall Ave	5
2027	CIPP Rehabilitation of Water Mains 2027	2494000	Undistributed (City-Wide, Locations Under	Citywide
2027	Unallocated - System Improvements / MWU Crew Projects (City-Wide)	5083000	Citywide	Citywide
2028	Farley Ave	654000	Regent St - Park Pl	5
2028	Mayfield Ln, Hanover St, Longview St, Kenwood St	702000	Kenwood St - N Sherman Ave, Lake View Ave - Mayfield Ln, Kenwood St - Mayfield	18
2028	Glenwood St, Gregory St	656000	Gregory St - Cross St, Glenwood St - Odana	13
2028	Old Sauk Rd	678000	N Pleasant View Rd - Schewe Rd	9
2028	Yahara Pl, Walton Pl, Russell St	702000	Walton Pl - Dunning St, Rutledge St - Yahara	6
2028	Capital Ave	1168000	University Ave - Lake Mendota Dr	19
2028	S Hillside Ter	935000	Regent St - Bagley Pkwy	5
2028	Wendy Ln	1402000	Starker Ave - E Buckeye Rd	16
2028	Woodvale Dr	702000	Starker Ave - E Buckeye Rd	16
2028	CIPP Rehabilitation of Water Mains 2028	3928000	Undistributed (City-Wide, Locations Under Development)	
2028	Unallocated - System Improvements / MWU Crew Projects (City-Wide)	6078000	Citywide	Citywide
2029	Valley View Rd	1473000	South Point Rd - Pioneer Ave	1
2029	Valley View Rd	1473000	South Point Rd - Boyer	1
2029	Carver St, Dodge St, Irwin Pl, Dickson Pl, Dunn Pl, Frazier Pl, Catlin Pl, Floyd Pl, Field St, Martin St	2454000	Fish Hatchery Rd - Martin St, Fish Hatchery	13
2029	Felland Rd	1420000	Commercial Ave - 201' S of Tranquility Trl	3
2029	CIPP Rehabilitation of Water Mains 2029	4124000	Undistributed (City-Wide, Locations Under Development)	Citywide
2029	Unallocated - System Improvements / MWU Crew Projects (City-Wide)	7806000	Citywide	Citywide

## Operating Costs

**Over the next six years, will the project/program require any of the following IT resources?**

Electronic hardware that will be connected to a City device in any manner, including wireless, bluetooth, NFC, etc.?	No
Software (either local or in the cloud)?	No
A new website or changes to an existing website?	No

**For projects/programs requesting new software/hardware:**

Have you submitted an IT project request form? <a href="#">IT Project Request Form</a>	No
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**Changes to existing hardware/software:**

Will any existing software or processes need to be modified to support this project/program or initiative? <a href="#">If yes, submit an IT Project Request Form</a>	No
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**Surveillance Technology:**

Do you believe any of the hardware or software to be considered surveillance technology? <a href="#">Surveillance technology is defined in MGO Sec. 23.63(2).</a> If yes, please reach out to Sarah Edgerton prior to submitting your budget request.	No
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**In addition to IT costs, projects/programs may have other operational impacts. Over the next six years, will the project/program require any of the following:**

Facilities/land maintenance?	No
Vehicle setup or maintenance costs?	No
External management or consulting contracts?	No
How many additional FTE positions required for ongoing operations of this project/program?	0.00

**Estimate the project/program annual operating costs**

Description - please detail operating costs by major where available	Annual Costs
No additional operating costs are anticipated as a result of these proposed improvements.	n/a



# 2024 Capital Improvement Plan

## Program Budget Proposal

### Identifying Information

Agency	<input type="text" value="Water Utility"/>	New or Existing Project	<input type="text" value="Existing"/>
Proposal Name	<input type="text" value="Water Meter and Fixed Network Program"/>	Project Type	<input type="text" value="Program"/>
Project Number	<input type="text" value="12340"/>		
2024 Project Number	<input type="text" value="14679"/>		

#### Previous Description

This program is for water meter and fixed network advanced metering infrastructure (AMI) improvements. The goal of the program is to provide accurate consumption data for billing purposes. Progress will be measured by comparing the meter accuracy testing results against the Public Service Commission of Wisconsin rules and regulations as well as monitoring the total non-revenue water volume.

#### New or Updated Description

### Alignment with Strategic Plans and Citywide Priorities

Citywide Element	<input type="text" value="Green and Resilient"/>
Strategy	<input type="text" value="Protect Madison's water supply and infrastructure to provide safe clean drinking water."/>

#### Describe how this project/program advances the Citywide Element

The Meter and Fixed Network Program allows for responsible stewardship of our local water resource by facilitating conservation of water pumped, consumed and lost. Acquiring real time and accurate water consumption data ensures accurate municipal services billing to all customers and allows customers to monitor consumption to make educated decisions on their water use habits.

Does this project/program advance goals in a Citywide agenda or strategic plan other than Imagine Madison (e.g. Climate Forward, Housing Forward, Metro Forward, Vision Zero)?

No

If yes, specify which plan(s) the project/program would advance and describe how the project/program will help the City meet its strategic goals.

## Racial Equity and Social Justice

We are continuing our efforts to articulate and prioritize racial equity and social justice in the City's budget and operations. Please respond to the following questions and incorporate these responses into your budget narrative to ensure racial equity is included in decision-making.

Is the proposed project/program primarily focused on maintenance or repair?

Yes

Describe how routine maintenance and/or scheduled repair considers equity and quality of life for residents. Describe how you use an equity lens to prioritize maintenance and/or repair projects.

The Public Service Commission of Wisconsin requires all utilities to test and/or change all meters on a scheduled basis. Madison Water Utility is allowed to test on a random basis due to our AMI system. Therefore, the testing and changing of meters is not predetermined by the Water Utility.

Is the proposed budget or budget change related to a recommendation from a Neighborhood Resource Team (NRT)?

No

If yes, please identify the specific NRT and recommendation. Be as specific as possible.

## Climate Resilience and Sustainability

Does this project/program improve the city's climate resilience or sustainability by addressing climate change impacts, reducing GHG emissions, improving energy efficiency, growing a climate-friendly economy, or reducing the environmental impact of city assets or operations?

No

If yes, describe how

## Budget Information

### Requested Budget by Funding Source

Funding Source	2024	2025	2026	2027	2028	2029
Reserves Applied (Water)	\$ 539,000	\$ 552,000	\$ 566,000	\$ 580,000	\$ 595,000	\$ 610,000
<b>Total</b>	<b>\$ 539,000</b>	<b>\$ 552,000</b>	<b>\$ 566,000</b>	<b>\$ 580,000</b>	<b>\$ 595,000</b>	<b>\$ 610,000</b>

### Requested Budget by Expense Type

Expense Type	2024	2025	2026	2027	2028	2029
Machinery and Equipment	\$ 539,000	\$ 552,000	\$ 566,000	\$ 580,000	\$ 595,000	\$ 610,000
<b>Total</b>	<b>\$ 539,000</b>	<b>\$ 552,000</b>	<b>\$ 566,000</b>	<b>\$ 580,000</b>	<b>\$ 595,000</b>	<b>\$ 610,000</b>

Explain any changes from the 2023 CIP in the proposed funding for this project/program

If TIF or Impact Fee are a requested funding source, which district(s)

District/Detail	2024	2025	2026	2027	2028	2029

If TIF is a requested funding source, is this request included in an approved TIF project plan?

If the proposal includes building/ facility expenses, has the proposal been reviewed by City Engineering Facilities?

If no, explain how you developed the facilities cost estimate for the budget request.

## Project Schedule and Location

Complete the table below for each year of requested funding. Detail the minor projects that will occur and provide location detail when necessary. If detailed project plans are not available, explain why and when this information will be available.

Year	Project Name	Cost	Location	Alder District
2024	5/8", 3/4", & 1" Meter Purchase/Set/Change	\$ 303,000	Citywide	Citywide
2024	1.5" & 2" Meter Purchase/Set/Change	\$ 162,000	Citywide	Citywide
2024	3" and Larger Meter Purchase/Set/Change	\$ 54,000	Citywide	Citywide
2024	Fixed Network	\$ 20,000	Citywide	Citywide
2025	5/8", 3/4", & 1" Meter Purchase/Set/Change	\$ 310,000	Citywide	Citywide
2025	1.5" & 2" Meter Purchase/Set/Change	\$ 166,000	Citywide	Citywide
2025	3" and Larger Meter Purchase/Set/Change	\$ 55,000	Citywide	Citywide
2025	Fixed Network	\$ 21,000	Citywide	Citywide
2026	5/8", 3/4", & 1" Meter Purchase/Set/Change	\$ 318,000	Citywide	Citywide
2026	1.5" & 2" Meter Purchase/Set/Change	\$ 170,000	Citywide	Citywide
2026	3" and Larger Meter Purchase/Set/Change	\$ 56,000	Citywide	Citywide
2026	Fixed Network	\$ 22,000	Citywide	Citywide
2027	5/8", 3/4", & 1" Meter Purchase/Set/Change	\$ 325,000	Citywide	Citywide
2027	1.5" & 2" Meter Purchase/Set/Change	\$ 174,000	Citywide	Citywide
2027	3" and Larger Meter Purchase/Set/Change	\$ 58,000	Citywide	Citywide
2027	Fixed Network	\$ 23,000	Citywide	Citywide
2028	5/8", 3/4", & 1" Meter Purchase/Set/Change	\$ 333,000	Citywide	Citywide
2028	1.5" & 2" Meter Purchase/Set/Change	\$ 179,000	Citywide	Citywide
2028	3" and Larger Meter Purchase/Set/Change	\$ 59,000	Citywide	Citywide
2028	Fixed Network	\$ 24,000	Citywide	Citywide
2029	5/8", 3/4", & 1" Meter Purchase/Set/Change	\$ 337,000	Citywide	Citywide
2029	1.5" & 2" Meter Purchase/Set/Change	\$ 184,000	Citywide	Citywide
2029	3" and Larger Meter Purchase/Set/Change	\$ 64,000	Citywide	Citywide
2029	Fixed Network	\$ 25,000	Citywide	Citywide

## Operating Costs

**Over the next six years, will the project/program require any of the following IT resources?**

Electronic hardware that will be connected to a City device in any manner, including wireless, bluetooth, NFC, etc.?	No
Software (either local or in the cloud)?	No
A new website or changes to an existing website?	No

**For projects/programs requesting new software/hardware:**

Have you submitted an IT project request form? <a href="#">IT Project Request Form</a>	No
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**Changes to existing hardware/software:**

Will any existing software or processes need to be modified to support this project/program or initiative? <a href="#">If yes, submit an IT Project Request Form</a>	No
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**Surveillance Technology:**

Do you believe any of the hardware or software to be considered surveillance technology? <a href="#">Surveillance technology is defined in MGO Sec. 23.63(2).</a> If yes, please reach out to Sarah Edgerton prior to submitting your budget request.	No
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**In addition to IT costs, projects/programs may have other operational impacts. Over the next six years, will the project/program require any of the following:**

Facilities/land maintenance?	No
Vehicle setup or maintenance costs?	No
External management or consulting contracts?	No
How many additional FTE positions required for ongoing operations of this project/program?	0.00

**Estimate the project/program annual operating costs**

Description - please detail operating costs by major where available	Annual Costs

# 2024 Capital Improvement Plan

## Program Budget Proposal

### Identifying Information

Agency	<input type="text" value="Water Utility"/>	New or Existing Project	<input type="text" value="Existing"/>
Proposal Name	<input type="text" value="Water Utility Facility Improvements"/>	Project Type	<input type="text" value="Program"/>
Project Number	<input type="text" value="10440"/>		
2024 Project Number	<input type="text" value="14678"/>		

#### Previous Description

This program is for repairing and upgrading Water Utility facilities. The goal of the program is to maintain the facilities for reliable service and reducing emergency repairs. Progress is measured by tracking the number of emergency calls, facility outages, and accidents each year. Funding in 2023 is for fiber optic system installations and upgrades, control and instrumentation replacements and upgrades, cybersecurity upgrades, and other miscellaneous upgrades.

#### New or Updated Description

This program is for repairing and upgrading Water Utility facilities. The goal of the program is to maintain the facilities for reliable service and reducing emergency repairs. Progress is measured by tracking the number of emergency calls, facility outages, and accidents each year. Funding in 2024 is for fiber optic system installations and upgrades, control and instrumentation replacements and upgrades, cybersecurity upgrades, upgrading GPS system, and other miscellaneous upgrades.

### Alignment with Strategic Plans and Citywide Priorities

Citywide Element	<input type="text" value="Green and Resilient"/>
Strategy	<input type="text" value="Protect Madison's water supply and infrastructure to provide safe clean drinking water."/>

#### Describe how this project/program advances the Citywide Element

Provides for Madison Water Utility facility improvements necessary in providing sufficient clean drinking water to City of Madison residents.

Does this project/program advance goals in a Citywide agenda or strategic plan other than Imagine Madison (e.g. Climate Forward, Housing Forward, Metro Forward, Vision Zero)?

Yes

If yes, specify which plan(s) the project/program would advance and describe how the project/program will help the City meet its strategic goals.

This program helps to advance Water's Asset Management Plan. The goal of this program is to maintain the facilities for reliable service and reducing emergency repairs.

## Racial Equity and Social Justice

We are continuing our efforts to articulate and prioritize racial equity and social justice in the City's budget and operations. Please respond to the following questions and incorporate these responses into your budget narrative to ensure racial equity is included in decision-making.

Is the proposed project/program primarily focused on maintenance or repair?

Yes

Describe how routine maintenance and/or scheduled repair considers equity and quality of life for residents. Describe how you use an equity lens to prioritize maintenance and/or repair projects.

Madison Water Utility formalized its Asset Management Program with the development of a Strategic Asset Management Plan. SAMP principles guide Madison Water Utility to consistently meet our established level of service goals at sustainable and responsible asset lifecycle costs and acceptable levels of risk. The plan is structured to incorporate racial equity as one component in a project's triple bottom line score. All Water Utility customers benefit from the transparent, data-driven process plan and prioritize capital project spending. Projects are driving by Madison Water Utility Board Policies and City, State, and Federal regulatory guidelines set by, for example the Wisconsin DNR and the PSC of Wisconsin.

Is the proposed budget or budget change related to a recommendation from a Neighborhood Resource Team (NRT)?

No

If yes, please identify the specific NRT and recommendation. Be as specific as possible.

## Climate Resilience and Sustainability

Does this project/program improve the city's climate resilience or sustainability by addressing climate change impacts, reducing GHG emissions, improving energy efficiency, growing a climate-friendly economy, or reducing the environmental impact of city assets or operations?

No

If yes, describe how



## Budget Information

### Requested Budget by Funding Source

Funding Source	2024	2025	2026	2027	2028	2029
Reserves Applied (Water)	\$ 2,248,000	\$ 2,316,000	\$ 2,385,000	\$ 2,457,000	\$ 2,530,000	\$ 2,606,000
<b>Total</b>	<b>\$ 2,248,000</b>	<b>\$ 2,316,000</b>	<b>\$ 2,385,000</b>	<b>\$ 2,457,000</b>	<b>\$ 2,530,000</b>	<b>\$ 2,606,000</b>

### Requested Budget by Expense Type

Expense Type	2024	2025	2026	2027	2028	2029
Machinery and Equipment	\$ 623,000	\$ 642,000	\$ 661,000	\$ 681,000	\$ 701,000	\$ 722,000
Building	\$ 1,625,000	\$ 1,674,000	\$ 1,724,000	\$ 1,776,000	\$ 1,829,000	\$ 1,884,000
<b>Total</b>	<b>\$ 2,248,000</b>	<b>\$ 2,316,000</b>	<b>\$ 2,385,000</b>	<b>\$ 2,457,000</b>	<b>\$ 2,530,000</b>	<b>\$ 2,606,000</b>

Explain any changes from the 2023 CIP in the proposed funding for this project/program

If TIF or Impact Fee are a requested funding source, which district(s)

District/Detail	2024	2025	2026	2027	2028	2029

If TIF is a requested funding source, is this request included in an approved TIF project plan?

If the proposal includes building/ facility expenses, has the proposal been reviewed by City Engineering Facilities?

If no, explain how you developed the facilities cost estimate for the budget request.

## Project Schedule and Location

Complete the table below for each year of requested funding. Detail the minor projects that will occur and provide location detail when necessary. If detailed project plans are not available, explain why and when this information will be available.

Year	Project Name	Cost	Location	Alder District
2024	Scada system Upgrades	\$ 31,000	Citywide	Citywide
2024	Fiber Optic System Installation and Upgrades	\$ 98,000	Citywide	Citywide
2024	Control & Instrumentation Replacement/Upgrades	\$ 148,000	Citywide	Citywide
2024	VFD Installs & MCC Upgrades	\$ 90,000	Citywide	Citywide
2024	Cybersecurity Upgrades	\$ 136,000	Citywide	Citywide
2024	Site Upgrades	\$ 120,000	Citywide	Citywide
2024	Various Olin Building/Site Improvements	\$ 500,000	Citywide	Citywide
2024	Unexpected Well and Booster Station Mechanical Failures	\$ 300,000	Citywide	Citywide
2024	Facility Safety and Security Upgrades	\$ 100,000	Citywide	Citywide
2024	Remodel of 2nd floor area clerk/outreach area	\$ 100,000	119 E Olin Ave	14
2024	GPS	\$ 125,000	Citywide	Citywide
2024	Flooring and Furniture at Olin	\$ 500,000	Citywide	Citywide
2025	Scada system Upgrades	\$ 32,000	Citywide	Citywide
2025	Fiber Optic System Installation and Upgrades	\$ 100,000	Citywide	Citywide
2025	Control & Instrumentation Replacement/Upgrades	\$ 150,000	Citywide	Citywide
2025	VFD Installs & MCC Upgrades	\$ 91,000	Citywide	Citywide
2025	Cybersecurity Upgrades	\$ 139,000	Citywide	Citywide
2025	Site Upgrades	\$ 130,000	Citywide	Citywide
2025	Various Olin Building/Site Improvements	\$ 400,000	Citywide	Citywide
2025	Unexpected Well and Booster Station Mechanical Failures	\$ 640,000	Citywide	Citywide
2025	Facility Safety and Security Upgrades	\$ 300,000	Citywide	Citywide
2025	Miscellaneous Facility Upgrade Projects	\$ 334,000	Citywide	Citywide
2026	Scada system Upgrades	\$ 34,000	Citywide	Citywide
2026	Fiber Optic System Installation and Upgrades	102000	Citywide	Citywide
2026	Control & Instrumentation Replacement/Upgrades	154000	Citywide	Citywide
2026	VFD Installs & MCC Upgrades	92000	Citywide	Citywide
2026	Cybersecurity Upgrades	144000	Citywide	Citywide
2026	Site Upgrades	135000	Citywide	Citywide
2026	Various Olin Building/Site Improvements	415000	Citywide	Citywide
2026	Unexpected Well and Booster Station Mechanical F:	650000	Citywide	Citywide
2026	Facility Safety and Security Upgrades	320000	Citywide	Citywide
2026	Miscellaneous Facility Upgrade Projects	339000	Citywide	Citywide
2027	Scada system Upgrades	36000	Citywide	Citywide
2027	Fiber Optic System Installation and Upgrades	105000	Citywide	Citywide
2027	Control & Instrumentation Replacement/Upgrades	155000	Citywide	Citywide
2027	VFD Installs & MCC Upgrades	95000	Citywide	Citywide
2027	Cybersecurity Upgrades	150000	Citywide	Citywide
2027	Site Upgrades	140000	Citywide	Citywide
2027	Various Olin Building/Site Improvements	425000	Citywide	Citywide
2027	Unexpected Well and Booster Station Mechanical F:	676000	Citywide	Citywide
2027	Facility Safety and Security Upgrades	330000	Citywide	Citywide
2027	Miscellaneous Facility Upgrade Projects	345000	Citywide	Citywide
2028	Scada system Upgrades	38000	Citywide	Citywide
2028	Fiber Optic System Installation and Upgrades	106000	Citywide	Citywide
2028	Control & Instrumentation Replacement/Upgrades	158000	Citywide	Citywide
2028	VFD Installs & MCC Upgrades	99000	Citywide	Citywide
2028	Cybersecurity Upgrades	155000	Citywide	Citywide
2028	Site Upgrades	145000	Citywide	Citywide
2028	Various Olin Building/Site Improvements	430000	Citywide	Citywide
2028	Unexpected Well and Booster Station Mechanical F:	696000	Citywide	Citywide
2028	Facility Safety and Security Upgrades	335000	Citywide	Citywide
2028	Miscellaneous Facility Upgrade Projects	368000	Citywide	Citywide
2029	Scada system Upgrades	39000	Citywide	Citywide

2029 Fiber Optic System Installation and Upgrades	109000 Citywide	Citywide
2029 Control & Instrumentation Replacement/Upgrades	162000 Citywide	Citywide
2029 VFD Installs & MCC Upgrades	102000 Citywide	Citywide
2029 Cybersecurity Upgrades	160000 Citywide	Citywide
2029 Site Upgrades	150000 Citywide	Citywide
2029 Various Olin Building/Site Improvements	440000 Citywide	Citywide
2029 Unexpected Well and Booster Station Mechanical F	720000 Citywide	Citywide
2029 Facility Safety and Security Upgrades	345000 Citywide	Citywide
2029 Miscellaneous Facility Upgrade Projects	379000 Citywide	Citywide

## Operating Costs

**Over the next six years, will the project/program require any of the following IT resources?**

Electronic hardware that will be connected to a City device in any manner, including wireless, bluetooth, NFC, etc.?	No
Software (either local or in the cloud)?	No
A new website or changes to an existing website?	No

**For projects/programs requesting new software/hardware:**

Have you submitted an IT project request form? <a href="#">IT Project Request Form</a>	No
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**Changes to existing hardware/software:**

Will any existing software or processes need to be modified to support this project/program or initiative? <a href="#">If yes, submit an IT Project Request Form</a>	No
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**Surveillance Technology:**

Do you believe any of the hardware or software to be considered surveillance technology? <a href="#">Surveillance technology is defined in MGO Sec. 23.63(2).</a> If yes, please reach out to Sarah Edgerton prior to submitting your budget request.	No
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**In addition to IT costs, projects/programs may have other operational impacts. Over the next six years, will the project/program require any of the following:**

Facilities/land maintenance?	No
Vehicle setup or maintenance costs?	No
External management or consulting contracts?	No
How many additional FTE positions required for ongoing operations of this project/program?	0.00

**Estimate the project/program annual operating costs**

Description - please detail operating costs by major where available	Annual Costs

# 2024 Capital Improvement Plan

## Program Budget Proposal

### Identifying Information

Agency	<input type="text" value="Water Utility"/>	New or Existing Project	<input type="text" value="Existing"/>
Proposal Name	<input type="text" value="Water Utility Vehicles &amp; Equipment"/>	Project Type	<input type="text" value="Program"/>
Project Number	<input type="text" value="12339"/>		
2024 Project Number	<input type="text" value="14680"/>		

#### Previous Description

This program is for the annual vehicle and equipment replacements and additions. Replacement schedules are based on age and mileage of the vehicles and equipment. The goal of this program is to provide reliable vehicles and equipment for Water Utility's operations. Progress will be measured by the frequency of vehicle breakdowns and actual useful life obtained. In 2023, funds will be used for a maintenance utilimaster, a tri-axle dump truck, a backhoe, and other miscellaneous equipment.

#### New or Updated Description

This program is for the annual vehicle and equipment replacements and additions. Replacement schedules are based on age and mileage of the vehicles and equipment. The goal of this program is to provide reliable vehicles and equipment for Water Utility's operations. Progress will be measured by the frequency of vehicle breakdowns and actual useful life obtained. In 2024, funds will be used for three utilimasters, two tri-axel dump trucks, a GM vehicle and other miscellaneous equipment.

### Alignment with Strategic Plans and Citywide Priorities

Citywide Element	<input type="text" value="Green and Resilient"/>
Strategy	<input type="text" value="Increase the use and accessibility of energy efficiency upgrades and renewable energy."/>

#### Describe how this project/program advances the Citywide Element

By replacing aging vehicles with new electric or gas powered vehicles in the future, we will help to reduce carbon emissions and improve gas mileage. It will also reduce maintenance costs, and length of time vehicles are out of service.

Does this project/program advance goals in a Citywide agenda or strategic plan other than Imagine Madison (e.g. Climate Forward, Housing Forward, Metro Forward, Vision Zero)?

Yes

If yes, specify which plan(s) the project/program would advance and describe how the project/program will help the City meet its strategic goals.

This is part of our Asset Management Plan. Madison Water Utility maintains a list of all vehicles and equipment in our maintenance system faster. Vehicles and equipment are replaced based on the year purchased, miles driven, and overall condition to maintain safe and reliable vehicles and equipment for our employees.

## Racial Equity and Social Justice

We are continuing our efforts to articulate and prioritize racial equity and social justice in the City's budget and operations. Please respond to the following questions and incorporate these responses into your budget narrative to ensure racial equity is included in decision-making.

Is the proposed project/program primarily focused on maintenance or repair?

Yes

Describe how routine maintenance and/or scheduled repair considers equity and quality of life for residents. Describe how you use an equity lens to prioritize maintenance and/or repair projects.

By replacing aging vehicles and equipment with new electric or gas powered vehicles in the future, we will reduce carbon emissions and improve gas mileage. This will also reduce maintenance costs, and length of time vehicles are out of service.

Is the proposed budget or budget change related to a recommendation from a Neighborhood Resource Team (NRT)?

No

If yes, please identify the specific NRT and recommendation. Be as specific as possible.

## Climate Resilience and Sustainability

Does this project/program improve the city's climate resilience or sustainability by addressing climate change impacts, reducing GHG emissions, improving energy efficiency, growing a climate-friendly economy, or reducing the environmental impact of city assets or operations?

Yes

If yes, describe how

By replacing aging vehicles and equipment with new electric or gas powered vehicles in the future, we will help reduce carbon emissions and improve gas mileage. This will also reduce maintenance costs, and length of time vehicles are out of service.

## Budget Information

### Requested Budget by Funding Source

Funding Source	2024	2025	2026	2027	2028	2029
Reserves Applied (Water)	\$ 1,015,000	\$ 915,000	\$ 875,000	\$ 820,000	\$ 815,000	\$ 795,000
<b>Total</b>	<b>\$ 1,015,000</b>	<b>\$ 915,000</b>	<b>\$ 875,000</b>	<b>\$ 820,000</b>	<b>\$ 815,000</b>	<b>\$ 795,000</b>

### Requested Budget by Expense Type

Expense Type	2024	2025	2026	2027	2028	2029
Machinery and Equipment	\$ 1,015,000	\$ 915,000	\$ 875,000	\$ 820,000	\$ 815,000	\$ 795,000
<b>Total</b>	<b>\$ 1,015,000</b>	<b>\$ 915,000</b>	<b>\$ 875,000</b>	<b>\$ 820,000</b>	<b>\$ 815,000</b>	<b>\$ 795,000</b>

Explain any changes from the 2023 CIP in the proposed funding for this project/program

The funding for this project has increased use to the rising costs of vehicles.



If TIF or Impact Fee are a requested funding source, which district(s)

District/Detail	2024	2025	2026	2027	2028	2029

If TIF is a requested funding source, is this request included in an approved TIF project plan?

If the proposal includes building/ facility expenses, has the proposal been reviewed by City Engineering Facilities?

If no, explain how you developed the facilities cost estimate for the budget request.

## Project Schedule and Location

Complete the table below for each year of requested funding. Detail the minor projects that will occur and provide location detail when necessary. If detailed project plans are not available, explain why and when this information will be available.

Year	Project Name	Cost	Location	Alder District
2024	W-35B - GM Vehicle	\$ 80,000	119 E Olin Ave	14
2024	W-71B Tri-Axle Dumptruck	\$ 210,000	110 S Paterson St	6
2024	W-34B Tri-Axle Dumptruck	\$ 210,000	110 S Paterson St	6
2024	W-10B Maintenance Utilimaster	\$ 120,000	110 S Paterson St	6
2024	W-78B Distribution Utilimaster	\$ 125,000	110 S Paterson St	6
2024	W-8B Distribution Utilimaster	\$ 125,000	110 S Paterson St	6
2024	Drivable Lift	\$ 100,000	110 S Paterson St	6
2024	Mapping and Survey Equipment	\$ 30,000	119 E Olin Ave & 110 S Paterson	6, 14
2024	Various tools and equipment	\$ 15,000	119 E Olin Ave & 110 S Paterson	6, 14
2025	W-24C John Deere 410 Backhoe	\$ 190,000	110 S Paterson St	6
2025	W-48C John Deere 410 Backhoe	\$ 190,000	110 S Paterson St	6
2025	W-1B F350 Valve Turning Truck	\$ 120,000	110 S Paterson St	6
2025	W-69C Locator Ford F150	\$ 85,000	110 S Paterson St	6
2025	W-85A Ford F150	\$ 85,000	110 S Paterson St	6
2025	W-17B Honda Fit	\$ 65,000	119 E Olin Ave	14
2025	W-75C Ford F150	\$ 85,000	110 S Paterson St	6
2025	W-82A Ford F150	\$ 95,000	110 S Paterson St	6
2026	W103A Ford F150	\$ 90,000	110 S Paterson St	6
2026	W-12B Distribution Utilimaster	\$ 135,000	110 S Paterson St	6
2026	W-101A Ford F150	\$ 90,000	119 E Olin Ave	14
2026	W-9B Hydrant Utilimaster	\$ 125,000	110 S Paterson St	6
2026	W-61C Tri-Axle Dumptruck	\$ 220,000	110 S Paterson St	6
2026	W-25C John Deere 410 Backhoe	195000	110 S Paterson St	6
2026	T-9 Felling Shoring/Safety Trailer	20000	110 S Paterson St	6
2027	W-30B Ford F150	95000	110 S Paterson St	6
2027	W-5C Hydrant Utilimaster	130000	110 S Paterson St	6
2027	W-16B Maintenance Utilimaster	135000	110 S Paterson St	6
2027	W-57B Maintenance Utilimaster	135000	110 S Paterson St	6
2027	W-95B F350 Valve Turning Truck	125000	110 S Paterson St	6
2027	W-77C John Deere 410 Backhoe	200000	110 S Paterson St	6
2028	W-55C Hydrant Utilimaster	135000	110 S Paterson St	6
2028	W-74B Ford Focus	60000	119 E Olin Ave	14
2028	W-39B Passenger Minivan	70000	110 S Paterson St	6
2028	W-42B Distribution Utilimaster	140000	110 S Paterson St	6
2028	W-28C Tri-Axle Dumptruck	230000	110 S Paterson St	6
2028	W-73B F150	95000	110 S Paterson St	6
2028	W-22B Ford Transit EV	85000	119 E Olin Ave	14
2029	W-80C John Deere 410 Backhoe	210000	110 S Paterson St	6
2029	W-38C Tri-Axle Dumptruck	230000	110 S Paterson St	6
2029	W-13C F350 Valve Turning Truck	130000	110 S Paterson St	6
2029	W-59B F550 One Ton Plow/Sander	140000	110 S Paterson St	6
2029	W-81B Ford Transit EV	85000	119 E Olin Ave	14

## Operating Costs

**Over the next six years, will the project/program require any of the following IT resources?**

Electronic hardware that will be connected to a City device in any manner, including wireless, bluetooth, NFC, etc.?	No
Software (either local or in the cloud)?	No
A new website or changes to an existing website?	No

**For projects/programs requesting new software/hardware:**

Have you submitted an IT project request form? <a href="#">IT Project Request Form</a>	No
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**Changes to existing hardware/software:**

Will any existing software or processes need to be modified to support this project/program or initiative? <a href="#">If yes, submit an IT Project Request Form</a>	No
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**Surveillance Technology:**

Do you believe any of the hardware or software to be considered surveillance technology? <a href="#">Surveillance technology is defined in MGO Sec. 23.63(2).</a> If yes, please reach out to Sarah Edgerton prior to submitting your budget request.	No
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**In addition to IT costs, projects/programs may have other operational impacts. Over the next six years, will the project/program require any of the following:**

Facilities/land maintenance?	No
Vehicle setup or maintenance costs?	No
External management or consulting contracts?	No
How many additional FTE positions required for ongoing operations of this project/program?	0.00

**Estimate the project/program annual operating costs**

Description - please detail operating costs by major where available	Annual Costs

# 2024 Capital Improvement Plan

## Program Budget Proposal

### Identifying Information

Agency	<input type="text" value="Water Utility"/>	New or Existing Project	<input type="text" value="Existing"/>
Proposal Name	<input type="text" value="Water Valve Cut-In Program"/>	Project Type	<input type="text" value="Program"/>
Project Number	<input type="text" value="12387"/>		
2024 Project Number	<input type="text" value="14683"/>		

#### Previous Description

This program is for installing new valve cut-ins to the existing water infrastructure. The goal of this program is to eliminate areas of the city where water service is negatively impacted during water system maintenance and repair. Success is measured by a reduction in complaints from customers for impacted service.

#### New or Updated Description

### Alignment with Strategic Plans and Citywide Priorities

Citywide Element	<input type="text" value="Green and Resilient"/>
Strategy	<input type="text" value="Protect Madison's water supply and infrastructure to provide safe clean drinking water."/>

#### Describe how this project/program advances the Citywide Element

Meeting established water supply regulations and goals is essential to renewing and maintaining critical infrastructure. Reducing the number of unplanned water outages and increase the reliability of our system and our customer's confidence in our system.

Does this project/program advance goals in a Citywide agenda or strategic plan other than Imagine Madison (e.g. Climate Forward, Housing Forward, Metro Forward, Vision Zero)?

Yes

If yes, specify which plan(s) the project/program would advance and describe how the project/program will help the City meet its strategic goals.

This program fits into our Asset management plan by adding new valves into the system to eliminate areas of the city where water service is negatively impacted during water system maintenance and repair.

## Racial Equity and Social Justice

We are continuing our efforts to articulate and prioritize racial equity and social justice in the City's budget and operations. Please respond to the following questions and incorporate these responses into your budget narrative to ensure racial equity is included in decision-making.

Is the proposed project/program primarily focused on maintenance or repair?

No

For projects/programs that are not specifically focused on maintenance and repair 1) what specific inequities does this program intend to address? How and for whom? 2) What data helped shape your proposal? Data may include qualitative and quantitative data such as demographic, qualified census tracts, environmental justice areas, specific recommendations from a Racial Equity and Social Justice Analysis, or other sources.

The goal of this program is to add valves to the system where needed to reduce the number of customers impacted by unplanned outages due to repair and maintenance system wide. Monitoring the current water infrastructure and analyzing where the system would benefit from installing additional valves.

Is the proposed budget or budget change related to a recommendation from a Neighborhood Resource Team (NRT)?

No

If yes, please identify the specific NRT and recommendation. Be as specific as possible.

## Climate Resilience and Sustainability

Does this project/program improve the city's climate resilience or sustainability by addressing climate change impacts, reducing GHG emissions, improving energy efficiency, growing a climate-friendly economy, or reducing the environmental impact of city assets or operations?

No

If yes, describe how

## Budget Information

### Requested Budget by Funding Source

Funding Source	2024	2025	2026	2027	2028	2029
Reserves Applied (Water)	\$ 64,000	\$ 66,000	\$ 68,000	\$ 70,000	\$ 72,000	\$ 74,000
<b>Total</b>	<b>\$ 64,000</b>	<b>\$ 66,000</b>	<b>\$ 68,000</b>	<b>\$ 70,000</b>	<b>\$ 72,000</b>	<b>\$ 74,000</b>

### Requested Budget by Expense Type

Expense Type	2024	2025	2026	2027	2028	2029
Water Network	\$ 64,000	\$ 66,000	\$ 68,000	\$ 70,000	\$ 72,000	\$ 74,000
<b>Total</b>	<b>\$ 64,000</b>	<b>\$ 66,000</b>	<b>\$ 68,000</b>	<b>\$ 70,000</b>	<b>\$ 72,000</b>	<b>\$ 74,000</b>

Explain any changes from the 2023 CIP in the proposed funding for this project/program

The funding for this program increased from the 2023 CIP due to increased contract costs that are associated with this program.

If TIF or Impact Fee are a requested funding source, which district(s)

District/Detail	2024	2025	2026	2027	2028	2029

If TIF is a requested funding source, is this request included in an approved TIF project plan?

If the proposal includes building/ facility expenses, has the proposal been reviewed by City Engineering Facilities?

If no, explain how you developed the facilities cost estimate for the budget request.





## Operating Costs

**Over the next six years, will the project/program require any of the following IT resources?**

Electronic hardware that will be connected to a City device in any manner, including wireless, bluetooth, NFC, etc.?	No
Software (either local or in the cloud)?	No
A new website or changes to an existing website?	No

**For projects/programs requesting new software/hardware:**

Have you submitted an IT project request form? <a href="#">IT Project Request Form</a>	No
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**Changes to existing hardware/software:**

Will any existing software or processes need to be modified to support this project/program or initiative? <a href="#">If yes, submit an IT Project Request Form</a>	No
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**Surveillance Technology:**

Do you believe any of the hardware or software to be considered surveillance technology? <a href="#">Surveillance technology is defined in MGO Sec. 23.63(2).</a> If yes, please reach out to Sarah Edgerton prior to submitting your budget request.	No
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**In addition to IT costs, projects/programs may have other operational impacts. Over the next six years, will the project/program require any of the following:**

Facilities/land maintenance?	No
Vehicle setup or maintenance costs?	No
External management or consulting contracts?	No
How many additional FTE positions required for ongoing operations of this project/program?	0.00

**Estimate the project/program annual operating costs**

Description - please detail operating costs by major where available	Annual Costs

# 2024 Capital Improvement Plan

## Project Budget Proposal

### Identifying Information

Agency	<input type="text" value="Water Utility"/>	New or Existing Project	<input type="text" value="Existing"/>
Proposal Name	<input type="text" value="Well 27 Iron &amp; Manganese Mitigation"/>	Project Type	<input type="text" value="Project"/>
Project Number	<input type="text" value="14025"/>		

#### Previous Description

This project will address elevated levels of iron and manganese at Well 27 which exceed Water Utility Board Standards. In addition, radium levels periodically exceed the EPA Safe Drinking Water limit. The goal of the project is to identify strata causing the elevated contaminant levels and determine whether well reconstruction is a viable alternative to wellhead treatment.

#### New or Updated Description

### Alignment with Strategic Plans and Citywide Priorities

Citywide Element	<input type="text" value="Green and Resilient"/>
Strategy	<input type="text" value="Protect Madison's water supply and infrastructure to provide safe clean drinking water."/>

#### Describe how this project/program advances the Citywide Element

Meeting established water quality regulations and goals is essential to renewing and maintaining critical infrastructure.

Does this project/program advance goals in a Citywide agenda or strategic plan other than Imagine Madison (e.g. Climate Forward, Housing Forward, Metro Forward, Vision Zero)?

Yes

If yes, specify which plan(s) the project/program would advance and describe how the project/program will help the City meet its strategic goals.

This project is included in the Master Plan and long term CIP and is intended to improve and protect drinking water resources.

## Racial Equity and Social Justice

We are continuing our efforts to articulate and prioritize racial equity and social justice in the City's budget and operations. Please respond to the following questions and incorporate these responses into your budget narrative to ensure racial equity is included in decision-making.

Is the proposed project/program primarily focused on maintenance or repair?

No

For projects/programs that are not specifically focused on maintenance and repair 1) what specific inequities does this program intend to address? How and for whom? 2) What data helped shape your proposal? Data may include qualitative and quantitative data such as demographic, qualified census tracts, environmental justice areas, specific recommendations from a Racial Equity and Social Justice Analysis, or other sources.

The proposed work at Unit Well 27 seeks to improve drinking water quality by removing iron and manganese which discolors water for all of the residents are served by Unit Well 27. A triple bottom line approach will evaluate social, environmental, and economic factors to prioritize the order of completion for these projects in our long-term CIP. Equity and social justice will be important determinants.

Is the proposed budget or budget change related to a recommendation from a Neighborhood Resource Team (NRT)?

No

If yes, please identify the specific NRT and recommendation. Be as specific as possible.

## Climate Resilience and Sustainability

Does this project/program improve the city's climate resilience or sustainability by addressing climate change impacts, reducing GHG emissions, improving energy efficiency, growing a climate-friendly economy, or reducing the environmental impact of city assets or operations?

Yes

If yes, describe how

It will indirectly improve things by improving water quality from this well and over the long term it will reduce the amount of annual flushing and the associated pumping and treatment of this non-revenue water.

## Budget Information

### Requested Budget by Funding Source

Funding Source	2024	2025	2026	2027	2028	2029
State Sources				\$ 3,500,000	\$ 3,500,000	
<b>Total</b>	\$ -	\$ -	\$ -	\$ 3,500,000	\$ 3,500,000	\$ -

### Requested Budget by Expense Type

Expense Type	2024	2025	2026	2027	2028	2029
Water Network				\$ 3,500,000	\$ 3,500,000	
<b>Total</b>	\$ -	\$ -	\$ -	\$ 3,500,000	\$ 3,500,000	\$ -

Explain any changes from the 2023 CIP in the proposed funding for this project/program

After updating Water Utility's Master Plan and 10-year CIP this project designated as a project of importance and it is proposed to start in 2027.

If TIF or Impact Fee are a requested funding source, which district(s)

District/Detail	2024	2025	2026	2027	2028	2029

If TIF is a requested funding source, is this request included in an approved TIF project plan?

If the proposal includes building/ facility expenses, has the proposal been reviewed by City Engineering Facilities?

If no, explain how you developed the facilities cost estimate for the budget request.

## Project Schedule and Location

Complete the schedule below for each year of requested funding. Please detail costs across the major project phases (planning, design, or construction/implementation).

Year	Phase/Description	Cost	Location	Alder District
2027	Design, public input, and construction	\$ 3,500,000	18 N Randall Ave	5
2028	Construction	\$ 3,500,000	18 N Randall Ave	5

## Operating Costs

**Over the next six years, will the project/program require any of the following IT resources?**

Electronic hardware that will be connected to a City device in any manner, including wireless, bluetooth, NFC, etc.?	No
Software (either local or in the cloud)?	No
A new website or changes to an existing website?	No

**For projects/programs requesting new software/hardware:**

Have you submitted an IT project request form? <a href="#">IT Project Request Form</a>	No
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**Changes to existing hardware/software:**

Will any existing software or processes need to be modified to support this project/program or initiative? <a href="#">If yes, submit an IT Project Request Form</a>	No
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**Surveillance Technology:**

Do you believe any of the hardware or software to be considered surveillance technology? <a href="#">Surveillance technology is defined in MGO Sec. 23.63(2).</a> If yes, please reach out to Sarah Edgerton prior to submitting your budget request.	No
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**In addition to IT costs, projects/programs may have other operational impacts. Over the next six years, will the project/program require any of the following:**

Facilities/land maintenance?	No
Vehicle setup or maintenance costs?	No
External management or consulting contracts?	No
How many additional FTE positions required for ongoing operations of this project/program?	0.00

**Estimate the project/program annual operating costs**

Description - please detail operating costs by major where available	Annual Costs

# 2024 Capital Improvement Plan

## Project Budget Proposal

### Identifying Information

Agency	<input type="text" value="Water Utility"/>	New or Existing Project	<input type="text" value="Existing"/>
Proposal Name	<input type="text" value="Wilson St (MLK to King)"/>	Project Type	<input type="text" value="Project"/>
Project Number	<input type="text" value="11543"/>		

#### Previous Description

This project is for replacing the pavement on Wilson Street from Martin Luther King Jr. Boulevard to King Street. The goal of this project is to improve the pavement rating, which is currently 4 of 10, and enhance the pedestrian and bicycle facilities along the corridor. The project's scope will construct a new cycle track along Wilson Street. Construction is planned for 2024. Funding shown reflects the Water Utility component of the project.

#### New or Updated Description

The proposed MWU budget allows for minor valve/hydrant improvements and the abandonment and transfer of service connections from an existing 6-IN water main to an existing parallel 16-IN water main. The proposed 2024 improvements include outer capital loop (Doty St) project that was previously budgeted as a separate Major Streets/standalone project.

### Alignment with Strategic Plans and Citywide Priorities

Citywide Element	<input type="text" value="Green and Resilient"/>
Strategy	<input type="text" value="Protect Madison's water supply and infrastructure to provide safe clean drinking water."/>

#### Describe how this project/program advances the Citywide Element

This program repairs/or replaces existing undersized or deteriorated water mains to meet established Utility Level-of-Service for water main infrastructure. Undersized system mains will be abandoned to mitigate risk of failure and associated damages.



Does this project/program advance goals in a Citywide agenda or strategic plan other than Imagine Madison (e.g. Climate Forward, Housing Forward, Metro Forward, Vision Zero)?

Yes

If yes, specify which plan(s) the project/program would advance and describe how the project/program will help the City meet its strategic goals.

The proposed Madison Water Utility budget allows for minor valve/hydrant improvements and the abandonment and transfer of service connections from an existing 6" water main to an existing parallel 16" water main.

## Racial Equity and Social Justice

We are continuing our efforts to articulate and prioritize racial equity and social justice in the City's budget and operations. Please respond to the following questions and incorporate these responses into your budget narrative to ensure racial equity is included in decision-making.

Is the proposed project/program primarily focused on maintenance or repair?

Yes

Describe how routine maintenance and/or scheduled repair considers equity and quality of life for residents. Describe how you use an equity lens to prioritize maintenance and/or repair projects.

The new cycle track will greatly enhance bicycle mobility in the downtown. Madison Water Utility costs are distributed amongst the entire Utility customer base.

Is the proposed budget or budget change related to a recommendation from a Neighborhood Resource Team (NRT)?

No

If yes, please identify the specific NRT and recommendation. Be as specific as possible.

## Climate Resilience and Sustainability

Does this project/program improve the city's climate resilience or sustainability by addressing climate change impacts, reducing GHG emissions, improving energy efficiency, growing a climate-friendly economy, or reducing the environmental impact of city assets or operations?

No

If yes, describe how

## Budget Information

### Requested Budget by Funding Source

Funding Source	2024	2025	2026	2027	2028	2029
Miscellaneous Revenue	\$ 501,000					
<b>Total</b>	<b>\$ 501,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>

### Requested Budget by Expense Type

Expense Type	2024	2025	2026	2027	2028	2029
Water Network	\$ 501,000					
<b>Total</b>	<b>\$ 501,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>

Explain any changes from the 2023 CIP in the proposed funding for this project/program

This project will be funded through expense depreciation, which was approved in the Water Utility's last rate case which was approved in December 2022.

If TIF or Impact Fee are a requested funding source, which district(s)

District/Detail	2024	2025	2026	2027	2028	2029

If TIF is a requested funding source, is this request included in an approved TIF project plan?

If the proposal includes building/ facility expenses, has the proposal been reviewed by City Engineering Facilities?

If no, explain how you developed the facilities cost estimate for the budget request.

## Project Schedule and Location

Complete the schedule below for each year of requested funding. Please detail costs across the major project phases (planning, design, or construction/implementation).

Year	Phase/Description	Cost	Location	Alder District
2024	Construction	\$ 501,000	Martin Luther King Jr Blvd to Franklin Ave, King Street	4, 6

## Operating Costs

**Over the next six years, will the project/program require any of the following IT resources?**

Electronic hardware that will be connected to a City device in any manner, including wireless, bluetooth, NFC, etc.?	No
Software (either local or in the cloud)?	No
A new website or changes to an existing website?	No

**For projects/programs requesting new software/hardware:**

Have you submitted an IT project request form? <a href="#">IT Project Request Form</a>	No
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**Changes to existing hardware/software:**

Will any existing software or processes need to be modified to support this project/program or initiative? <a href="#">If yes, submit an IT Project Request Form</a>	No
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**Surveillance Technology:**

Do you believe any of the hardware or software to be considered surveillance technology? <a href="#">Surveillance technology is defined in MGO Sec. 23.63(2).</a> If yes, please reach out to Sarah Edgerton prior to submitting your budget request.	No
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**In addition to IT costs, projects/programs may have other operational impacts. Over the next six years, will the project/program require any of the following:**

Facilities/land maintenance?	No
Vehicle setup or maintenance costs?	No
External management or consulting contracts?	No
How many additional FTE positions required for ongoing operations of this project/program?	0.00

**Estimate the project/program annual operating costs**

Description - please detail operating costs by major where available	Annual Costs
No change to existing operating costs are anticipated as a result of the proposed water system improvements.	n/a