

Water Utility

Capital Improvement Plan

	2021 Adopted	2022 Request	Change
2022 Capital Budget	6,943,000	7,971,000	1,028,000
2022 Capital Improvement Plan*	49,796,000	51,208,700	1,412,700

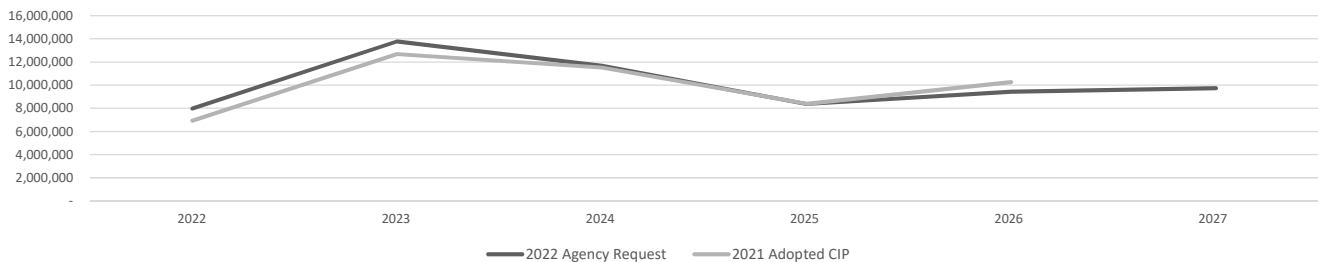
*Years 2022 to 2026 used for comparison.

	2021 Adopted	2022 Request
Number of Projects	18	24

Project Summary: Agency Request

	2022	2023	2024	2025	2026	2027
Atwood Avenue	24,000	1,922,000	-	-	-	-
Blair Street, S.	24,000	-	-	-	-	-
Blair/John Nolen Intersection	24,000	-	-	-	-	-
Booster Pump Station #213 Lakeview Reconstruction	-	-	188,000	1,161,000	-	-
Chlorinators & Florinators Program	35,000	35,000	40,000	40,000	41,000	42,000
Mineral Point Road	-	-	-	-	-	32,000
Outer Capitol Loop Southeast	-	27,000	-	-	-	-
Park Street, South (Olin to RR)	-	25,000	-	437,000	-	-
Pleasant View Road - Phase 1	24,000	805,000	-	-	-	-
Unit Well #8 Reconstruction	-	-	-	88,000	1,778,000	2,292,000
Unit Well 12 Conversion to a Two Zone Well	-	263,000	3,754,000	41,000	-	-
Unit Well Rehab Program	330,000	247,000	340,000	254,000	350,000	262,000
University Ave (Shorewood to University Bay)	1,339,000	-	-	-	-	-
Water Hydrants Program	350,000	350,000	350,000	350,000	350,000	359,000
Water Mains - New	30,000	30,000	734,000	108,000	228,000	454,000
Water Mains Replace Rehab Improve - Pavement Management	2,042,000	481,000	402,000	1,377,000	656,000	1,359,000
Water Mains Replace Rehab Improve - Pipe Lining	617,000	900,000	1,036,000	1,172,000	1,458,000	1,458,000
Water Mains Replace Rehab Improve - Reconstruct Streets	311,000	345,000	2,316,000	1,672,000	2,557,000	1,718,000
Water Meter and Fixed Network Program	513,000	526,000	539,000	552,000	566,000	580,000
Water Utility Facility Improvements	847,000	844,700	1,175,000	825,000	865,000	891,000
Water Utility Vehicles & Equipment	554,000	261,000	542,000	271,000	560,000	282,000
Water Valve Cut-In Program	16,000	17,000	18,000	19,000	20,000	21,000
Well 19 Iron and Manganese Filter	891,000	6,691,000	81,000	-	-	-
Wilson St (MLK to King)	-	-	157,000	-	-	-
Total	7,971,000	13,769,700	11,672,000	8,367,000	9,429,000	9,750,000

2022 Capital Improvement Plan
2021 Adopted vs. 2022 Agency Request



Major Changes/Decision Points

- Atwood Avenue
 - \$1.9m project added to CIP from Horizon List
- Blair Street, S.
 - \$24k added to Water Utility CIP in 2022 to support work on the Engineering-Major Streets project
- Blair/John Nolen Intersection
 - \$24k added to Water Utility CIP in 2022 to support work on the Engineering-Major Streets project
- Mineral Point Road
 - \$32k added to Water Utility CIP in 2027 to support work on the Engineering-Major Streets project
- Outer Capitol Loop Southeast
 - \$27k added to Water Utility CIP in 2023 to support work on the Engineering-Major Streets project
- Park Street, South (Olin to RR)
 - \$462k added to Water Utility CIP in 2023 and 2025 to support work on the Engineering-Major Streets project
- Pleasant View Road - Phase 1
 - \$829k added to Water Utility CIP in 2022 and 2023 to support work on the Engineering-Major Streets project

- Unit Well #8 Reconstruction
 - Project delayed one year to start in 2025
- University Ave (Shorewood to University Bay)
 - \$1.3m added to Water Utility CIP in 2022 to support work on the Engineering-Major Streets project
- Water Mains - New
 - Program budget decreased \$987k from 2022-2026
- Water Mains Replace Rehab Improve - Pavement Management
 - Program budget increased \$1.0m from 2022-2026
- Water Mains Replace Rehab Improve - Pipe Lining
 - Program budget decreased \$443k from 2022-2026
- Water Mains Replace Rehab Improve - Reconstruct Streets
 - Program budget increased \$468k from 2022-2026
- Water Utility Facility Improvements
 - Program budget decreased \$1.2m from 2022-2026
- Water Utility Vehicles & Equipment
 - Program budget increased \$69k from 2022-2026
- Wilson Street (MLK to King)
 - \$157k added to Water Utility CIP in 2024 to support work on the Engineering-Major Streets project



TO: Dave Schmiedicke, Finance Director

FROM: Joe Grande, Madison Water Utility

DATE: May 25, 2021

SUBJECT: Madison Water Utility 2022 Capital Budget Requests

Goals of Agency’s Capital Budget

The primary goal of our 2022 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.

Criteria Used to Prioritized Requests

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 2022 Capital Requests

PROGRAM/PROJECT	MUNIS PROJECT	2022 PRIORITY
UW REHAB PROGRAM	13594	1
WATER UTILITY FACILITY IMPROVEMENTS	13591	2
WATER MAINS RECONSTRUCT	13590	3

WATER MAINS PAVEMENT MANAGEMENT	13588	4
WATER MAINS PIPE LINING	13589	5
WATER MAINS NEW	13587	6
UW #19 WATER QUALITY MITIGATION	10448	7
UNIVERSITY AVE: SHOREWOOD TO UNIVERSITY BAY DRIVE	11168	8
BLAIR STREET SOUTH	11128	9
BLAIR TO JOHN NOLEN INTERSECTION	11135	10
PLEASANT VIEW RD - PHASE 1	10284	11
ATWOOD AVENUE	11127	12
METER & FIXED NETWORK PROGRAM	13592	13
HYDRANT PROGRAM	13595	14
CHLORINATOR & FLORIDATOR PROGRAM	13597	15
NEW VALVE CUT-IN PROGRAM	13596	16
VEHICLES & EQUIPMENT PROGRAM	13593	17

Summary of Changes from 2021 Capital Improvement Plan

The Utility has always been committed to sound fiscal planning and is committed to building up financial reserves that will one day fund our infrastructure replacement program and reduce our reliance on debt financing. To allow this to happen, the Utility made significant short-term changes in our CIP in 2021 and we have continued with these reductions. The single largest change in our 2022 CIP as compared to our 2021 CIP is the addition of stand-alone major streets projects. The Utility added \$1.4 million for major streets projects in 2022. These additions, coupled with the shift of the Olin Heim Building roof replacement from 2022 to 2024, increased our 2022 CIP by \$1.0 million as compared to our 2021 submittal.

The Utility will be participating in the University Avenue street project at a cost of \$1.4 million in 2022. As this street is a major thoroughfare, we are taking this opportunity to replace the main on this street in 2022 to minimize the disruption to the citizens of Madison.

Potential for Scaling Capital Requests

In an effort to reduce our dependency on long-term debt, meet certain key financial metrics, and build up our cash reserves, the Utility started an aggressive reduction in all of our capital programs and projects in 2021. We have continued this philosophy in our 2022 CIP submittal while still ensuring the level of service required for a Utility of our size.

Impact of COVID-19 on Capital Funding

MWU has seen a decrease in revenue due to Covid-19. While the residential, multifamily and duplex usage is up, the commercial, industrial, governmental usage is down. MWU stopped assessing late fees on unpaid account balances in Mid-March of 2020 in an effort to help our rate payors during this crisis. Late fees were reinstated in November of 2020 in compliance with PSC docket 5-UI-120.

New rates were implemented on July 2, 2020. These rates were designed to increase revenues by 8.9%. MWU realized a 6.8% revenue increase from July 2020 – April 2021 due to this rate increase. This increased revenue along with debt refinancing in 2019 provides sufficient dollars to support MWU's debt service requirements.

In October 2020, MWU filed an Intent to Apply with the State DNR for participation in the State 2022 Safe Drinking Water Loan Program (SDWLP). This program offers low interest loans to qualified municipalities for major projects. The Utility submitted projects totaling \$6.27 million. These projects were included in the State's 2022 fiscal year Project Priority List which was released in April 2021. The Utility intends to use these funds to pay back the 2019 BANs which are due in November 2024.

In the last rate case approved for MWU, the Utility is required to submit another rate case with the PSC by August 1, 2021. The Utility intends to explore a "Pay as you Go" component to our rates in this upcoming rate case. If approved, this will lower our future debt service needs.

2022 Capital Improvement Plan Project Budget Proposal

Identifying Information

Agency	Water Utility	Proposal Name	Atwood Avenue
Project Number	11127	Project Type	Project
Project Category	Transportation	Priority:	12

Description

This project funds the reconstruction of Atwood Avenue from Fair Oaks Avenue to Cottage Grove Road to a 3 lane boulevard with multi-use paths. Median and crosswalk enhancements are proposed for safe pedestrian crossing to Olbrich Gardens and Olbrich Park. The multi-use path will be utilized for the Lake Loop route around Lake Monona. A new pedestrian and bicycle bridge over the Starkweather Creek is included in the project. The goal of the project is to improve the facilities for pedestrians, bicyclists, motor vehicles and transit.

Budget Information

Total Project Budget	\$1,971,000	Prior Appropriation	\$25,000
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*Based on Fiscal Years 2015-2021

Budget by Funding Source

Funding Source	2022	2023	2024	2025	2026	2027
Revenue Bonds-Water	24,000	1,922,000				
Total	\$24,000	\$1,922,000	\$0	\$0	\$0	\$0

Budget by Expenditure Type

Expense Type	2022	2023	2024	2025	2026	2027
Water Network	24,000	1,922,000				
Total	\$24,000	\$1,922,000	\$0	\$0	\$0	\$0

Explain any changes from the 2021 CIP in the proposed funding for this project.

This is a new project for the 2022 CIP. MWU shifted some dollars from other programs and projects to help fund this project. This will increase out 2022 CIP for the out year 2023 by approximately \$1.1 million. Atwood Avenue is a major thoroughfare and as such we need to minimize the time that the street is disrupted. City Engineering scheduled this project for 2022 - 2023 and water will now be participating.

Explain any changes from the 2021 CIP in the proposed funding for this program.

This is a new project for the 2022 CIP. MWU shifted some dollars from other programs and projects to help fund this project. This will increase out 2022 CIP for the out year 2023 by approximately \$1.1 million. Atwood Avenue is a major thoroughfare and as such we need to minimize the time that the street is disrupted. City Engineering scheduled this project for 2022 - 2023 and water will now be participating.

Priority & Justification

Citywide Element Green and Resilient

Strategy Protect Madison's water supply and infrastructure to provide safe clean drinking water.

Describe how this project 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.

What is the justification for this project?

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 affected by the construction on major thoroughfares.

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.

Describe how Black, Indigenous, and People of Color, people living with lower incomes, and people who are otherwise marginalized (because of gender, age, home language, etc.) would be affected by the proposed budget or budget change(s)?

While this project is not located in an environmental justice area, it does extend through Olbrich Park and Olbrich Gardens both of which attract visitors from the every neighborhood in Madison. These attractions also bring in visitors from outside the City. We worked extensively to make sure that we were not just focusing on making thru traffic the priority but also safety for park users to be able to travel up and down the road and cross the road safely. Water is participating in this project as it is a major street and we want to minimize the number of times the street would be torn up.

What City agencies or community partners are affected by, care about, or already working on issues related to this project/program?

City Engineering, The Olbrich Park and Olbrich Gardens affects people of all colors, ages, races and incomes.

Have we asked for their perspectives directly and, if so, how have we incorporated their feedback?

City Engineering has worked with traditional public information meetings and their websites, but also extensive coordination with Park Department staff, and Olbrich Gardens staff. The project is identified in the Olbrich Garden Master Plan.

How will we continue to communicate with them in this process?

Public Information Meetings and project website with staff contacts, Twitter and Facebook.

Have we used any data related to the project/program that details race, non-binary and transgender people, people with disabilities, those experiencing homelessness, or undocumented status?

- Yes
 No
 Some, not all

Is the proposed budget or budget change related to a recommendation from any of the City's teams or initiatives that connect community need with opportunities to advance racial equity, inclusion, and social justice (e.g., NRTs, RESJI, LCET, MAC, WIC, Equitable Workforce Plans)?

- Yes No

If so, please identify the respective group and recommendation.

Project Schedule & Location

Can this project be mapped?

- Yes No

What is the location of the project?

Fair Oaks Ave to Cottage Grove Road

Is this project on the Project's Portal?

- Yes No

If so, enter the URL:

https://www.cityofmadison.com/engineer...

2022 Status

Status/Phase	Est Cost	Description
	24000	Pipeline Improvements

2023 Status

Status/Phase	Est Cost	Description
	1922000	Pipeline Improvements

2024 Status

Status/Phase	Est Cost	Description

2025 Status

Status/Phase	Est Cost	Description

2026 Status

Status/Phase	Est Cost	Description

2027 Status

Status/Phase	Est Cost	Description

Operating Costs

What are the estimated annual operating costs associated with the project?

Personnel

<i># of FTEs</i>	<i>Annual Cost</i>	<i>Description</i>
<input type="text"/>	<input type="text"/>	<input type="text"/>

Non-Personnel

<i>Major</i>	<i>Amount</i>	<i>Description</i>
<input type="text"/>	<input type="text"/>	<input type="text"/>

Notes

Notes:

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2022 Capital Improvement Plan Project Budget Proposal

Identifying Information

Agency	Water Utility	Proposal Name	Blair Street, S.
Project Number	11128	Project Type	Project
Project Category	Land Use and Transpor...	Priority:	9

Description

This project is for reconstructing South Blair Street from East Washington Avenue to Williamson Street and East Washington Avenue from Blair Street to Blount Street. The goal of this project is to improve the pavement quality of the 0.3 mile segment to ensure transportation safety. The current pavement rating of this road is 3 of 10. The project scope includes a new traffic signal for the East Main Street and South Blair Street intersection. Construction is proposed in 2022.

Budget Information

Total Project Budget	\$179,000	Prior Appropriation	\$175,000
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*Based on Fiscal Years 2015-2021

Budget by Funding Source

Funding Source	2022	2023	2024	2025	2026	2027
Revenue Bonds-Water	24,000					
Total	\$24,000	\$0	\$0	\$0	\$0	\$0

Budget by Expenditure Type

Expense Type	2022	2023	2024	2025	2026	2027
Water Network	24,000					
Total	\$24,000	\$0	\$0	\$0	\$0	\$0

Explain any changes from the 2021 CIP in the proposed funding for this project.

This is a new project for the 2022 CIP. Funds were reallocated from other areas so there wasn't a large change from the overall 2021 CIP budget.

Explain any changes from the 2021 CIP in the proposed funding for this program.

This is a new project for the 2022 CIP. Funds were reallocated from other areas so there wasn't a large change from the overall 2021 CIP budget.

Priority & Justification

Citywide Element Green and Resilient

Strategy Protect Madison's water supply and infrastructure to provide safe clean drinking water.

Describe how this project 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.

What is the justification for this project?

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 affected by the construction on major thoroughfares.

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.

Describe how Black, Indigenous, and People of Color, people living with lower incomes, and people who are otherwise marginalized (because of gender, age, 2022 Capital Budget Agency Requests

home language, etc.) would be affected by the proposed budget or budget change(s)?

This project extends through an environmental justice area with higher percentages of people living with lower incomes. The project will replace pavement for safe convenient travel and also provide safe pedestrian and bicycle crossing of the street. Water is participating in this project as it is a major street and we want to minimize the number of times the street would be torn up.

What City agencies or community partners are affected by, care about, or already working on issues related to this project/program?

City Engineering. This project extends through an environmental justice area with higher percentage of people living with lower incomes.

Have we asked for their perspectives directly and, if so, how have we incorporated their feedback?

City Engineering held public information meeting in the neighborhood. Some of the pedestrian and bicycle components of the project were implemented due to input at the PIMs.

How will we continue to communicate with them in this process?

Further Public Information Meetings and Project website with staff contacts, Twitter, and Facebook

Have we used any data related to the project/program that details race, non-binary and transgender people, people with disabilities, those experiencing homelessness, or undocumented status?

- Yes
- No
- Some, not all

Is the proposed budget or budget change related to a recommendation from any of the City's teams or initiatives that connect community need with opportunities to advance racial equity, inclusion, and social justice (e.g., NRTs, RESJI, LCET, MAC, WIC, Equitable Workforce Plans)?

- Yes
- No

If so, please identify the respective group and recommendation.

Project Schedule & Location

Can this project be mapped?

- Yes
- No

What is the location of the project?

E. Washington Ave to Williamson Street

Is this project on the Project's Portal?

- Yes
- No

If so, enter the URL:

https://www.cityofmadison.com/engineer...

2022 Status

Status/Phase	Est Cost	Description
	24000	Pipeline Improvement

2023 Status

Status/Phase	Est Cost	Description

2024 Status

Status/Phase	Est Cost	Description

2025 Status

Status/Phase	Est Cost	Description

2026 Status

Status/Phase	Est Cost	Description

2027 Status

Status/Phase	Est Cost	Description

Operating Costs

What are the estimated annual operating costs associated with the project?

Personnel

# of FTEs	Annual Cost	Description

Non-Personnel

<i>Major</i>	<i>Amount</i>	<i>Description</i>

Notes

Notes:

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2022 Capital Improvement Plan Project Budget Proposal

Identifying Information

Agency	Water Utility	Proposal Name	Blair/John Nolen Intersec
Project Number	11135	Project Type	Project
Project Category	Land Use and Transpor...	Priority:	10

Description

This project is for replacing pavement, curb, gutter, and sidewalk at the intersection of Blair Street and John Nolen Drive. The goal of the project is to improve the pavement quality rating of the intersection. The current pavement quality rating is 3 of 10. Construction is planned for 2022. Federal funding for this project is secured.

Budget Information

Total Project Budget	\$34,000	Prior Appropriation	\$10,000
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*Based on Fiscal Years 2015-2021

Budget by Funding Source

<i>Funding Source</i>	2022	2023	2024	2025	2026	2027
Revenue Bonds-Water	24,000					
Total	\$24,000	\$0	\$0	\$0	\$0	\$0

Budget by Expenditure Type

<i>Expense Type</i>	2022	2023	2024	2025	2026	2027
Water Network	24,000					
Total	\$24,000	\$0	\$0	\$0	\$0	\$0

Explain any changes from the 2021 CIP in the proposed funding for this project.

This is a new project for the 2022 CIP. Funds were reallocated from other areas so there wasn't a large change from the overall 2021 CIP budget.

Explain any changes from the 2021 CIP in the proposed funding for this program.

This is a new project for the 2022 CIP. Funds were reallocated from other areas so there wasn't a large change from the overall 2021 CIP budget.

Priority & Justification

Citywide Element Green and Resilient

Strategy Protect Madison's water supply and infrastructure to provide safe clean drinking water.

Describe how this project 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.

What is the justification for this project?

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 affected by the construction on major thoroughfares.

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.

Describe how Black, Indigenous, and People of Color, people living with lower incomes, and people who are otherwise marginalized (because of gender, age, home language, etc.) would be affected by the proposed budget or budget change(s)?

This project extends through an environmental justice area with higher percentage of people with lower incomes. The project will replace pavement for safe convenient travel and also provide safe pedestrian and bicycle crossing of the street. Water is participating in this project as it is a major street and we want to minimize the number of times the street would be torn up.

What City agencies or community partners are affected by, care about, or already working on issues related to this project/program?

This project extends through an environmental justice area with higher percentage of people with lower incomes. City Engineering is also working on this project.

Have we asked for their perspectives directly and, if so, how have we incorporated their feedback?

City Engineering has held public information meetings in the neighborhood. Some of the pedestrian and bicycle componets of the project were implemented due to input at the PIMs.

How will we continue to communicate with them in this process?

Further Public Information Meetings and Project website with staff contacts, Twitter and Facebook.

Have we used any data related to the project/program that details race, non-binary and transgender people, people with disabilities, those experiencing homelessness, or undocumented status?

- Yes
- No
- Some, not all

Is the proposed budget or budget change related to a recommendation from any of the City's teams or initiatives that connect community need with opportunities to advance racial equity, inclusion, and social justice (e.g., NRTs, RESJI, LCET, MAC, WIC, Equitable Workforce Plans)?

- Yes
- No

If so, please identify the respective group and recommendation.

Project Schedule & Location

Can this project be mapped?

- Yes
- No

What is the location of the project?

Is this project on the Project's Portal?

- Yes
- No

If so, enter the URL:

2022 Status

Status/Phase	Est Cost	Description
	24000	Pipeline Improvement

2023 Status

Status/Phase	Est Cost	Description

2024 Status

Status/Phase	Est Cost	Description

2025 Status

Status/Phase	Est Cost	Description

2026 Status

Status/Phase	Est Cost	Description

2027 Status

Status/Phase	Est Cost	Description

Operating Costs

What are the estimated annual operating costs associated with the project?

Personnel

# of FTEs	Annual Cost	Description

<i>Major</i>	<i>Amount</i>	<i>Description</i>

Notes

Notes:

v1 03/15/2021

2022 Capital Improvement Plan Project Budget Proposal

Identifying Information

Agency	Water Utility	Proposal Name	Booster Pump Station #2
Project Number	12441	Project Type	Project
Project Category	Utility	Priority:	Select...

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.

Budget Information

Total Project Budget	\$2,226,000	Prior Appropriation	\$0
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*Based on Fiscal Years 2015-2021

Budget by Funding Source

Funding Source	2022	2023	2024	2025	2026	2027
Revenue Bonds-Water			188,000	1,161,000		
Total	\$0	\$0	\$188,000	\$1,161,000	\$0	\$0

Budget by Expenditure Type

Expense Type	2022	2023	2024	2025	2026	2027
Building			188,000	86,000		
Machinery and Equipment				1,075,000		
Total	\$0	\$0	\$188,000	\$1,161,000	\$0	\$0

Explain any changes from the 2021 CIP in the proposed funding for this project.

No significant change from the 2021 CIP.

Explain any changes from the 2021 CIP in the proposed funding for this program.

No significant change from the 2021 CIP.

Priority & Justification

Citywide Element Green and Resilient

Strategy Protect Madison's water supply and infrastructure to provide safe clean drinking water.

Describe how this project advances the Citywide Element:

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

What is the justification for this project?

Fire protection capacity does not meet Utility standards. Pumping capacity is inadequate to allow expansion of service 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.

Describe how Black, Indigenous, and People of Color, people living with lower incomes, and people who are otherwise marginalized (because of gender, age, home language, etc.) would be affected by the proposed budget or budget change(s)?
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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.

What City agencies or community partners are affected by, care about, or already working on issues related to this project/program?

This project, along with prior associated improvements, has worked closely with neighborhood residents, Friends of Lakeview Park, Dane County, local representatives and DNR/PSC. Accommodations have been made to include Park improvements and minimize disturbance to nearby residents and natural/historic features of the area.

Have we asked for their perspectives directly and, if so, how have we incorporated their feedback?

Yes, this project will continue extensive Public Communication efforts with all interested stakeholders and affected community members/regulatory authorities. MWU will continue to request feedback and will accommodate, whenever practical/possible, public improvements to affected park or property features near the project.

How will we continue to communicate with them in this process?

Public information meetings, project information mailings, website with updates and project contact information, MWU social media such as Facebook and Twitter, etc.

Have we used any data related to the project/program that details race, non-binary and transgender people, people with disabilities, those experiencing homelessness, or undocumented status?

- Yes
- No
- Some, not all

Is the proposed budget or budget change related to a recommendation from any of the City's teams or initiatives that connect community need with opportunities to advance racial equity, inclusion, and social justice (e.g., NRTs, RESJI, LCET, MAC, WIC, Equitable Workforce Plans)?

- Yes
- No

If so, please identify the respective group and recommendation.

Project Schedule & Location

Can this project be mapped? Yes No

What is the location of the project?

Is this project on the Project's Portal? Yes No

2022 Status

Status/Phase	Est Cost	Description

2023 Status

Status/Phase	Est Cost	Description

2024 Status

Status/Phase	Est Cost	Description
	188000	Public Engagement & Engineering Services

2025 Status

Status/Phase	Est Cost	Description
	5000	Public Engagement
	541000	Upgrade pumps
	615000	Generator

2026 Status

Status/Phase	Est Cost	Description

2027 Status

Status/Phase	Est Cost	Description

Operating Costs

What are the estimated annual operating costs associated with the project?

Personnel

# of FTEs	Annual Cost	Description

Non-Personnel

<i>Major</i>	<i>Amount</i>	<i>Description</i>

Notes

Notes:

v1 03/15/2021

2022 Capital Improvement Plan Program Budget Proposal

Identifying Information

Agency	Water Utility	Proposal Name	Chlorinators & Florinator
Project Number	12386	Project Type	Program
Project Category	Utility	Priority:	15
2022 Project Number	13597		

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.

Budget Information

Prior Appropriation* \$31,000 **Prior Year Actual** \$3,189

*Based on Fiscal Years 2015-2020

Budget by Funding Source

Funding Source	2022	2023	2024	2025	2026	2027
Reserves Applied - Water	35,000	35,000	40,000	40,000	41,000	42,000
Total	\$35,000	\$35,000	\$40,000	\$40,000	\$41,000	\$42,000

Budget by Expenditure Type

Expense Type	2022	2023	2024	2025	2026	2027
Machinery and Equipment	35,000	35,000	40,000	40,000	41,000	42,000
Total	\$35,000	\$35,000	\$40,000	\$40,000	\$41,000	\$42,000

Explain any changes from the 2021 CIP in the proposed funding for this program.

No significant change from the 2021 CIP.

Priority & Justification

Citywide Element Green and Resilient

Strategy Protect Madison's water supply and infrastructure to provide safe clean drinking water.

Describe how this project advances the Citywide Element:

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

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.

Describe how Black, Indigenous, and People of Color, people living with lower incomes, and people who are otherwise marginalized (because of gender, age, home language, etc.) would be affected by the proposed budget or budget change(s)?

MWU formalized its Asset Management Program with the development of a Strategic Asset Management Plan (SAMP) in 2018. SAMP principles help guide MWU 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 to plan and prioritize capital project spending. Projects are driven by MWU Board policies and City, State, and Federal regulatory guidelines set by, for example, Wisconsin DNR and the PSC of Wisconsin.

What City agencies or community partners are affected by, care about, or already working on issues related to this project/program?

The projects within this program are internal infrastructure improvements and as such are not visible to the public. Despite the concealed nature of these improvements, the priorities will have noticeable impacts on MWU's service delivery, whether by improving water quality, energy efficiency, water pressure, or system reliability. All MWU customers, regardless of race or income, will share in the benefits.

Have we asked for their perspectives directly and, if so, how have we incorporated their feedback?

N/A

How will we continue to communicate with them in this process?

N/A

Have we used any data related to the project/program that details race, non-binary and transgender people, people with disabilities, those experiencing homelessness, or undocumented status?

- Yes
- No
- Some, not all

Is the proposed budget or budget change related to a recommendation from any of the City's teams or initiatives that connect community need with opportunities to advance racial equity, inclusion, and social justice (e.g., NRTs, RESJI, LCET, MAC, WIC, Equitable Workforce Plans)?

- Yes
- No

If so, please identify the respective group and recommendation.

Project Schedule & Location

2022 Projects

Project Name	Est Cost	Location
2022 Chlorinators and Floridators	\$35,000	MWU Unit Wells and Booster Pump Stations

Explain the justification for selecting projects planned for 2022:

Continue to exceed established DNR water quality standards and keep Madison's water supply safe.

2023 Projects

Project Name	Est Cost	Location
2023 Chlorinators and Floridators	\$35,000	MWU Unit Wells and Booster Pump Stations

Explain the justification for selecting projects planned for 2023:

Continue to exceed established DNR water quality standards and keep Madison's water supply safe.

2024 Projects

Project name	Est Cost	Location
2024 Chlorinators and Floridators	\$40,000	MWU Unit Wells and Booster Pump Stations

Explain the justification for selecting projects planned for 2024:

Continue to exceed established DNR water quality standards and keep Madison's water supply safe.

2025 Projects

Project name	Est Cost	Location
2025 Chlorinators and Floridators	\$40,000	MWU Unit Wells and Booster Pump Stations

Explain the justification for selecting projects planned for 2025:

Continue to exceed established DNR water quality standards and keep Madison's water supply safe.

2026 Projects

Project name	Est Cost	Location
2026 Chlorinators and Floridators	\$41,000	MWU Unit Wells and Booster Pump Stations

Explain the justification for selecting projects planned for 2026:

Continue to exceed established DNR water quality standards and keep Madison's water supply safe.

2027 Projects

Project Name	Est Cost	Location
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<i>Project Name</i>	<i>Est Cost</i>	<i>Location</i>
2027 Chlorinators and Floridators	42,000	MWU Unit Wells and Booster Pump Stations

Explain the justification for selecting projects planned for 2027:

Continue to exceed established DNR water quality standards and keep Madison's water supply safe.

Operating Costs

What are the estimated annual operating costs associated with the projects planned within this program?

Personnel

<i># of FTEs</i>	<i>Annual Cost</i>	<i>Description</i>
<input type="text"/>	<input type="text"/>	<input type="text"/>

Non-Personnel

<i>Major</i>	<i>Amount</i>	<i>Description</i>
<input type="text"/>	<input type="text"/>	<input type="text"/>

Notes

Notes:

2022 Capital Improvement Plan Project Budget Proposal

Identifying Information

Agency	<input type="text" value="Water Utility"/>	Proposal Name	<input type="text" value="Mineral Point Road"/>
Project Number	<input type="text" value="11131"/>	Project Type	<input type="text" value="Project"/>
Project Category	<input type="text" value="Land Use and Transpor..."/>	Priority:	<input type="text" value="Select..."/>

Description

This project funds the reconstruction of Mineral Point Road from the Beltline (USH 12/18) to High Point Road. The project is proposed to be reconstructed with new pavement, median, and multi-use path. Safety enhancements are proposed for the Mineral Point Road and High Point Road intersection. The goal of the project is to provide new pavement and enhance safety for pedestrians and bicyclists. Federal funds are anticipated for this project. Funding shown is the City's cost share.

Budget Information

Total Project Budget **Prior Appropriation**
*Based on Fiscal Years 2015-2021

Budget by Funding Source

Funding Source	2022	2023	2024	2025	2026	2027
Revenue Bonds-Water						32,000
Total	\$0	\$0	\$0	\$0	\$0	\$32,000

Budget by Expenditure Type

Expense Type	2022	2023	2024	2025	2026	2027
Water Network						32,000
Total	\$0	\$0	\$0	\$0	\$0	\$32,000

Explain any changes from the 2021 CIP in the proposed funding for this project.

This is a new project for the 2022 CIP. Funds were reallocated from other areas so there wasn't a large change from the overall 2021 CIP budget.

Explain any changes from the 2021 CIP in the proposed funding for this program.

This is a new project for the 2022 CIP. Funds were reallocated from other areas so there wasn't a large change from the overall 2021 CIP budget.

Priority & Justification

Citywide Element

Strategy

Describe how this project advances the Citywide Element:

What is the justification for this 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.

Describe how Black, Indigenous, and People of Color, people living with lower incomes, and people who are otherwise marginalized (because of gender, age, 2022 Capital Budget Agency Requests 21

home language, etc.) would be affected by the proposed budget or budget change(s)?

The project extends through an environmental justice area with higher percentage of Black, Indigenous, and People of Color. The project will assist in creating a safe, convenient transportation corridor for transit, motor vehicles, bicycles and pedestrians.

What City agencies or community partners are affected by, care about, or already working on issues related to this project/program?

The project extends through an environmental justice area with higher percentage of Black, Indigenous, and People of Color.

Have we asked for their perspectives directly and, if so, how have we incorporated their feedback?

The project hasn't begun yet.

How will we continue to communicate with them in this process?

Public Information meetings, project website with staff contacts, Twitter and Facebook.

Have we used any data related to the project/program that details race, non-binary and transgender people, people with disabilities, those experiencing homelessness, or undocumented status?

- Yes
- No
- Some, not all

Is the proposed budget or budget change related to a recommendation from any of the City's teams or initiatives that connect community need with opportunities to advance racial equity, inclusion, and social justice (e.g., NRTs, RESJI, LCET, MAC, WIC, Equitable Workforce Plans)?

- Yes
- No

If so, please identify the respective group and recommendation.

Project Schedule & Location

Can this project be mapped?

- Yes
- No

What is the location of the project?

USH 12/18 to High Point Road

Is this project on the Project's Portal?

- Yes
- No

2022 Status

Status/Phase	Est Cost	Description

2023 Status

Status/Phase	Est Cost	Description

2024 Status

Status/Phase	Est Cost	Description

2025 Status

Status/Phase	Est Cost	Description

2026 Status

Status/Phase	Est Cost	Description

2027 Status

Status/Phase	Est Cost	Description
	32000	Pipeline Improvements

Operating Costs

What are the estimated annual operating costs associated with the project?

Personnel

# of FTEs	Annual Cost	Description

Non-Personnel

Major	Amount	Description

Notes

Notes:

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2022 Capital Improvement Plan Project Budget Proposal

Identifying Information

Agency	Water Utility	Proposal Name	Outer Capitol Loop South
Project Number	10303	Project Type	Project
Project Category	Land Use and Transpor...	Priority:	Select...

Description

This project is for reconstructing the southeast section of the Outer Capitol Loop. The goal of this project is to improve the roadway's pavement quality rating and pedestrian experience. The pavement quality rating for the roadway is currently 4 of 10. The project's scope includes reconstruction of East Doty Street from Martin Luther King Jr. Boulevard to South Webster Street, and South Pinckney from East Doty Street to East Wilson Street. Funding in 2023 is for construction.

Budget Information

Total Project Budget **Prior Appropriation**
*Based on Fiscal Years 2015-2021

Budget by Funding Source

Funding Source	2022	2023	2024	2025	2026	2027
Revenue Bonds-Water		27,000				
Total	\$0	\$27,000	\$0	\$0	\$0	\$0

Budget by Expenditure Type

Expense Type	2022	2023	2024	2025	2026	2027
Water Network		27,000				
Total	\$0	\$27,000	\$0	\$0	\$0	\$0

Explain any changes from the 2021 CIP in the proposed funding for this project.

This is a new project for the 2022 CIP. Funds were reallocated from other areas so there wasn't a large change from the overall 2021 CIP budget.

Explain any changes from the 2021 CIP in the proposed funding for this program.

This is a new project for the 2022 CIP. Funds were reallocated from other areas so there wasn't a large change from the overall 2021 CIP budget.

Priority & Justification

Citywide Element

Strategy

Describe how this project advances the Citywide Element:

What is the justification for this 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.

Describe how Black, Indigenous, and People of Color, people living with lower incomes, and people who are otherwise marginalized (because of gender, age, 2022 Capital Budget Agency Requests 24

home language, etc.) would be affected by the proposed budget or budget change(s)?

While this project is not located in an environmental justic area access to the Capitol Square is an important service and employment hub for residents throughout the City. This project will enhance vehicle, bicycle and pedestrian access to the City, County, and State government services as well as employment opportunities. Water is participating in this project as it is a major street and we want to minimize the number of times the street would be torn up.

What City agencies or community partners are affected by, care about, or already working on issues related to this project/program?

City Engineering and Planning Dept. This project develops the roadway as identified in the City Downtown plan.

Have we asked for their perspectives directly and, if so, how have we incorporated their feedback?

This project has not yet begun

How will we continue to communicate with them in this process?

Public Information Mettings, project websit with staff contacts, Twitter, Facebook

Have we used any data related to the project/program that details race, non-binary and transgender people, people with disabilities, those experiencing homelessness, or undocumented status?

- Yes
- No
- Some, not all

Is the proposed budget or budget change related to a recommendation from any of the City's teams or initiatives that connect community need with opportunities to advance racial equity, inclusion, and social justice (e.g., NRTs, RESJI, LCET, MAC, WIC, Equitable Workforce Plans)?

- Yes
- No

If so, please identify the respective group and recommendation.

Project Schedule & Location

Can this project be mapped?

- Yes
- No

What is the location of the project?

Martin Luther King Jr Blvd, E Doty St to S Webster St, E Wilson St

Is this project on the Project's Portal?

- Yes
- No

2022 Status

Status/Phase	Est Cost	Description

2023 Status

Status/Phase	Est Cost	Description
	27000	Pipeline Improvement

2024 Status

Status/Phase	Est Cost	Description

2025 Status

Status/Phase	Est Cost	Description

2026 Status

Status/Phase	Est Cost	Description

2027 Status

Status/Phase	Est Cost	Description

Operating Costs

What are the estimated annual operating costs associated with the project?

Personnel

# of FTEs	Annual Cost	Description

Non-Personnel

Major	Amount	Description

Major	Amount	Description

Notes

Notes:

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2022 Capital Improvement Plan Project Budget Proposal

Identifying Information

Agency	<input type="text" value="Water Utility"/>	Proposal Name	<input type="text" value="Park Street, South (Olin t"/>
Project Number	<input type="text" value="11133"/>	Project Type	<input type="text" value="Project"/>
Project Category	<input type="text" value="Land Use and Transpor..."/>	Priority:	<input type="text" value="Select..."/>

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. Construction is planned for 2026. Federal funding assumed in the project budget is not yet secured.

Budget Information

Total Project Budget	<input type="text" value="\$632,000"/>	Prior Appropriation	<input type="text" value="\$170,000"/>
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*Based on Fiscal Years 2015-2021

Budget by Funding Source

Funding Source	2022	2023	2024	2025	2026	2027
Revenue Bonds-Water		25,000		437,000		
Total	\$0	\$25,000	\$0	\$437,000	\$0	\$0

Budget by Expenditure Type

Expense Type	2022	2023	2024	2025	2026	2027
Water Network		25,000		437,000		
Total	\$0	\$25,000	\$0	\$437,000	\$0	\$0

Explain any changes from the 2021 CIP in the proposed funding for this project.

This is a new project for the 2022 CIP. Funds were reallocated from other areas so there wasn't a large change from the overall 2021 CIP budget.

Explain any changes from the 2021 CIP in the proposed funding for this program.

This is a new project for the 2022 CIP. Funds were reallocated from other areas so there wasn't a large change from the overall 2021 CIP budget.

Priority & Justification

Citywide Element

Strategy

Describe how this project advances the Citywide Element:

What is the justification for this 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.

Describe how Black, Indigenous, and People of Color, people living with lower incomes, and people who are otherwise marginalized (because of gender, age, home language, etc.) would be affected by the proposed budget or budget changes.

This project extends through an environmental justice area with higher percentage of Black, Indigenous, and 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 safe convenient transportation for these groups. Water is participating in this project as it is a major street and we want to minimize the number of times the street would be torn up.

What City agencies or community partners are affected by, care about, or already working on issues related to this project/program?

This project extends through an environmental justice area with higher percentage of Black, Indigenous, and People of Color and people with lower incomes. It also extends through the Southside NRT. City Engineering is also working on this project.

Have we asked for their perspectives directly and, if so, how have we incorporated their feedback?

The project has not begun yet.

How will we continue to communicate with them in this process?

This project would include extensive coordination with the Southside NRT, Public Information Meetings, project website, Twitter and Facebook.

Have we used any data related to the project/program that details race, non-binary and transgender people, people with disabilities, those experiencing homelessness, or undocumented status?

- Yes
- No
- Some, not all

Is the proposed budget or budget change related to a recommendation from any of the City's teams or initiatives that connect community need with opportunities to advance racial equity, inclusion, and social justice (e.g., NRTs, RESJI, LCET, MAC, WIC, Equitable Workforce Plans)?

- Yes
- No

If so, please identify the respective group and recommendation.

Southside NRT

Project Schedule & Location

Can this project be mapped?

- Yes
- No

What is the location of the project?

W&S Railroad Crossing to W Olin Ave.

Is this project on the Project's Portal?

- Yes
- No

2022 Status

Status/Phase	Est Cost	Description

2023 Status

Status/Phase	Est Cost	Description
	25000	Finishing construction design

2024 Status

Status/Phase	Est Cost	Description

2025 Status

Status/Phase	Est Cost	Description
	437000	Pipeline Improvements

2026 Status

Status/Phase	Est Cost	Description

2027 Status

Status/Phase	Est Cost	Description

Operating Costs

What are the estimated annual operating costs associated with the project?

Personnel

# of FTEs	Annual Cost	Description

Non-Personnel

Major	Amount	Description
2022 Capital Budget		

Major	Amount	Description

Notes

Notes:

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2022 Capital Improvement Plan Project Budget Proposal

Identifying Information

Agency	<input type="text" value="Water Utility"/>	Proposal Name	<input type="text" value="Pleasant View Road - Pha"/>
Project Number	<input type="text" value="10284"/>	Project Type	<input type="text" value="Project"/>
Project Category	<input type="text" value="Land Use and Transpor..."/>	Priority:	<input type="text" value="11"/>

Description

This project is for reconstructing Pleasant View Road from US-14 to Old Sauk Road. The goal of this project is to expand the existing roadway and improve the pavement quality. The current pavement rating is 4 of 10. The project's scope includes construction of a four lane roadway with multi-use path and sidewalk to replace the existing two lane roadway. Construction is planned for 2022 and 2023. Federal funding for this project is secured.

Budget Information

Total Project Budget	<input type="text" value="\$894,000"/>	Prior Appropriation	<input type="text" value="\$65,000"/>
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*Based on Fiscal Years 2015-2021

Budget by Funding Source

Funding Source	2022	2023	2024	2025	2026	2027
Revenue Bonds-Water	24,000	805,000				
Total	\$24,000	\$805,000	\$0	\$0	\$0	\$0

Budget by Expenditure Type

Expense Type	2022	2023	2024	2025	2026	2027
Water Network	24,000	805,000				
Total	\$24,000	\$805,000	\$0	\$0	\$0	\$0

Explain any changes from the 2021 CIP in the proposed funding for this project.

This is a new project for the 2022 CIP. Funds were reallocated from other projects and programs so there wasn't a large change from the overall 2021 CIP budget.

Explain any changes from the 2021 CIP in the proposed funding for this program.

This is a new project for the 2022 CIP. Funds were reallocated from other projects and programs so there wasn't a large change from the overall 2021 CIP budget.

Priority & Justification

Citywide Element

Strategy

Describe how this project advances the Citywide Element:

What is the justification for this 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.

Describe how Black, Indigenous, and People of Color, people living with lower incomes, and people who are otherwise marginalized (because of gender, age,

home language, etc.) would be affected by the proposed budget or budget change(s)?

While this project is not located in an environmental justice area it is an arterial route that provides access to a commercial area providing employment to a significant number of residents. The new sidewalk and multi-use path will extend opportunities for people to walk and bike along the Pleasant View Corridor. The median will enhance safety for pedestrian crossing. Water is participating in this project as it is a major street and we want to minimize the number of times the street would be torn up.

What City agencies or community partners are affected by, care about, or already working on issues related to this project/program?

City Engineering, Planning Department, and The City of Middleton. The City of Middleton are a co-sponsor of this project. This project develops the roadway as planned in both municipalities Neighborhood Development Plans.

Have we asked for their perspectives directly and, if so, how have we incorporated their feedback?

City Engineering has implemented public information meetings, project website with staff contacts, Twitter and Facebook.

How will we continue to communicate with them in this process?

Project website, Twitter and Facebook.

Have we used any data related to the project/program that details race, non-binary and transgender people, people with disabilities, those experiencing homelessness, or undocumented status?

- Yes
- No
- Some, not all

Is the proposed budget or budget change related to a recommendation from any of the City's teams or initiatives that connect community need with opportunities to advance racial equity, inclusion, and social justice (e.g., NRTs, RESJI, LCET, MAC, WIC, Equitable Workforce Plans)?

- Yes
- No

If so, please identify the respective group and recommendation.

Project Schedule & Location

Can this project be mapped?

- Yes
- No

What is the location of the project?

US-14 to Old Sauk Rd

Is this project on the Project's Portal?

- Yes
- No

If so, enter the URL:

https://www.cityofmadison.com/engineer...

2022 Status

Status/Phase	Est Cost	Description
	24000	Start the construction process

2023 Status

Status/Phase	Est Cost	Description
	805000	Pipeline Improvement

2024 Status

Status/Phase	Est Cost	Description

2025 Status

Status/Phase	Est Cost	Description

2026 Status

Status/Phase	Est Cost	Description

2027 Status

Status/Phase	Est Cost	Description

Operating Costs

What are the estimated annual operating costs associated with the project?

Personnel

# of FTEs	Annual Cost	Description

Non-Personnel

<i>Major</i>	<i>Amount</i>	<i>Description</i>

Notes

Notes:

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2022 Capital Improvement Plan Project Budget Proposal

Identifying Information

Agency	Water Utility	Proposal Name	Unit Well #8 Reconstruct
Project Number	12440	Project Type	Project
Project Category	Utility	Priority:	Select...

Description

This project is for reconstructing Unit Well #8. The goal of the project is to reduce iron and manganese levels via filtration upgrades and to expand capacity to a three zone well.

Budget Information

Total Project Budget	\$11,949,000	Prior Appropriation	\$120,000
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*Based on Fiscal Years 2015-2021

Budget by Funding Source

<i>Funding Source</i>	2022	2023	2024	2025	2026	2027
Revenue Bonds-Water				88,000	1,778,000	2,292,000
Total	\$0	\$0	\$0	\$88,000	\$1,778,000	\$2,292,000

Budget by Expenditure Type

<i>Expense Type</i>	2022	2023	2024	2025	2026	2027
Building				88,000	1,578,000	
Land					200,000	
Water Network						2,292,000
Total	\$0	\$0	\$0	\$88,000	\$1,778,000	\$2,292,000

Explain any changes from the 2021 CIP in the proposed funding for this project.

This project was scheduled to start in 2024 in the 2021 CIP. We have moved it out one year and it will now start in 2025. No monetary change in this project.

Explain any changes from the 2021 CIP in the proposed funding for this program.

This project was scheduled to start in 2024 in the 2021 CIP. We have moved it out one year and it will now start in 2025. No monetary change in this project.

Priority & Justification

Citywide Element Green and Resilient

Strategy Protect Madison's water supply and infrastructure to provide safe clean drinking water.

Describe how this project advances the Citywide Element:

Meeting established water quality goals is essential to renewing and maintaining critical infrastructure. Providing operational flexibility improves customer service and reliability.

What is the justification for this project?

Water quality exceeds established standards. Facility is rarely used to to substandard water quality. Improving operational flexibility to efficiently move water around.

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.

Describe how Black, Indigenous, and People of Color, people living with lower incomes, and people who are otherwise marginalized (because of gender, age, home language, etc.) would be affected by the proposed budget or budget change(s)?

While this project is not located in an Environmental Justice Area, it is located within Olbrich Park and adjacent to Olbrich Gardens both of which attract visitors from every neighborhood in Madison. These attractions also bring in visitors from outside the City. To the extent practical, MWU facility improvement projects incorporate design features such as drinking fountains or gardens, which extend benefits to all residents and visitors in the vicinity of the facility.

What City agencies or community partners are affected by, care about, or already working on issues related to this project/program?

The Olbrich Park and nearby Olbrich Gardens affect people of all colors, ages, races and incomes.

Have we asked for their perspectives directly and, if so, how have we incorporated their feedback?

This project will work very closely with the public, DNR, PSC, local representatives, Park Dept, Olbrich Gardens, and Lake Monona/Starkweather Creek communities. At this phase in the project, outreach efforts have not started.

How will we continue to communicate with them in this process?

Public information meetings, project information mailings, website with updates and project contact information, MWU social media such as Facebook and Twitter, etc.

Have we used any data related to the project/program that details race, non-binary and transgender people, people with disabilities, those experiencing homelessness, or undocumented status?

- Yes
- No
- Some, not all

Is the proposed budget or budget change related to a recommendation from any of the City's teams or initiatives that connect community need with opportunities to advance racial equity, inclusion, and social justice (e.g., NRTs, RESJI, LCET, MAC, WIC, Equitable Workforce Plans)?

- Yes
- No

If so, please identify the respective group and recommendation.

Project Schedule & Location

Can this project be mapped? Yes No

What is the location of the project? 3206 Lakeland Avenue

Is this project on the Project's Portal? Yes No

2022 Status

Status/Phase	Est Cost	Description

2023 Status

Status/Phase	Est Cost	Description

2024 Status

Status/Phase	Est Cost	Description

2025 Status

Status/Phase	Est Cost	Description
	88000	Public Engagement and Engineering Services

2026 Status

Status/Phase	Est Cost	Description
	1578000	Public Engagement, Engineering Services & Building Rehab
	200000	Property Acquisition and Permitting

2027 Status

Status/Phase	Est Cost	Description
	2292000	Pipeline Improvements

Operating Costs

What are the estimated annual operating costs associated with the project?

Personnel

# of FTEs	Annual Cost	Description
.83	8,700	Facility is operated by existing personnel.

Non-Personnel

<i>Major</i>	<i>Amount</i>	<i>Description</i>
54	6,500	Electric power for treatment.
53	5,000	Water treatment chemicals.

Notes

Notes:

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2022 Capital Improvement Plan Project Budget Proposal

Identifying Information

Agency	<input type="text" value="Water Utility"/>	Proposal Name	<input type="text" value="Unit Well 12 Conversion 1"/>
Project Number	10452	Project Type	Project
Project Category	Utility	Priority:	<input type="text" value="Select..."/>

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 2023 is for design and funding in 2024 is for construction.

Budget Information

Total Project Budget	<input type="text" value="\$4,058,000"/>	Prior Appropriation	<input type="text" value="\$1,441,588"/>
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*Based on Fiscal Years 2015-2021

Budget by Funding Source

Funding Source	2022	2023	2024	2025	2026	2027
Revenue Bonds-Water		263,000	3,754,000	41,000		
Total	\$0	\$263,000	\$3,754,000	\$41,000	\$0	\$0

Budget by Expenditure Type

Expense Type	2022	2023	2024	2025	2026	2027
Building		263,000	3,754,000	41,000		
Total	\$0	\$263,000	\$3,754,000	\$41,000	\$0	\$0

Explain any changes from the 2021 CIP in the proposed funding for this project.

No substantial change in this project from our 2021 CIP.

Explain any changes from the 2021 CIP in the proposed funding for this program.

No substantial change in this project from our 2021 CIP.

Priority & Justification

Citywide Element

Strategy

Describe how this project advances the Citywide Element:

Operational flexibility and efficiency is essential to renewing and maintaining critical infrastructure.

What is the justification for this project?

Currently there is no transfer pumping capacity between Zones 7 and 8. This puts the water supply at risk in Zone 8. Current pumping equipment has reached the end of life.

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.

Describe how Black, Indigenous, and People of Color, people living with lower incomes, and people who are otherwise marginalized (because of gender, age, home language, etc.) would be affected by the proposed budget or budget change(s)?

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 property line. Project costs will be distributed equally among the entire Utility customer base.

What City agencies or community partners are affected by, care about, or already working on issues related to this project/program?

This project will work very closely with the public, DNR, PSC, and local representatives. At this phase in the project, outreach efforts are not occurring.

Have we asked for their perspectives directly and, if so, how have we incorporated their feedback?

Prior pipeline improvements related to this project involved many public communication efforts. Communication and stakeholder engagement efforts will resume closer to the proposed facility improvement construction.

How will we continue to communicate with them in this process?

Public information meetings, project information mailings, website with updates and project contact information, MWU social media such as Facebook and Twitter, etc.

Have we used any data related to the project/program that details race, non-binary and transgender people, people with disabilities, those experiencing homelessness, or undocumented status?

- Yes
- No
- Some, not all

Is the proposed budget or budget change related to a recommendation from any of the City's teams or initiatives that connect community need with opportunities to advance racial equity, inclusion, and social justice (e.g., NRTs, RESJI, LCET, MAC, WIC, Equitable Workforce Plans)?

- Yes
- No

If so, please identify the respective group and recommendation.

Project Schedule & Location

Can this project be mapped?

- Yes
- No

What is the location of the project?

801 S Whitney Way

Is this project on the Project's Portal?

- Yes
- No

2022 Status

Status/Phase	Est Cost	Description

2023 Status

Status/Phase	Est Cost	Description
	263000	Engineering Services

2024 Status

Status/Phase	Est Cost	Description
	3754000	Well Reconstruction and Upgrade

2025 Status

Status/Phase	Est Cost	Description
	41000	Water Utility Labor

2026 Status

Status/Phase	Est Cost	Description

2027 Status

Status/Phase	Est Cost	Description

Operating Costs

What are the estimated annual operating costs associated with the project?

Personnel

# of FTEs	Annual Cost	Description

Non-Personnel

Major	Amount	Description

<i>Major</i>	<i>Amount</i>	<i>Description</i>
54	21000	Electrical power needed for pumping.

Notes

Notes:

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2022 Capital Improvement Plan Program Budget Proposal

Identifying Information

Agency	Water Utility	Proposal Name	Unit Well Rehab Program
Project Number	12341	Project Type	Program
Project Category	Utility	Priority:	1
2022 Project Number	13594		

Description

This program is for the 10 year unit well upgrade projects as recommended by WIDNR. 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.

Budget Information

Prior Appropriation* \$421,849 **Prior Year Actual** \$208,719

*Based on Fiscal Years 2015-2020

Budget by Funding Source

Funding Source	2022	2023	2024	2025	2026	2027
Reserves Applied - Water	330,000	247,000	340,000	254,000	350,000	262,000
Total	\$330,000	\$247,000	\$340,000	\$254,000	\$350,000	\$262,000

Budget by Expenditure Type

Expense Type	2022	2023	2024	2025	2026	2027
Machinery and Equipment	330,000	247,000	340,000	254,000	350,000	262,000
Total	\$330,000	\$247,000	\$340,000	\$254,000	\$350,000	\$262,000

Explain any changes from the 2021 CIP in the proposed funding for this program.

No significant change from the 2021 CIP.

Priority & Justification

Citywide Element Green and Resilient

Strategy Protect Madison's water supply and infrastructure to provide safe clean drinking water.

Describe how this project 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.

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.

Describe how Black, Indigenous, and People of Color, people living with lower incomes, and people who are otherwise marginalized (because of gender, age, home language, etc.) would be affected by the proposed budget or budget change(s)?

MWU formalized its Asset Management Program with the development of a Strategic Asset Management Plan (SAMP) in 2018. SAMP principles help guide MWU 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 to

plan and prioritize capital project spending. Projects are driven by MWU Board policies and City, State, and Federal regulatory guidelines set by, for example, Wisconsin DNR and the PSC of Wisconsin.

What City agencies or community partners are affected by, care about, or already working on issues related to this project/program?

The projects within this program are internal infrastructure improvements and as such are not visible to the public. Despite the concealed nature of these improvements, the priorities will have noticeable impacts on MWU's service delivery, whether by improving water quality, energy efficiency, water pressure, or system reliability. All MWU customers, regardless of race or income, will share in the benefits.

Have we asked for their perspectives directly and, if so, how have we incorporated their feedback?

N/A

How will we continue to communicate with them in this process?

N/A

Have we used any data related to the project/program that details race, non-binary and transgender people, people with disabilities, those experiencing homelessness, or undocumented status?

- Yes
 No
 Some, not all

Is the proposed budget or budget change related to a recommendation from any of the City's teams or initiatives that connect community need with opportunities to advance racial equity, inclusion, and social justice (e.g., NRTS, RESJI, LCET, MAC, WIC, Equitable Workforce Plans)?

- Yes No

If so, please identify the respective group and recommendation.

Project Schedule & Location

2022 Projects

Project Name	Est Cost	Location
UW #28	\$82,500	8210 Old Sauk Road
UW #6	\$82,500	2757 University Avenue
UW #13	\$82,500	1201 Wheeler Road
UW #7	\$82,500	1709 N Sherman Avenue

Explain the justification for selecting projects planned for 2022:

Maintaining our unit wells allows us to run our pumps at peak performance for safe and clean drinking water and fire protection. Regular maintenance allows the unit wells to run as efficient as possible and minimizes breakdowns and the need to unexpectedly take a well off-line. The DNR requires all pumps to be pulled and inspected every 10 years. MWU maintains a list of all unit wells and their corresponding maintenance schedule. The unit wells selected for maintenance each year are taken from this list.

2023 Projects

Project Name	Est Cost	Location
UW #16	\$82,500	6706 Mineral Point Road
UW #19	\$82,500	2526 Lake Mendota Drive
UW #25	\$82,000	5415 Queenbridge Road

Explain the justification for selecting projects planned for 2023:

Maintaining our unit wells allows us to run our pumps at peak performance for safe and clean drinking water and fire protection. Regular maintenance allows the unit wells to run as efficient as possible and minimizes breakdowns and the need to unexpectedly take a well off-line. The DNR requires all pumps to be pulled and inspected every 10 years. MWU maintains a list of all unit wells and their corresponding maintenance schedule. The unit wells selected for maintenance each year are taken from this list.

2024 Projects

Project name	Est Cost	Location
UW #14	\$85,000	5130 University Avenue
UW #9	\$85,000	4724 Spaanem Avenue
UW #26	\$85,000	910 High Point Road
UW #27	\$85,000	18 N Randall Avenue

Explain the justification for selecting projects planned for 2024:

Maintaining our unit wells allows us to run our pumps at peak performance for safe and clean drinking water and fire protection. Regular maintenance allows the unit wells to run as efficient as possible and minimizes breakdowns and the need to unexpectedly take a well off-line. The DNR requires all pumps to be pulled and inspected every 10 years. MWU maintains a list of all unit wells and their corresponding maintenance schedule. The unit wells selected for maintenance each year are taken from this list.

2025 Projects

<i>Project name</i>	<i>Est Cost</i>	<i>Location</i>
UW #31	\$85,000	4901 Tradewinds Parkway
UW #12	\$85,000	801 S Whitney Way
UW #29	\$84,000	829 N Thompson Drive

Explain the justification for selecting projects planned for 2025:

Maintaining our unit wells allows us to run our pumps at peak performance for safe and clean drinking water and fire protection. Regular maintenance allows the unit wells to run as efficient as possible and minimizes breakdowns and the need to unexpectedly take a well off-line. The DNR requires all pumps to be pulled and inspected every 10 years. MWU maintains a list of all unit wells and their corresponding maintenance schedule. The unit wells selected for maintenance each year are taken from this list.

2026 Projects

<i>Project name</i>	<i>Est Cost</i>	<i>Location</i>
UW #8	\$87,500	3206 Lakeland Avenue
UW #17	\$87,500	201 S Hancock Street
UW #11	\$87,500	102 Dempsey Road
UW #30	\$87,500	1133 Moorland Road

Explain the justification for selecting projects planned for 2026:

Maintaining our unit wells allows us to run our pumps at peak performance for safe and clean drinking water and fire protection. Regular maintenance allows the unit wells to run as efficient as possible and minimizes breakdowns and the need to unexpectedly take a well off-line. The DNR requires all pumps to be pulled and inspected every 10 years. MWU maintains a list of all unit wells and their corresponding maintenance schedule. The unit wells selected for maintenance each year are taken from this list.

2027 Projects

<i>Project Name</i>	<i>Est Cost</i>	<i>Location</i>
UW #18	88,000	1925 S Park Street
UW #20	87,000	2829 Prairie Road
UW #24	87,000	101 N Livingston

Explain the justification for selecting projects planned for 2027:

Maintaining our unit wells allows us to run our pumps at peak performance for safe and clean drinking water and fire protection. Regular maintenance allows the unit wells to run as efficient as possible and minimizes breakdowns and the need to unexpectedly take a well off-line. The DNR requires all pumps to be pulled and inspected every 10 years. MWU maintains a list of all unit wells and their corresponding maintenance schedule. The unit wells selected for maintenance each year are taken from this list.

Operating Costs

What are the estimated annual operating costs associated with the projects planned within this program?

Personnel

<i># of FTEs</i>	<i>Annual Cost</i>	<i>Description</i>
<input type="text"/>	<input type="text"/>	<input type="text"/>

Non-Personnel

<i>Major</i>	<i>Amount</i>	<i>Description</i>
<input type="text"/>	<input type="text"/>	<input type="text"/>

Notes

Notes:

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2022 Capital Improvement Plan Project Budget Proposal

Identifying Information

Agency	Water Utility	Proposal Name	University Ave (Shorewood)
Project Number	11168	Project Type	Project
Project Category	Land Use and Transpor...	Priority:	8

Description

This project is for reconstructing University Avenue from Shorewood Boulevard to University Bay Drive. The goal of this project is to improve the pavement quality and stormwater network. The current pavement quality rating is 4 of 10. The project's scope includes street reconstruction, a new pedestrian and bicycle overpass of University Bay Drive for the Campus Drive path, a new sidewalk on the north side of the street, and wider terraces that will enhance pedestrian safety. Funding in 2022 is for construction. The federal funding for this project has been secured.

Budget Information

Total Project Budget	\$2,675,000	Prior Appropriation	\$1,366,000
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*Based on Fiscal Years 2015-2021

Budget by Funding Source

Funding Source	2022	2023	2024	2025	2026	2027
Revenue Bonds-Water	1,339,000					
Total	\$1,339,000	\$0	\$0	\$0	\$0	\$0

Budget by Expenditure Type

Expense Type	2022	2023	2024	2025	2026	2027
Water Network	1,339,000					
Total	\$1,339,000	\$0	\$0	\$0	\$0	\$0

Explain any changes from the 2021 CIP in the proposed funding for this project.

This is a new project for the 2022 CIP. MWU shifted some dollars from other programs and projects to help fund this project. This will increase our 2022 CIP by approximately \$1 million. University Avenue is a major thoroughfare and as such we need to minimize the time that the street is disrupted. City Engineering scheduled this project for 2022 and water will now be participating.

Explain any changes from the 2021 CIP in the proposed funding for this program.

This is a new project for the 2022 CIP. MWU shifted some dollars from other programs and projects to help fund this project. This will increase our 2022 CIP by approximately \$1 million. University Avenue is a major thoroughfare and as such we need to minimize the time that the street is disrupted. City Engineering scheduled this project for 2022 and water will now be participating.

Priority & Justification

Citywide Element Green and Resilient

Strategy Protect Madison's water supply and infrastructure to provide safe clean drinking water.

Describe how this project 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.

What is the justification for this project?

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 affected by the construction on major thoroughfares.

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.

Describe how Black, Indigenous, and People of Color, people living with lower incomes, and people who are otherwise marginalized (because of gender, age, home language, etc.) would be affected by the proposed budget or budget change(s)?

University Avenue is a major transportation corridor providing access to numerous employment opportunities and to the UW and VA hospitals. Flooding in the area can reduce access to the hospitals. Water is participating in this project as it is a major street and we want to minimize the number of times the street would be torn up.

What City agencies or community partners are affected by, care about, or already working on issues related to this project/program?
 City Engineering, Village of Shorewood Hills, UW, UW Hospital, VA Hospital, Metro Transit and businesses. This project was very carefully vetted with a large number of stakeholders to develop the project.

Have we asked for their perspectives directly and, if so, how have we incorporated their feedback?
 City Engineering has had multiple public information meetings and individual stakeholder meetings with the area hospitals. Their feedback is being utilized to create a specific traffic control plan to meet their needs.

How will we continue to communicate with them in this process?
 Public Information Meetings, project website, Twitter, Facebook and individual stakeholder meetings.

Have we used any data related to the project/program that details race, non-binary and transgender people, people with disabilities, those experiencing homelessness, or undocumented status?
 Yes
 No
 Some, not all

Is the proposed budget or budget change related to a recommendation from any of the City's teams or initiatives that connect community need with opportunities to advance racial equity, inclusion, and social justice (e.g., NRTs, RESJI, LCET, MAC, WIC, Equitable Workforce Plans)?

Yes No

If so, please identify the respective group and recommendation.

Project Schedule & Location

Can this project be mapped? Yes No

What is the location of the project?

Is this project on the Project's Portal? Yes No

If so, enter the URL:

2022 Status

Status/Phase	Est Cost	Description
	1339000	Pipeline Improvements

2023 Status

Status/Phase	Est Cost	Description

2024 Status

Status/Phase	Est Cost	Description

2025 Status

Status/Phase	Est Cost	Description

2026 Status

Status/Phase	Est Cost	Description

2027 Status

Status/Phase	Est Cost	Description

Operating Costs

What are the estimated annual operating costs associated with the project?

Personnel

# of 2022 Capital Budget	Annual Cost	Description	Agency Requests
			44

<i>FTEs</i>	
<input type="text"/>	<input type="text"/>

Non-Personnel

<i>Major</i>	<i>Amount</i>	<i>Description</i>
<input type="text"/>	<input type="text"/>	<input type="text"/>

Notes

Notes:

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2022 Capital Improvement Plan Program Budget Proposal

Identifying Information

Agency	Water Utility	Proposal Name	Water Hydrants Program
Project Number	12385	Project Type	Program
Project Category	Utility	Priority:	14
2022 Project Number	13595		

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.

Budget Information

Prior Appropriation* \$546,500 **Prior Year Actual** \$506,174

*Based on Fiscal Years 2015-2020

Budget by Funding Source

Funding Source	2022	2023	2024	2025	2026	2027
Reserves Applied - Water	350,000	350,000	350,000	350,000	350,000	359,000
Total	\$350,000	\$350,000	\$350,000	\$350,000	\$350,000	\$359,000

Budget by Expenditure Type

Expense Type	2022	2023	2024	2025	2026	2027
Water Network	350,000	350,000	350,000	350,000	350,000	359,000
Total	\$350,000	\$350,000	\$350,000	\$350,000	\$350,000	\$359,000

Explain any changes from the 2021 CIP in the proposed funding for this program.

No significant changes from the 2021 CIP.

Priority & Justification

Citywide Element Neighborhoods and Housing

Strategy Create complete neighborhoods across the city where residents have access to transportation options and resources needed for daily living

Describe how this project advances the Citywide Element:

We will allow safer access and operations by replacing, raising, or relocation our aging fire hydrants. We 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.

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.

Describe how Black, Indigenous, and People of Color, people living with lower incomes, and people who are otherwise marginalized (because of gender, age, home language, etc.) would be affected by the proposed budget or budget change(s)?

MWU formalized its Asset Management Program with the development of a Strategic Asset Management Plan (SAMP) in 2018. SAMP principles help guide MWU 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

plan and prioritize capital project spending. Projects are driven by MWU Board policies and City, State, and Federal regulatory guidelines set by, for example, Wisconsin DNR and the PSC of Wisconsin.

What City agencies or community partners are affected by, care about, or already working on issues related to this project/program?

The projects within this program are internal infrastructure improvements and as such are not visible to the public. Despite the concealed nature of these improvements, the priorities will have noticeable impacts on MWU's service delivery, whether by improving water quality, energy efficiency, water pressure, or system reliability. All MWU customers, regardless of race or income, will share in the benefits.

Have we asked for their perspectives directly and, if so, how have we incorporated their feedback?

N/A

How will we continue to communicate with them in this process?

N/A

Have we used any data related to the project/program that details race, non-binary and transgender people, people with disabilities, those experiencing homelessness, or undocumented status?

- Yes
 No
 Some, not all

Is the proposed budget or budget change related to a recommendation from any of the City's teams or initiatives that connect community need with opportunities to advance racial equity, inclusion, and social justice (e.g., NRTs, RESJI, LCET, MAC, WIC, Equitable Workforce Plans)?

- Yes No

If so, please identify the respective group and recommendation.

Project Schedule & Location

2022 Projects

Project Name	Est Cost	Location
2022 Water Utility Hydrant Program	\$350,000	Citywide

Explain the justification for selecting projects planned for 2022:

Improving fire protection for homeowners and commercial property owners.

2023 Projects

Project Name	Est Cost	Location
2023 Water Utility Hydrant Program	\$350,000	Citywide

Explain the justification for selecting projects planned for 2023:

Improving fire protection for homeowners and commercial property owners

2024 Projects

Project name	Est Cost	Location
2024 Water Utility Hydrant Program	\$350,000	Citywide

Explain the justification for selecting projects planned for 2024:

Improving fire protection for homeowners and commercial property owners

2025 Projects

Project name	Est Cost	Location
2025 Water Utility Hydrant Program	\$350,000	Citywide

Explain the justification for selecting projects planned for 2025:

Improving fire protection for homeowners and commercial property owners

2026 Projects

Project name	Est Cost	Location
2026 Water Utility Hydrant Program	\$350,000	Citywide

Explain the justification for selecting projects planned for 2026:

Improving fire protection for homeowners and commercial property owners

2027 Projects

Project Name	Est Cost	Location
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<i>Project Name</i>	<i>Est Cost</i>	<i>Location</i>
2027 Water Utility Hydrant Program	359,000	Citywide

Explain the justification for selecting projects planned for 2027:
 Improving fire protection for homeowners and commercial property owners

Operating Costs

What are the estimated annual operating costs associated with the projects planned within this program?

Personnel

<i># of FTEs</i>	<i>Annual Cost</i>	<i>Description</i>
<input type="text"/>	<input type="text"/>	<input type="text"/>

Non-Personnel

<i>Major</i>	<i>Amount</i>	<i>Description</i>
<input type="text"/>	<input type="text"/>	<input type="text"/>

Notes

Notes:

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2022 Capital Improvement Plan Program Budget Proposal

Identifying Information

Agency	<input type="text" value="Water Utility"/>	Proposal Name	<input type="text" value="Water Mains - New"/>
Project Number	<input type="text" value="12507"/>	Project Type	<input type="text" value="Program"/>
Project Category	<input type="text" value="Utility"/>	Priority:	<input type="text" value="6"/>
2022 Project Number	<input type="text" value="13587"/>		

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. Planned projects in 2021 include Hydraulic Improvements.

Budget Information

Prior Appropriation* **Prior Year Actual**

*Based on Fiscal Years 2015-2020

Budget by Funding Source

<i>Funding Source</i>	2022	2023	2024	2025	2026	2027
Revenue Bonds-Water	30,000	30,000	734,000	108,000	228,000	454,000
Total	\$30,000	\$30,000	\$734,000	\$108,000	\$228,000	\$454,000

Budget by Expenditure Type

<i>Expense Type</i>	2022	2023	2024	2025	2026	2027
Water Network	30,000	30,000	734,000	108,000	228,000	454,000
Total	\$30,000	\$30,000	\$734,000	\$108,000	\$228,000	\$454,000

Explain any changes from the 2021 CIP in the proposed funding for this program.

No significant change from our 2021 CIP.

Priority & Justification

Citywide Element

Strategy

Describe how this project advances the Citywide Element:

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.

Describe how Black, Indigenous, and People of Color, people living with lower incomes, and people who are otherwise marginalized (because of gender, age, home language, etc.) would be affected by the proposed budget or budget change(s)?

What City agencies or community partners are affected by, care about, or already working on issues related to this project/program?

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.

Have we asked for their perspectives directly and, if so, how have we incorporated their feedback?

Proposed projects are presented with outreach to all affected citizens, property owners and stakeholders via mailings, public information meetings, public project approval procedures, as well as website updates and social media updates. Public feedback, to the extent possible/practical is incorporated into the project scope whenever possible.

How will we continue to communicate with them in this process?

Public information meetings, project information mailings, website with updates and project contact information, MWU social media such as Facebook and Twitter, etc.

Have we used any data related to the project/program that details race, non-binary and transgender people, people with disabilities, those experiencing homelessness, or undocumented status?

- Yes
 No
 Some, not all

Is the proposed budget or budget change related to a recommendation from any of the City's teams or initiatives that connect community need with opportunities to advance racial equity, inclusion, and social justice (e.g., NRTs, RESJI, LCET, MAC, WIC, Equitable Workforce Plans)?

- Yes
 No

If so, please identify the respective group and recommendation.

Project Schedule & Location

2022 Projects

Project Name	Est Cost	Location
2022 Hydraulic Improvements	\$15,000	Facility Pipeline Improvements
2022 Hydraulic Improvements	\$15,000	Unallocated System Improvements/MWU Crew Projects (City-wide)

Explain the justification for selecting projects planned for 2022:

The proposed 2022 '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 project occur in conjunction with associated roadway construction projects or as stand-alone water main improvements consistent with infrastructure priorities identified in the Water Utility Master Plan.

2023 Projects

Project Name	Est Cost	Location
2023 Hydraulic Improvements	\$15,000	Facility Pipeline Improvements
2023 Hydraulic Improvements	\$15,000	Unallocated System Improvements/MWU Crew Projects (City-wide)

Explain the justification for selecting projects planned for 2023:

The proposed 2023 '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 project occur in conjunction with associated roadway construction projects or as stand-alone water main improvements consistent with infrastructure priorities identified in the Water Utility Master Plan.

2024 Projects

Project name	Est Cost	Location
Lien Rd Water Main Extension	\$682,000	Interstate 90/94 - Felland Rd.
2024 Hydraulic Improvements	\$26,000	Facility Pipeline Improvements
2024 Hydraulic Improvements	\$26,000	Unallocated System Improvements/MWU Crew Projects (City-wide)

Explain the justification for selecting projects planned for 2024:

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 project occur in conjunction with associated roadway construction projects or as stand-alone water main improvements consistent with infrastructure priorities identified in the Water Utility Master Plan.

2025 Projects

Project name	Est Cost	Location
2025 Hydraulic Improvements	\$54,000	Facility Pipeline Improvements
2022 Capital Budget		Agency Requests

<i>Project name</i>	<i>Est Cost</i>	<i>Location</i>
2025 Hydraulic Improvements	\$54,000	Unallocated System Improvements/MWU Crew Projects (City-wide)

Explain the justification for selecting projects planned for 2025:

The proposed 2025 '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 project occur in conjunction with associated roadway construction projects or as stand-alone water main improvements consistent with infrastructure priorities identified in the Water Utility Master Plan.

2026 Projects

<i>Project name</i>	<i>Est Cost</i>	<i>Location</i>
2026 Hydraulic Improvements	\$114,000	Facility Pipeline Improvements
2026 Hydraulic Improvements	\$114,000	Unallocated System Improvements/MWU Crew Projects (City-wide)

Explain the justification for selecting projects planned for 2026:

The proposed 2026 '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 project occur in conjunction with associated roadway construction projects or as stand-alone water main improvements consistent with infrastructure priorities identified in the Water Utility Master Plan.

2027 Projects

<i>Project Name</i>	<i>Est Cost</i>	<i>Location</i>
2027 Hydraulic Improvements	227,000	Facility Pipeline Improvements
2027 Hydraulic Improvements	227,000	Unallocated System Improvements/MWU Crew Projects (City-wide)

Explain the justification for selecting projects planned for 2027:

The proposed 2027 '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 project occur in conjunction with associated roadway construction projects or as stand-alone water main improvements consistent with infrastructure priorities identified in the Water Utility Master Plan.

Operating Costs

What are the estimated annual operating costs associated with the projects planned within this program?

Personnel

<i># of FTEs</i>	<i>Annual Cost</i>	<i>Description</i>
<input type="text"/>	<input type="text"/>	<input type="text"/>

Non-Personnel

<i>Major</i>	<i>Amount</i>	<i>Description</i>
<input type="text"/>	<input type="text"/>	<input type="text"/>

Notes

Notes:

2022 Capital Improvement Plan Program Budget Proposal

Identifying Information

Agency	<input type="text" value="Water Utility"/>	Proposal Name	<input type="text" value="Water Mains Replace Ref"/>
Project Number	<input type="text" value="11892"/>	Project Type	<input type="text" value="Program"/>
Project Category	<input type="text" value="Utility"/>	Priority:	<input type="text" value="5"/>
2022 Project Number	<input type="text" value="13589"/>		

Description

This program is for cured-in-place-pipe lining (CIPP) to improve the quality of existing pipes in the water network throughout the City. The goal of the program is to lengthen the useful life of the pipes at a lower cost than replacing the pipe. The program measures the miles of pipe rehabilitated using the lining method. Locations for CIPP lining are evaluated on an annual basis.

Budget Information

Prior Appropriation*

 Prior Year Actual

*Based on Fiscal Years 2015-2020

Budget by Funding Source

<i>Funding Source</i>	2022	2023	2024	2025	2026	2027
Revenue Bonds-Water	617,000	900,000	1,036,000	1,172,000	1,458,000	1,458,000
Total	\$617,000	\$900,000	\$1,036,000	\$1,172,000	\$1,458,000	\$1,458,000

Budget by Expenditure Type

<i>Expense Type</i>	2022	2023	2024	2025	2026	2027
Water Network	617,000	900,000	1,036,000	1,172,000	1,458,000	1,458,000
Total	\$617,000	\$900,000	\$1,036,000	\$1,172,000	\$1,458,000	\$1,458,000

Explain any changes from the 2021 CIP in the proposed funding for this program.

The first couple of years there has been a reduction of the funding and reallocated to other programs in the 2022 CIP.

Priority & Justification

Citywide Element

Strategy

Describe how this project advances the Citywide Element:

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.

Describe how Black, Indigenous, and People of Color, people living with lower incomes, and people who are otherwise marginalized (because of gender, age, home language, etc.) would be affected by the proposed budget or budget change(s)?

What City agencies or community partners are affected by, care about, or already working on issues related to this project/program?

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.

Have we asked for their perspectives directly and, if so, how have we incorporated their feedback?

Proposed projects are presented with outreach to all affected citizens, property owners and stakeholders via mailings, public information meetings, public project approval procedures, as well as website updates and social media updates. Public feedback, to the extent possible/practical is incorporated into the project scope whenever possible.

How will we continue to communicate with them in this process?

Public information meetings, project information mailings, website with updates and project contact information, MWU social media such as Facebook and Twitter, etc.

Have we used any data related to the project/program that details race, non-binary and transgender people, people with disabilities, those experiencing homelessness, or undocumented status?

- Yes
- No
- Some, not all

Is the proposed budget or budget change related to a recommendation from any of the City's teams or initiatives that connect community need with opportunities to advance racial equity, inclusion, and social justice (e.g., NRTs, RESJI, LCET, MAC, WIC, Equitable Workforce Plans)?

- Yes
- No

If so, please identify the respective group and recommendation.

Project Schedule & Location

2022 Projects

Project Name	Est Cost	Location
MWU Bypass Service System-Phase 3	\$100,000	Trailer/Storage Racking and Bypass Piping/Fittings
CIPP Rehabilitation of Water Mains 2022	\$84,000	Undistributed/City-wide-Locations under development
Lake Mendota Dr	\$433,000	126' E of Merrill Springs Rd-143' W of Spring Ct.

Explain the justification for selecting projects planned for 2022:

The proposed 2022 'Water Main Rehabilitation' projects include rehabilitating approximately 500-FT of existing deteriorated water mains (specific project locations are currently under development), and funding for temporary water service system components and associated storage equipment.

2023 Projects

Project Name	Est Cost	Location
CIPP Rehabilitation of Water Mains 2023	\$800,000	Undistributed/City-wide-Locations under development
MWU Bypass Service System-Phase 4	\$100,000	Trailer/Storage Racking and Bypass Piping/Fittings

Explain the justification for selecting projects planned for 2023:

The proposed 2023 'Water Main Rehabilitation' projects include rehabilitating approximately 4,535-FT of existing deteriorated water mains (specific project locations are currently under development), and funding for temporary water service system components and associated storage equipment.

2024 Projects

Project name	Est Cost	Location
CIPP Rehabilitation of Water Mains 2024	\$1,009,000	Undistributed/City-wide-Locations under development
MWU Bypass Service System-Phase 5	\$27,000	Trailer/Storage Racking and Bypass Piping/Fittings

Explain the justification for selecting projects planned for 2024:

The proposed 2024 'Water Main Rehabilitation' projects include rehabilitating approximately 5,500-FT of existing deteriorated water mains (specific project locations are currently under development), and funding for temporary water service system components and associated storage equipment.

2025 Projects

Project name	Est Cost	Location
CIPP Rehabilitation of Water Mains 2025	\$1,144,000	Undistributed/City-wide-Locations under development
MWU Bypass Service System-Phase 6	\$28,000	Trailer/Storage Racking and Bypass Piping/Fittings

Explain the justification for selecting projects planned for 2025:

The proposed 2025 'Water Main Rehabilitation' projects include rehabilitating approximately 6,000-FT of existing deteriorated water mains (specific project locations are currently under development), and funding for temporary water service system components and associated storage equipment.

2026 Projects

<i>Project name</i>	<i>Est Cost</i>	<i>Location</i>
CIPP Rehabilitation of Water Mains 2026	\$1,428,000	Undistributed/City-wide-Locations under development
MWU Bypass Service System-Phase 7	\$30,000	Trailer/Storage Racking and Bypass Piping/Fittings

Explain the justification for selecting projects planned for 2026:

The proposed 2026 'Water Main Rehabilitation' projects include rehabilitating approximately 7,200-FT of existing deteriorated water mains (specific project locations are currently under development), and funding for temporary water service system components and associated storage equipment.

2027 Projects

<i>Project Name</i>	<i>Est Cost</i>	<i>Location</i>
CIPP Rehabilitation of Water Mains 2027	1,428,000	Undistributed/City-wide-Locations under development
MWU Bypass Service System-Phase 8	30,000	Trailer/Storage Racking and Bypass Piping/Fittings

Explain the justification for selecting projects planned for 2027:

The proposed 2027 'Water Main Rehabilitation' projects include rehabilitating approximately 7,200-FT of existing deteriorated water mains (specific project locations are currently under development), and funding for temporary water service system components and associated storage equipment.

Operating Costs

What are the estimated annual operating costs associated with the projects planned within this program?

Personnel

<i># of FTEs</i>	<i>Annual Cost</i>	<i>Description</i>
<input type="text"/>	<input type="text"/>	<input type="text"/>

Non-Personnel

<i>Major</i>	<i>Amount</i>	<i>Description</i>
<input type="text"/>	<input type="text"/>	<input type="text"/>

Notes

Notes:

2022 Capital Improvement Plan Program Budget Proposal

Identifying Information

Agency	Water Utility	Proposal Name	Water Mains Replace Ref
Project Number	11893	Project Type	Program
Project Category	Utility	Priority:	3
2022 Project Number	13590		

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 program. The goal of the program is to update the water infrastructure diminishing the risk of pipe failure. 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. Planned projects in 2021 include: Helena/Russell/Jenifer Streets, Starkweather Drive, Hill Crest Drive/Standish Court/Alden Drive, Davies Street/Major Avenue/Dempsey Road/Maher Avenue, Pontiac Trail/Nokomis Court/Rosewood Circle/Boston Court, and hydraulic improvements.

Budget Information

Prior Appropriation*

*Based on Fiscal Years 2015-2020

	\$805,898	Prior Year Actual	\$562,801
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Budget by Funding Source

Funding Source	2022	2023	2024	2025	2026	2027
Revenue Bonds-Water	311,000	345,000	2,316,000	1,672,000	2,557,000	1,718,000
Total	\$311,000	\$345,000	\$2,316,000	\$1,672,000	\$2,557,000	\$1,718,000

Budget by Expenditure Type

Expense Type	2022	2023	2024	2025	2026	2027
Water Network	311,000	345,000	2,316,000	1,672,000	2,557,000	1,718,000
Total	\$311,000	\$345,000	\$2,316,000	\$1,672,000	\$2,557,000	\$1,718,000

Explain any changes from the 2021 CIP in the proposed funding for this program.

There has been some change from the 2021 CIP based on the projects that are projected for the future. The dollars have been reallocated between years and distributed among all the water main programs.

Priority & Justification

Citywide Element Green and Resilient

Strategy Protect Madison's water supply and infrastructure to provide safe clean drinking water.

Describe how this project 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.

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.

Describe how Black, Indigenous, and People of Color, people living with lower incomes, and people who are otherwise marginalized (because of gender, age, home language, etc.) would be affected by the proposed budget or budget change(s)?

This program replaces deteriorated, undersized, water mains in conjunction with planned roadway improvements, City-wide. Madison Water Utility utilizes an 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.

What City agencies or community partners are affected by, care about, or already working on issues related to this project/program?

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.

Have we asked for their perspectives directly and, if so, how have we incorporated their feedback?

Proposed projects are presented with outreach to all affected citizens, property owners and stakeholders via mailings, public information meetings, public project approval procedures, as well as website updates and social media updates. Public feedback, to the extent possible/practical is incorporated into the project scope whenever possible.

How will we continue to communicate with them in this process?

Public information meetings, project information mailings, website with updates and project contact information, MWU social media such as Facebook and Twitter, etc.

Have we used any data related to the project/program that details race, non-binary and transgender people, people with disabilities, those experiencing homelessness, or undocumented status?

- Yes
- No
- Some, not all

Is the proposed budget or budget change related to a recommendation from any of the City's teams or initiatives that connect community need with opportunities to advance racial equity, inclusion, and social justice (e.g., NRTs, RESJI, LCET, MAC, WIC, Equitable Workforce Plans)?

- Yes
- No

If so, please identify the respective group and recommendation.

Project Schedule & Location

2022 Projects

Project Name	Est Cost	Location
Lafollette Ave/Ohio Ave/Talmadge St/St.Paul Ave/Jackson St	\$15,000	Ohio Ave - Waubesa St; C & NW RR - Atwood Ave; C & NW RR - St Paul Ave; S End - Ohio Ave; St ...
Cedar St	\$15,000	Gilson St-S Park St
Russell St	\$222,000	Winnebago St-Eastwood Dr
Davies St, Dempsey Rd, Maher Ave	\$20,000	Buckeye Rd-Maher Ave; 150' N of Davidson St-Maher Ave; Lake Edge Blvd-Dempsey Rd
Lake Mendota Dr	\$15,000	1126' E of Merrill Springs Rd-143' W of Spring Ct
2022 Hydraulic Improvements	\$24,000	Unallocated System Improvements/MWU Crew Projects (City-wide)

Explain the justification for selecting projects planned for 2022:

The proposed 2022 'Water Mains Replace/Rehab/Improve-Resonstruct streets' projects replace existing failed and/or undersized water mains, provide minor valve and hydrant improvements in conjunction with associated roadway construction projects, improve system hydraulics.

2023 Projects

Project Name	Est Cost	Location
Sommers Ave/Center Ave/Willard Ave/Hudson Ave/Miller Ave	\$15,000	Hudson Ave-Miller Ave; Ohio Ave-Elmside Blvd; Atwood Ave-Oakridge Ave; Atwood Ave-Willard ...
Rutledge St	\$15,000	Riverside Dr-Division St
Richard St/Silver Rd	\$15,000	Schenk St-Silver Rd; N End-Hynek Rd
Maher Ave, Major Ave, Drexel Ave, Monona Ct	\$194,000	Cottage Grove Rd - Lake Edge Blvd; Lake Edge Blvd - Davies St; Lake Edge Blvd - Davies St; Major ...
Lowell St	\$15,000	South Shore Dr-W Lakeside St
Doncaster Dr/Belverly Rd/Danbury St	\$15,000	Danbury St-Seminole Hwy; Whenona Dr-Seminole Hwy; Mohawk Dr-Doncaster Dr

<i>Project Name</i>	<i>Est Cost</i>	<i>Location</i>
Treetops/Feather Edge	\$51,000	Feather Edge Rd-Meadow Dr
2023 Hydraulic Improvements	\$25,000	Unallocated System Improvements/MWU Crew Projects (City-wide)

Explain the justification for selecting projects planned for 2023:

The proposed 2023 'Water Mains Replace/Rehab/Improve-Resonstruct streets' projects replace existing failed and/or undersized water mains, provide minor valve and hydrant improvements in conjunction with assoicated roadway construction projects, improve system hydraulics.

2024 Projects

<i>Project name</i>	<i>Est Cost</i>	<i>Location</i>
Evergreen Ave/Center Ave/Willard Ave/Ohio Ave	\$105,000	Center Ave-Oakridge Ave; Dunning St-Hudson Ave; Evergreen Ave-Ohio Ave; Center Ave-Willard...
Farwell St/South Ct/North Ct	\$105,000	Milwaukee St-C & NW RR; Farwell St-Corry St; Center Ave-Willard Ave
Dawes St/Lansing St/Leon St/Richard St	\$105,000	Starkweather Dr-Leon St; Dawes St-Richard St; Dawes St-Starkweather Dr; Starkweather
Valley View Rd	\$1,117,000	South Point Rd-Boyer
Maher Ave/Douglas Tr	\$105,000	Tompkins Dr-Pflaum Rd; Joylynne Dr-Camden Rd
Maher Ave	\$105,000	Buckeye Rd-Davies St
Felland Rd	\$613,000	Along developments in the vicinity of CTH T
Gary St	\$35,000	Dempsey Rd-Elinor St
2024 Hydraulic Improvements	\$26,000	Unallocated System Improvements/MWU Crew Projects (City-wide)

Explain the justification for selecting projects planned for 2024:

The proposed 2024 'Water Mains Replace/Rehab/Improve-Resonstruct streets' projects replace existing failed and/or undersized water mains, provide minor valve and hydrant improvements in conjunction with assoicated roadway construction projects, improve system hydraulics.

2025 Projects

<i>Project name</i>	<i>Est Cost</i>	<i>Location</i>
Birge Ter	\$54,000	University Ave-Birge Ter
Evergreen Ave/Ohio Ave/Sommers Ave	\$54,000	Atwood Ave-Center Ave; Dunning St-Hudson Ave
Sherman Ave/McGuire St	\$54,000	McGuire St N Sherman Ave; Sherman Ave-Fordem Ave
Hermina St/Union St	\$54,000	N Marquette St-Clyde Gallagher Ave
Shawnee Pass	\$54,000	Nakoma Rd-Cherokee Dr
Dawes St/Lansing St/Leon St	\$54,000	Leon St-Walter St; Milwaukee St-Dawes St
Valley View Rd	\$1,161,000	Pioneer Rd-South Point Rd
Crestview Dr/Groveland Ter/Dixie Ln/Herro Ln	\$54,000	Groveland Ter-Herro Ln; Tompkins Dr-Herro Ln; Crestview Dr; Tompkins Dr-Crestview Dr
2025 Hydraulic Improvements	\$133,000	Unallocated System Improvements/MWU Crew Projects (City-wide)

Explain the justification for selecting projects planned for 2025:

The proposed 2025 'Water Mains Replace/Rehab/Improve-Resonstruct streets' projects replace existing failed and/or undersized water mains, provide minor valve and hydrant improvements in conjunction with assoicated roadway construction projects, improve system hydraulics.

2026 Projects

<i>Project name</i>	<i>Est Cost</i>	<i>Location</i>
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Project name	Est Cost	Location
Jefferson St/Oakland Ave/Grant St	\$189,000	Oakland Ave-Grant St; Madison St-Adams St; Madison St-Jefferson St
Elmside Blvd, Sommers Ave, Center Ave	\$33,000	Atwood Ave-Oakridge Ave; Miller Ave-Elmside Blvd; Miller Ave-Elmside Blve
Reiner Rd	\$1,605,000	Reiner Rd along Woods Farm Subdivision
Lake View Ave/Hanover St/West Ln/East Ln	\$189,000	West End-Sherman Ave; Lake View Ave-Drewry Ln; Lake View Ave-North End
Norman Way, Wood Cir	\$33,000	University Ave-Lake Mendota Dr; Norman Way-North End
MacArthur Rd/Larson Ct/Sycamore Ave/MacArthur Ct	\$189,000	E Wash Ave-South End; MacArthur Rd-West End; MacArthur Rd-500' East; MacArthur North End
Rideway Ave/Graceland Ave/Rowland Ave/Schmedeman Ave/Reindahl Ave	\$189,000	Reindahl Ave-Rowland Ave; Graceland Ave-E Wash Ave
2026 Hydraulic Improvements	\$130,000	Unallocated System Improvements/MWU Crew Projects (City-wide)

Explain the justification for selecting projects planned for 2026:

The proposed 2026 'Water Mains Replace/Rehab/Improve-Resonstruct streets' projects replace existing failed and/or undersized water mains, provide minor valve and hydrant improvements in conjunction with associated roadway construction projects, improve system hydraulics.

2027 Projects

Project Name	Est Cost	Location
Yahara Pl/Walton Pl/Russell St	189,000	Walton Pl-Dunning St; Rutledge St-Yahara Pl; Rutledge St-Yahara Pl
Hickory St	174,000	W Olin Ave-Pine St
Merrill Springs Rd	174,000	Flambeau Rd-Lake Mendota Dr
Lake Mendota Dr	349,000	Norman Way-Baker Ave; 143' W of Spring Ct-Norman Way
Old Sauk Rd	454,000	Pleasant View Rd-Schewe Rd
2027 Hydraulic Improvements	378,000	Unallocated System Improvements/MWU Crew Projects (City-wide)

Explain the justification for selecting projects planned for 2027:

The proposed 2027 'Water Mains Replace/Rehab/Improve-Resonstruct streets' projects replace existing failed and/or undersized water mains, provide minor valve and hydrant improvements in conjunction with associated roadway construction projects, improve system hydraulics.

Operating Costs

What are the estimated annual operating costs associated with the projects planned within this program?

Personnel

# of FTEs	Annual Cost	Description
<input type="text"/>	<input type="text"/>	<input type="text"/>

Non-Personnel

Major	Amount	Description
<input type="text"/>	<input type="text"/>	<input type="text"/>

Notes

Notes:

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2022 Capital Improvement Plan Program Budget Proposal

Identifying Information

Agency	<input type="text" value="Water Utility"/>	Proposal Name	<input type="text" value="Water Mains Replace Ref"/>
Project Number	<input type="text" value="11894"/>	Project Type	<input type="text" value="Program"/>
Project Category	<input type="text" value="Utility"/>	Priority:	<input type="text" value="4"/>
2022 Project Number	<input type="text" value="13588"/>		

Description

This program is for replacing existing water mains in conjunction with the repaving of roads as part of the City's Engineering-Major Streets Pavement Management program. The goal of the program is to update the water infrastructure reducing the risk of pipe failure. 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. Planned projects in 2021 include: Old Middleton Road/Craig Avenue, West Washington Avenue, Kroncke Drive/Lanett Circle/Tanager Trail, North Brooks Street/Fahrenbrook Court/College Court, and hydraulic improvements.

Budget Information

Prior Appropriation*

 Prior Year Actual

*Based on Fiscal Years 2015-2020

Budget by Funding Source

<i>Funding Source</i>	2022	2023	2024	2025	2026	2027
Revenue Bonds-Water	2,042,000	481,000	402,000	1,377,000	656,000	1,359,000
Total	\$2,042,000	\$481,000	\$402,000	\$1,377,000	\$656,000	\$1,359,000

Budget by Expenditure Type

<i>Expense Type</i>	2022	2023	2024	2025	2026	2027
Water Network	2,042,000	481,000	402,000	1,377,000	656,000	1,359,000
Total	\$2,042,000	\$481,000	\$402,000	\$1,377,000	\$656,000	\$1,359,000

Explain any changes from the 2021 CIP in the proposed funding for this program.

There has been some change from the 2021 CIP based on the projects that are projected for the future. The dollars have been reallocated between years and distributed among all the water main programs.

Priority & Justification

Citywide Element

Strategy

Describe how this project advances the Citywide Element:

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.

Describe how Black, Indigenous, and People of Color, people living with lower incomes, and people who are otherwise marginalized (because of gender, age, home language, etc.) would be affected by the proposed budget or budget change(s)?

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.

What City agencies or community partners are affected by, care about, or already working on issues related to this project/program?

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.

Have we asked for their perspectives directly and, if so, how have we incorporated their feedback?

Proposed projects are presented with outreach to all affected citizens, property owners and stakeholders via mailings, public information meetings, public project approval procedures, as well as website updates and social media updates. Public feedback, to the extent possible/practical is incorporated into the project scope whenever possible.

How will we continue to communicate with them in this process?

Public information meetings, project information mailings, website with updates and project contact information, MWU social media such as Facebook and Twitter, etc.

Have we used any data related to the project/program that details race, non-binary and transgender people, people with disabilities, those experiencing homelessness, or undocumented status?

- Yes
 No
 Some, not all

Is the proposed budget or budget change related to a recommendation from any of the City's teams or initiatives that connect community need with opportunities to advance racial equity, inclusion, and social justice (e.g., NRTs, RESJI, LCET, MAC, WIC, Equitable Workforce Plans)?

- Yes No

If so, please identify the respective group and recommendation.

Project Schedule & Location

2022 Projects

Project Name	Est Cost	Location
Commerical Ave	\$15,000	200 FT East of Superior St - Packers Ave Service Rd
Hammersley Rd	\$1,403,000	Reetz Rd - Brookwood Rd
Old Middleton/Craig	\$15,000	Old Middleton Rd EB Ramp-Capital Ave; University Ave-S End
Mineral Point/S Owen/Keating/Caromar	\$15,000	Glenway St-S Owen Dr
Kroncke Dr/Lanett Cir/Tanager Trl	\$112,000	S Whitney Way-N End; Kroncke Dr-N End; Mayhill Dr-Meadowood Dr
Tokay Blvd	\$15,000	S Segoe Rd-S Whitney Way
Medical Cir	\$265,000	S Whitney Way-Odana Rd
E Lakeside St/Olin Turville Ct	\$15,000	John Nolen Dr-Olin Turville Ct, S of E Lakeside St-John Nolen Dr
2022 Hydraulic Improvements-Replace Water Mains	\$187,000	Unallocated System Improvements/MWU Crew Project (City-wide)

Explain the justification for selecting projects planned for 2022:

The 2022 'Water Mains Replace/Rehab/Improve - Pavement Management' projects replace existing failed and/or undersized water mains, provide minor valve and hydrant improvements in conjunction with associated roadway construction projects, improve system hydraulics. Additional 2022 hydraulic improvement projects remain under development.

2023 Projects

Project Name	Est Cost	Location
N Franklin Ave	\$38,000	Regent St-University Ave
Starker Ave	\$31,000	Woodvale Dr-Droster Rd
N Segoe/Sheboygan	\$249,000	Regent St-University Ave; Segoe Rd-N Whitney Way
Gilbert Rd	\$31,000	Raymond Rd-Kroncke Dr

<i>Project Name</i>	<i>Est Cost</i>	<i>Location</i>
Silverton Trl	\$14,000	Muir Field Rd-McKee Rd
Price Pl/Vernon Blvd	\$20,000	Regent St-N End; N Midvale Blvd-N Segoe Rd
Buffalo Trl/Barron Ct/Green Lake Pass	\$14,000	Eau Claire Ave-Green Lake Pass
2023 Hydraulic Improvements-Replace Water Mains	\$84,000	Unallocated System Improvements/MWU Crew Project (City-wide)

Explain the justification for selecting projects planned for 2023:

The 2023 'Water Mains Replace/Rehab/Improve - Pavement Management' projects replace existing failed and/or undersized water mains, provide minor valve and hydrant improvements in conjunction with associated roadway construction projects, improve system hydraulics. Additional 2023 hydraulic improvement projects remain under development.

2024 Projects

<i>Project name</i>	<i>Est Cost</i>	<i>Location</i>
2024 Hydraulic Improvements-Replace Water Mains	\$402,000	Unallocated System Improvements/MWU Crew Project (City-wide)

Explain the justification for selecting projects planned for 2024:

The 2024 'Water Mains Replace/Rehab/Improve - Pavement Management' projects replace existing failed and/or undersized water mains, provide minor valve and hydrant improvements in conjunction with associated roadway construction projects, improve system hydraulics. Additional 2024 hydraulic improvement projects remain under development.

2025 Projects

<i>Project name</i>	<i>Est Cost</i>	<i>Location</i>
2025 Hydraulic Improvements-Replace Water Mains	\$1,377,000	Unallocated System Improvements/MWU Crew Project (City-wide)

Explain the justification for selecting projects planned for 2025:

The 2025 'Water Mains Replace/Rehab/Improve - Pavement Management' projects replace existing failed and/or undersized water mains, provide minor valve and hydrant improvements in conjunction with associated roadway construction projects, improve system hydraulics. Additional 2025 hydraulic improvement projects remain under development.

2026 Projects

<i>Project name</i>	<i>Est Cost</i>	<i>Location</i>
2026 Hydraulic Improvements-Replace Water Mains	\$656,000	Unallocated System Improvements/MWU Crew Project (City-wide)

Explain the justification for selecting projects planned for 2026:

The 2026 'Water Mains Replace/Rehab/Improve - Pavement Management' projects replace existing failed and/or undersized water mains, provide minor valve and hydrant improvements in conjunction with associated roadway construction projects, improve system hydraulics. Additional 2026 hydraulic improvement projects remain under development.

2027 Projects

<i>Project Name</i>	<i>Est Cost</i>	<i>Location</i>
2027 Hydraulic Improvements-Replace Water Mains	1,359,000	Unallocated System Improvements/MWU Crew Project (City-wide)

Explain the justification for selecting projects planned for 2027:

The 2027 'Water Mains Replace/Rehab/Improve - Pavement Management' projects replace existing failed and/or undersized water mains, provide minor valve and hydrant improvements in conjunction with associated roadway construction projects, improve system hydraulics. Additional 2027 hydraulic improvement projects remain under development.

Operating Costs

What are the estimated annual operating costs associated with the projects planned within this program?

Personnel

<i># of FTEs</i>	<i>Annual Cost</i>	<i>Description</i>
<input type="text"/>	<input type="text"/>	<input type="text"/>

Non-Personnel

<i>Major</i>	<i>Amount</i>	<i>Description</i>
2022 Capital Budget		Agency Requests

<i>Major</i>	<i>Amount</i>	<i>Description</i>

Notes

Notes:

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2022 Capital Improvement Plan Program Budget Proposal

Identifying Information

Agency	<input type="text" value="Water Utility"/>	Proposal Name	<input type="text" value="Water Meter and Fixed N"/>
Project Number	<input type="text" value="12340"/>	Project Type	<input type="text" value="Program"/>
Project Category	<input type="text" value="Utility"/>	Priority:	<input type="text" value="13"/>
2022 Project Number	<input type="text" value="13592"/>		

Description

This program is for the water meter and fixed network advanced metering infrastructure (AMI) improvements. The program identifies projects via the State Public Service Commission (PSC) requirement for a prescribed schedule of meter replacement and testing. The goal of the program is to maximize the accuracy of the municipal services statements issued to customers. Progress will be measured by comparing the meter maintenance against the respective prescribed schedules as well as monitoring the total non-revenue water volume.

Budget Information

Prior Appropriation*

*Based on Fiscal Years 2015-2020

Prior Year Actual

Budget by Funding Source

Funding Source	2022	2023	2024	2025	2026	2027
Reserves Applied - Water	513,000	526,000	539,000	552,000	566,000	580,000
Total	\$513,000	\$526,000	\$539,000	\$552,000	\$566,000	\$580,000

Budget by Expenditure Type

Expense Type	2022	2023	2024	2025	2026	2027
Machinery and Equipment	513,000	526,000	539,000	552,000	566,000	580,000
Total	\$513,000	\$526,000	\$539,000	\$552,000	\$566,000	\$580,000

Explain any changes from the 2021 CIP in the proposed funding for this program.

No significant changes from the 2021 CIP.

Priority & Justification

Citywide Element

Strategy

Describe how this project 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 statements are issued to all customers and allows customers to monitor consumption practices to make educated decisions on their water use habits.

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.

Describe how Black, Indigenous, and People of Color, people living with lower incomes, and people who are otherwise marginalized (because of gender, age, home language, etc.) would be affected by the proposed budget or budget change(s)?

MWU formalized its Asset Management Program with the development of a Strategic Asset Management Plan (SAMP) in 2018. SAMP principles help guide MWU 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 to plan and prioritize capital project spending. Projects are driven by MWU Board policies and City, State, and Federal regulatory guidelines set by, for example, Wisconsin DNR and the PSC of Wisconsin.

What City agencies or community partners are affected by, care about, or already working on issues related to this project/program?

The projects within this program are internal infrastructure improvements and as such are not visible to the public. Despite the concealed nature of these improvements, the priorities will have noticeable impacts on MWU's service delivery, whether by improving water quality, energy efficiency, water pressure, or system reliability. All MWU customers, regardless of race or income, will share in the benefits.

Have we asked for their perspectives directly and, if so, how have we incorporated their feedback?

N/A

How will we continue to communicate with them in this process?

N/A

Have we used any data related to the project/program that details race, non-binary and transgender people, people with disabilities, those experiencing homelessness, or undocumented status?

- Yes
 No
 Some, not all

Is the proposed budget or budget change related to a recommendation from any of the City's teams or initiatives that connect community need with opportunities to advance racial equity, inclusion, and social justice (e.g., NRTs, RESJI, LCET, MAC, WIC, Equitable Workforce Plans)?

- Yes No

If so, please identify the respective group and recommendation.

Project Schedule & Location

2022 Projects

Project Name	Est Cost	Location
5/8", 3/4" & 1" Meter Purchase/Set/Change	\$307,000	Meters to be installed citywide
1.5" & 2" Meter Purchase/Set/Change	\$154,000	Meters to be installed citywide
3" and Larger Meter Purchase/Set/Change	\$52,000	Meters to be installed citywide

Explain the justification for selecting projects planned for 2022:

PSC Chapter 185.32 requires water utilities to meter and bill all customers. PSC Chapter 185.73 requires water utilities to test and change out all meters on a 20 year schedule. Meters are required to be accurate within PSC stated limits.

2023 Projects

Project Name	Est Cost	Location
5/8", 3/4" & 1" Meter Purchase/Set/Change	\$316,000	Meters to be installed citywide
1.5" & 2" Meter Purchase/Set/Change	\$158,000	Meters to be installed citywide
3" and Larger Meter Purchase/Set/Change	\$52,000	Meters to be installed citywide

Explain the justification for selecting projects planned for 2023:

PSC Chapter 185.32 requires water utilities to meter and bill all customers. PSC Chapter 185.73 requires water utilities to test and change out all meters on a 20 year schedule. Meters are required to be accurate within PSC stated limits.

2024 Projects

Project name	Est Cost	Location
5/8", 3/4" & 1" Meter Purchase/Set/Change	\$323,000	Meters to be installed citywide
1.5" & 2" Meter Purchase/Set/Change	\$162,000	Meters to be installed citywide
3" and Larger Meter Purchase/Set/Change	\$54,000	Meters to be installed citywide

Explain the justification for selecting projects planned for 2024:

PSC Chapter 185.32 requires water utilities to meter and bill all customers. PSC Chapter 185.73 requires water utilities to test and change out all meters on a 20 year schedule. Meters are required to be accurate within PSC stated limits.

Project name	Est Cost	Location
5/8", 3/4" & 1" Meter Purchase/Set/Change	\$331,000	Meters to be installed citywide
1.5" & 2" Meter Purchase/Set/Change	\$166,000	Meters to be installed citywide
3" and Larger Meter Purchase/Set/Change	\$55,000	Meters to be installed citywide

Explain the justification for selecting projects planned for 2025:

PSC Chapter 185.32 requires water utilities to meter and bill all customers. PSC Chapter 185.73 requires water utilities to test and change out all meters on a 20 year schedule. Meters are required to be accurate within PSC stated limits.

2026 Projects

Project name	Est Cost	Location
5/8", 3/4" & 1" Meter Purchase/Set/Change	\$340,000	Meters to be installed citywide
1.5" & 2" Meter Purchase/Set/Change	\$170,000	Meters to be installed citywide
3" and Larger Meter Purchase/Set/Change	\$56,000	Meters to be installed citywide

Explain the justification for selecting projects planned for 2026:

PSC Chapter 185.32 requires water utilities to meter and bill all customers. PSC Chapter 185.73 requires water utilities to test and change out all meters on a 20 year schedule. Meters are required to be accurate within PSC stated limits.

2027 Projects

Project Name	Est Cost	Location
5/8", 3/4" & 1" Meter Purchase/Set/Change	348,000	Meters to be installed citywide
1.5" & 2" Meter Purchase/Set/Change	174,000	Meters to be installed citywide
3" and Larger Meter Purchase/Set/Change	58,000	Meters to be installed citywide

Explain the justification for selecting projects planned for 2027:

PSC Chapter 185.32 requires water utilities to meter and bill all customers. PSC Chapter 185.73 requires water utilities to test and change out all meters on a 20 year schedule. Meters are required to be accurate within PSC stated limits.

Operating Costs

What are the estimated annual operating costs associated with the projects planned within this program?

Personnel

# of FTEs	Annual Cost	Description
<input type="text"/>	<input type="text"/>	<input type="text"/>

Non-Personnel

Major	Amount	Description
<input type="text"/>	<input type="text"/>	<input type="text"/>

Notes

Notes:

2022 Capital Improvement Plan Program Budget Proposal

Identifying Information

Agency	<input type="text" value="Water Utility"/>	Proposal Name	<input type="text" value="Water Utility Facility Imp"/>
Project Number	<input type="text" value="10440"/>	Project Type	<input type="text" value="Program"/>
Project Category	<input type="text" value="Utility"/>	Priority:	<input type="text" value="2"/>
2022 Project Number	<input type="text" value="13591"/>		

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 2021 is for SCADA system upgrades and expansion, fiber optic installation and upgrade, deep well variable frequency drive (VFD) installs, facility safety and security upgrades, and other miscellaneous upgrades.

Budget Information

Prior Appropriation* **Prior Year Actual**

*Based on Fiscal Years 2015-2020

Budget by Funding Source

<i>Funding Source</i>	2022	2023	2024	2025	2026	2027
Reserves Applied - Water	847,000	844,700	1,175,000	825,000	865,000	891,000
Total	\$847,000	\$844,700	\$1,175,000	\$825,000	\$865,000	\$891,000

Budget by Expenditure Type

<i>Expense Type</i>	2022	2023	2024	2025	2026	2027
Machinery and Equipment	403,000	388,700	329,000	343,000	368,000	380,000
Building	444,000	456,000	846,000	482,000	497,000	511,000
Total	\$847,000	\$844,700	\$1,175,000	\$825,000	\$865,000	\$891,000

Explain any changes from the 2021 CIP in the proposed funding for this program.

This program has been reduced from our 2021 CIP and reallocated to other programs in our 2022 CIP.

Priority & Justification

Citywide Element

Strategy

Describe how this project advances the Citywide Element:

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.

Describe how Black, Indigenous, and People of Color, people living with lower incomes, and people who are otherwise marginalized (because of gender, age, home language, etc.) would be affected by the proposed budget or budget change(s)?

MWU formalized its Asset Management Program with the development of a Strategic Asset Management Plan (SAMP) in 2018. SAMP principles help guide MWU 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 to

plan and prioritize capital project spending. Projects are driven by MWU Board policies and City, State, and Federal regulatory guidelines set by, for example, Wisconsin DNR and the PSC of Wisconsin.

What City agencies or community partners are affected by, care about, or already working on issues related to this project/program?

The projects within this program are internal infrastructure improvements and as such are not visible to the public. Despite the concealed nature of these improvements, the priorities will have noticeable impacts on MWU's service delivery, whether by improving water quality, energy efficiency, water pressure, or system reliability. All MWU customers, regardless of race or income, will share in the benefits.

Have we asked for their perspectives directly and, if so, how have we incorporated their feedback?

N/A

How will we continue to communicate with them in this process?

N/A

Have we used any data related to the project/program that details race, non-binary and transgender people, people with disabilities, those experiencing homelessness, or undocumented status?

- Yes
- No
- Some, not all

Is the proposed budget or budget change related to a recommendation from any of the City's teams or initiatives that connect community need with opportunities to advance racial equity, inclusion, and social justice (e.g., NRTs, RESJI, LCET, MAC, WIC, Equitable Workforce Plans)?

- Yes
- No

If so, please identify the respective group and recommendation.

Project Schedule & Location

2022 Projects

Project Name	Est Cost	Location
SCADA System Upgrade and Expansion	\$26,000	Various Unit Wells and Booster Pump Stations
Fiber Optic System Installation & Upgrade	\$70,000	Various Unit Wells and Booster Pump Stations
Control & Instrumentation Replacement/Upgrade	\$121,000	Various Unit Wells and Booster Pump Stations
Deep Well VFD Installs & MCC Upgrades	\$130,000	Various Unit Wells and Booster Pump Stations
Well Equipment	\$56,000	Various Unit Wells and Booster Pump Stations
Various Olin & Paterson Building Site Improvements	\$50,000	119 E Olin Ave-Heim Bldg & 110 S Paterson St-Ops Center
Unexpected UW and BPS Mechanical Failures	\$268,000	Various Unit Wells and Booster Pump Stations
Facility Safety & Security Upgrades	\$52,000	Various Water Utility Sites
Miscellaneous Facility Upgrades	\$74,000	Various Water Utility Sites

Explain the justification for selecting projects planned for 2022:

Projects are decided by applying MWU's Asset Management program to the list of potential projects.

2023 Projects

Project Name	Est Cost	Location
SCADA System Upgrade and Expansion	\$27,000	Various Unit Wells and Booster Pump Stations
Fiber Optic System Installation & Upgrade	\$90,000	Various Unit Wells and Booster Pump Stations
Control & Instrumentation Replacement/Upgrade	\$92,000	Various Unit Wells and Booster Pump Stations
Deep Well VFD Installs & MCC Upgrades	\$122,000	Various Unit Wells and Booster Pump Stations
Well Equipment	\$57,700	Various Unit Wells and Booster Pump Stations
Various Olin & Paterson Building Site Improvements	\$50,000	119 E Olin Ave-Heim Bldg & 110 S Paterson St-Ops Center

<i>Project Name</i>	<i>Est Cost</i>	<i>Location</i>
Unexpected UW and BPS Mechanical Failures	\$276,000	Various Unit Wells and Booster Pump Stations
Facility Safety & Security Upgrades	\$54,000	Various Water Utility Sites
Miscellaneous Facility Upgrades	\$76,000	Various Water Utility Sites

Explain the justification for selecting projects planned for 2023:

Projects are decided by applying MWU's Asset Management program to the list of potential projects.

2024 Projects

<i>Project name</i>	<i>Est Cost</i>	<i>Location</i>
SCADA System Upgrade and Expansion	\$28,000	Various Unit Wells and Booster Pump Stations
Fiber Optic System Installation & Upgrade	\$50,000	Various Unit Wells and Booster Pump Stations
Control & Instrumentation Replacement/Upgrade	\$95,000	Various Unit Wells and Booster Pump Stations
Deep Well VFD Installs & MCC Upgrades	\$96,600	Various Unit Wells and Booster Pump Stations
Well Equipment	\$59,400	Various Unit Wells and Booster Pump Stations
Various Olin & Paterson Building Site Improvements	\$428,000	119 E Olin Ave-Heim Bldg & 110 S Paterson St-Ops Center
Unexpected UW and BPS Mechanical Failures	\$284,000	Various Unit Wells and Booster Pump Stations
Facility Safety & Security Upgrades	\$56,000	Various Water Utility Sites
Miscellaneous Facility Upgrades	\$78,000	Various Water Utility Sites

Explain the justification for selecting projects planned for 2024:

Projects are decided by applying MWU's Asset Management program to the list of potential projects.

2025 Projects

<i>Project name</i>	<i>Est Cost</i>	<i>Location</i>
SCADA System Upgrade and Expansion	\$29,000	Various Unit Wells and Booster Pump Stations
Fiber Optic System Installation & Upgrade	\$80,000	Various Unit Wells and Booster Pump Stations
Control & Instrumentation Replacement/Upgrade	\$98,000	Various Unit Wells and Booster Pump Stations
Deep Well VFD Installs & MCC Upgrades	\$75,000	Various Unit Wells and Booster Pump Stations
Well Equipment	\$61,000	Various Unit Wells and Booster Pump Stations
Various Olin & Paterson Building Site Improvements	\$51,000	119 E Olin Ave-Heim Bldg & 110 S Paterson St-Ops Center
Unexpected UW and BPS Mechanical Failures	\$293,000	Various Unit Wells and Booster Pump Stations
Facility Safety & Security Upgrades	\$58,000	Various Water Utility Sites
Miscellaneous Facility Upgrades	\$80,000	Various Water Utility Sites

Explain the justification for selecting projects planned for 2025:

Projects are decided by applying MWU's Asset Management program to the list of potential projects.

2026 Projects

<i>Project name</i>	<i>Est Cost</i>	<i>Location</i>
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<i>Project name</i>	<i>Est Cost</i>	<i>Location</i>
SCADA System Upgrade and Expansion	\$30,000	Various Unit Wells and Booster Pump Stations
Fiber Optic System Installation & Upgrade	\$52,000	Various Unit Wells and Booster Pump Stations
Control & Instrumentation Replacement/Upgrade	\$101,000	Various Unit Wells and Booster Pump Stations
Deep Well VFD Installs & MCC Upgrades	\$122,000	Various Unit Wells and Booster Pump Stations
Well Equipment	\$63,000	Various Unit Wells and Booster Pump Stations
Various Olin & Paterson Building Site Improvements	\$53,000	119 E Olin Ave-Heim Bldg & 110 S Paterson St-Ops Center
Unexpected UW and BPS Mechanical Failures	\$302,000	Various Unit Wells and Booster Pump Stations
Facility Safety & Security Upgrades	\$60,000	Various Water Utility Sites
Miscellaneous Facility Upgrades	\$82,000	Various Water Utility Sites

Explain the justification for selecting projects planned for 2026:

Projects are decided by applying MWU's Asset Management program to the list of potential projects.

2027 Projects

<i>Project Name</i>	<i>Est Cost</i>	<i>Location</i>
SCADA System Upgrade and Expansion	31,000	Various Unit Wells and Booster Pump Stations
Fiber Optic System Installation & Upgrade	54,000	Various Unit Wells and Booster Pump Stations
Control & Instrumentation Replacement/Upgrade	104,000	Various Unit Wells and Booster Pump Stations
Deep Well VFD Installs & MCC Upgrades	126,000	Various Unit Wells and Booster Pump Stations
Well Equipment	65,000	Various Unit Wells and Booster Pump Stations
Various Olin & Paterson Building Site Improvements	54,000	119 E Olin Ave-Heim Bldg & 110 S Paterson St-Ops Center
Unexpected UW and BPS Mechanical Failures	311,000	Various Unit Wells and Booster Pump Stations
Facility Safety & Security Upgrades	62,000	Various Water Utility Sites
Miscellaneous Facility Upgrades	84,000	Various Water Utility Sites

Explain the justification for selecting projects planned for 2027:

Projects are decided by applying MWU's Asset Management program to the list of potential projects.

Operating Costs

What are the estimated annual operating costs associated with the projects planned within this program?

Personnel

<i># of FTEs</i>	<i>Annual Cost</i>	<i>Description</i>
<input type="text"/>	<input type="text"/>	<input type="text"/>

Non-Personnel

<i>Major</i>	<i>Amount</i>	<i>Description</i>

Notes

Notes:

v1 03/15/2021

2022 Capital Improvement Plan Program Budget Proposal

Identifying Information

Agency	<input type="text" value="Water Utility"/>	Proposal Name	<input type="text" value="Water Utility Vehicles & E"/>
Project Number	<input type="text" value="12339"/>	Project Type	<input type="text" value="Program"/>
Project Category	<input type="text" value="Other"/>	Priority:	<input type="text" value="17"/>
2022 Project Number	<input type="text" value="13593"/>		

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 2021, funds will be used to purchase four new vehicles, a new towable lift, and other various tools and equipment, as well as modernize mapping and service equipment.

Budget Information

Prior Appropriation*

*Based on Fiscal Years 2015-2020

 Prior Year Actual

Budget by Funding Source

<i>Funding Source</i>	2022	2023	2024	2025	2026	2027
Reserves Applied - Water	554,000	261,000	542,000	271,000	560,000	282,000
Total	\$554,000	\$261,000	\$542,000	\$271,000	\$560,000	\$282,000

Budget by Expenditure Type

<i>Expense Type</i>	2022	2023	2024	2025	2026	2027
Machinery and Equipment	554,000	261,000	542,000	271,000	560,000	282,000
Total	\$554,000	\$261,000	\$542,000	\$271,000	\$560,000	\$282,000

Explain any changes from the 2021 CIP in the proposed funding for this program.

Priority & Justification

Citywide Element

Strategy

Describe how this project 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.

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.

Describe how Black, Indigenous, and People of Color, people living with lower incomes, and people who are otherwise marginalized (because of gender, age, home language, etc.) would be affected by the proposed budget or budget change(s)?

MWU formalized its Asset Management Program with the development of a Strategic Asset Management Plan (SAMP) in 2018. SAMP principles help guide MWU 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 to plan and prioritize capital project spending. Projects are driven by MWU Board policies and City, State, and Federal regulatory guidelines set by, for example, Wisconsin DNR and the PSC of Wisconsin.

What City agencies or community partners are affected by, care about, or already working on issues related to this project/program?

The projects within this program are internal infrastructure improvements and as such are not visible to the public. Despite the concealed nature of these improvements, the priorities will have noticeable impacts on MWU's service, delivery, whether by improving water quality, energy efficiency, water pressure, or system reliability. All MWU customers, regardless of race or income, will share in the benefits.

Have we asked for their perspectives directly and, if so, how have we incorporated their feedback?

N/A

How will we continue to communicate with them in this process?

N/A

Have we used any data related to the project/program that details race, non-binary and transgender people, people with disabilities, those experiencing homelessness, or undocumented status?

- Yes
 No
 Some, not all

Is the proposed budget or budget change related to a recommendation from any of the City's teams or initiatives that connect community need with opportunities to advance racial equity, inclusion, and social justice (e.g., NRTS, RESJI, LCET, MAC, WIC, Equitable Workforce Plans)?

- Yes
 No

If so, please identify the respective group and recommendation.

Project Schedule & Location

2022 Projects

Project Name	Est Cost	Location
W53 JD 710 Backhoe-Replacement	\$150,000	110 S Paterson Street
W45 Tri-Axel Dump Truck-Replacement	\$150,000	110 S Paterson Street
W52 Service Body Truck-Replacement	\$70,000	110 S Paterson Street
W96 F150 or Transit Connect-Replacement	\$30,000	119 E Olin Avenue
W51 Transit Connect-Replacement	\$30,000	119 E Olin Avenue
Small vehicle-replacement	\$30,000	110 S Paterson Street or 119 E Olin Avenue
Mapping and Survey Equipment Modernization	\$12,000	119 E Olin Avenue
Various small equipment replacements over the \$5,000 capitalization threshold	\$15,000	110 S Paterson Street and 119 E Olin Avenue
RP Valve Complete/Parts/Testing/Registration	\$27,000	110 S Paterson Street
Speed Shore Replacement Box	\$20,000	110 S Paterson Street
Various large tools and equipment	\$20,000	110 S Paterson Street and 119 E Olin Avenue

Explain the justification for selecting projects planned for 2022:

MWU maintains a list of all vehicles and equipment. Vehicles are replaced based on the year purchased to maintain safe and reliable vehicles for our employees. Equipment is evaluated yearly and replaced based on the age and condition of the equipment.

2023 Projects

Project Name	Est Cost	Location
W89 Utilmaster-replacement	\$95,000	119 E Olin Avenue
W31 Transit Connect-replacement	\$35,000	119 E Olin Avenue

<i>Project Name</i>	<i>Est Cost</i>	<i>Location</i>
W76 F150-replacement	\$35,000	110 S Paterson Street
Mapping and Survey Equipment Modernization	\$13,000	119 E Olin Avenue
Various small equipment replacements over the \$5,000 capitalization threshold	\$15,000	110 S Paterson Street and 119 E Olin Avenue
RP Valve Complete/Parts/Testing/Registration	\$27,000	110 S Paterson Street
Speed Shore Replacement Box	\$20,000	110 S Paterson Street
Various large tools and equipment	\$21,000	110 S Paterson Street and 119 E Olin Avenue

Explain the justification for selecting projects planned for 2023:

MWU maintains a list of all vehicles and equipment. Vehicles are replaced based on the year purchased to maintain safe and reliable vehicles for our employees. Equipment is evaluated yearly and replaced based on the age and condition of the equipment.

2024 Projects

<i>Project name</i>	<i>Est Cost</i>	<i>Location</i>
W80 JD 410 Backhoe-replacement	\$130,000	110 S Paterson Street
W71 Tri-Axel Dump Truck-replacement	\$173,000	110 S Paterson Street
W10 Utilimaster-replacement	\$105,000	110 S Paterson Street
W29 Electric Vehicle-replacement	\$35,000	119 E Olin Avenue
Mapping and Survey Equipment Modernization	\$14,000	119 E Olin Avenue
Various small equipment replacements over the \$5,000 capitalization threshold	\$15,000	110 S Paterson Street and 119 E Olin Avenue
RP Valve Complete/Parts/Testing/Registration	\$28,000	110 S Paterson Street
Speed Shore Replacement Box	\$21,000	110 S Paterson Street
Various large tools and equipment	\$21,000	110 S Paterson Street and 119 E Olin Avenue

Explain the justification for selecting projects planned for 2024:

MWU maintains a list of all vehicles and equipment. Vehicles are replaced based on the year purchased to maintain safe and reliable vehicles for our employees. Equipment is evaluated yearly and replaced based on the age and condition of the equipment.

2025 Projects

<i>Project name</i>	<i>Est Cost</i>	<i>Location</i>
W1 F250 Valve Operating Truck-replacement	\$60,000	110 S Paterson Street
W78 Utilimaster-replacement	\$110,000	110 S Paterson Street
Mapping and Survey Equipment Modernization	\$15,000	119 E Olin Avenue
Various small equipment replacements over the \$5,000 capitalization threshold	\$15,000	110 S Paterson Street and 119 E Olin Avenue
RP Valve Complete/Parts/Testing/Registration	\$28,000	110 S Paterson Street
Speed Shore Replacement Box	\$21,000	110 S Paterson Street
Various large tools and equipment	\$22,000	110 S Paterson Street and 119 E Olin Avenue

Explain the justification for selecting projects planned for 2025:

MWU maintains a list of all vehicles and equipment. Vehicles are replaced based on the year purchased to maintain safe and reliable vehicles for our employees. Equipment is evaluated yearly and replaced based on the age and condition of the equipment.

2026 Projects

<i>Project name</i>	<i>Est Cost</i>	<i>Location</i>
W4 Tri-Axel Dump Truck-replacement	\$174,000	110 S Paterson Street
W84 JD 410 Backhoe-replacement	\$130,000	110 S Paterson Street
W79 Electric Vehicle-replacement	\$38,000	119 E Olin Avenue
W85 Electric Vehicle-replacement	\$38,000	110 S Paterson Street
W17 Electric Vehicle-replacement	\$38,000	119 E Olin Avenue
W75 Electric Vehicle-replacement	\$38,000	110 S Paterson Street
Mapping and Survey Equipment Modernization	\$16,000	119 E Olin Avenue
Various small equipment replacements over the \$5,000 capitalization threshold	\$15,000	110 S Paterson Street and 119 E Olin Avenue
RP Valve Complete/Parts/Testing/Registration	\$29,000	110 S Paterson Street
Speed Shore Replacement Box	\$22,000	110 S Paterson Street
Various large tools and equipment	\$22,000	110 S Paterson Street and 119 E Olin Avenue

Explain the justification for selecting projects planned for 2026:

MWU maintains a list of all vehicles and equipment. Vehicles are replaced based on the year purchased to maintain safe and reliable vehicles for our employees. Equipment is evaluated yearly and replaced based on the age and condition of the equipment.

2027 Projects

<i>Project Name</i>	<i>Est Cost</i>	<i>Location</i>
W8 Utilimaster-replacement	95,000	110 S Paterson Street
W69 Electric Vehicle-replacement	40,000	110 S Paterson Street
W103 Electric Vehicle-replacement	40,000	110 S Paterson Street
Mapping and Survey Equipment Modernization	16,000	119 E Olin Avenue
Various small equipment replacements over the \$5,000 capitalization threshold	15,000	110 S Paterson Street and 119 E Olin Avenue
RP Valve Complete/Parts/Testing/Registration	30,000	110 S Paterson Street
Speed Shore Replacement Box	23,000	110 S Paterson Street
Various large tools and equipment	23,000	110 S Paterson Street and 119 E Olin Avenue

Explain the justification for selecting projects planned for 2027:

MWU maintains a list of all vehicles and equipment. Vehicles are replaced based on the year purchased to maintain safe and reliable vehicles for our employees. Equipment is evaluated yearly and replaced based on the age and condition of the equipment.

Operating Costs

What are the estimated annual operating costs associated with the projects planned within this program?

Personnel

<i># of FTEs</i>	<i>Annual Cost</i>	<i>Description</i>
<input type="text"/>	<input type="text"/>	<input type="text"/>

Non-Personnel

<i>Major</i>	<i>Amount</i>	<i>Description</i>
<input type="text"/>	<input type="text"/>	<input type="text"/>

Notes

Notes:

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2022 Capital Improvement Plan Program Budget Proposal

Identifying Information

Agency	<input type="text" value="Water Utility"/>	Proposal Name	<input type="text" value="Water Valve Cut-In Progri"/>
Project Number	<input type="text" value="12387"/>	Project Type	<input type="text" value="Program"/>
Project Category	<input type="text" value="Utility"/>	Priority:	<input type="text" value="16"/>
2022 Project Number	<input type="text" value="13596"/>		

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.

Budget Information

Prior Appropriation* **Prior Year Actual**

*Based on Fiscal Years 2015-2020

Budget by Funding Source

<i>Funding Source</i>	<i>2022</i>	<i>2023</i>	<i>2024</i>	<i>2025</i>	<i>2026</i>	<i>2027</i>
Reserves Applied - Water	16,000	17,000	18,000	19,000	20,000	21,000
Total	\$16,000	\$17,000	\$18,000	\$19,000	\$20,000	\$21,000

Budget by Expenditure Type

<i>Expense Type</i>	<i>2022</i>	<i>2023</i>	<i>2024</i>	<i>2025</i>	<i>2026</i>	<i>2027</i>
Water Network	16,000	17,000	18,000	19,000	20,000	21,000
Total	\$16,000	\$17,000	\$18,000	\$19,000	\$20,000	\$21,000

Explain any changes from the 2021 CIP in the proposed funding for this program.

No significant change from the 2021 CIP.

Priority & Justification

Citywide Element

Strategy

Describe how this project advances the Citywide Element:

Meeting established water supply regulations and goals is essential to renewing and maintaing critical infrastructure. Reducing the number of unplanned water outages will increae the reliability of our system and our customers' confidence in our system.

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.

Describe how Black, Indigenous, and People of Color, people living with lower incomes, and people who are otherwise marginalized (because of gender, age, home language, etc.) would be affected by the proposed budget or budget change(s)?

MWU formalized its Asset Management Program with the development of a Strategic Asset Management Plan (SAMP) in 2018. SAMP principles help guide MWU 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 to plan and prioritize capital project spending. Projects are driven by MWU Board policies and City, State, and Federal regulatory guidelines set by, for example, Wisconsin DNR and the PSC of Wisconsin.

What City agencies or community partners are affected by, care about, or already working on issues related to this project/program?

The projects within this program are internal infrastructure improvements and as such are not visible to the public. Despite the concealed nature of these improvements, the priorities will have noticeable impacts on MWU's service delivery, whether by improving water quality, energy efficiency, water pressure, or system reliability. All MWU customers, regardless of race or income, will share in the benefits.

Have we asked for their perspectives directly and, if so, how have we incorporated their feedback?

N/A

How will we continue to communicate with them in this process?

N/A

Have we used any data related to the project/program that details race, non-binary and transgender people, people with disabilities, those experiencing homelessness, or undocumented status?

- Yes
- No
- Some, not all

Is the proposed budget or budget change related to a recommendation from any of the City's teams or initiatives that connect community need with opportunities to advance racial equity, inclusion, and social justice (e.g., NRTs, RESJI, LCET, MAC, WIC, Equitable Workforce Plans)?

- Yes
- No

If so, please identify the respective group and recommendation.

Project Schedule & Location

2022 Projects

Project Name	Est Cost	Location
2022 Cut-in Valves	\$16,000	Citywide

Explain the justification for selecting projects planned for 2022:

Additional valves on a main allows for a lower number of customers out of service when MWU is repairing/rehabing a pipe.

2023 Projects

Project Name	Est Cost	Location
2023 Cut-in Valves	\$17,000	Citywide

Explain the justification for selecting projects planned for 2023:

Additional valves on a main allows for a lower number of customers out of service when MWU is repairing/rehabing a pipe.

2024 Projects

Project name	Est Cost	Location
2024 Cut-in Valves	\$18,000	Citywide

Explain the justification for selecting projects planned for 2024:

Additional valves on a main allows for a lower number of customers out of service when MWU is repairing/rehabing a pipe.

2025 Projects

Project name	Est Cost	Location
2025 Cut-in Valves	\$19,000	Citywide

Explain the justification for selecting projects planned for 2025:

Additional valves on a main allows for a lower number of customers out of service when MWU is repairing/rehabing a pipe.

2026 Projects

Project name	Est Cost	Location
2026 Cut-in Valves	\$20,000	Citywide

Explain the justification for selecting projects planned for 2026:

Additional valves on a main allows for a lower number of customers out of service when MWU is repairing/rehabing a pipe.

2027 Projects

Project Name	Est Cost	Location
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<i>Project Name</i>	<i>Est Cost</i>	<i>Location</i>
2027 Cut-in Valves	21,000	Citywide

Explain the justification for selecting projects planned for 2027:
 Additional valves on a main allows for a lower number of customers out of service when MWU is repairing/rehabing a pipe.

Operating Costs

What are the estimated annual operating costs associated with the projects planned within this program?

Personnel

<i># of FTEs</i>	<i>Annual Cost</i>	<i>Description</i>
<input type="text"/>	<input type="text"/>	<input type="text"/>

Non-Personnel

<i>Major</i>	<i>Amount</i>	<i>Description</i>
<input type="text"/>	<input type="text"/>	<input type="text"/>

Notes

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2022 Capital Improvement Plan Project Budget Proposal

Identifying Information

Agency	Water Utility	Proposal Name	Well 19 Iron and Mangan
Project Number	10448	Project Type	Project
Project Category	Utility	Priority:	7

Description

This project is for a new iron, manganese, and radium treatment system at Well 19 located on Lake Mendota Drive on the City's west side. The goal of this project is to improve water quality in the area. Progress will be measured by the change in iron, manganese, and radium concentrations, which currently do not meet Madison Water Utility standards. Funding in 2023 is for construction.

Budget Information

Total Project Budget	\$8,629,000	Prior Appropriation	\$966,000
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*Based on Fiscal Years 2015-2021

Budget by Funding Source

Funding Source	2022	2023	2024	2025	2026	2027
Revenue Bonds-Water	891,000	6,691,000	81,000	0	0	0
Total	\$891,000	\$6,691,000	\$81,000	\$0	\$0	\$0

Budget by Expenditure Type

Expense Type	2022	2023	2024	2025	2026	2027
Building	891,000	6,691,000	81,000	0	0	0
Total	\$891,000	\$6,691,000	\$81,000	\$0	\$0	\$0

Explain any changes from the 2021 CIP in the proposed funding for this project.

No significant change.

Explain any changes from the 2021 CIP in the proposed funding for this program.

No significant change.

Priority & Justification

Citywide Element Green and Resilient

Strategy Protect Madison's water supply and infrastructure to provide safe clean drinking water.

Describe how this project advances the Citywide Element:

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

What is the justification for this project?

Water quality exceeds established standards.

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.

Describe how Black, Indigenous, and People of Color, people living with lower incomes, and people who are otherwise marginalized (because of gender, age, home language, etc.) would be affected by the proposed budget or budget change(s)?

The UW19 Water Quality Mitigation project's objective is to improve the water quality of UW19 water by removing iron, manganese and radium from the source water. These naturally-occurring contaminants are present to varying degrees in the aquifer that supplies the City's water. Iron, manganese and radium at UW19 are all close to the EPA's primary (radium) or secondary standards (iron and manganese) for these contaminants.

UW19 is located on the University of Wisconsin campus near the Eagle Heights student housing complex. This well supplies water to a large area of Madison's near west side including the University of Wisconsin and University of Wisconsin Hospital campuses. Because water is supplied to all customers within a given service area without regard to race, income, gender, age, home language, etc., any improvements to the well's water quality would equally benefit those customers. In addition, the transient and semi-transient customers who are attending the University of Wisconsin or visiting the UW Hospitals, would also benefit from higher quality water.

The project will have a small impact on overall water rates which are used to fund the Utility's capital improvements. This increase would be borne by all Utility ratepayers as the Utility raises rates to fund its CIP. The increase in rates would have a larger impact on those customers with lower incomes.

What City agencies or community partners are affected by, care about, or already working on issues related to this project/program?

The University of Wisconsin. The well is located on an easement on University property.

Have we asked for their perspectives directly and, if so, how have we incorporated their feedback?

Yes, UW staff were consulted during the first phase of this project which included pilot testing of water quality treatment options. UW staff had concerns about screening facility additions from the nature preserve areas to the north and east of the well. They were also concerned about construction-related impacts to Eagle Heights housing residents. They also made it clear they did not want the existing building to be enlarged beyond what would fit on the current easement. This feedback was received before the project was delayed for several years.

How will we continue to communicate with them in this process?

When the project resumes, UW staff will be included as one of the primary stakeholders and the Utility will work with them closely to incorporate their feedback into the design and construction of the project.

Have we used any data related to the project/program that details race, non-binary and transgender people, people with disabilities, those experiencing homelessness, or undocumented status?

- Yes
- No
- Some, not all

Is the proposed budget or budget change related to a recommendation from any of the City's teams or initiatives that connect community need with opportunities to advance racial equity, inclusion, and social justice (e.g., NRTs, RESJI, LCET, MAC, WIC, Equitable Workforce Plans)?

- Yes
- No

If so, please identify the respective group and recommendation.

Project Schedule & Location

Can this project be mapped? Yes No

What is the location of the project?

Is this project on the Project's Portal? Yes No

2022 Status

Status/Phase	Est Cost	Description
	891000	Public Engagement and Engineering Services

2023 Status

Status/Phase	Est Cost	Description
	6691000	Start Construction on Filter

2024 Status

Status/Phase	Est Cost	Description
	81000	Additional Water Utility Labor

2025 Status

Status/Phase	Est Cost	Description

2026 Status

Status/Phase	Est Cost	Description

2027 Status

Status/Phase	Est Cost	Description

Operating Costs

What are the estimated annual operating costs associated with the project?

<i># of FTEs</i>	<i>Annual Cost</i>	<i>Description</i>
.83	8,700	Facility is operated by existing personnel

Non-Personnel

<i>Major</i>	<i>Amount</i>	<i>Description</i>
54	6,500	Electrical power for chemical treatment
53	25,000	Water treatment chemicals

Notes

Notes:

2022 Capital Improvement Plan Project Budget Proposal

Identifying Information

Agency	<input type="text" value="Water Utility"/>	Proposal Name	<input type="text" value="Wilson St (MLK to King)"/>
Project Number	<input type="text" value="11543"/>	Project Type	<input type="text" value="Project"/>
Project Category	<input type="text" value="Land Use and Transpor..."/>	Priority:	<input type="text" value="Select..."/>

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.

Budget Information

Total Project Budget **Prior Appropriation**

*Based on Fiscal Years 2015-2021

Budget by Funding Source

Funding Source	2022	2023	2024	2025	2026	2027
Revenue Bonds-Water			157,000			
Total	\$0	\$0	\$157,000	\$0	\$0	\$0

Budget by Expenditure Type

Expense Type	2022	2023	2024	2025	2026	2027
Water Network			157,000			
Total	\$0	\$0	\$157,000	\$0	\$0	\$0

Explain any changes from the 2021 CIP in the proposed funding for this project.

This is a new project for the 2022 CIP. Funds were reallocated from other areas so there wasn't a large change from the overall 2021 CIP budget.

Explain any changes from the 2021 CIP in the proposed funding for this program.

This is a new project for the 2022 CIP. Funds were reallocated from other areas so there wasn't a large change from the overall 2021 CIP budget.

Priority & Justification

Citywide Element

Strategy

Describe how this project advances the Citywide Element:

What is the justification for this 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.

Describe how Black, Indigenous, and People of Color, people living with lower incomes, and people who are otherwise marginalized (because of gender, age, home language, etc.) would be affected by the proposed budget or budget change(s)?

The new cycle track will greatly enhance bicycle mobility in the downtown. Water will participate in this project as Wilson Street is a major thoroughfare and we need to minimize the number of disruptions on this street. MWU costs are distributed amongst the entire utility customer base.

What City agencies or community partners are affected by, care about, or already working on issues related to this project/program?

City Engineering, Department of Transportation, Metro Transit and Neighborhood Association. This project was fully vetted through a large number of stakeholders to develop the project.

Have we asked for their perspectives directly and, if so, how have we incorporated their feedback?

This project was part of the Wilson St Corridor Study, which included many public information meetings, City Board and Commission meetings. The project was revised multiple times due to input at these meetings.

How will we continue to communicate with them in this process?

Public Information meeting, project website, Twitter, and Facebook.

Have we used any data related to the project/program that details race, non-binary and transgender people, people with disabilities, those experiencing homelessness, or undocumented status?

- Yes
- No
- Some, not all

Is the proposed budget or budget change related to a recommendation from any of the City's teams or initiatives that connect community need with opportunities to advance racial equity, inclusion, and social justice (e.g., NRTs, RESJI, LCET, MAC, WIC, Equitable Workforce Plans)?

- Yes
- No

If so, please identify the respective group and recommendation.

Project Schedule & Location

Can this project be mapped?

- Yes
- No

What is the location of the project?

Martin Luther King Jr Blvd to King Street

Is this project on the Project's Portal?

- Yes
- No

2022 Status

Status/Phase	Est Cost	Description

2023 Status

Status/Phase	Est Cost	Description

2024 Status

Status/Phase	Est Cost	Description
	157000	Pipeline Improvements

2025 Status

Status/Phase	Est Cost	Description

2026 Status

Status/Phase	Est Cost	Description

2027 Status

Status/Phase	Est Cost	Description

Operating Costs

What are the estimated annual operating costs associated with the project?

Personnel

# of FTEs	Annual Cost	Description

Non-Personnel

<i>Major</i>	<i>Amount</i>	<i>Description</i>

Notes

Notes:

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