

Far West Detroit Stormwater Improvements

Project Update Meeting

November 17, 2022



Water & Sewerage
Department



Agenda

- Greetings and Introductions
- Water and Sewer Systems
- 2022 Year In Review
 - What work has been completed
 - What work remains
- South Basin Restoration Discussion
- Planned 2023 Work
 - What work in the neighborhood looks like
 - What work in Rouge Park looks like
 - Project Schedule & Phasing
- Communication & Outreach
- Questions and Answers

Greetings & Introductions



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Project Team

Detroit Water and Sewerage Department

Bryan Peckinpaugh (Director of Public Affairs)
Sonali Patel (Public Affairs)
Lisa Wallick (Field Services Director)
Sarah Stoolmiller (Stormwater Engineer)
Anna Timmis (Project Engineer)
Ian Tamm (Construction Inspector)

City of Detroit

Mona Ali (Dept. of Neighborhoods (DON))
Alexia Davis (DON - District 7)
Ladon Davis (District 7)

Major Contracting (Contractor)

Fadi Moussa
Michael Scappaticci

OHM Advisors (Consultant)

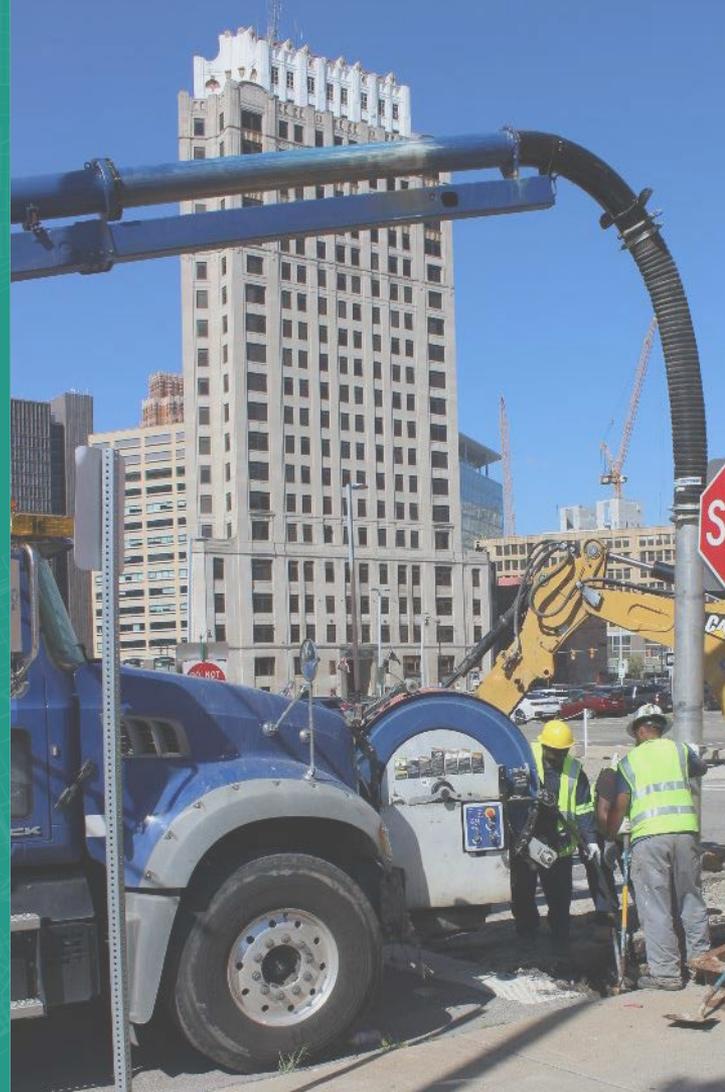
Nina Kelly (Engagement)
Greg Marker (Construction Engineering)
Patrick Droze (Design Coordination)



Water and Sewer Systems

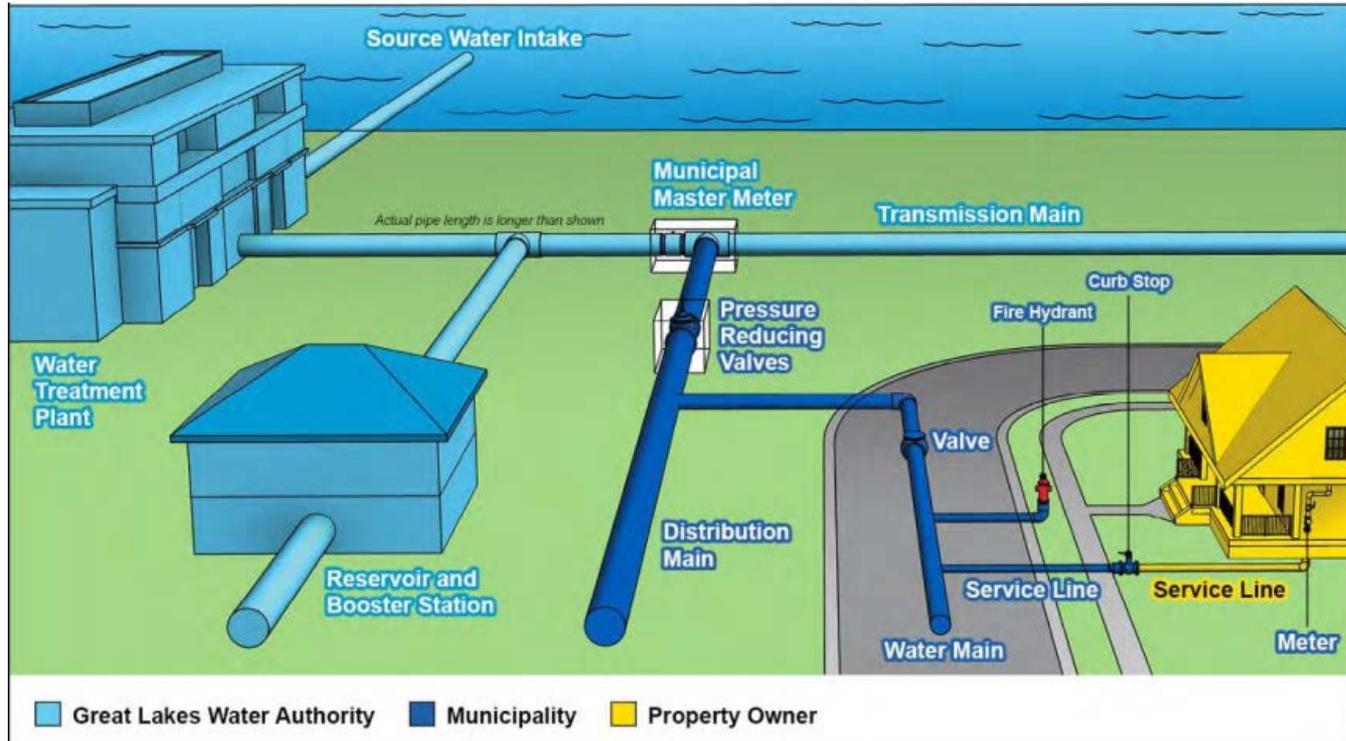


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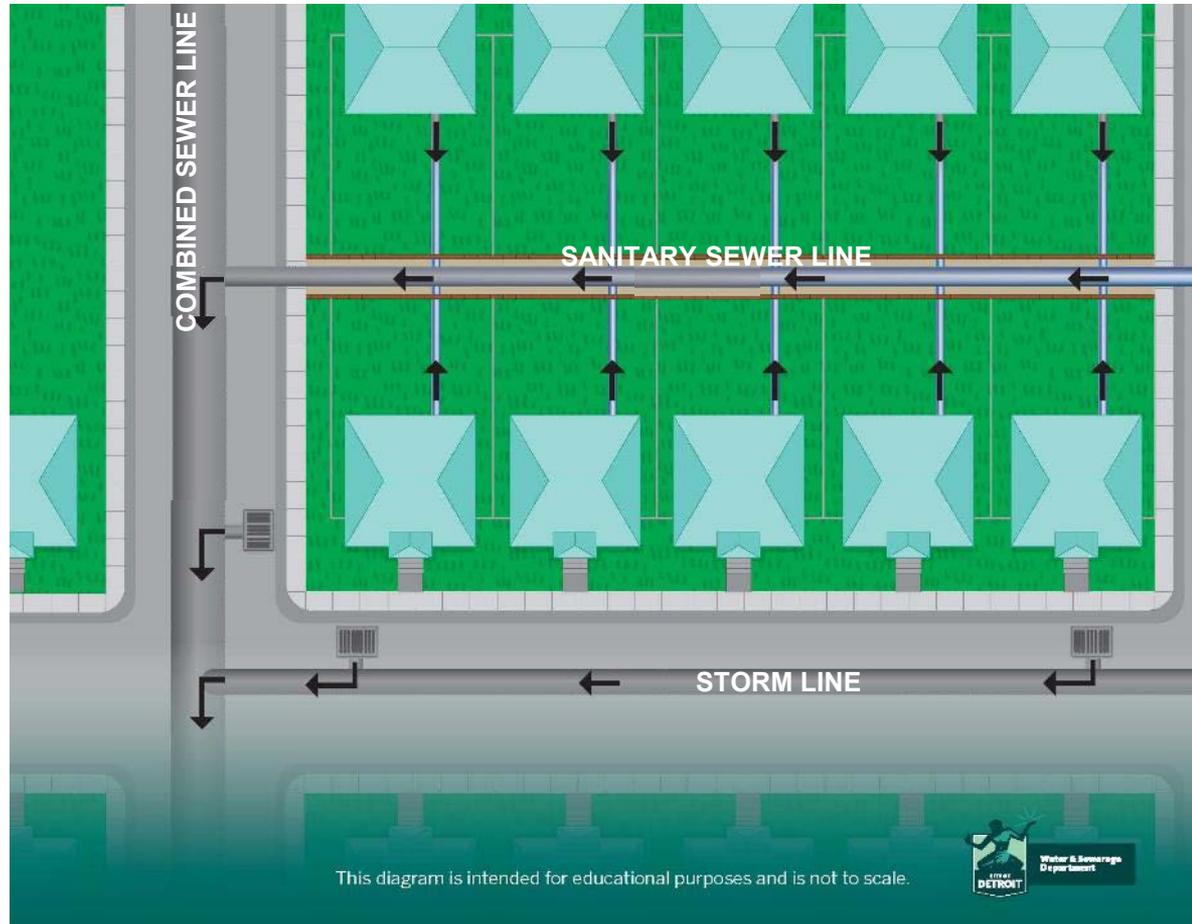
Water System

The treated drinking water system delivers clean water from water treatment plants and through the water mains to your property



Sewer System

The combined sewer system is separate from the water system – untreated sewage and stormwater is collected in pipes, pumped and treated at nine wet weather facilities, and full treatment at the GLWA Water Resource Recovery Facility



This diagram is intended for educational purposes and is not to scale.

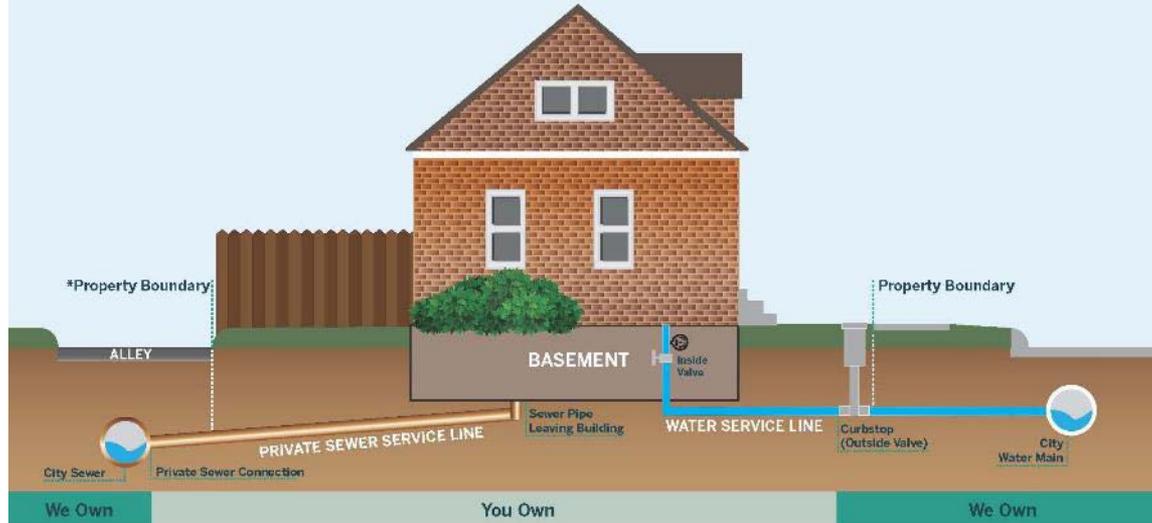
Water and Sewer Systems – Private Responsibility

YOUR RESPONSIBILITY AND OURS

THE WATER AND SEWER LINE FROM YOUR HOME



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DWSD Capital Improvement Program

Since 2019, the Detroit Water and Sewerage Department (DWSD) has taken a data-driven approach to upgrade the water and sewer systems and is investing about \$100 million a year.

The Capital Improvement Program (CIP) leverages the \$50 million annual lease payment from the Great Lakes Water Authority as well as operational improvements at DWSD.

These investment include projects in your neighborhood.

DWSD Capital Improvement Program

DWSD has **invested \$300M in capital improvement projects since 2019.**

- This includes water main, hydrant and lead service line replacement,
- sewer lining and replacement,
- and green stormwater infrastructure installations.

Condition assessments and other data are used to determine necessary upgrades .

To date, DWSD and our contractors have:

- Replaced **60 miles** of water main and **1,692** lead service lines.
- Replaced or lined **55 miles** of sewer collection piping, and Installed **12 bioretention gardens.**

DWSD crews are also performing **preventative maintenance tasks.**



Project Overview

Far West Detroit Stormwater
Improvements Project



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FAR WEST DETROIT STORMWATER IMPROVEMENTS PROJECT

DRAINAGE IMPROVEMENTS

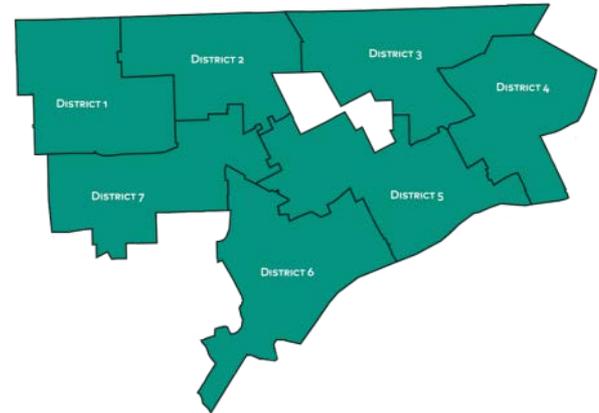
- 25,000' of new drainage piping
- 2 Water Quality Basins
- 1000+ Residential Downspout Disconnections

WATER MAIN IMPROVEMENTS

- 15,000 feet trenchless water main replacement
- 500+ water service replacements

SEWER REHABILITATION

- 20,000 feet of sewer lining and repair
- Various repairs to over 100 manholes and catch basins



Far West Detroit Neighborhood:

*Bounded by W. Warren, Joy Road, W Parkway
and Outer Drive*

Residents: 1210 homes

Schools: Ann Arbor Tr. Magnet School

Parks: Rouge Park

2022 Year In Review



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2022 Year in Review

Spring Update Meeting

• April 2022

Start of South Basin Construction

• August 2022

Water Main Installation Begins

• September 2022

Start of Downspout Disconnections

• Mid October 2022

WE ARE HERE!

Fall Project Update Meeting

• November 17, 2022

Ground Breaking

• July 2022

Tireman Bioswale Planting Meeting

• September 15, 2022

Start of Parkland Sewer

• Mid October 2022

Start of North Basin Construction

• November 14, 2022



Water Main Construction

- Installation of new water main along Ann Arbor Trail and Beaverland Street installed via directional drilling.
- Work includes new valves, hydrants and upgraded water mains.
- Driveways, lawns and sidewalks will be restored by the end of 2022. Grass restoration will be verified in Spring 2023.



Lead Service Lines

- Work initiated on water main streets.
- Replacement of non-copper water service lines as part of water main installation on segments of streets where water main is being replaced.



Downspout Disconnections

- Over 150 residents have signed up for downspout disconnections.
- Disconnecting downspouts helps to reduce stormwater impacts to combined sewers which helps to reduce flooding and basement backups
- **Sign up today** if you have not had a chance to schedule disconnections.



Before

After



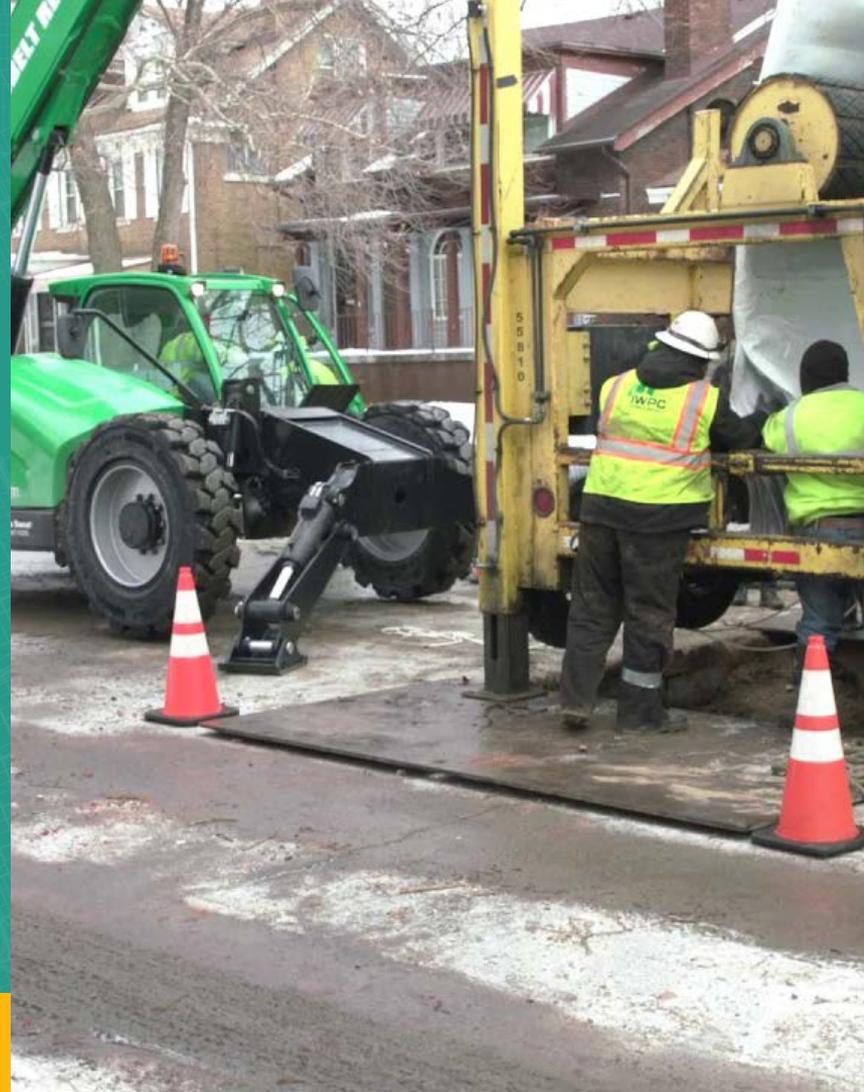
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- **Lining of rear yard combined sewers**
- **Manhole rehabilitation**

Sewer Rehabilitation



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2022 Progress

JOY ROAD

Winter 2022

OUTER DRIVE

NEIGHBORHOOD ACCESS TO ROUGE PARK TRAIL SYSTEM, TYP.

TRAIL CONNECTORS TO EXISTING ROUGE PARK TRAILS, TYP.

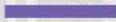
Fall 2022

TIREMAN

Summer 2022

WARREN ROAD

LEGEND

-  PURPLE TRAIL - PRAIRIE PATH
-  YELLOW TRAIL - PARKLAND TRAIL
-  GREY TRAIL - SOUTH BASIN LOOP, TBD
-  DWSD MAINTENANCE ACCESS



South Basin Construction

- Excavation of nearly 70,000 cubic yards of earth.
- Creation of linear stormwater basins for water quality treatment.
- Construction of two end sections for stormwater connections to neighborhoods at Sawyer and Majestic.



Rouge Park Restoration



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Rouge Park Restoration

Tonight we are seeking additional input from the community on how we should restore areas surrounding the south basin.



Summary of Past Engagement

- **May 25, 2020 Community Meeting**
 - Community indicated a desire for a mixture of flat and rolling terrain.
- **August 2020 – Residents Surveyed on Parkland regarding trees within Rouge Park:**
 - 45% wanted to keep open space
 - 40% wanted to add trees
 - 15% wanted a mixture of open space with trees

The surveyed community slightly favors trees within the park.



Help us decide!

Option 1: Prairie Restoration

This option will restore the area adjacent to the south basin in Rouge Park to an open, prairie space.

Option 2: Woodland Restoration

This option will include tree and shrub planting along the south basin. The plants will eventually convert the upland space around the basin into a forest ecosystem.



Discussion of Restoration

Open Space Prairie Option



Woodland Restoration Option



Discussion of Restoration – West Side of Basin

Open Space Prairie Option



Woodland Restoration Option



Discussion of Restoration – West Side of Basin

Open Space Prairie Option

Woodland Restoration Option



Discussion of Restoration – West Side of Basin

Open Space Prairie Option



Woodland Restoration Option



Discussion of Restoration – West Side of Basin

Open Space Prairie Option



Woodland Restoration Option



Discussion of Restoration – West Side of Basin

Open Space Prairie Option

Woodland Restoration Option



Restoration – Feedback

Group Discussion

Questions and Answers

Comments and Voting Choices

- After the presentation, please be sure to visit the boards in the back and **place a sticker on your preferred choice.**
- Use sticky notes to add comments.



2023 Preview



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2023 Preview (Subject to Change)

Winter / Spring 2023

- Restoration and seeding
- Parkland Storm Sewer
- North Basin

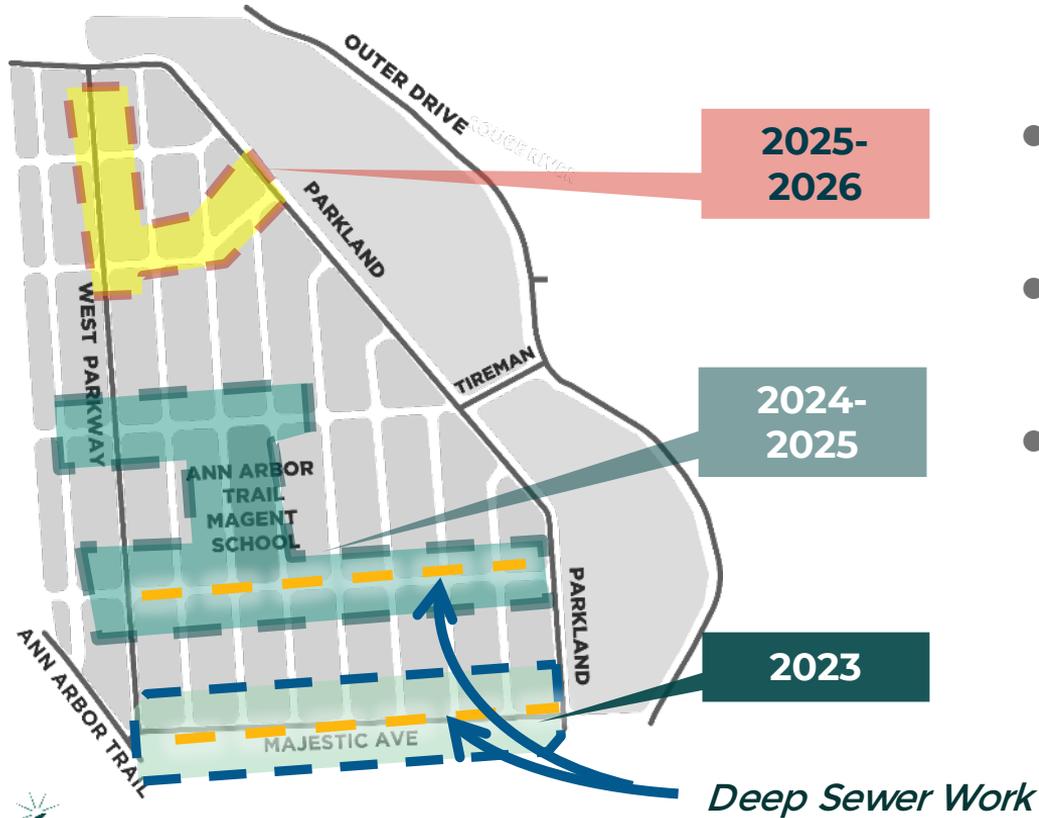
Summer 2023

- Continued Water Supply System Renewal

Potential Winter Construction

- Majestic Storm/Sanitary Sewer Construction

Year 2-5 Work



- Storm and Sanitary Sewer work on Majestic in 2023 (Full Closure with road reconstruction).
- Storm and Sanitary Sewer work will occur on Sawyer in 2024 (full closure with road reconstruction).
- Half-width construction on adjacent streets in 2025-2026 (Driveway access maintained when possible, as needed pavement repairs to streets and driveways).

Work within the neighborhood



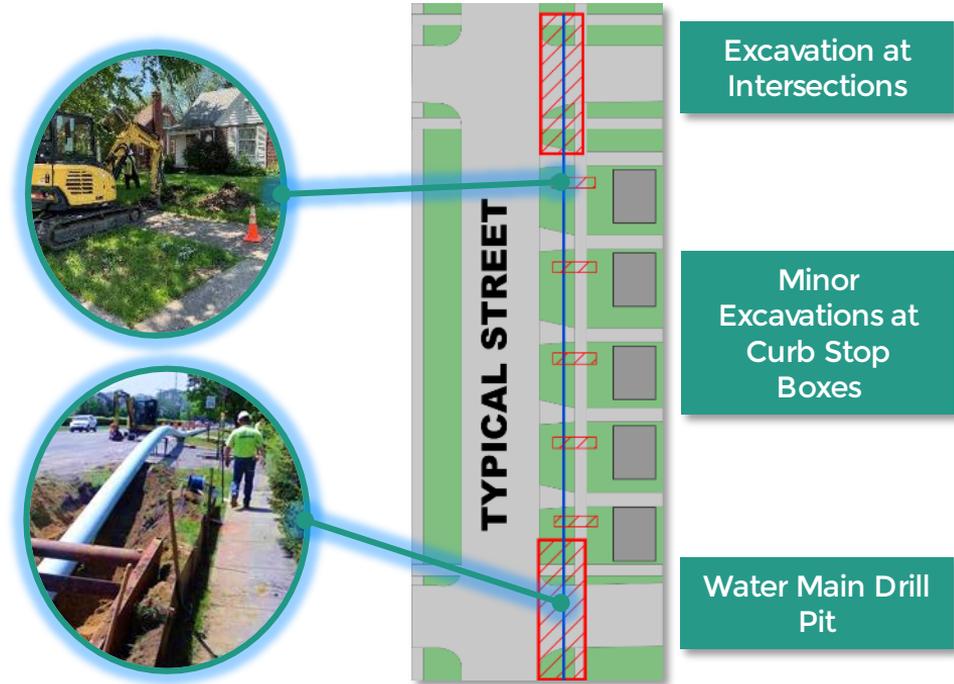
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Work in Streets – Water Main

WATER MAIN REPLACEMENT

- Water main installation will be “trenchless” to limit disruption to streets and sidewalks.
- Existing utilities may be “potholed” to locate crossings. Excavations will be protected with temporary fencing.
- New water main installation may result in temporary closures and/or reconstruction of driveways.



Activity on Residential Property

LEAD SERVICE LINE REPLACEMENT (AS NEEDED)

Note: Not all streets or homes will be eligible for Lead Service Line Replacements

- The stop box will be excavated to confirm material type.
- If a lead service is identified, a new water service will be directionally drilled from street to home and a new connection will be made at water meter in the basement.
- Residents where work may occur should have received an information packet.
- Updated process will have inspector/contractor visit home to have agreement signed if lead service line exists.

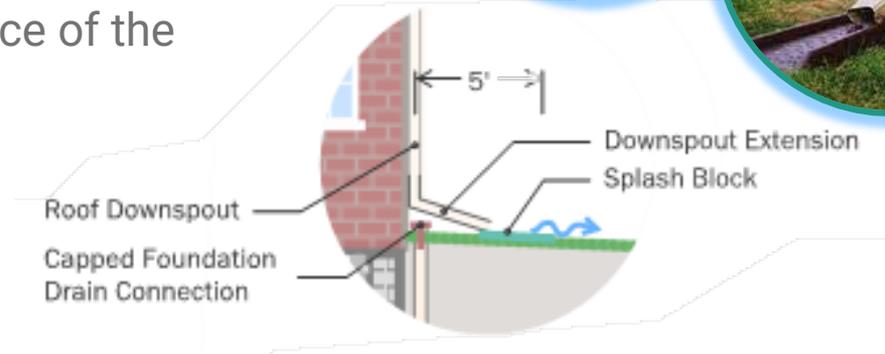


Activity on Residential Property

DOWNSPOUT DISCONNECTIONS (AS NEEDED)

- Each home in the neighborhood will have an inspections scheduled to review downspout connections.
- Any downspouts that can easily be directed to lawn and garden areas will be disconnected by contractors.
- Residents will receive door hangers and additional information in advance of the work.

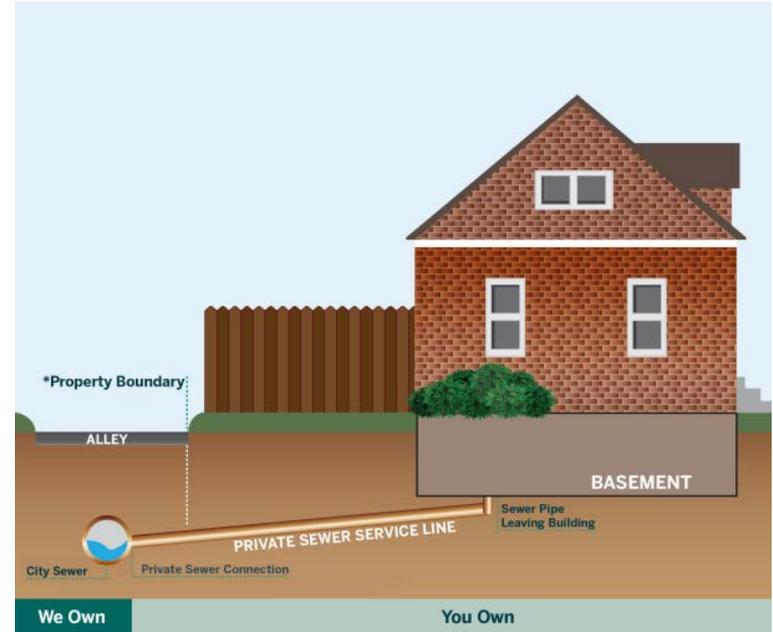
SIGN UP TODAY!



Activity on Residential Property

SEWER REPAIRS

- Portions of some sewers in rear yard/alley will be cleaned and lined.
- Some rear yard manholes will be rehabilitated which will involve excavation, grading and restoration.
- During the lining work, some residents may experience non-toxic odors.
- If private items are over the utility easement during the sewer work, the structure may need to be removed.
- Residents will receive door hangers and additional information in advance of the work.



Communication and Outreach



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COMMUNICATION: DURING CONSTRUCTION

WAYS YOU CAN STAY INFORMED:

LIST SERV:

- Send name and email address to: dwsd-publicaffairs@detroitmi.gov
Subject line: **"Far West Detroit Project"**
- Public Affairs Construction Line: 313.880-2812

PROJECT BRIEFS

- Monthly e-mail messages to the community

PROJECT PROGRESS MEETINGS

- A neighborhood-wide meeting will be held at the end of each construction season.



Questions?



313.880.2812



DWSD-publicaffairs@detroitmi.gov



www.detroitmi.gov/dwsd



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