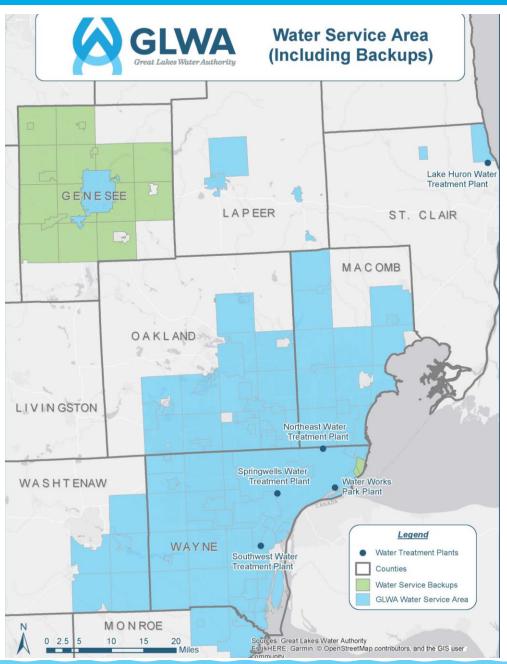
96-inch Diameter Water
96-inch Diameter Water
Transmission Main
Relocation
Project
Overview

Dated 10/14/2021. Content will be updated as new information becomes available.



### **GLWA Overview**

- The Great Lakes Water Authority (GLWA) draws water from Lake Huron and the Great Lakes tributary, the Detroit River.
- GLWA's five water treatment facilities provide high quality, safe drinking water for regional distribution.
- GLWA operates and maintains 816 miles of water transmission mains.
- GLWA provides water to 112 communities in eight Southeast Michigan counties.





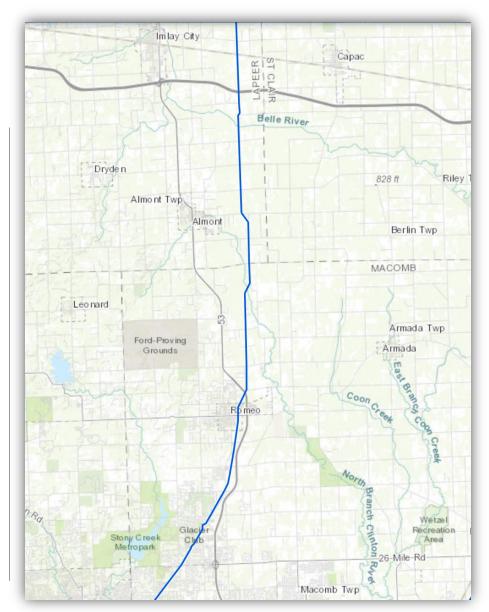
#### **Highlights: 96-inch Water Transmission Main**





### **Project Overview**

- Construct and relocate a new 2.5-mile segment of the 96-inch Water Transmission Main (WTM) outside of private property.
- Safely close and seal the segment of existing WTM within private property.
- Improve operations and maintenance of the 96-inch diameter WTM that runs from Oakland County to Lapeer County.
- Install new isolation valves to reduce the time to perform maintenance and repair.
- Construct permanent and temporary project facilities required to maintain drinking water services.
- Coordinate with large infrastructure projects to reduce the impact of construction on the local communities.
- Restore roadways to improve traffic flow and pedestrian safety at critical intersections.





#### **Project Objectives**

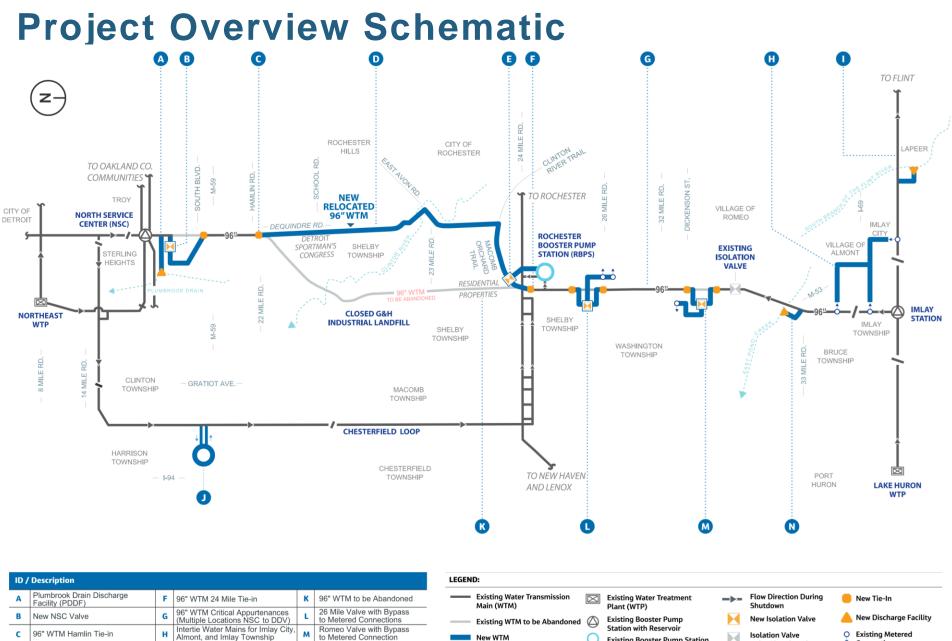
#### **Primary Objectives:**

- Relocate 96-inch water transmission main (WTM) outside of closed G&H Industrial Landfill, Detroit Sportsmen's Congress Gun Club, and residential properties to improve access for future operations and maintenance.
- Continue providing essential, uninterrupted drinking water throughout construction.

#### **Other Project Objectives Include:**

- Coordinate with other area infrastructure projects to minimize impacts.
- Improve traffic flow and pedestrian safety by making transportation enhancements.
- Design and construct infrastructure to support temporary shutdown of 96-inch WTM.





East Pond Creek Discharge

Facility (EPCDF)

Ν

#### South Branch of the Flint River New 96" WTM D . Discharge Facility (SBFRDF) 24 Mile Valve with Bypass to Chesterfield Loop Temporary E J Booster Pump Station (CLTBPS) Rochester Booster Pump Station

Isolation Valve New WTM ы Existing Booster Pump Station Connection to be Abandoned

### **Project Scope - Water**

- Design and construct a new 2.5 mile 96-inch water transmission main and other project facilities.
- Shutdown 96-inch water transmission main during the Off-Peak Season (October 15 to April 15) to connect the new water main and valves.
- Coordinate with GLWA Member Partners and Stakeholders throughout design and construction.
- Work with communities to maintain water service during construction via water main interconnections.





#### **Project Scope – Transportation**

Long-term benefits to Avon-Dequindre-23 Mile Road corridor include improved traffic flow, additional non-motorized facilities for pedestrian mobility, and aesthetic enhancements.

Improvements being coordinated with Road Commission for Oakland County (RCOC) and Macomb County Department of Roads (MCDR):

- Roadway reconstruction along Dequindre Road between Hamlin Road and East Avon Road.
- Roadway widening of Dequindre Road between 23 Mile Road and Macomb Orchard Trail.
- A new roundabout at 23 Mile Road and Dequindre Road with related pedestrian crossing safety improvements.
- Reconstruction of the Macomb Orchard Trail between Dequindre Road and 24 Mile Road.
- Roadway widening of East Avon Road by adding a center turn lane.
- Intersection improvements at Dequindre Road and School Road by adding a center turn lane.
- Intersection improvements at Dequindre Road at Hamlin Road by upgrading traffic signaling.



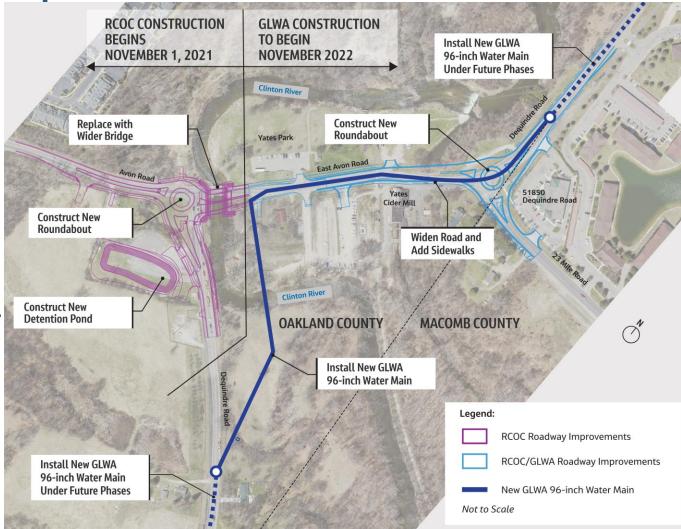
#### **Project Scope – Macomb Orchard Trail**



#### Phase 1 Construction – Proposed Avon Road Infrastructure Improvements

Avon Road Infrastructure Improvements is a coordinated effort with Road Commission for Oakland County (RCOC) Avon roadway and bridge project to reduce traffic impact.

- Construct 2,220 feet of new 96-inch water transmission main along Dequindre Road and East Avon Road.
- Improve and restore roadway on East Avon Road.





#### Avon Road Infrastructure Improvements Proposed Timeline







# Stakeholder Coordination and Public Engagement

- **Stakeholder Coordination:** Coordination and communication with communities, regulatory agencies, utility providers, and local businesses directly impacted. The primary goal is to allow all groups to provide input through design and construction phases.
- **Public Engagement:** All aspects of communication with the public indirectly impacted by the project with the goal to ensure all groups receive important communications and status updates throughout entire duration.



# Stakeholder Coordination and Public Engagement Activity

**Project Web Page:** Project content will be updated as new project information becomes available. Frequently Asked Questions will be revised as project progresses. A web form is available to register for email updates. The project email address is **96inchwatermain@glwater.org**.

**Stakeholder Advisory Committee:** Quarterly meetings are held to update key project stakeholders on design status, permitting efforts, and project coordination activities.

**Project Progress Updates:** The Project Team coordinates consistently with key project stakeholders and provides design progress updates at key design milestones.



## **V**pject Schedule Key Milestones

Key Milestone	Approximate Completion Deadline
Complete 30% Design	March 2021
Complete Avon Road Infrastructure 90% Design	July 2021
Select Construction Firm	December 2021
Begin Construction (Avon Road Infrastructure Improvements)	November 2022
Begin First 96-inch Main Shutdown	October 15, 2025
Place Entire New, Relocated 96-inch Main into Full Permanent Service	April 15, 2026
Complete Professional Engineering Services (Close-Out)	November 2027

