

PROTECTING OUR NEIGHBORHOODS



South Foster Park Pump Station and
Collection System Improvements
May 18, 2023

AGENDA



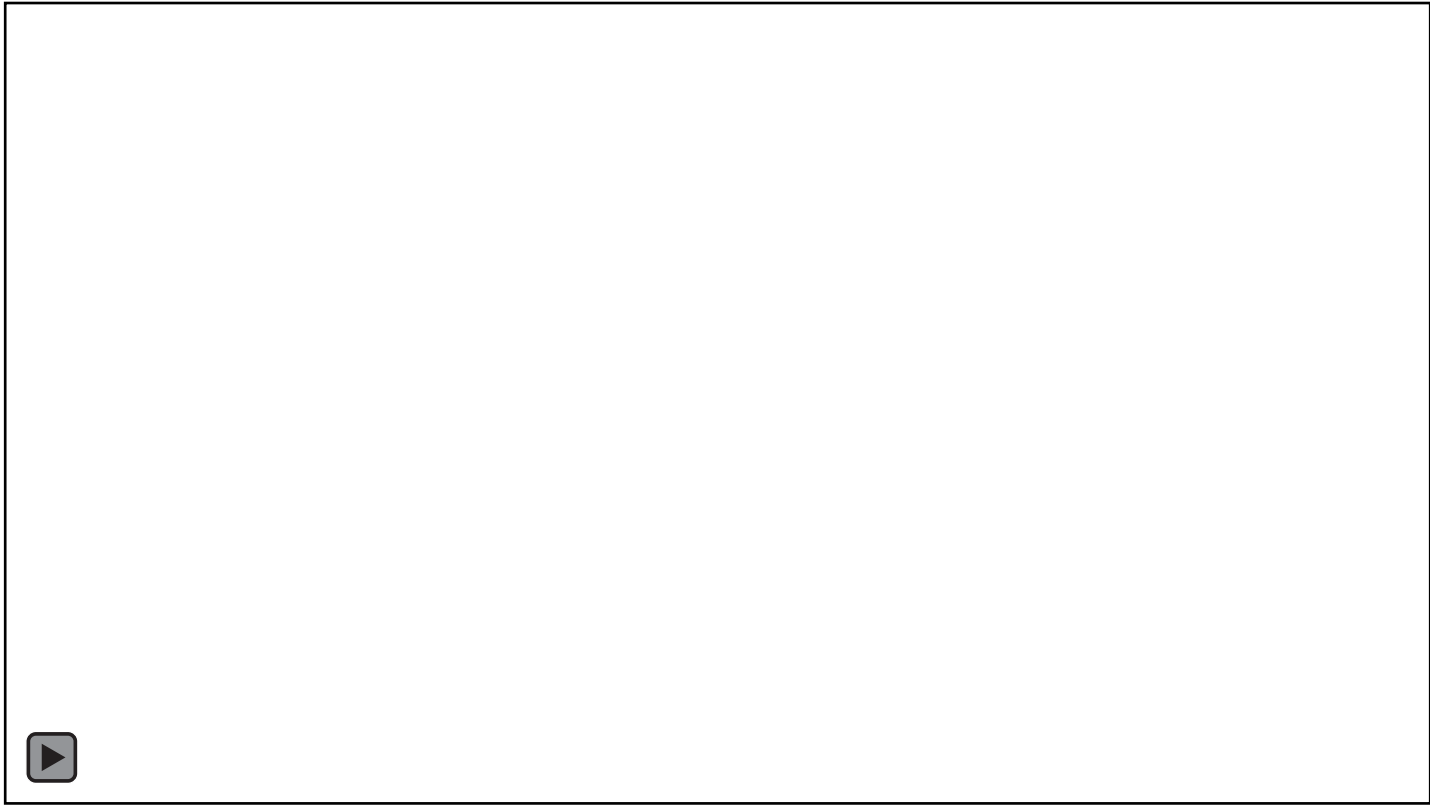
- Understanding your collection system
- Project Objectives – combined sewer system
- Project Objectives – stormwater/flooding control
- Anticipated Schedule

Trade Words



- 3RPORT – Three Rivers Protection & Overflow Reduction Tunnel
- CSO – Combined Sewer Overflow or Outfall
- Collection System
- Sanitary Sewer
- Storm Sewer
- Inlet
- LOMR – Letter of Map Revision
- Structure (or manhole)
- Pump Station

Problem



Problem



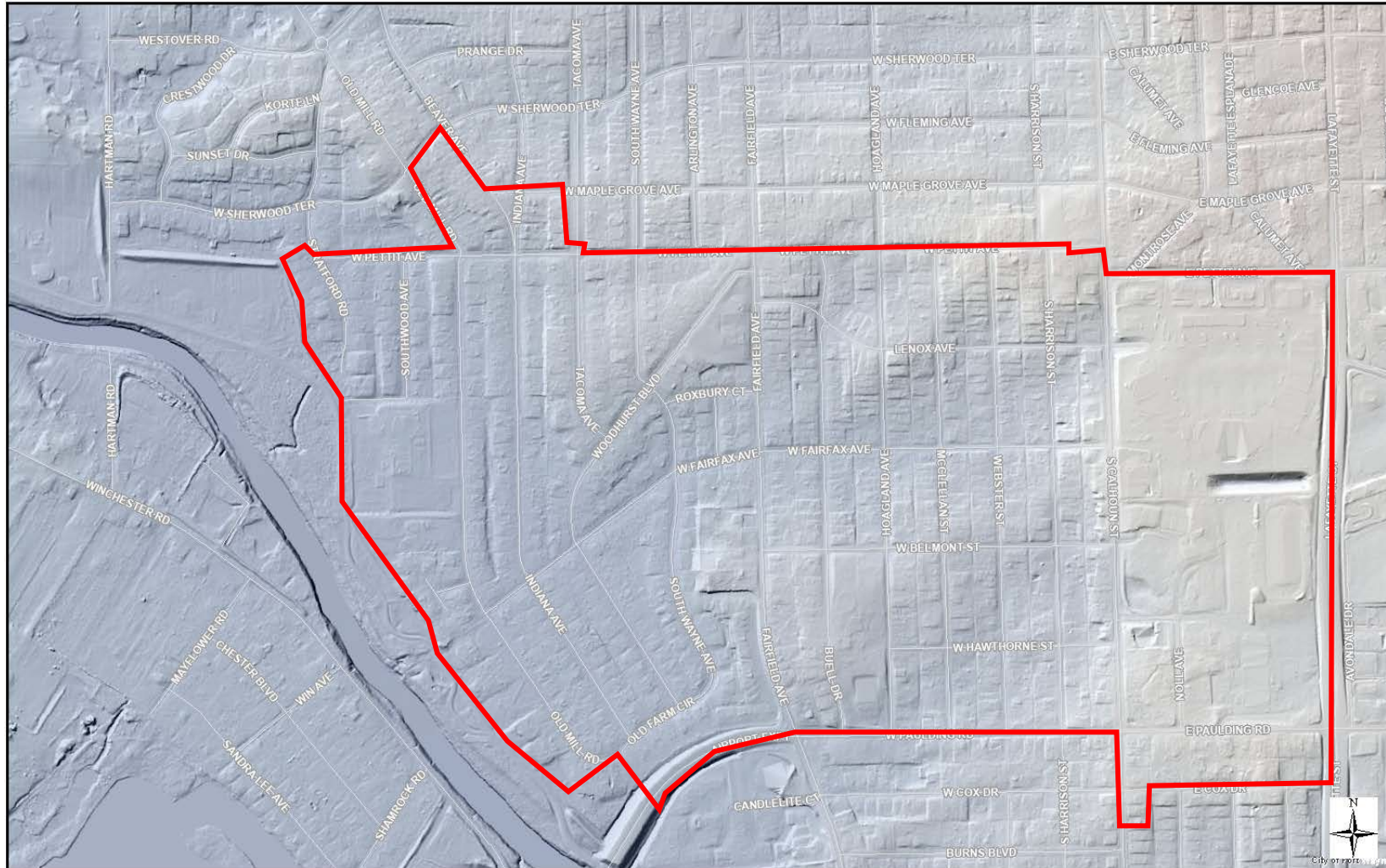
Understanding your collection system



Outline shows area that currently flows to the outfall on the St. Mary' River

[Online Map Detail](#)

Understanding your collection system



Understanding your collection system



Upcoming Sewer Projects



- CSO Consolidation Sewer
- Storm Sewer
- ★ Inlet Upgrades

Project Main Objectives

- > reduction in combined sewer overflows
- > reduction in stormwater flooding

Project Objectives – Combined Sewer

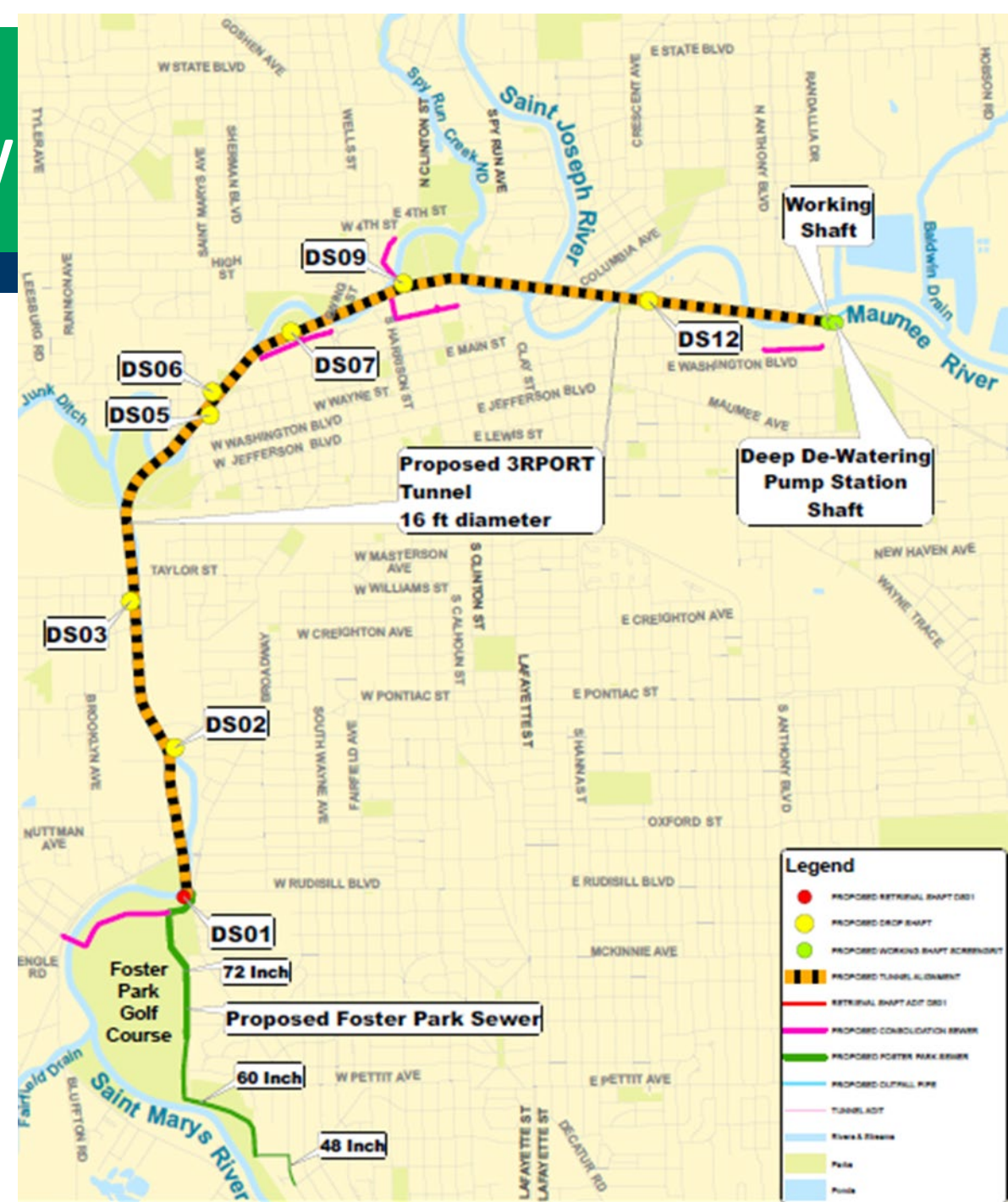


- Reduce combined sewer overflows to St Mary's River
- Pump station allows for flexibility over gravity only
- Regulatory compliance
- Increased basement backup protection



Combined Sewer Overflow

- Three Rivers Protection and Overflow Reduction Tunnel (3RPORT)
 - Deep-rock tunnel
 - Drop shafts & adits
- Deep dewatering pump station
- Near surface infrastructure
 - Consolidation sewers – (near surface sewers connecting to the tunnel)



Remaining Foster Park CSO Reduction Projects



- Part of EPA Long Term Control Plan
 - Reduce average annual overflows
 - Currently approx. 40 events per year or 19.8 Million gallons per year
 - Future average of 4 per year or less than 2 Million gallons per year



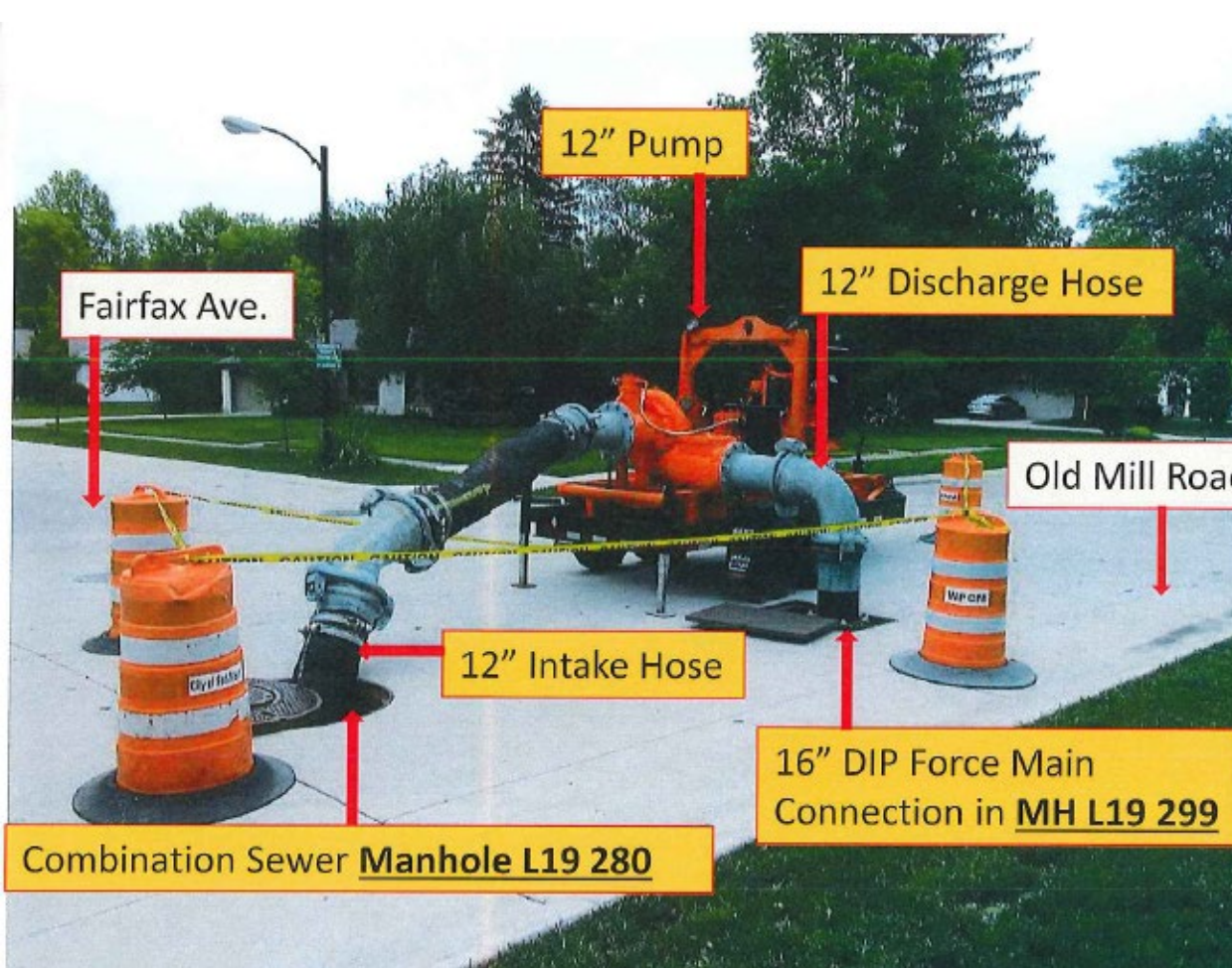
Project Objectives – Storm System



- Flood Control
 - *pump station dewateres system during high river*
- Reduce street flooding
 - *New larger inlets at low areas*
- Automated flood protection system
 - *Pump station removes need to set temporary pumps*
- LOMR Request
 - Work towards updates to floodplain mapping



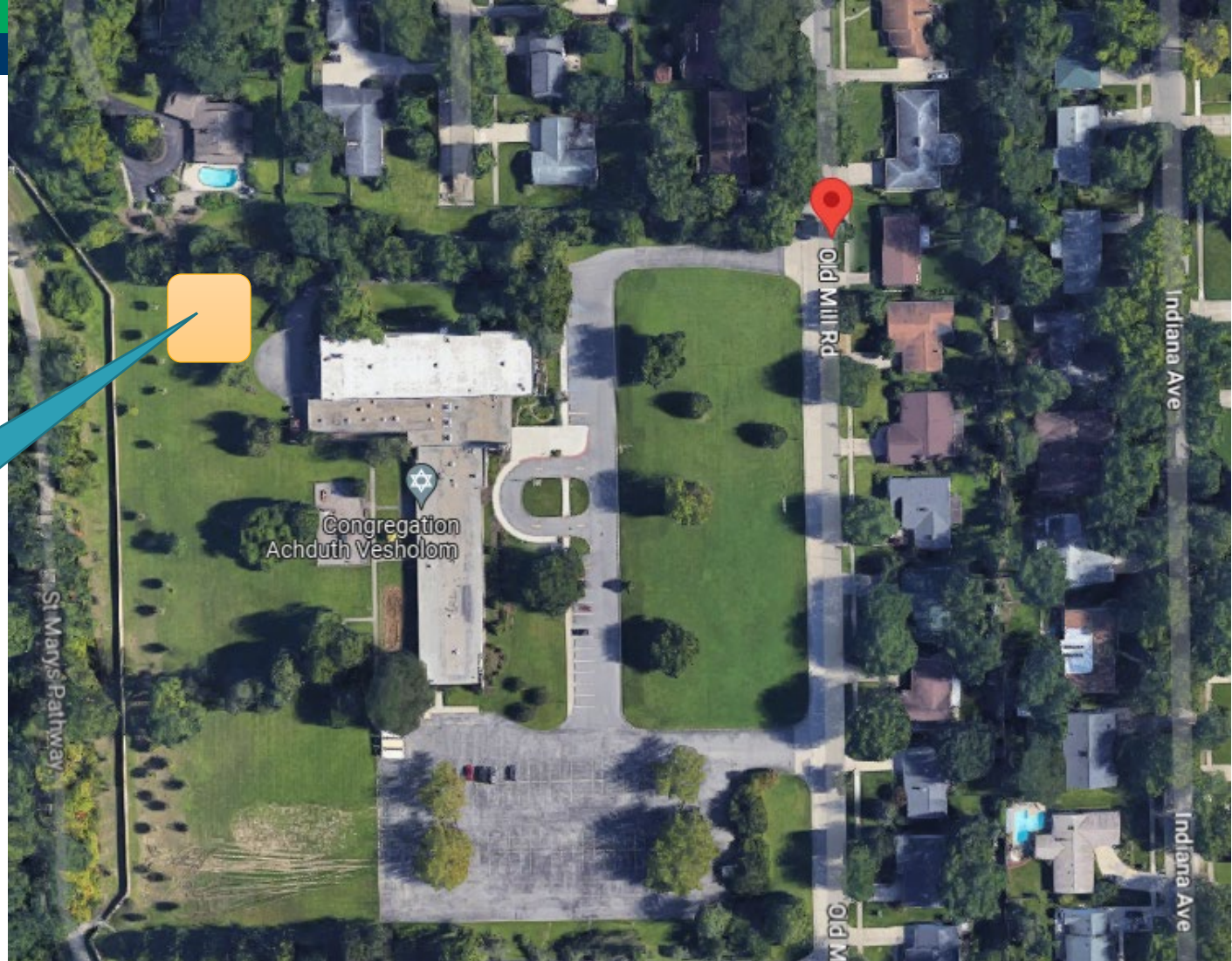
Current Flood Control Measures



Future Flood Fighting Measures



New wet weather pump station. Used to eliminate needs for temporary pumping










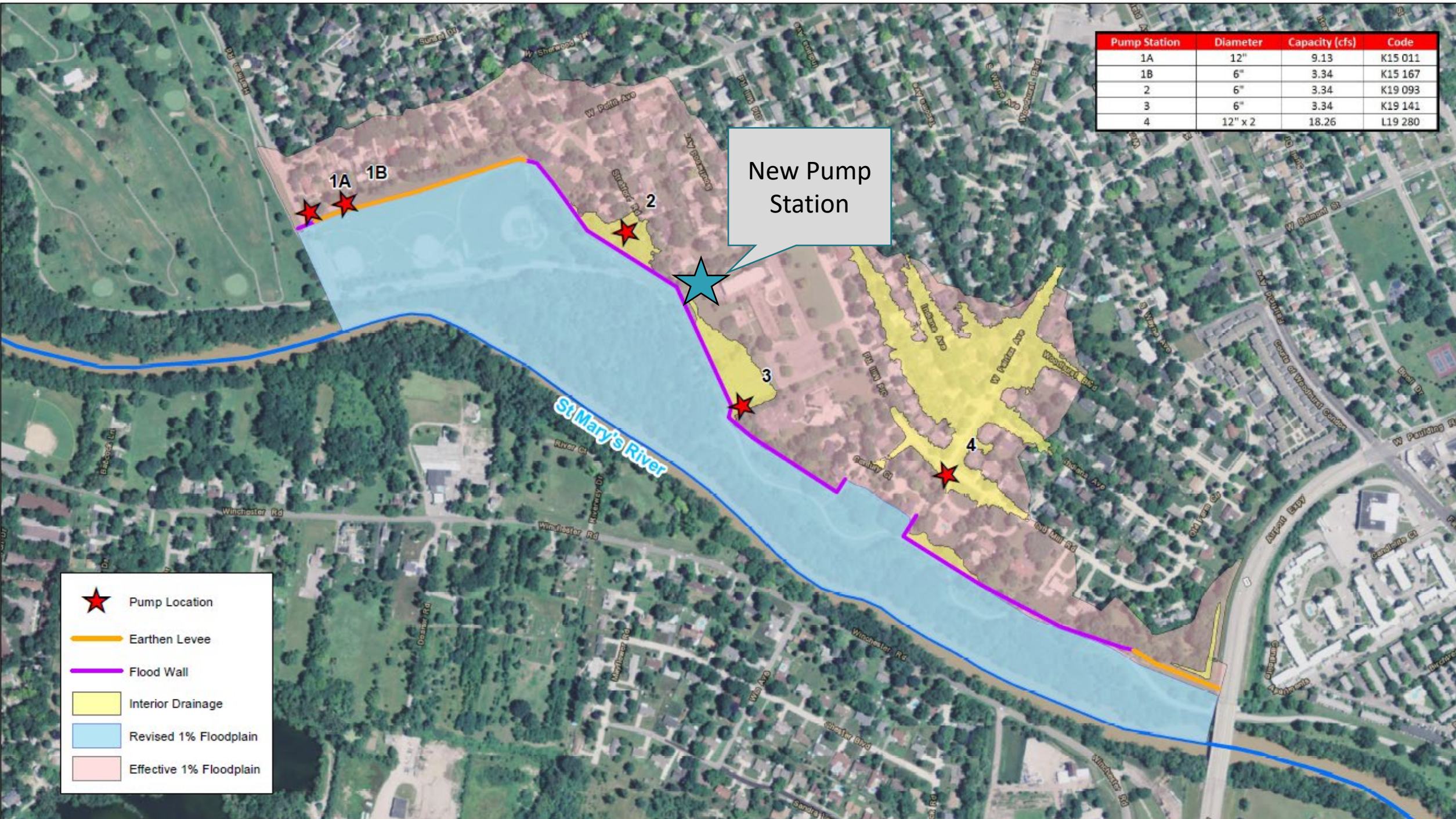
Existing Inlet Upsizing



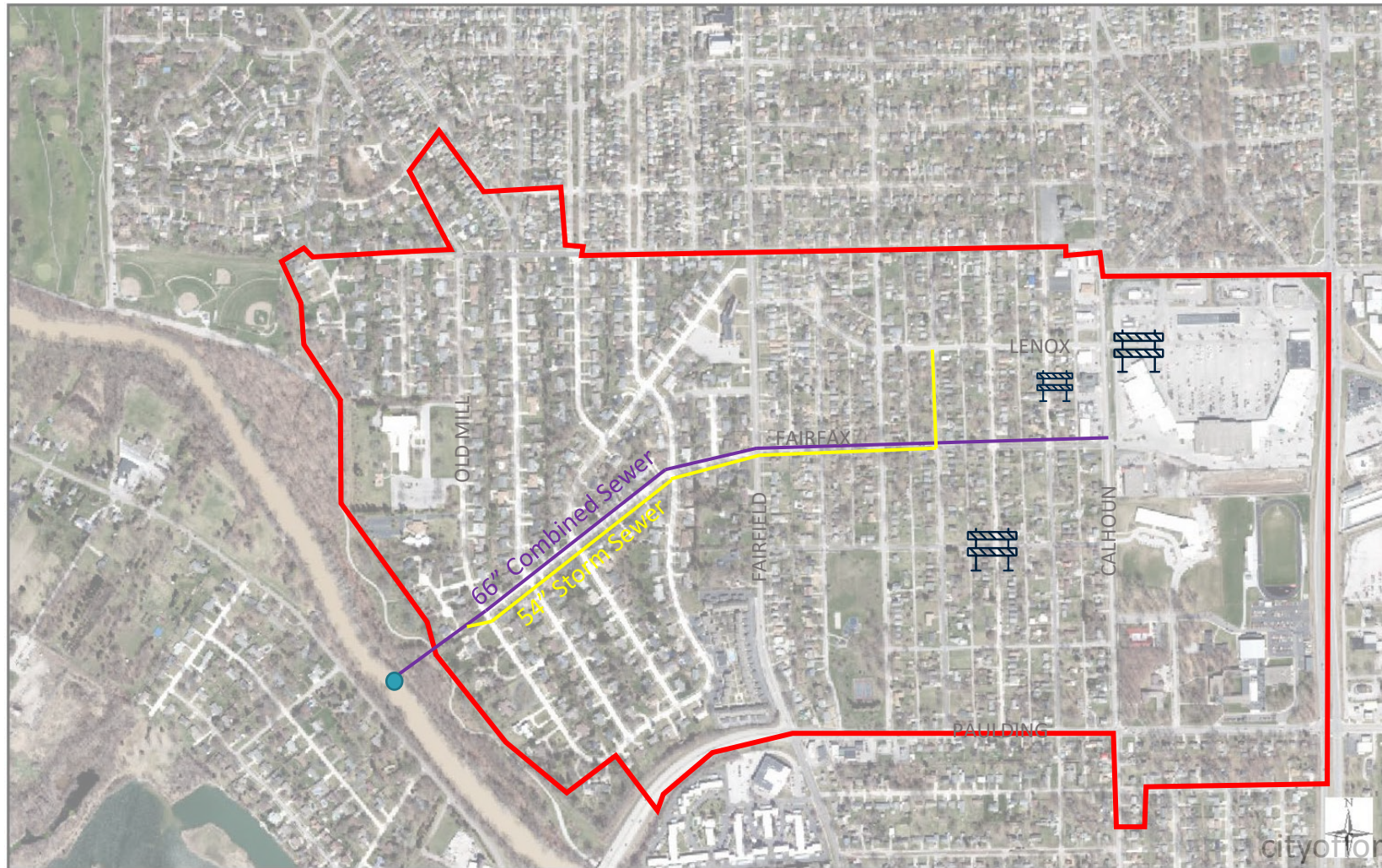
Pump Station	Diameter	Capacity (cfs)	Code
1A	12"	9.13	K15 011
1B	6"	3.34	K15 167
2	6"	3.34	K19 093
3	6"	3.34	K19 141
4	12" x 2	18.26	L19 280

New Pump Station

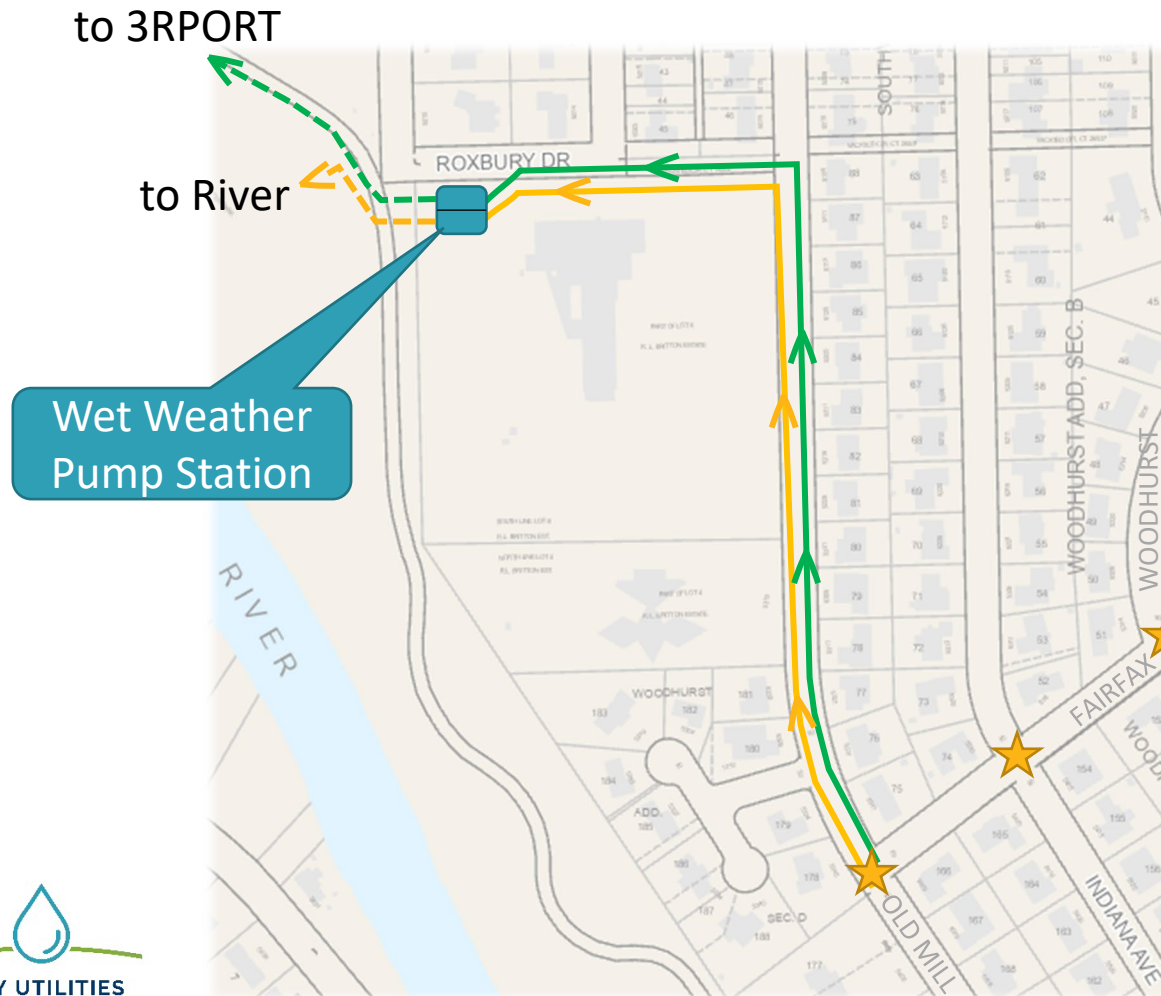
-  Pump Location
-  Earthen Levee
-  Flood Wall
-  Interior Drainage
-  Revised 1% Floodplain
-  Effective 1% Floodplain



Other future projects in sewer shed



Upcoming Sewer Projects



- CSO Consolidation Sewer
- Storm Sewer
- ★ Inlet Upgrades

- Gravity Sewer
 - Project Bid – Aug 2023
 - Construction – Sept 2023 – December 2024
- Pump Station
 - Project Bid – Aug 2023
 - Construction – Sept 2023 – February 2025

What to expect next



- Additional sewer phases meetings
- Meet the contractor meeting (sometime in September)
- Active construction
 - Approx 12-14 months for gravity sewer work (total project duration)
 - Approx 18 months for pump station work
- Roadway restoration
 - Anticipate completion by end of 2024
- System in operation

Questions & Contact Info



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