



Pittsburgh  
Water & Sewer  
Authority

**Fifth Avenue and Forbes Avenue  
Water Main Replacement Project**

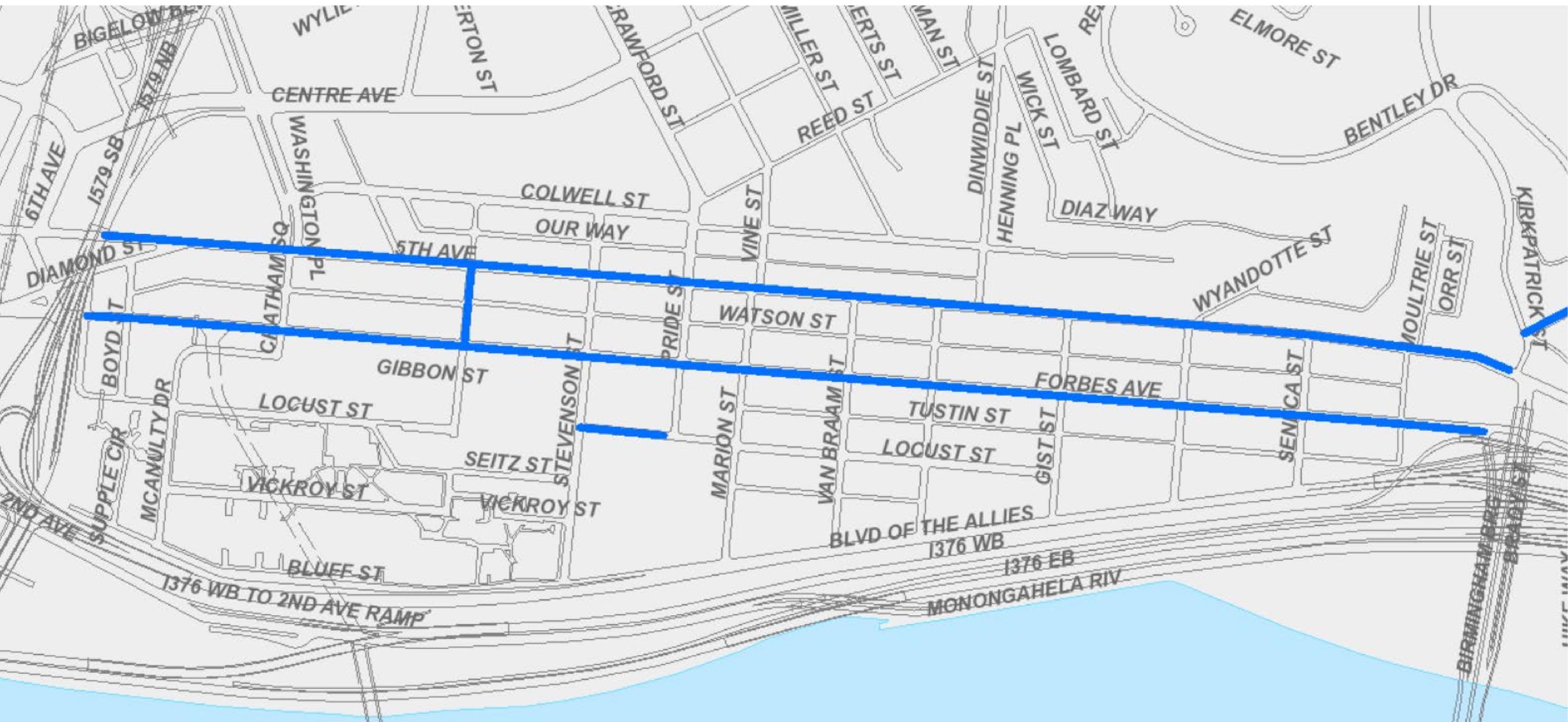
March 31, 2021

# What is PWSA doing?

- PWSA will install new water mains on Forbes Avenue and Fifth Avenue in Uptown.
  - Forbes Avenue (Sixth Avenue – Brady Street)
  - Fifth Avenue (Sixth Avenue - Kirkpatrick Street)
- This work will upgrade aging infrastructure ahead of the Port Authority Bus Rapid Transit Project.

# Why?

- The water mains selected for replacement are older, small diameter, or have shown a high number of breaks throughout the years.
- Replacing these water mains, and any lead service lines attached to the mains, will upgrade aging infrastructure and improve water quality for customers.
- We will avoid impacts to the neighborhood caused by emergency water main breaks in the future.



# Project Timeframe

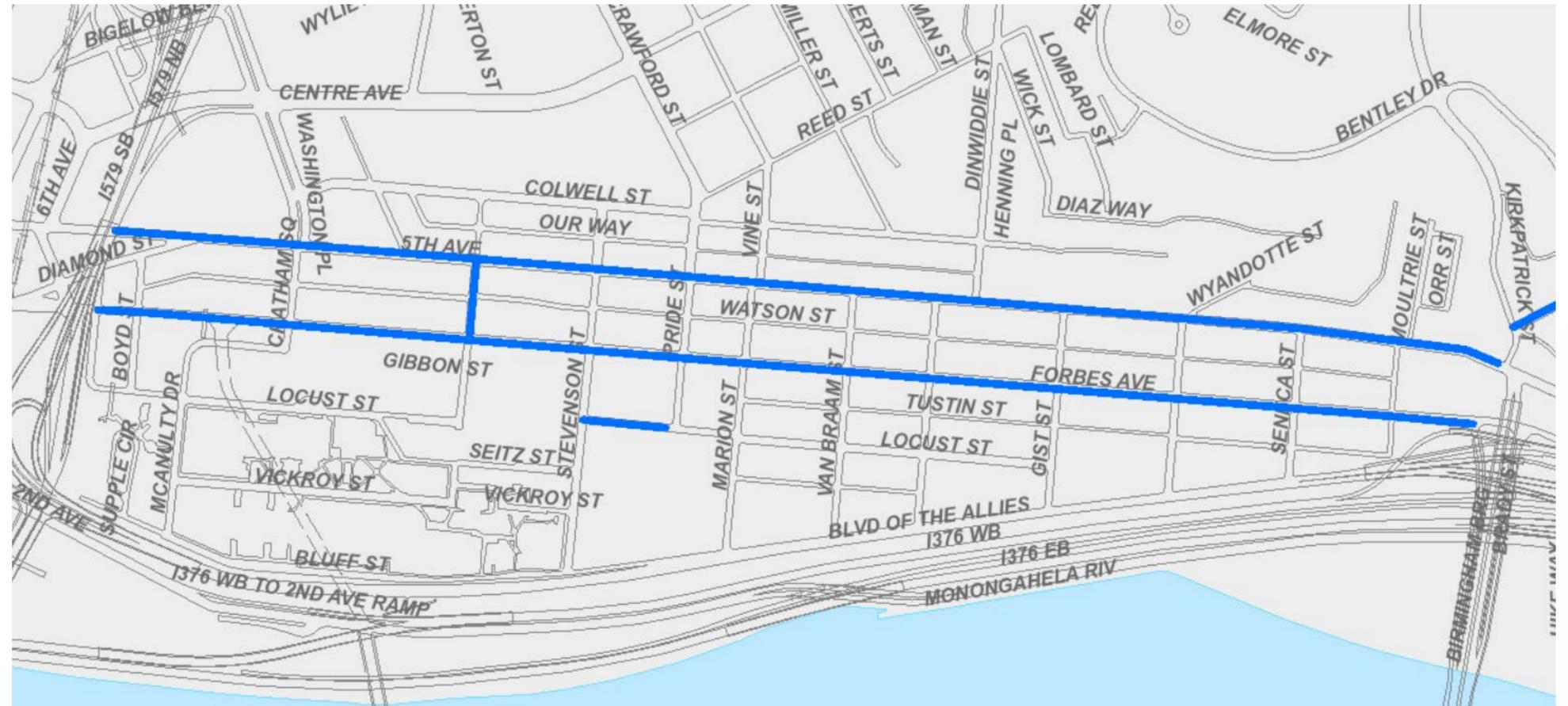
## First locations: **May 2021**

- Work will begin on Forbes Avenue at Sixth Avenue, and Fifth Avenue at Sixth Avenue
- Work will move east towards the Birmingham Bridge
- PWSA and contractor are committing six crews to complete work quickly and efficiently.

## Last locations: **May 2022**

## Phases:

- Work is broken up into six phases for each main route.
- Traffic restrictions will be block to block within each phase along the route.



# Process Steps

- **Inspect service line material:** Crews will go to each property and verify the material of each service line connected to the old main. This will help identify locations with lead service lines.
- **Install new water main:** Crews will work their way down the street laying the new water main. The old water main will remain in service during this time. After the main is installed, the pipe will be tested to make sure it was installed properly.
- **Install new service lines:** Crews will attach new service lines to the new water main. We will coordinate with residents with privately owned lead service lines to replace them at no cost.
- **Restoration:** Final roadway restoration will be completed by the Port Authority after other utility work – like electric and telecommunications – is completed.

# Daily Impacts

## Typical Work Schedule:

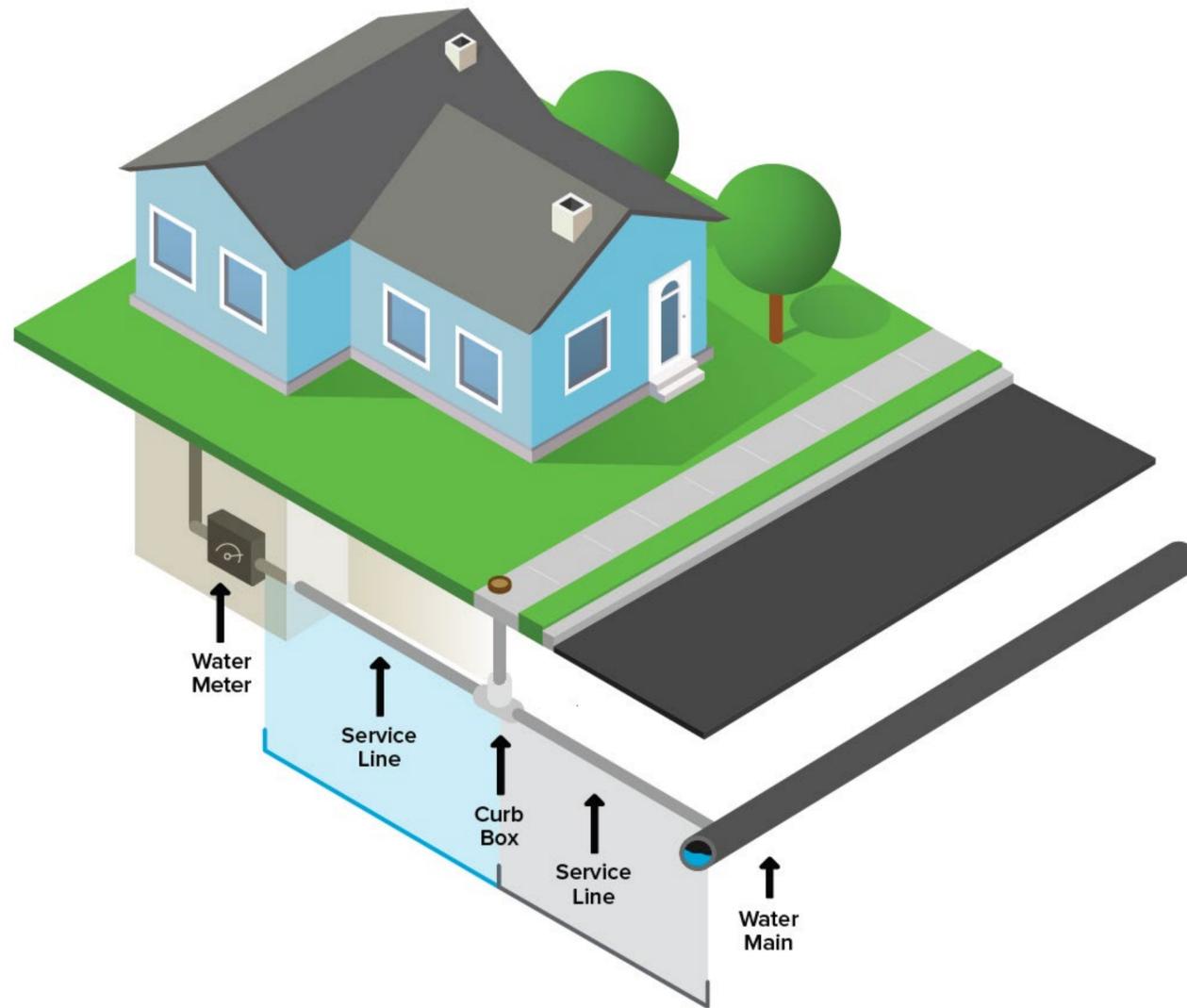
- Monday-Friday from 9:00 a.m. – ~~7:00 p.m.~~
- **All work west of Washington Place and Chatham Square on both Fifth and Forbes Avenues** will take place at night, from 8:00 p.m. until 6:00 a.m.
- Work on **Wyandotte and Moultrie Streets** (north of Fifth Avenue) are “no outlet” streets and will be required to be completed during weekends, from 6:00 a.m. – 8:00 p.m.
- We will work on Forbes and Fifth Avenue simultaneously.
- Forbes Avenue and Fifth Avenue will be restricted to one lane of traffic throughout the project.

# Daily Impacts

- We will work in one-block sections within each phase of work to minimize traffic impacts.
- Work on Fifth and Forbes Avenues will be done concurrently.
- Contractor will stagger work locations so that no side street is closed at its intersection with both Fifth and Forbes at the same time.
- Crews will post no-parking signs at least 48-hours in advance of the work

# Lead Service Line Replacements

# WATER SYSTEM SCHEMATIC



- > Residential service line has joint ownership, both PWSA and the customer;
- > Commercial service lines are the full ownership of the property owner.
- > Each side of the service line can be different materials, typically lead, galvanized iron, copper or PEX (plastic);

# PWSA POLICY

- When PWSA replaces the portion of the service line between the water main and the curb stop, we will offer to replace a private lead service line at no cost.
- Property owners needs to sign agreement allowing work to proceed.
- If a property owner does not return the agreement or declines a replacement, PWSA is required to terminate water service.
- Customer will then be required to replace private lead service line and provide proof to PWSA before water service is restored.

This protocol is a requirement of our regulators, the Pennsylvania Public Utility Commission (PUC).

# PRIVATE PROPERTY RESTORATION POLICY

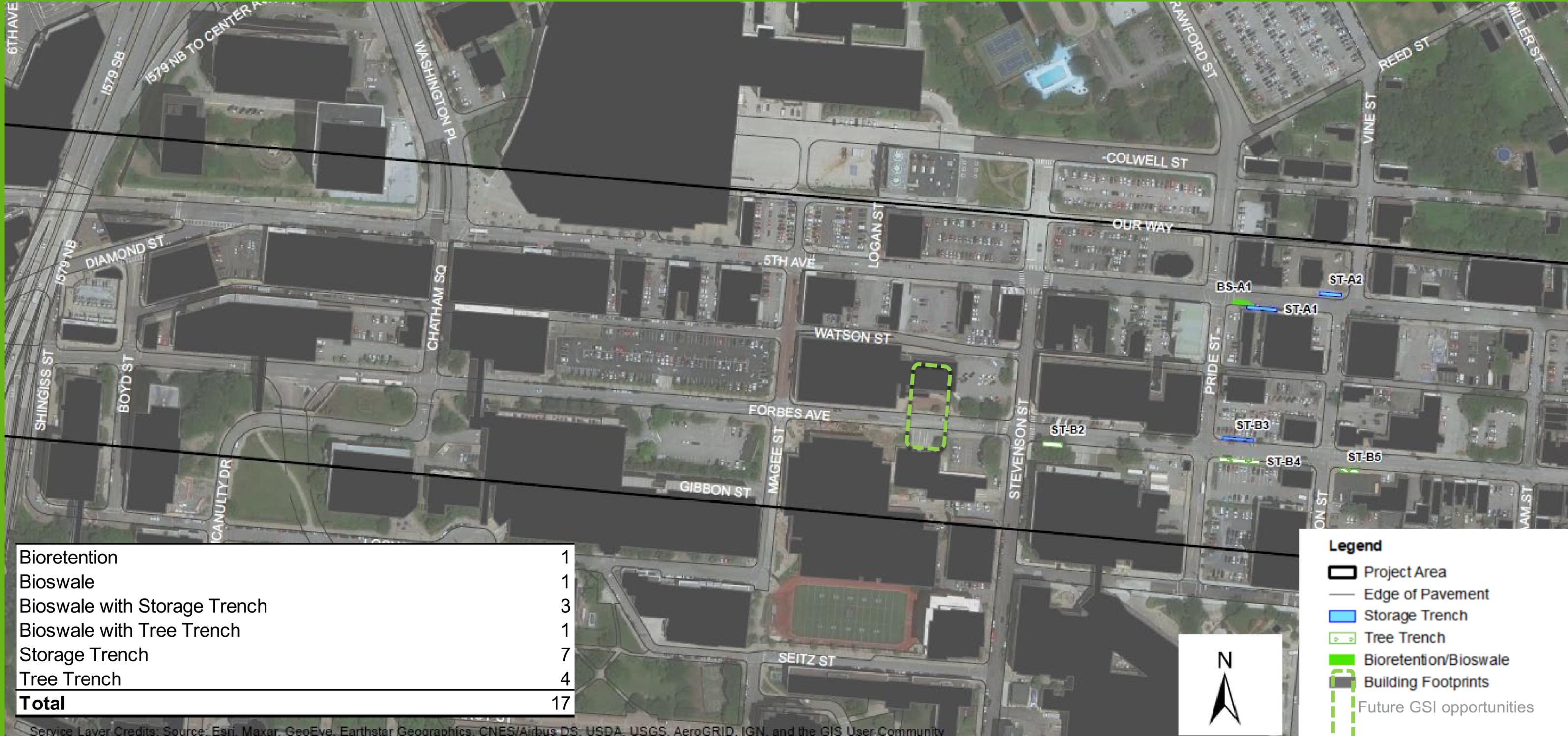
- Contractors incentivized to use least disruptive methods;
- Homeowner or their representative must be present during replacement;
- PWSA will backfill, but not restore any private property they disturbed;
- Stairs, retaining walls, decorative landscaping could be disrupted;
- **Over 98% of replacements are using less disruptive trenchless methods**

# BRT Stormwater Improvements

# BRT Stormwater Improvements

- **Project Status:**
  - Currently 90% Design
  - Anticipate final design: Summer 2021
  - Construction: 2022 through 2023
- **Project Locations:** Fifth and Forbes Avenues in Uptown
- **Stormwater Improvements Include:**
  - 10 bioretention sites, bioswales or tree trenches
  - 7 sites with subsurface storage
- **Project Management and Partners**
  - **Project Manager:** Pittsburgh Water and Sewer Authority (PWSA)
  - **Designer:** Jacobs Engineering
  - **Construction:** Port Authority's BRT Contractor
  - **Construction Management and Inspection:** PWSA

# 17 Potential GI Systems Selected for Final Design as of 01/25/21 (subject to change)



Service Layer Credits: Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

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# Project Contact:

Mora McLaughlin

Construction Communications Project Manager

[mmclaughlin@pgh2o.com](mailto:mmclaughlin@pgh2o.com)

412-689-4137

PWSA Lead Help Desk

[LeadHelp@pgh2o.com](mailto:LeadHelp@pgh2o.com)

412-255-8987

[www.pgh2o.com/FifthForbesWaterMains](http://www.pgh2o.com/FifthForbesWaterMains)

# Questions?