



Pittsburgh
Water & Sewer
Authority

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

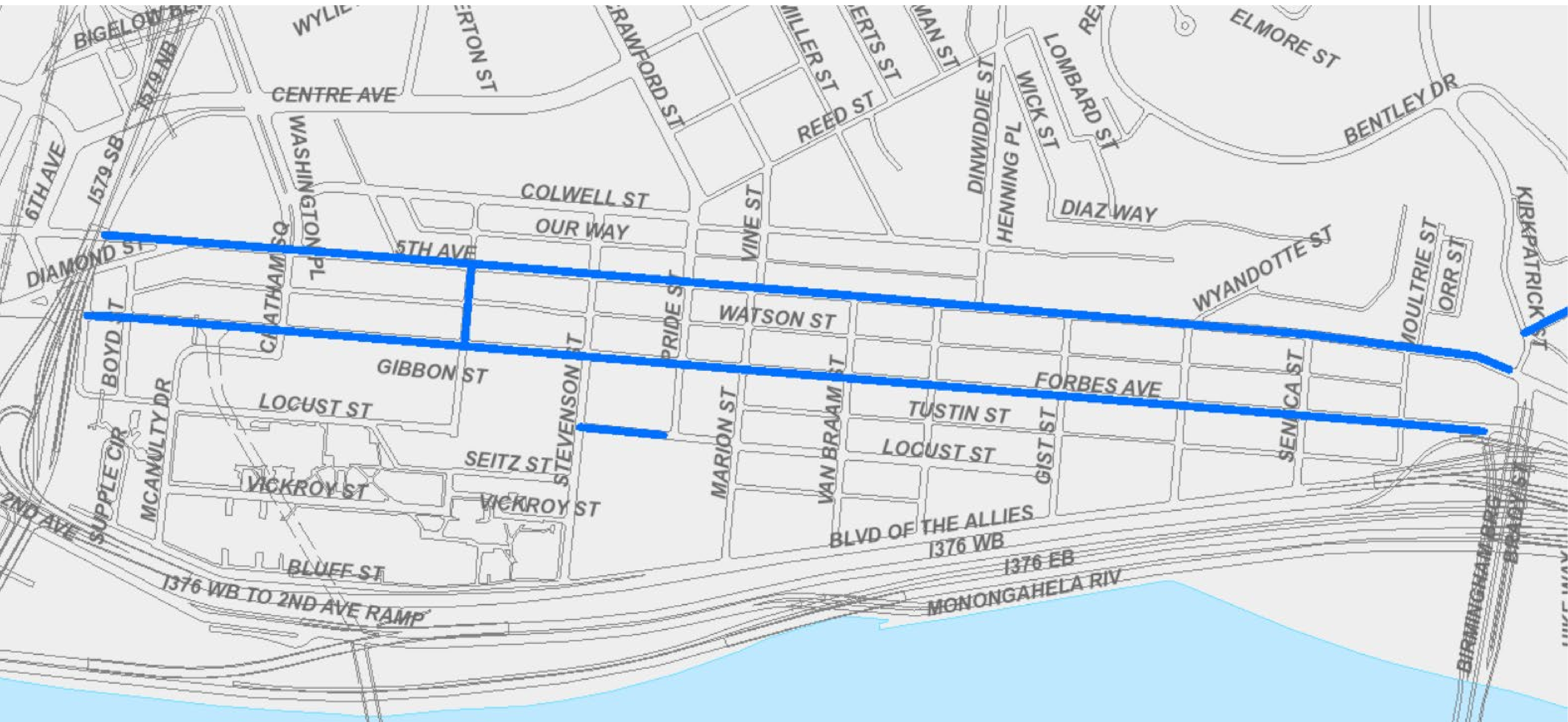
January 26, 2021

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

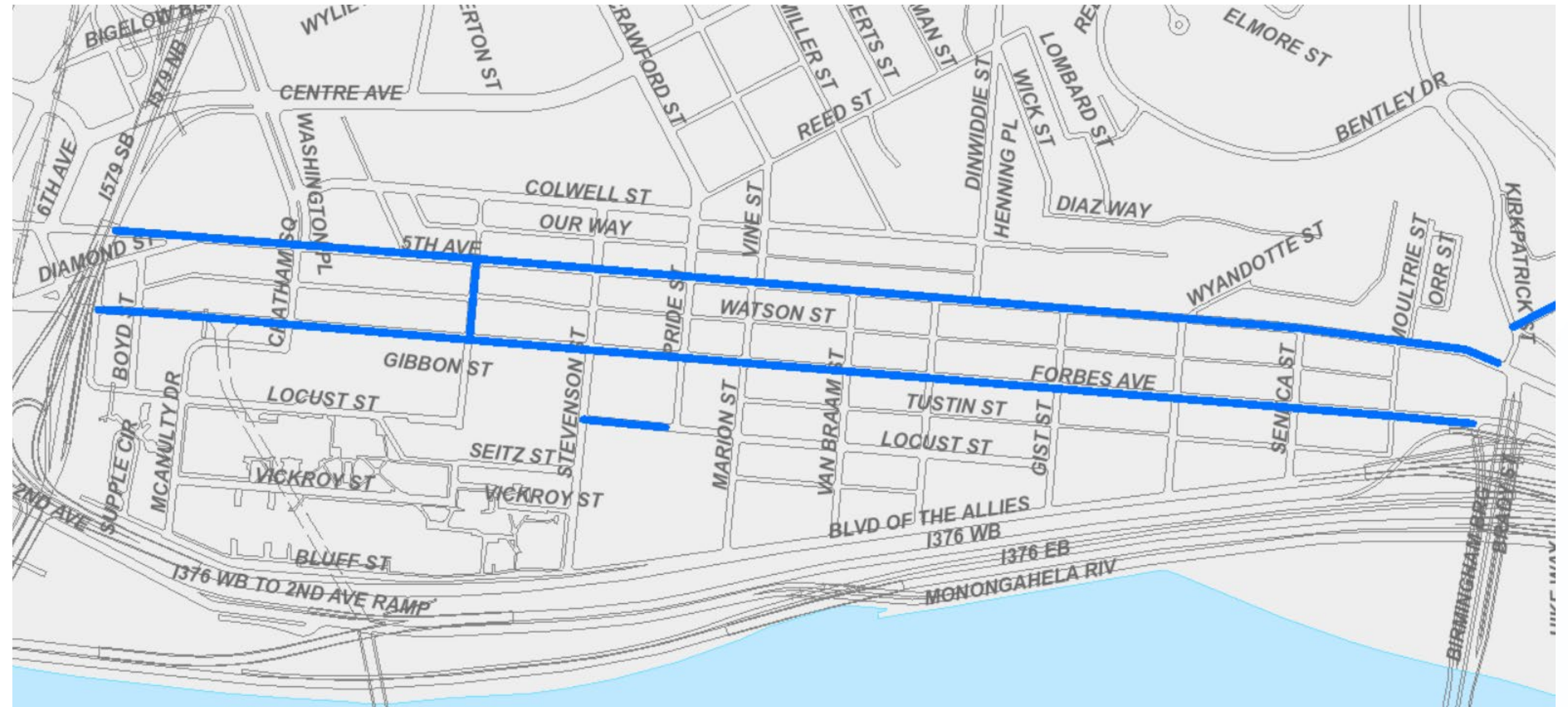
First locations: **May 2021**

- Work will begin on Forbes Avenue at Sixth Avenue, and Fifth Avenue at Sixth Avenue
- Work will move east towards the Birmingham Bridge

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:

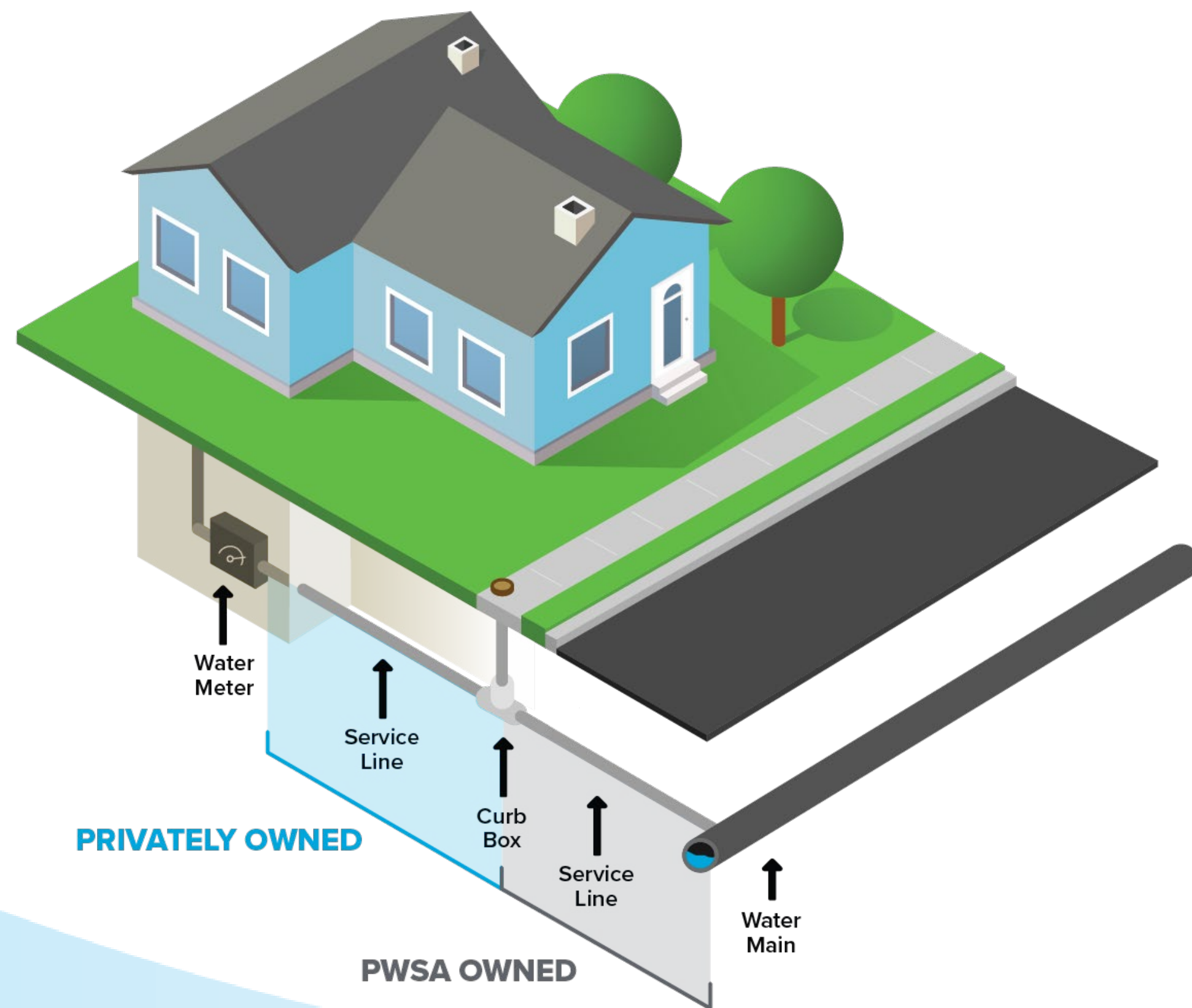
- Monday-Friday from 9:00 a.m. – 3:00 p.m.
- We will work on Forbes and Fifth Avenue simultaneously.
- Forbes Avenue and Fifth Avenue will be restricted to one lane of traffic throughout the project.
 - **All work west of Washington Place and Chatham Square on both Fifth and Forbes Avenues** will take place at night, from 7:00 p.m. until 5:00 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.

Daily Impacts

- We will work in one-block sections within each phase of work to minimize traffic impacts.
- Work on Fifth and Forbes avenue may be done concurrently. Contractor will stagger work locations such 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 24-hours in advance of the work

Lead Service Line Replacements

WATER SYSTEM SCHEMATIC



- > Service line has joint ownership, both PWSA and the customer;
- > Each side of the service line can be different materials, typically lead, galvanized iron, copper or PEX (plastic);

PWSA POLICY

- If PWSA replaces the public side of a service line, we will offer to replace a private lead service line at no cost (prevent partial replacements);
- Homeowner needs to sign agreement allowing work to proceed – you have received an agreement package from PWSA;

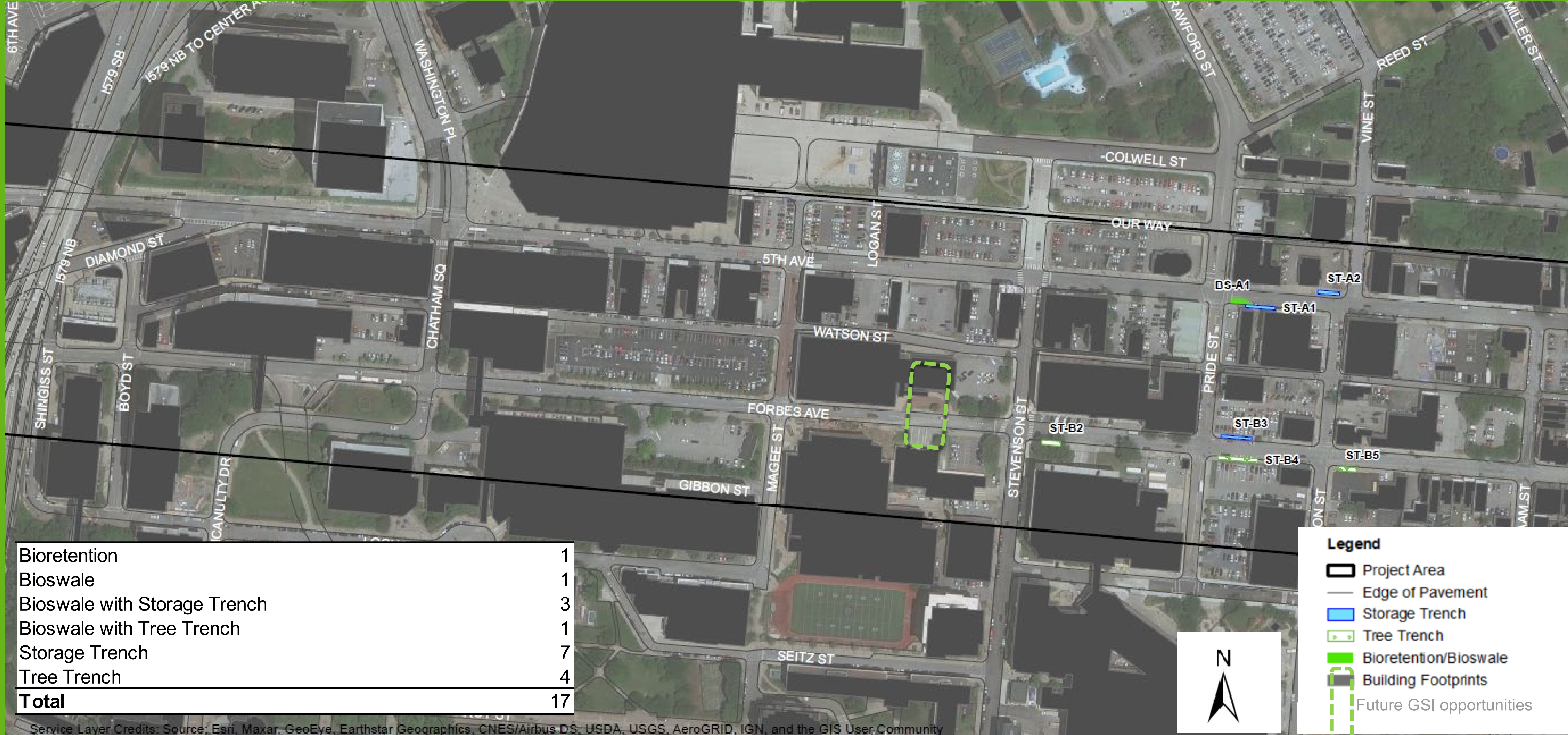
PRIVATE PROPERTY RESTORATION POLICY

- 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

- **Project Status:**
 - Currently 90% Design
 - Anticipate final design Spring 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)



| | |
|------------------------------|-----------|
| Bioretention | 1 |
| Bioswale | 1 |
| Bioswale with Storage Trench | 3 |
| Bioswale with Tree Trench | 1 |
| Storage Trench | 7 |
| Tree Trench | 4 |
| Total | 17 |

Legend

- Project Area
- Edge of Pavement
- Storage Trench
- Tree Trench
- Bioretention/Bioswale
- Building Footprints
- Future GSI opportunities

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

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

Project Contact:

Mora McLaughlin

Construction Communications Project Manager

mmclaughlin@pgh2o.com

412-689-4137

PWSA Lead Help Desk

LeadHelp@pgh2o.com

412-255-8987

www.pgh2o.com/FifthForbesWaterMains

Questions?