DEL RAY EAST SANITARY LATERAL REHABILITATION PROJECT



As part of the City's Sanitary Sewer Asset Renewal Program, this project will rehabilitate 373 City-owned sanitary laterals in the Four Mile Run and Commonwealth Sanitary Sewersheds, east of Commonwealth Avenue to west of Route 1 in Del Ray, Rosemont, and Lynhaven neighborhoods . .

For more information, visit www.alexandriava.gov/go/5064 or scan the QR code below.

STRUCTURE DEFECT IN A SANITARY LATERAL - Typical Example



SCOPE OF THE PROJECT

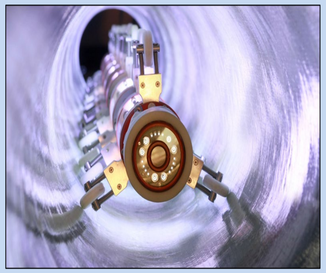
The sanitary laterals and their connection with the sewer main will be rehabilitated using the Cured-In-Place Pipe (CIPP) lining process. As part of this project, the City plans to install Top-Hat liners at 62 lateral-mainline connections and install T-Liners in 311 laterals from the lateral-mainline connection to the curb line.

CIPP provides a trenchless, cost-effective, and durable solution for sanitary sewer rehabilitation, minimizing excavation and surface disruption while reducing infiltration and extending pipe service life.

CURED-IN-PLACE PIPE (CIPP) TECHNOLOGY



Invert/insert liner into host pipe



Cure liner to bond to host pipe



Top Hat (installed at lateral -main connection to provide leak proof

CONSTRUCTION IMPACTS

What to Expect During Construction

- Parking: No-parking signs posted 72 hours in advance
- W ater Service: Temporary suspension, typically 6 hours
- Sewer W ork: Sewers will be cleaned for lining
- Odors: Add water to dry drains to prevent odors
- Notifications: Residents will receive advance notice about construction and impacts.
- Periodic lane closure near project area during construction hours

CONSTRUCTION SCHEDULE

Construction Timeline

- Construction contract start date: Fall, 2026
- Construction duration: Completion within 365 calendar days

Construction Hours

- 7am to 6pm Monday – Friday
- 9am to 6pm on Saturday

CONSTRUCTION CONTRACTOR

Pleasants Companies, LLC
Contact: Eddie Lezcano | Project Manager
elezcano@ pleasantsconstruction.com or 240.726.4507

CITY CONTACT

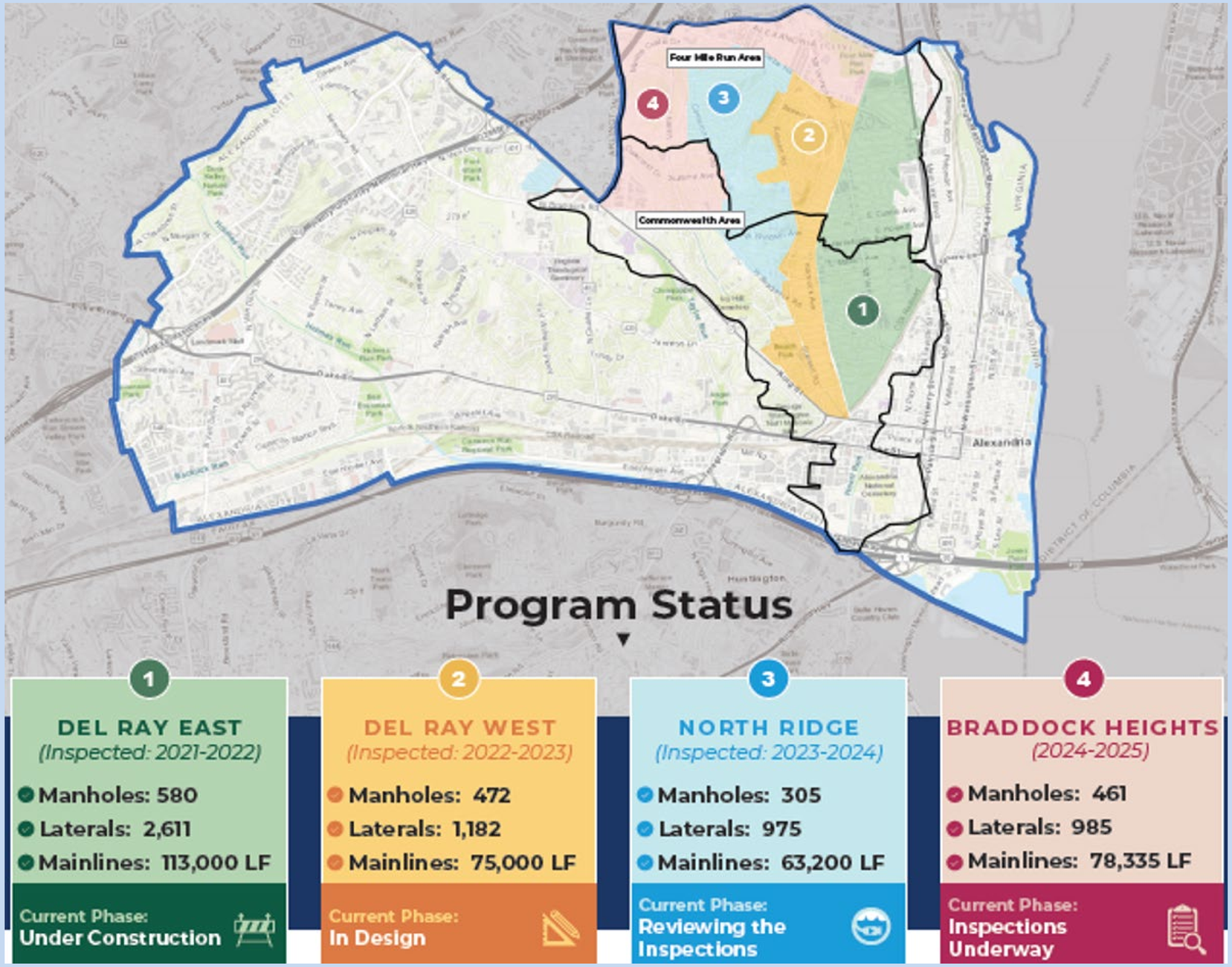
For construction questions, contact Ayoub Hassen
ayoub.hassen@alexandriava.gov or 703.746.4635.
For Asset Renewal Program questions, contact Lu Zhang
lu.zhang@alexandriava.gov or 703.746.4289.

Sanitary Sewer Asset Renewal Program

City owns and operates 240 miles of sanitary and combined sewer

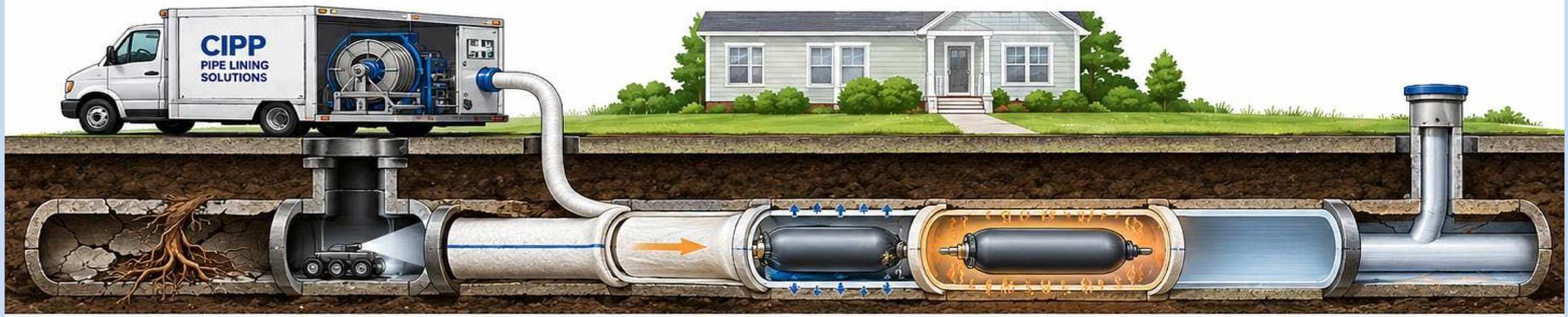
Sanitary Sewer Asset Renewal Program was initiated in 2021 to inspect/rehabilitate deteriorated sanitary infrastructures

Sewer inspection/rehabilitation in Del Ray, North Ridge, and Braddock Heights is at various stages.



Cured-in-Place Pipe Lining (CIPP)

A trenchless solution that repairs damaged pipes from the inside—restoring strength, stopping leaks, and extending service life.



1 Existing damaged pipe with cracks and root intrusion

Deterioration, cracks and roots reduce capacity and can cause leaks.

2 Sewer camera inspection

A high-resolution camera assesses the condition and identifies problem areas.

3 Resin-saturated liner

A flexible felt liner is saturated with specialized resin.

4 Insertion / inversion into the old pipe

The liner is inverted (or pulled) into place through an access point.

5 Inflatable bladder or calibration tube expanding the liner against the host pipe

An inflatable bladder is inserted and inflated to press the liner tightly against the pipe wall.

6 Heat or steam / hot water curing process

Heat, steam, or hot water cures the resin, creating a strong, durable pipe-within-a-pipe.

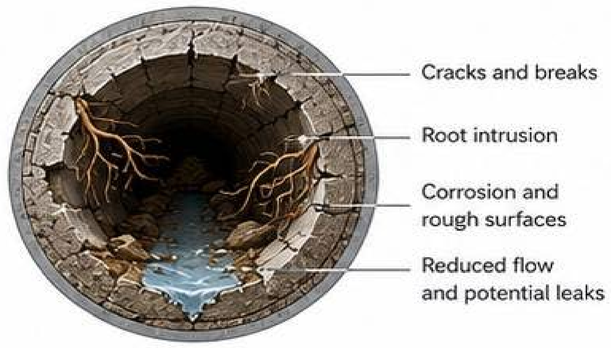
7 Finished seamless cured liner inside the old pipe

Once cured, the bladder is removed, leaving a smooth, seamless liner fully bonded to the host pipe.

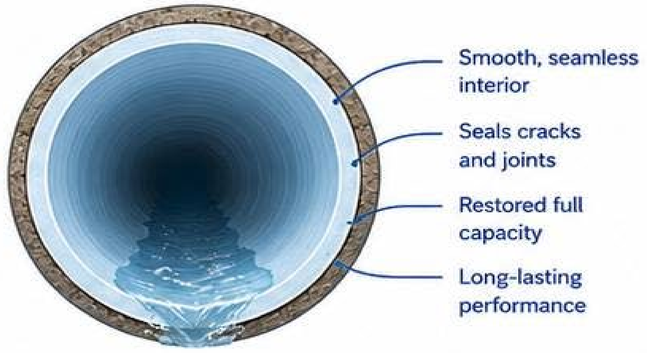
8 Reopened service connection

Access points are restored and the lateral/service connection is reopened.

BEFORE
Damaged Pipe



AFTER
Relined Pipe



CIPP BENEFITS

- Trenchless
- Minimal digging
- Seals cracks
- Restores flow
- Extends pipe life

CIPP is ideal for sanitary sewer, storm sewer, and many pressure pipe applications.