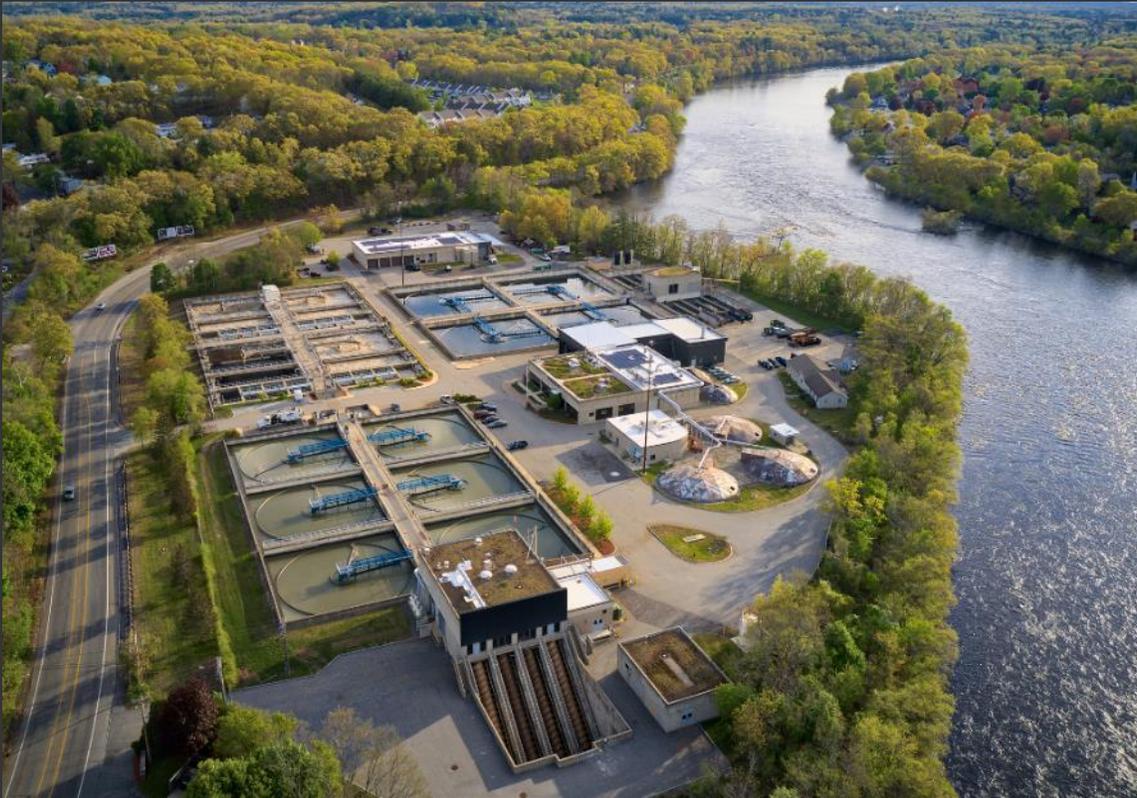


Centralville Area Sewer Separation Project



CITY *of*
LOWELL

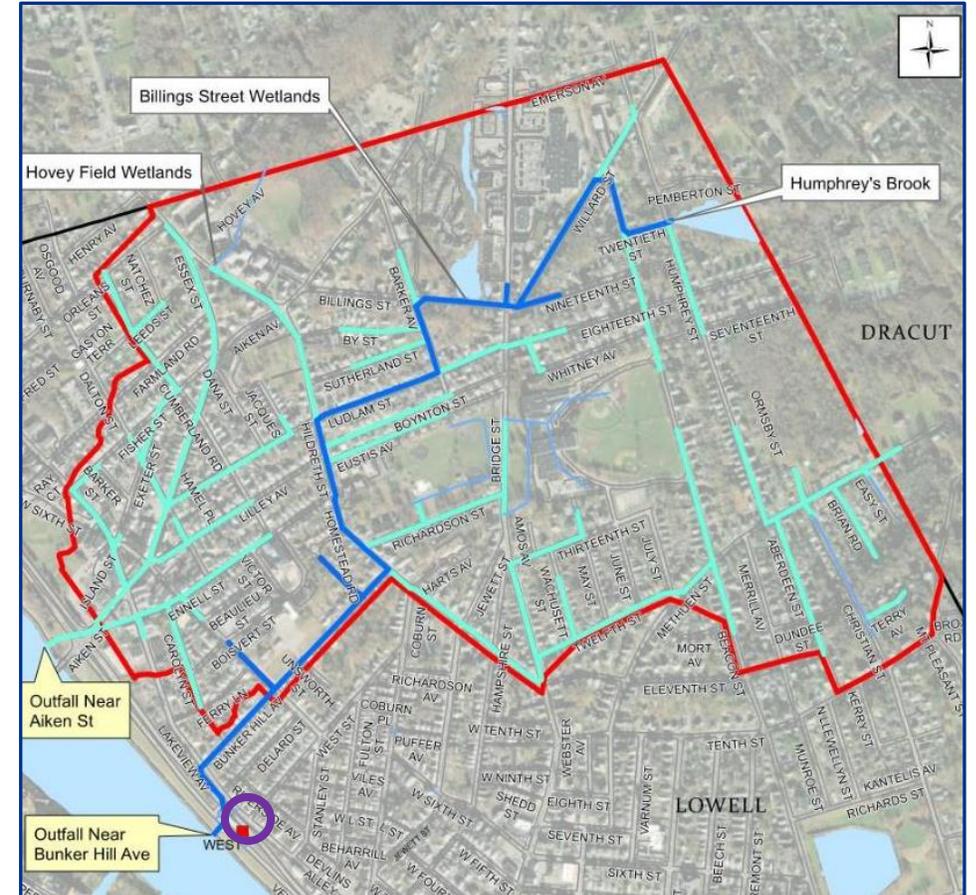
**LOWELL REGIONAL
WASTEWATER UTILITY**

November 4, 2024



Why are we here?

- To discuss the future Centralville Sewer Separation Project
 - Multi-year (2025 thru 2032) large pipe construction project
 - 400 acres of sewer separation
 - 7+ miles of new drains, sewers and water
 - Required by Consent Decree (EPA/MassDEP) to reduce CSO volume
- Talk about the temporary construction impacts
- Introduce some of the stakeholders and integration of other City projects
- Discuss the benefits of the Project
- Get your input!



Centralville Sewer Separation Project Area

Addressing Past Flooding in Centralville

Lakeview Ave. / Aiken Ave.



Lakeview Ave.



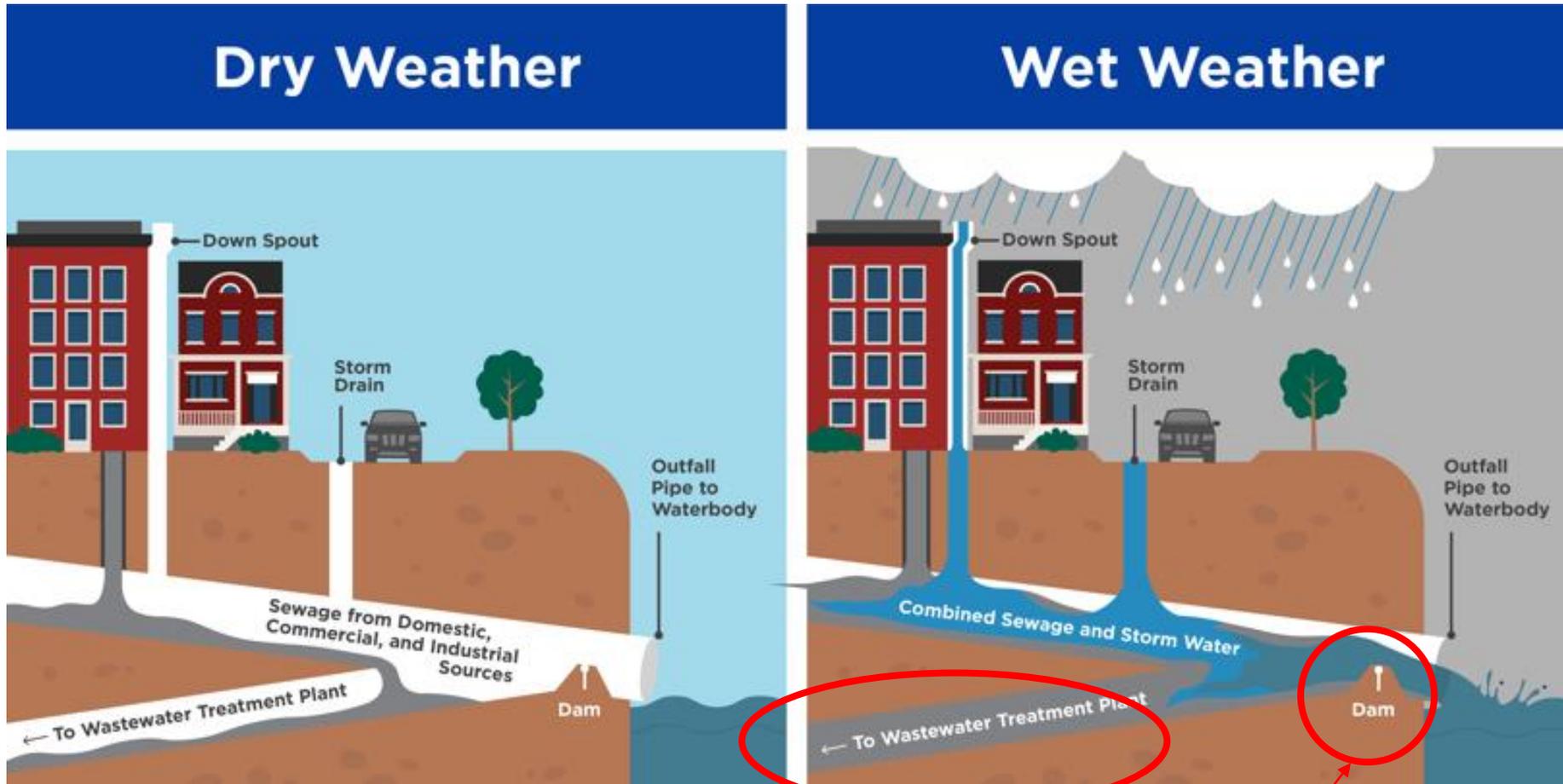
W. Sixth Ave. / Aiken Ave.



Stanley St./Blinkhorn St.



What is a Combined Sewer Overflow (CSO)?



By Federal and State mandate, LRWWU must monitor and eventually remove or control all CSO discharges to rivers.

Currently, the City has 9 CSO outfalls that contribute 430 million gallons of combined sewer to the Merrimack and Concord Rivers and Beaver Brook in a typical year.

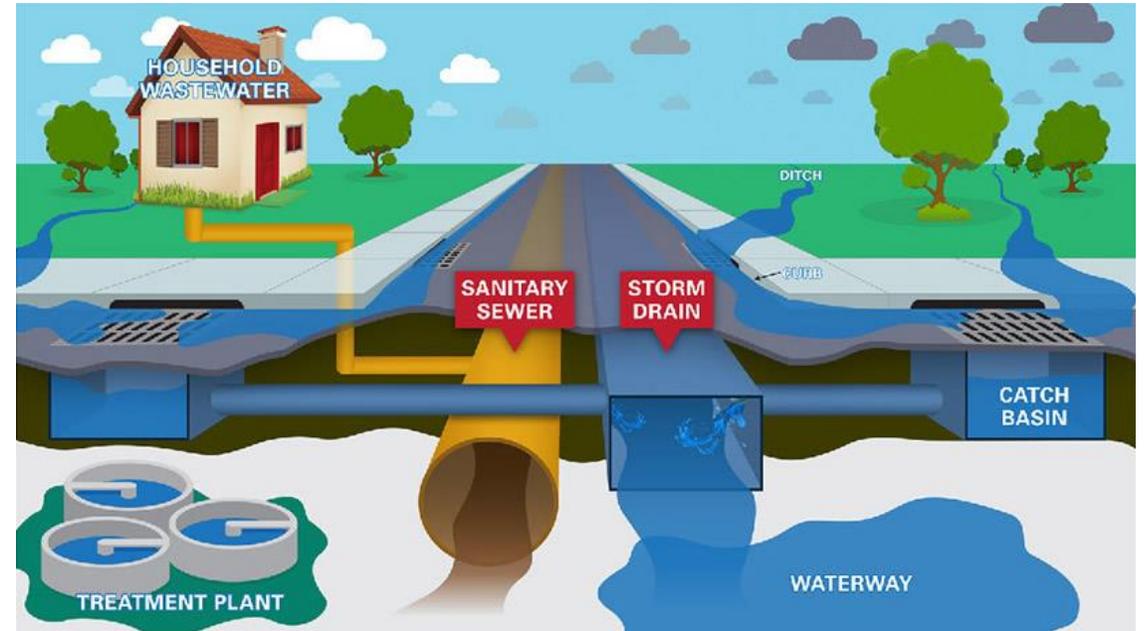
Sanitary flow AND stormwater conveyed for treatment

Untreated CSO discharge

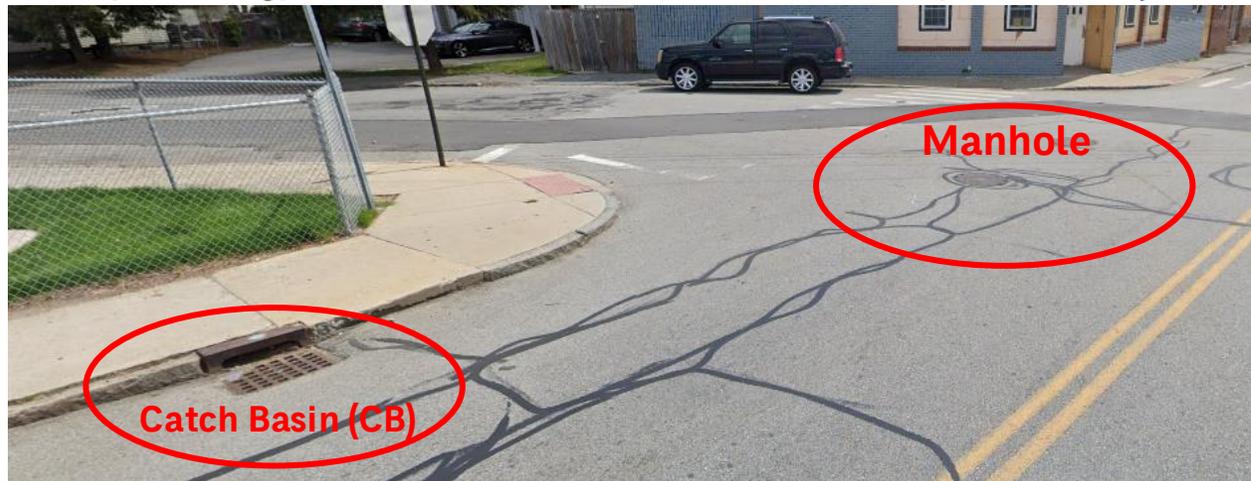
Sewer Separation Approach



Combined System (Existing)

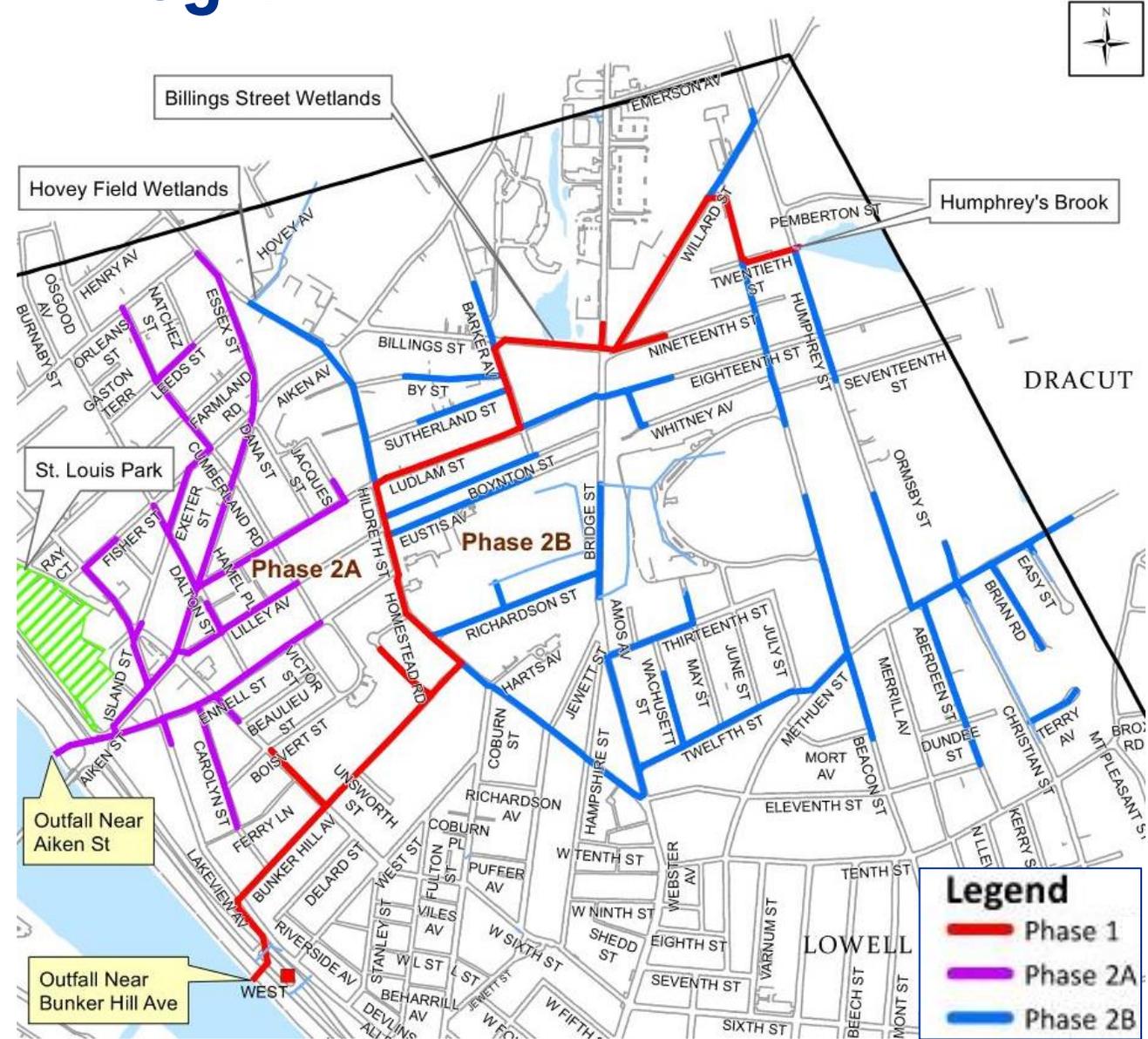


Separated System (Future)



Centralville Sewer Separation Program

- Phase 1 – Mainline pipe to remove Humphrey’s Brook and Billings Street Wetlands and sewer separation along route to outfall near Bunker Hill Ave.
- Phase 2A - Sewer Separation to Outfall near Aiken St.
- Phase 2B – Sewer Separation to Mainline Outfall and Methuen Street



Centralville Sewer Separation Program Construction Schedule

	2025	2026	2027	2028	2029	2030	2031	2032
Phase 1 Construction	■							
Phase 2A Construction			■					
Phase 2B Construction				■				

St. Louis Park

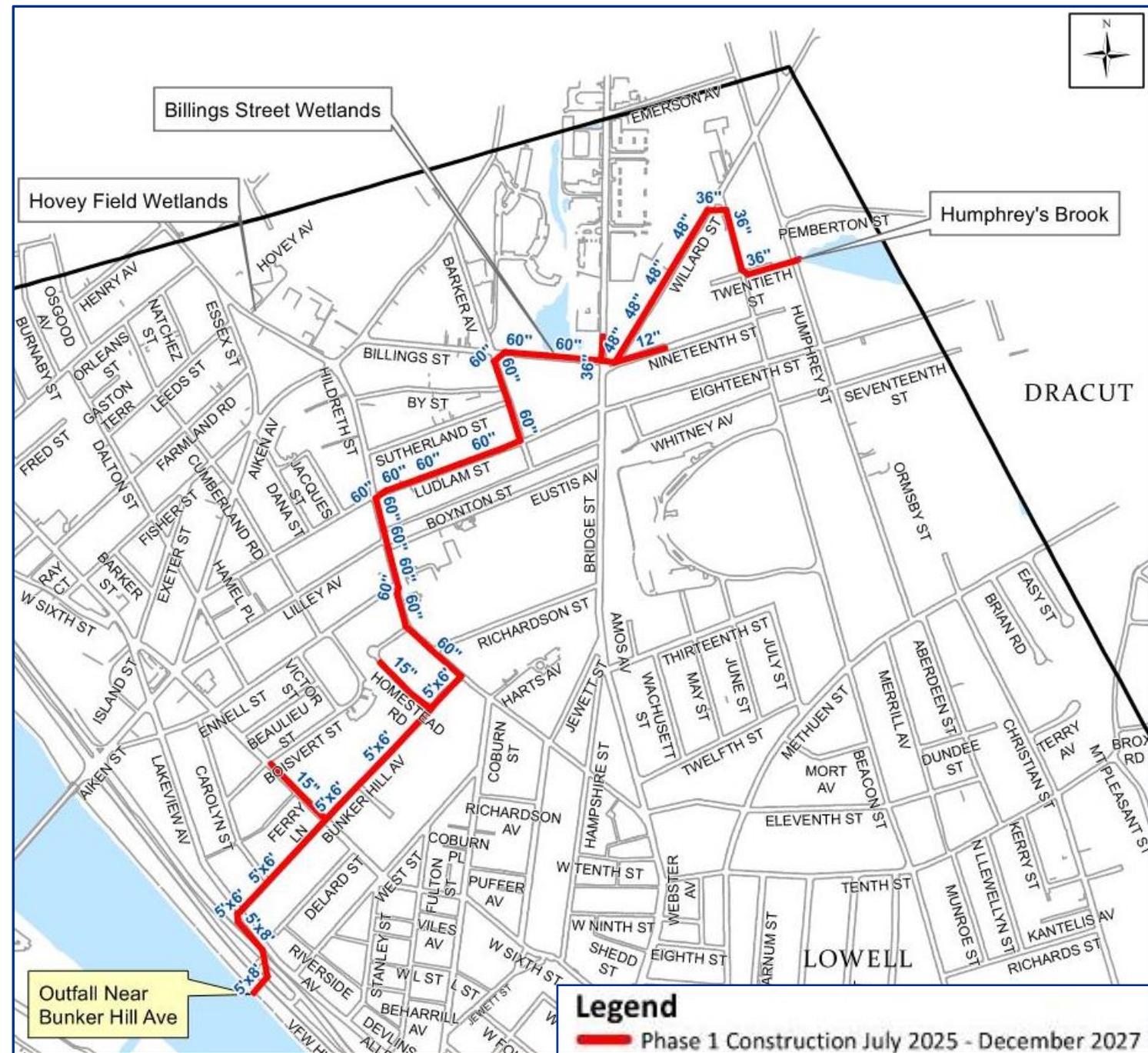


- Sponge park (splash pad)
- Collect drainage in Phase 2A
- Basketball courts seal coated to offset urban heat island effect
- Concepts may not represent final design
- Construction starting Spring 2025



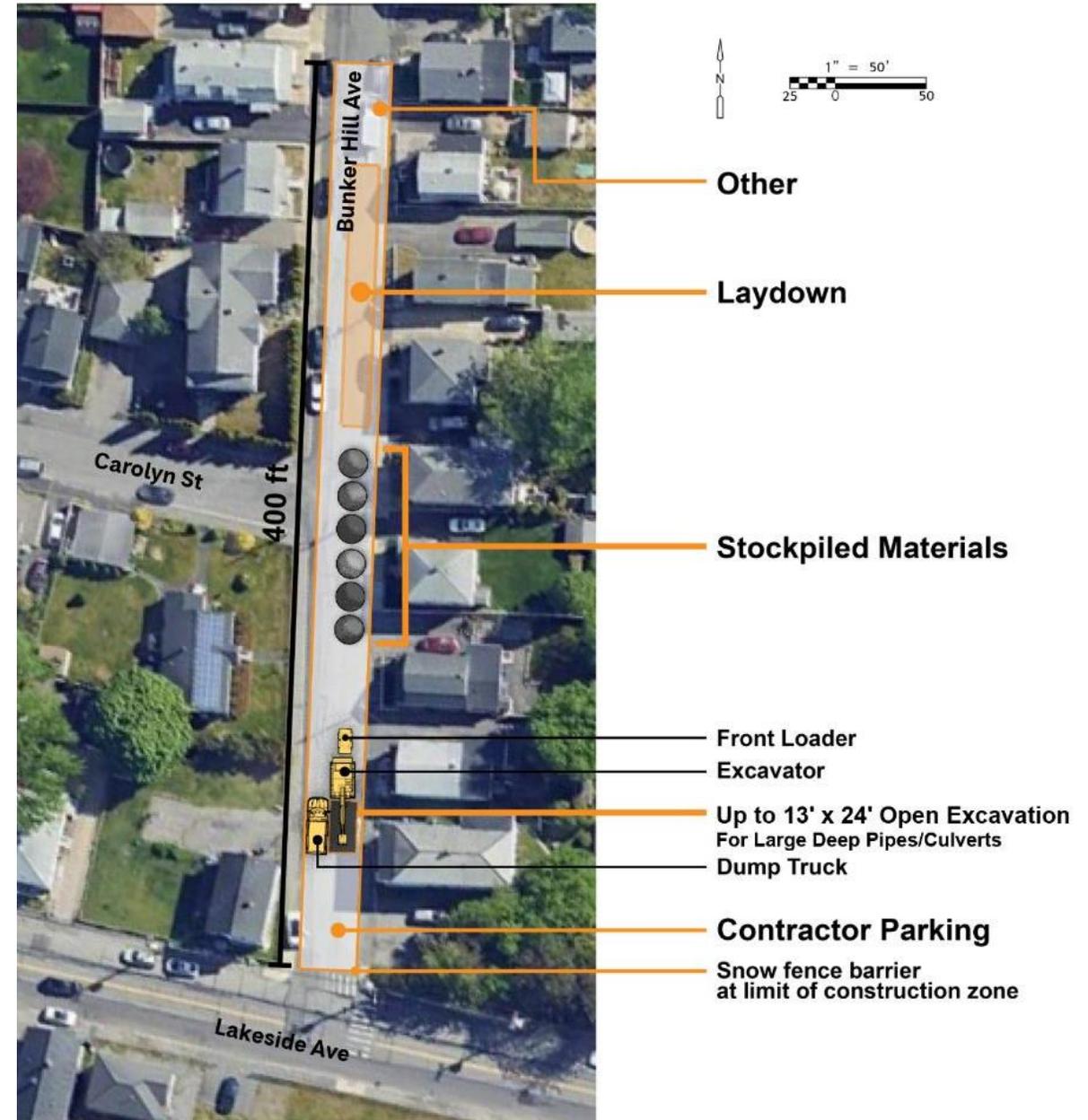
Phase 1

- Pipe sizes ranges from 36-inch circular pipe to 5-foot high x 8-foot wide box culvert
- Work will start at the Merrimack River and continue up towards Dracut
- Requires gas, water, sewer relocations.
- Work may cross in front of properties multiple times for short durations during construction



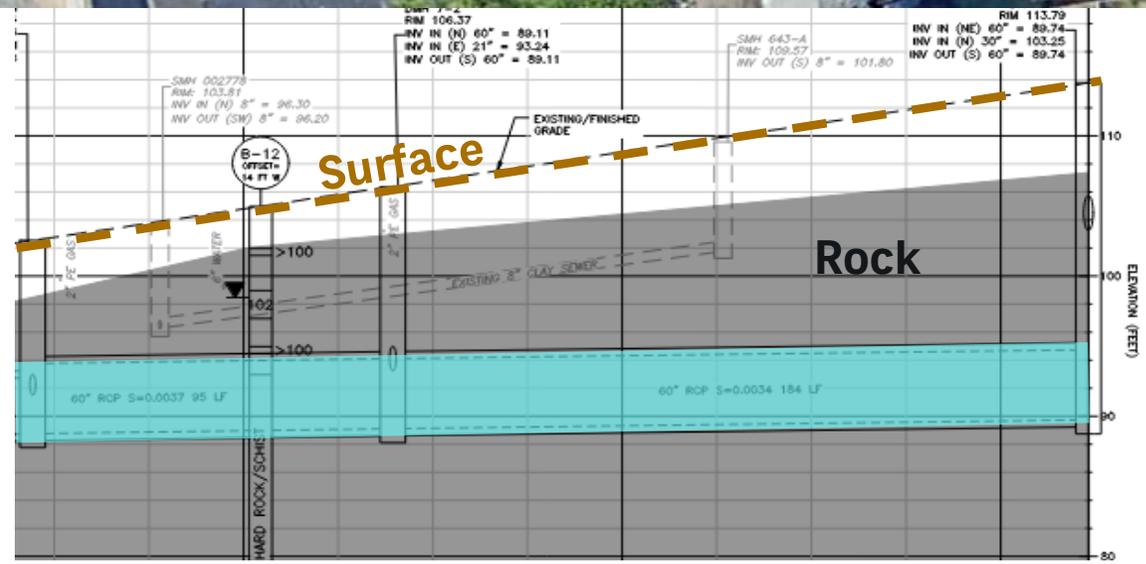
General Construction Impacts

- Daily Work Schedule is 7 am to 5 pm (Typical)
- Streets closures to preform work
- Materials brought in and removed daily
- **Emergency access will be maintained**
- At the end of the day, the Contractor will remove some of the equipment and “plate the trench” overnight to allow residents access



Hildreth Street Example - Utility Phasing

- 2. Sewer
- 4. Drain
- 3. Water
- 1. Gas



Inflow and Infiltration Reduction Program

- Identify other extraneous sources of flow
 - Roof leaders
 - Foundation drains
 - Sump pumps
 - Leaky sewer mains and services
- Sewer main and services - lining, repairs, or replacements
- Requires your help during construction:
 - Feedback on identifying sources
 - Coordination of basement inspections to find a solution to remove



Communication and Coordination with Residents

- Notify residents of work through various means:
 - Door Hangers, city website, social media,
 - Resident Engineer
 - Periodic meetings with the public and businesses
 - Local trailer or office for drop-in public interaction
- Coordination:
 - Access to property
 - Temporary parking
 - LRTA, School Buses, Medical Transports, Elderly/Special Needs transportation programs
 - Advertised traffic detours (Waze) and police
 - Sump pump program
 - Temporary service disruptions
 - Trash services
 - Local businesses



Benefits

- Reduce sewer backups
- Reduce street flooding
- New infrastructure with extended lifespan
 - Water, gas, sewer repairs/replacements
 - Sewer lateral and sump pump replacement
- Improve roadways
 - New pavement
 - Traffic calming (bump outs, traffic humps)
 - Crosswalks
 - Sidewalks and curbing



QUESTIONS AND CONTACT INFO

- Lowell Regional Wastewater Utility (LRWWU)
 - Report a concern via city website Civic Plus (<https://www.lowellma.gov/requesttracker.aspx>)
 - John Pugh(staff engineer)
 - JPugh@lowellma.gov / (978) 674-1625
 - LRWWU Mainline 24/7 access
 - (978) 674-4248

