

East Side Coastal Resiliency Construction Update

CB3 Parks Committee Meeting

Virtual Meeting

May 11, 2023

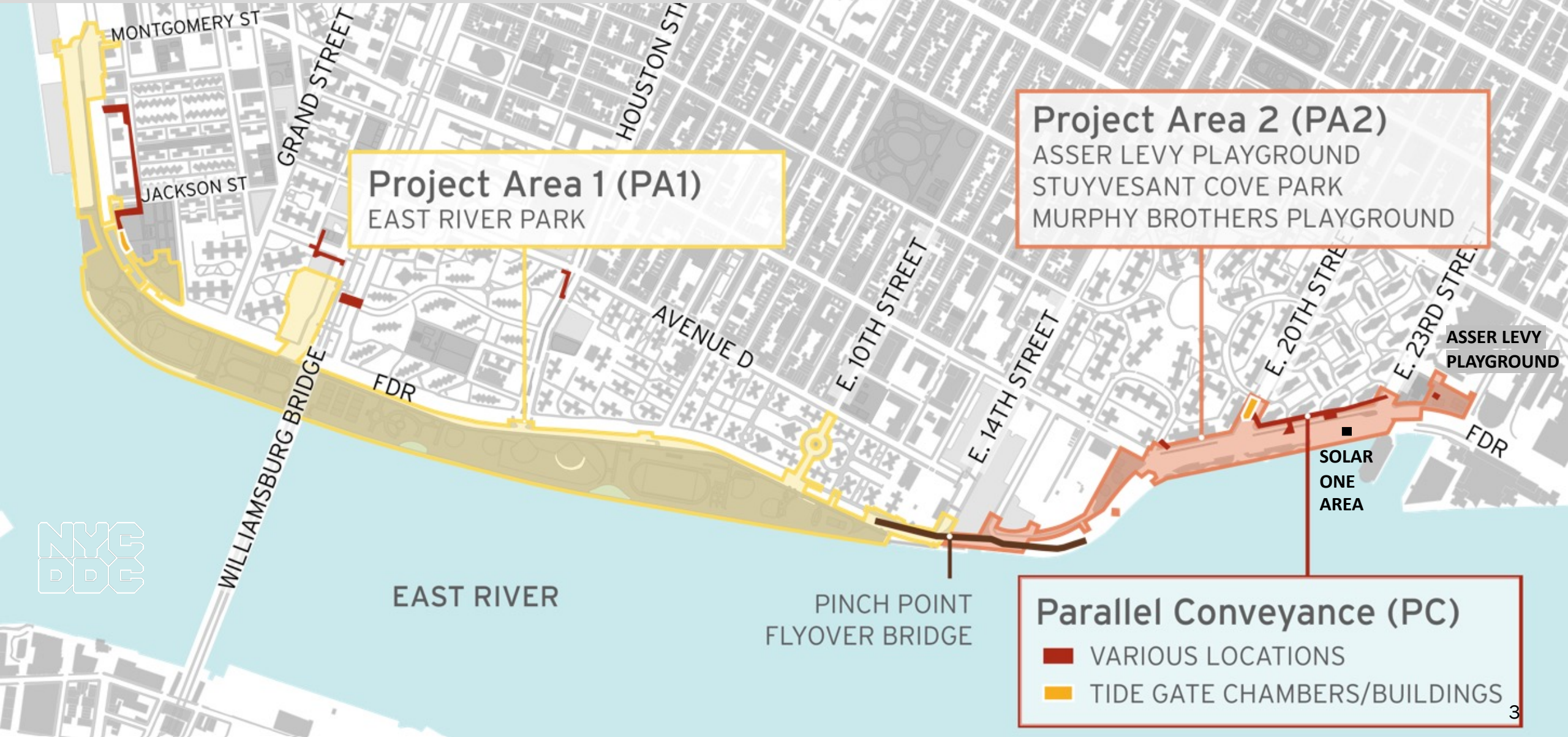


Mayor's Office of
Resiliency

Highlights

- Overview of Contracts
- PA2 Construction Progress
- PA1 Construction Progress
- Environmental Compliance
- PC Construction Progress

PROJECT AREA OVERVIEW



Overview of Contracts

Project Area 1 (PA1)

- NTP issued August 2021
- Partial Closures:
 - East River Park south of Stanton St.
 - Greenway closure to E. 10th St.
 - Corlears Hook Park & passive lawn
- Delancey St. & Corlears Hook pedestrian bridges under construction. Use Corlears Hook temp. ped bridge
- ongoing ConEd Work
- esplanade removal and deep sewer work in progress
- floodwall construction activities ongoing
- O&M retaining wall in progress

Project Area 2 (PA2)

- NTP issued November 2020
- 1,600 ft of floodwall installed
- **Asser Levy Playground Open**
 - Gate 18 installed
- **Stuyvesant Cove Park** including Solar One Area under construction
 - Gate **13, 14, 17** installed
 - site restoration north of E 20th St. underway - Greenway open
 - site restoration & flood gate work in progress south of E 20th St. – Greenway closed
- **Murphy Brothers** flood protection construction in progress

Parallel Conveyance (PC)

- NTP issued September 2022
- **subsurface investigations in progress**
- **to begin water main replacement**
- **to begin utility relocation**

VISIT PA1 GALLERY:

<https://www.nyc.gov/site/escr/project-updates/gallery.page>

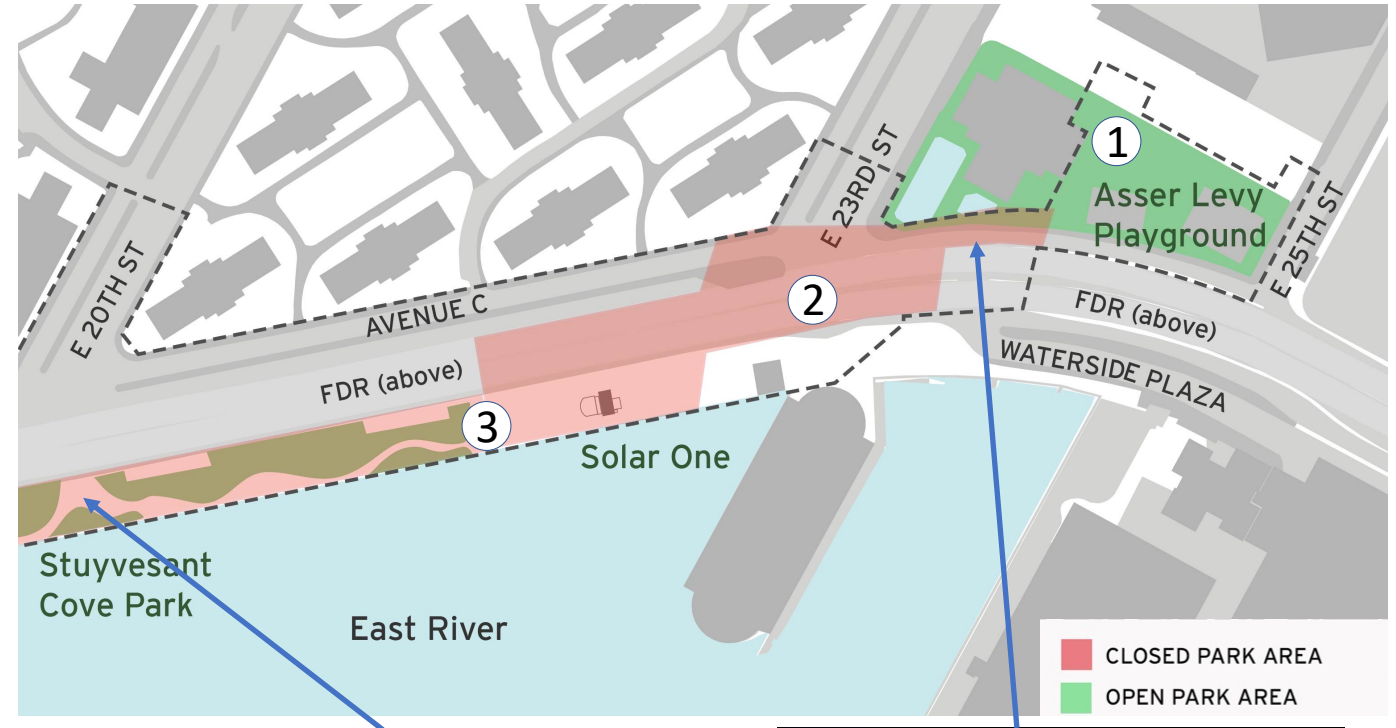
VISIT PA2 GALLERY:

<https://www.nyc.gov/site/escr/project-updates/gallery.page>

PA2 | Construction Progress

ALL WORK IS SUBJECT TO CHANGE

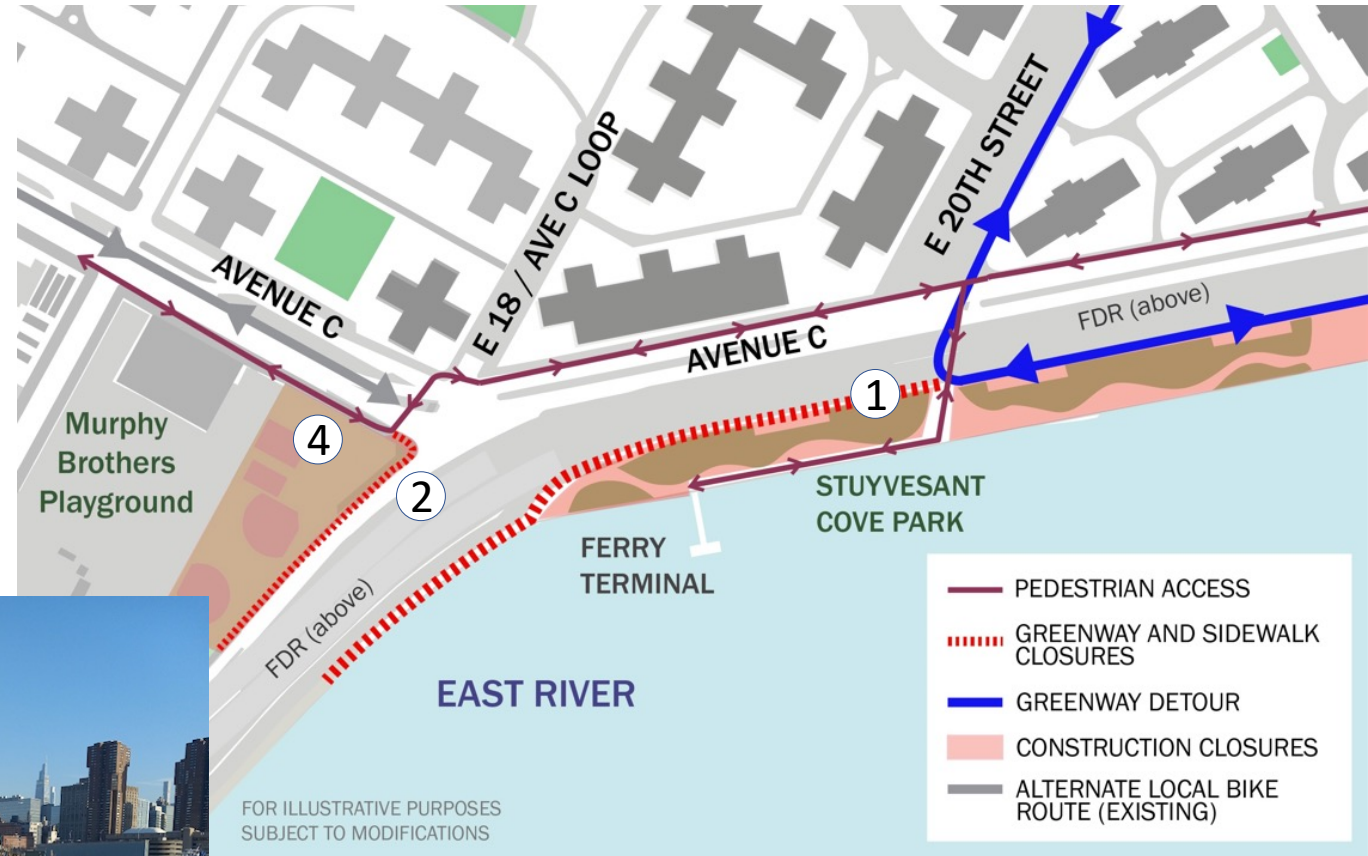
1. Asser Levy Playground
 - opened to public
 - floodwall and floodgate #18 installed
2. E 23rd St. Intersection:
 - floodwall, curb and sidewalk construction ongoing
 - Gate 17 installed
3. Stuyvesant Cove Park north of E 20th St.:
 - Greenway open
 - landscape iron rail fabrication in process
 - Gate 13 installed
 - anticipated to reopen end of May 2023



PA2 | Construction Progress

ALL WORK IS SUBJECT TO CHANGE

1. Stuyvesant Cove Park south of E 20 St:
 - ongoing floodwall construction
 - **ferry access will remain open**
 - scheduled to reopen in end of 2023
2. E 18th Street & SB FDR entrance ramp:
 - Floodwall construction ongoing
3. E 15th Street between Ave C and FDR Dr. within Con Edison
 - sewer replacement - pending
4. Murphy Brothers Playground
 - floodwall construction and pile installation
5. Southbound shoulder of E 16th Street
 - Sewer work continues



Project Area 1

PA1 | Early 2023 Construction Activities

ALL WORK IS SUBJECT TO CHANGE

1. Esplanade removal activities along the waterfront.
Deep sewer activities and pile install.
Floodwall (Combi-wall) installation.
Wick Drain Installation.
2. Delancey Street utility, pile and abutment work.
3. Construction for new Corlears Hook bridge.
4. Passive lawn partial closure for utility work.
5. Utility work near Montgomery Street & South Street.
Begin floodwall construction in 2023.
6. Montgomery St. – Cherry St. Greenway floodwall activities.
7. E. Houston Street south ramp demolition
8. ConEd work in Shared Use Path E. Houston Street to E. 10th Street
Slip Ramps in use.
9. E 10th Street utility work.
10. Ongoing partial FDR lane closures continue at various locations.

Weekly Bulletins & Advisories are issued with construction activities.
Saturday work is anticipated for some work operations as indicated.



PA1 | Construction Photos



Combi-wall construction – April 2023



Wick drain installation – April 2023

PA1 | Pedestrian Access Shift at E. Houston Street

ALL WORK IS SUBJECT TO CHANGE

Starting the week of May 8, 2023, ongoing until further notice

- Closure of the E. Houston St. south ramp, overpass south sidewalk, and a portion of the Greenway.
- North ramp will be opened for park access.
- Pedestrians use Baruch Dr. crosswalk to access park
- Park amenities will not be impacted.
- Please follow signage



PA1 | Pedestrian Access Shift at E. Houston Street

ALL WORK IS SUBJECT TO CHANGE



PA1 | E. Houston Street Lead Abatement

ALL WORK IS SUBJECT TO CHANGE

- As we begin this work, the public's safety is of utmost priority.
- The team will be handling the potential of lead paint safely, with proper oversight and in accordance with all local, state, and federal guidelines.
- Noise and air monitors are in place around the work area.
- The removal of materials potentially containing lead paint will be completed by a subcontractor certified in lead abatement who will isolate and/or remove lead as needed using several methods which are approved industry standards.

PA 1 | East 10th Street Construction Activities

ALL WORK IS SUBJECT TO CHANGE

2023

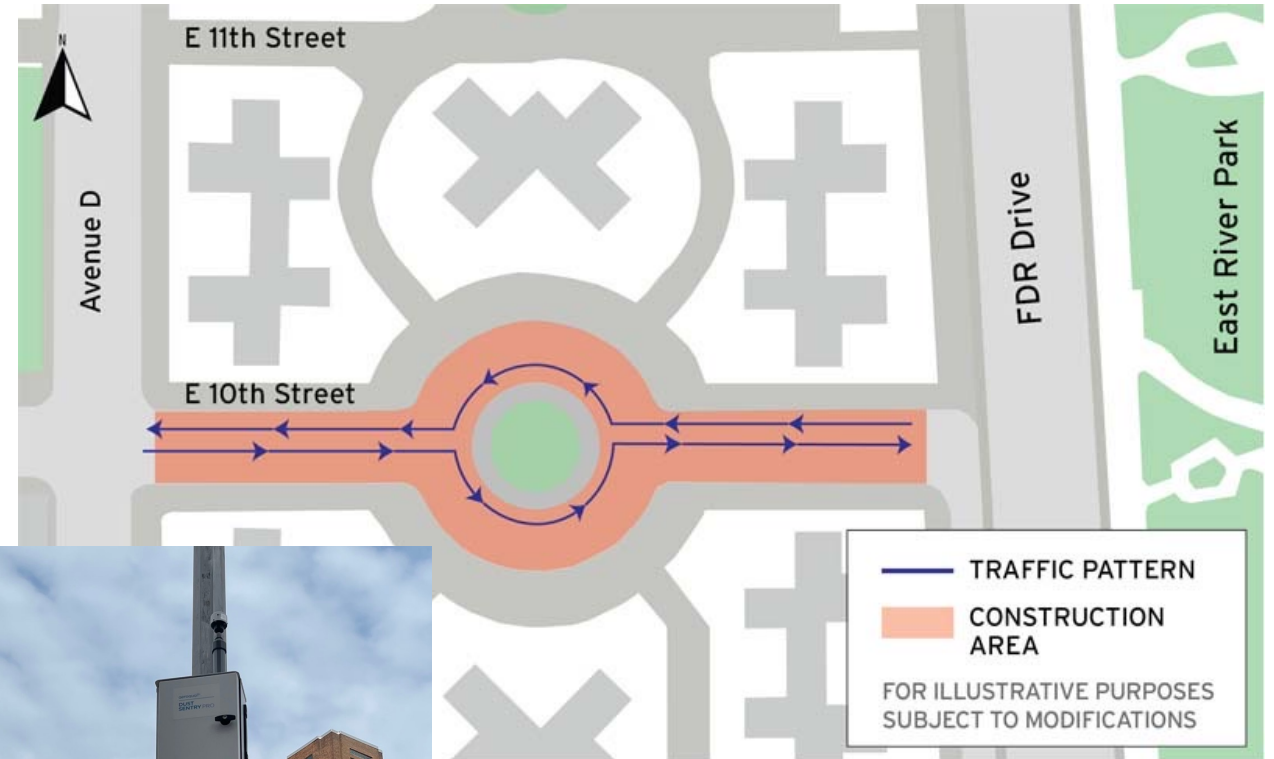
- CURRENT WORK: ConEd electrical work
- SUMMER/FALL: Start 42" sewer work

2023/2024

- Continue New 42" sewer E 10th St. south side of circle between FDR Dr. and Ave. D
- New 42" sewer middle of E 10th St. between circle and FDR Dr.

2025

- E 10th Street Bridge demolition and reconstruction



Environmental Compliance - General

- multi- tiered environmental oversight (agencies, PMCM, environmental subconsultants)
- soil sampled during design
- contractor screens and samples soil prior to excavation to determine how soil is disposed of
 - All soil is screened for evidence of contamination when it is excavated. Screening includes:
 - Looking for visual/olfactory evidence of contamination
 - Screening for organic vapors with a handheld Photo-Ionization Detector (PID), if potential to be in MGP work area
- in conformance with all city, state and federal laws for
 - monitoring
 - handling
 - disposal



Photo-Ionization
Detector (PID)

Manufactured Gas Products (MGPs)

- **EIS Chapter 5.7 Hazardous Materials Chapter:**
<https://www.nyc.gov/assets/escr/downloads/pdf/FEIS/ESCR-EIS-Chapter-5.7-Hazardous-Materials.pdf>
 - “During the subsurface investigations of the study area, subsurface contamination consistent with historical MGPs and other sources of petroleum waste were found in both soil and groundwater of Project Area One (predominately in the northern portion) ...”
- **January 2021 CB3 and CAG Meeting #4** – introduction of EIS chapters which include language of MGPs. Discussions on steps taken for soil testing and disposal.
- **Memorandum of Agreement** with the City of NY and DEC specifically for the ESCR project which specifies protocols around MGPs.
- When MGPs are found, the **Mitigation Work Plan** is implemented, a third-party environmental monitoring consultant comes in to activate the Community Air Monitoring Program (CAMP) which includes additional Air and VOC monitoring.
- **EIS Chapter 6.6 Construction Hazardous Materials:**
<https://www.nyc.gov/assets/escr/downloads/pdf/FEIS/ESCR-EIS-Chapter-6.6-Construction-Hazardous-Materials.pdf>

ESCR MITIGATION TECHNIQUES - AIR

We are taking steps to control dust and limit emissions during construction.

To protect air quality, we are taking extensive preventive measures during daily construction activities, and we will increase these measures if monitoring machines indicate additional action is needed.

Measures to reduce construction vehicle pollution and emissions:

- Use Ultra-Low Sulfur Diesel fuel
- Minimize use of diesel engines, use the best available technology for non-road diesel engines, and restrict truck idling time
- Use barging for large deliveries. One barge has the capacity to divert up to 57 trucks from local roads.

Measures to reduce and control dust:

- Cover and secure loads for all trucks hauling loose material including sand and dirt
- Use water spray for roads, trucks, truck wheels, excavation areas, and stockpiles
- Cover stockpiles with anchored tarps
- Use extra care, including more frequent application of these measures, during dry periods and high wind periods



ESCR MITIGATION TECHNIQUES - SOIL

We are taking steps to protect NYC waters from construction related sediment pollution.

To mitigate stormwater pollution, we are taking extensive measures during daily construction activities. These activities are standard in the construction industry and are regulated by NYSDEC and NYCDEP.

New York State Department of Environmental Conservation (NYSDEC) State Pollution Discharge Elimination System (SPEDES) Permit Program:

- Prevent petroleum contaminants and sediment from entering the sewer system (ex. using settling tanks)
- Monitoring volume of water entering the sewer system
- Utilize previously identified and approved discharge locations

New York City Department of Environmental Protection (DEP) Stormwater Pollution Prevention Plan (SWPPP) manages and mitigates construction pollution through:

- Hay bales and silt barriers cover storm drains and prevent soil particles from entering the sewer system and East River
- Silt fences to prevent soil particles from leaving the site
- Turbidity curtains to trap shoreline and incidental sediment from entering the East River
- Soil stabilization techniques including construction staging, tarps, and hay mats
- Cover stockpiles with anchored tarps, spray construction site with water, and cover all truck loads leaving the site to prevent dust emissions
- Frequent SWPPP inspections

PA1 | What We've Heard

- **Wick Drain Installation:** wick drains remain in the ground to facilitate the compaction process
- **Archaeology Update:** Field investigation work is nearing completion.

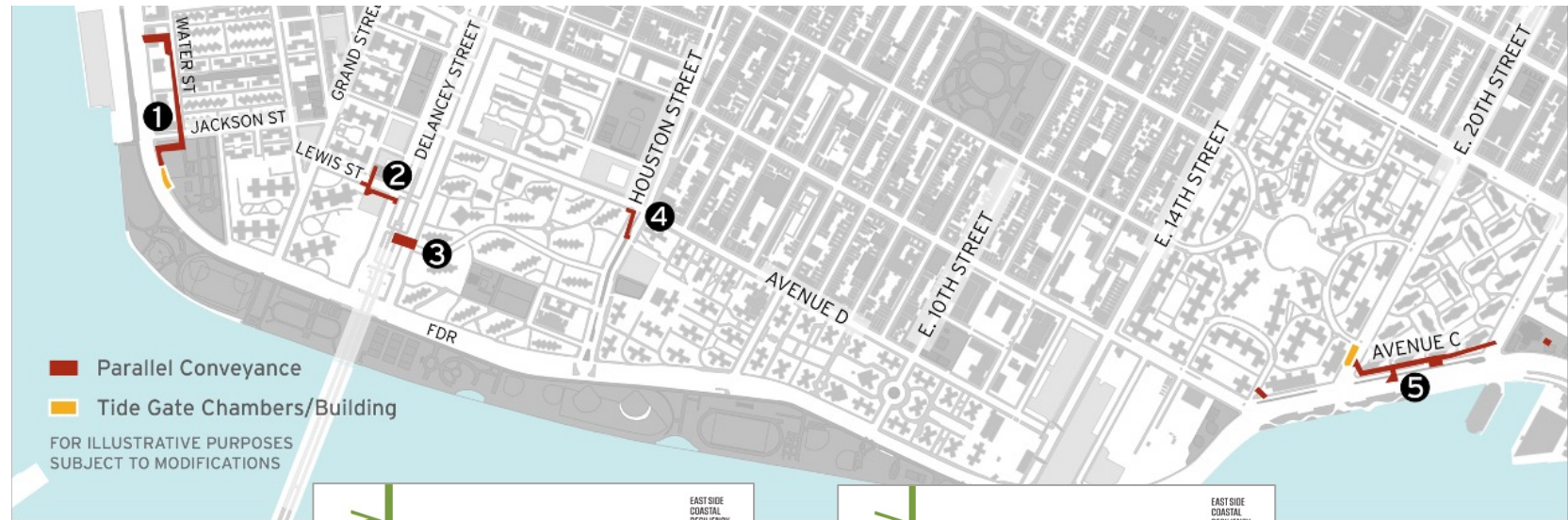
Per LPC: After field work is completed, the public outreach and mitigation plans will be reviewed and approved as per the Programmatic Agreement. Once approved, construction can proceed. The final archaeology report may take 18-24 months to become public due to the size and complexity of the project.

- **Pedestrian Signage:** coordinating with NYC DOT on additional signage at E10th Street & Delancey Street

PC | Construction Progress

ALL WORK IS SUBJECT TO CHANGE

- Location 1 – Jackson St. & Water St.
 - To begin water main replacement
 - To begin utility relocation
- Location 2 – Lewis St. & Delancey St.
- Location 3 – Baruch Dr. & Delancey St.
 - To begin test pit operations
- Location 4 – Houston & Avenue D
 - Continued test pit operations
- Location 5 – Avenue C, E20th to E23rd
 - Project Area Survey
 - Test pit operations



Community Advisory

Project # SANDRESC | Borough: Manhattan | Issue Date: 4/11/2023
 The East Side Coastal Resiliency (ESCR) Project is an initiative to provide long-term flood protection on the east side of Manhattan.

Limited Parking
 April 13, 2023
 Ongoing until further notice
 From 7:00am to 3:30pm

- North side of Delancey St. S. from Lewis to Margin St
- Baruch Dr between Delancey St. North and South
- Intersection of Delancey St. North and Baruch Dr.

These temporary restrictions are necessary to excavate test pits to determine the location of underground structures and utilities. Please follow all posted signs.

FOR ILLUSTRATIVE PURPOSES
 SUBJECT TO MODIFICATIONS

Questions? 有问题? 詢問?
 PC Community Construction Liaison (CCL) | Email: sandrespc.ccl@gmail.com
 Tania Wokosin, 914-313-6863
 Inquiries | Consulte en Ligne | 線上諮詢: www.nyc.gov/escr/contact

PLEASE NOTE: Due to unforeseen conditions (weather, field conditions, etc.) it may become necessary to change some scheduled work locations and operations. During non-construction hours emergency situations, please contact the New York City Government Services and Construction Helpline at 311 or general Emergency Number 911.

NYC Department of Design and Construction

Community Advisory

Project # SANDRESC | Borough: Manhattan | Issue Date: 04/06/2023
 The East Side Coastal Resiliency (ESCR) Project is an initiative to provide long-term flood protection on the east side of Manhattan.

No Parking
 Monday, April 10 - Friday, April 14, 2023
 7:00 AM - 4:00 PM

- 1) North side of Water St. between Jackson St. and Gouverneur Slip E.
- 2) Both sides of Gouverneur Slip E. between Water St. and South St.

These temporary restrictions are necessary to facilitate sawcutting for Water Mains on the Street. All driveways will remain open. Please follow all posted signs.

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NYC Department of Design and Construction

PC | Typical Construction Sequencing

ALL WORK IS SUBJECT TO CHANGE

Construction Activities have begun in the southern portion of the project and will move north



LOCATIONS WITHOUT TIDE GATE CHAMBER BUILDINGS

- A. Mobilization & Protection
- B. Test Pits and Site Survey
- C. Utility relocation and upgrades
- D. Install parallel conveyance sewer lines
- E. Final restoration

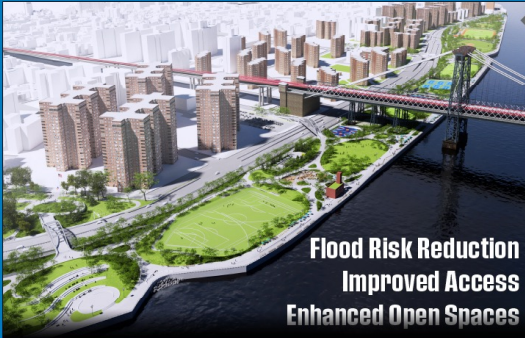
LOCATIONS WITH INTERCEPTOR GATE CHAMBER BUILDINGS

- A. Mobilization & Protection
- B. Test Pits and Site Survey
- C. Utility relocation and upgrades
- D. Excavation for Interceptor Gate Chambers
- E. Install parallel conveyance sewer lines
- F. Final restoration

NYC East Side Coastal Resiliency 311 Search all NYC.gov websites

NYC The East Side Coastal Resiliency Project 简体中文 Translate Text-Size

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**Flood Risk Reduction
Improved Access
Enhanced Open Spaces**

LEARN MORE
Construction on the East Side Coastal Resiliency project will begin in Fall 2020. Learn more about where construction will occur and how to receive updates throughout the project.

East Side Coastal Resiliency

The East Side Coastal Resiliency (ESCR) Project is a coastal protection initiative, jointly funded by the City of New York and the federal government, aimed at reducing flood risk due to coastal storms and sea level rise on Manhattan's East Side from East 25th Street to Montgomery Street. The boundaries of this project correspond with the natural "pinch-points" in the 100-year floodplain: areas where the land is higher along the coastline, making it easier to close the system off from water entering from the north and south. The project design integrates flood protection into the community fabric, improving waterfront open spaces and access, rather than walling off the neighborhood. Construction on the East Side Coastal Resiliency project will begin in Fall 2020 and continue through 2025.

| | | | |
|---|--|--|--|
|  <p>Construction Progress</p> |  <p>Resiliency & Flood Protection</p> |  <p>Project Background & Goals</p> |  <p>Project Design</p> |
| <p>Construction Notices View our most recent community presentations for updates as we prepare for upcoming construction activities.</p> | <p>Resiliency and Flood Protection Learn more about ESCR's resiliency and the forward-thinking flood protection measures being implemented to protect 110,000 New Yorkers from the impacts of climate change.</p> | <p>Project Background and Goals Read about the history and background of ESCR, and the goals driving this technically complex infrastructure project.</p> | <p>Project Design From flood protection measures to bike lanes and ball fields, the ESCR project is improving open spaces and access in the Lower East Side while strengthening the city's coastline.</p> |

NEED MORE INFORMATION?

VISIT US AT:
www.nyc.gov/escr

