REBUILD BY DESIGN

HUDSON RIVER

JERSEY CITY HOBOKEN WEEHAWKEN | NEW JERSEY

RESIST ALIGNMENT
Construction Phase
November 16, 2023

AECOM OMA MAGNUSSON KLEMENCIC ASSOCIATES MATRIXNEWORLD Royal HaskoningDHV Green Diamond REMORA CONSULTING, LLC.

THE RBDH PROJECT TEAM

Presenter

DENNIS REINKNECHT, DEP
Director, Climate and Flood Resilience Engineering & Construction

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DEP

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Construction Management Firm (CMF)

Berger-Hill JV

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CMF Program Manager

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Community Construction Liaison

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HILL INT'L
Construction Project Manager

EE CRUZ & COMPANY

Resist Construction Contractors

AECOM

Architect/Engineer

Superstorm Sandy – 9:10am EDT October 29, 2012

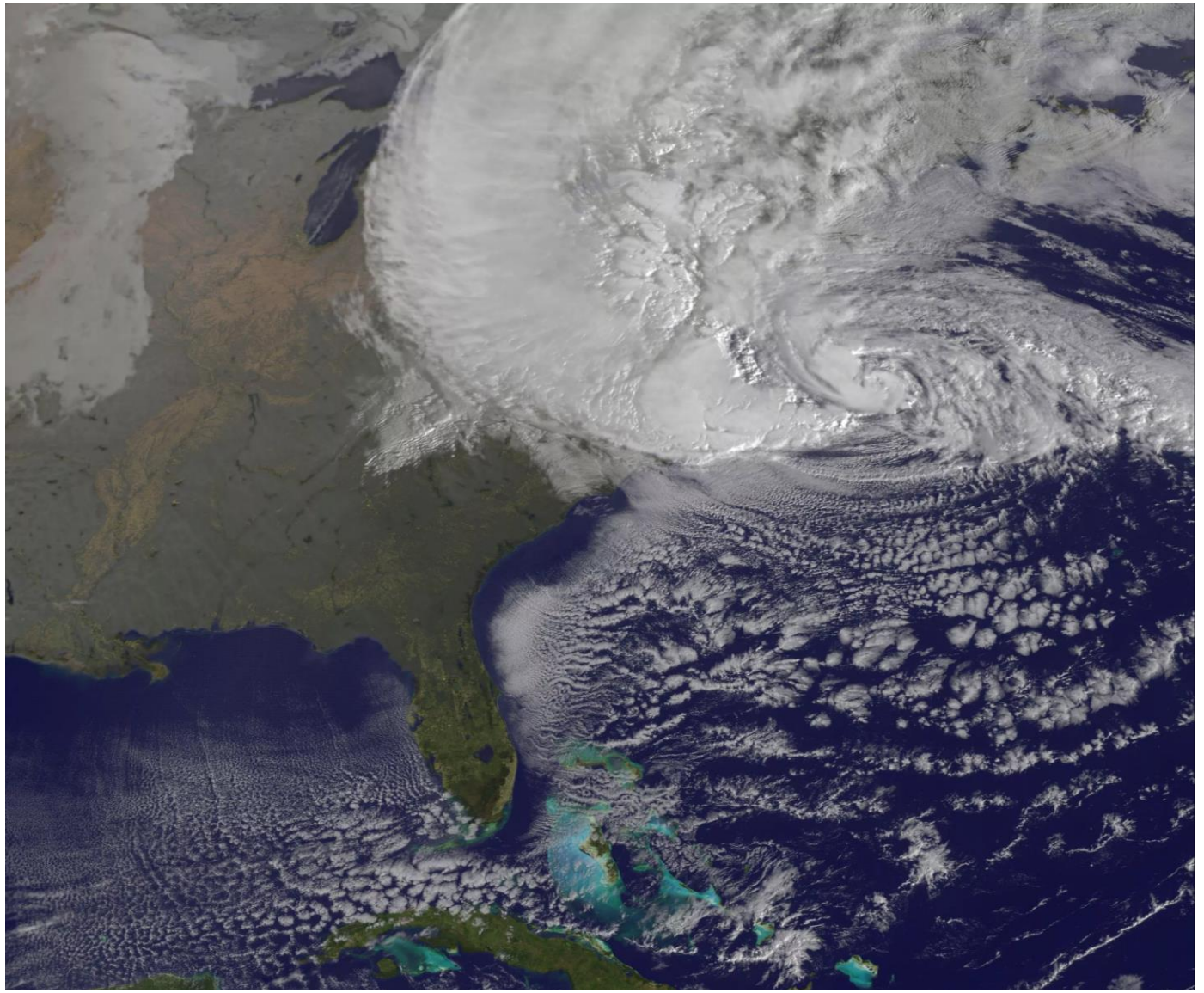


Image from NOAA's GOES-13

Flooding Post-Sandy 2012

Photos: Lauren Casselberry, The Jersey Journal

Flooding Post-Sandy 2012

Photo: Sterne Slaven, New York Times

HUDSON RIVER PROJECT: RESIST, DELAY, STORE, DISCHARGE

Developed by: OMA with Royal HaskoningDHV; Balmori Associates; and HR&A Advisors

Rebuild By Design – Hudson River Project

Resist – Delay – Store – Discharge:
Combined coastal and stormwater drainage flood risk reduction.

Rebuild By Design – Hudson River Project

Resist
Hard infrastructure and soft landscapes for coastal defense.

$230M
Original funding by U.S. Department of Housing & Urban Development
Additional funding secured through FEMA and American Rescue Plan

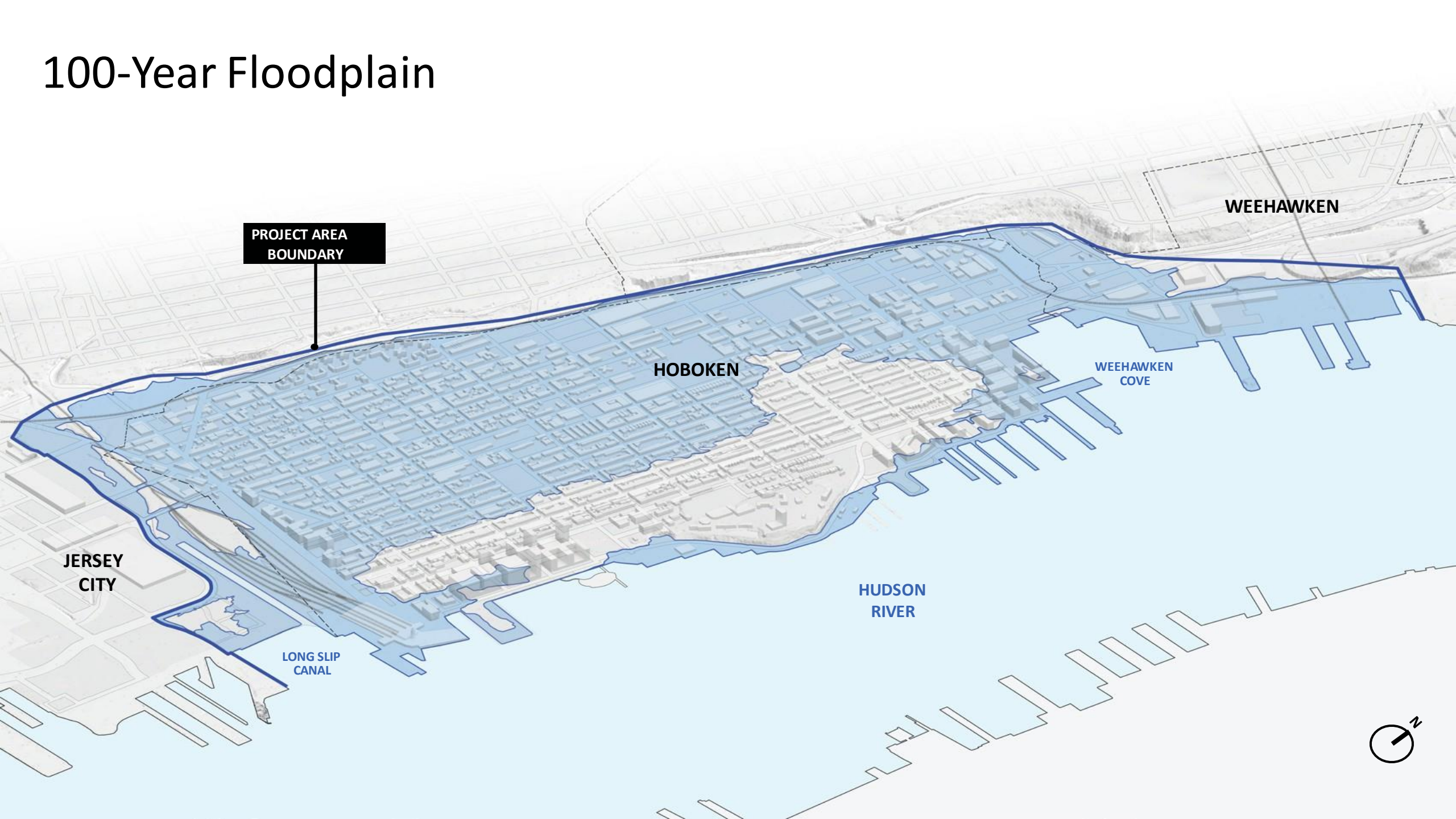
AECOM

Project Area

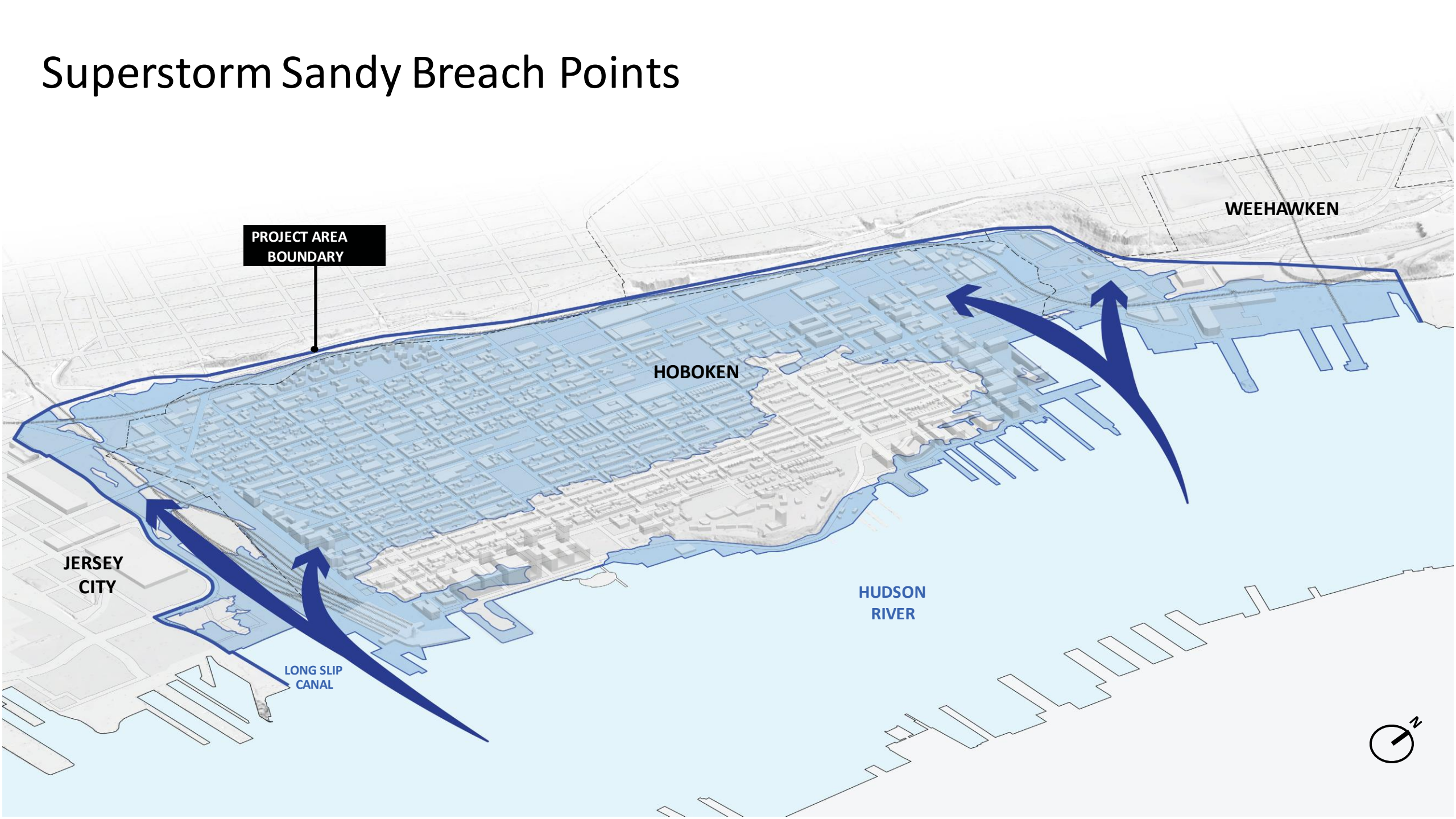
Topography


PROJECT AREA BOUNDARY
WEEHAWKEN COVE
HUDSON RIVER
LONG SLIP CANAL
LEGEND
PROJECT AREA BOUNDARY
15+ FT
10 - 15 FT
5 - 10 FT
0 - 5 FT
N

100-Year Floodplain



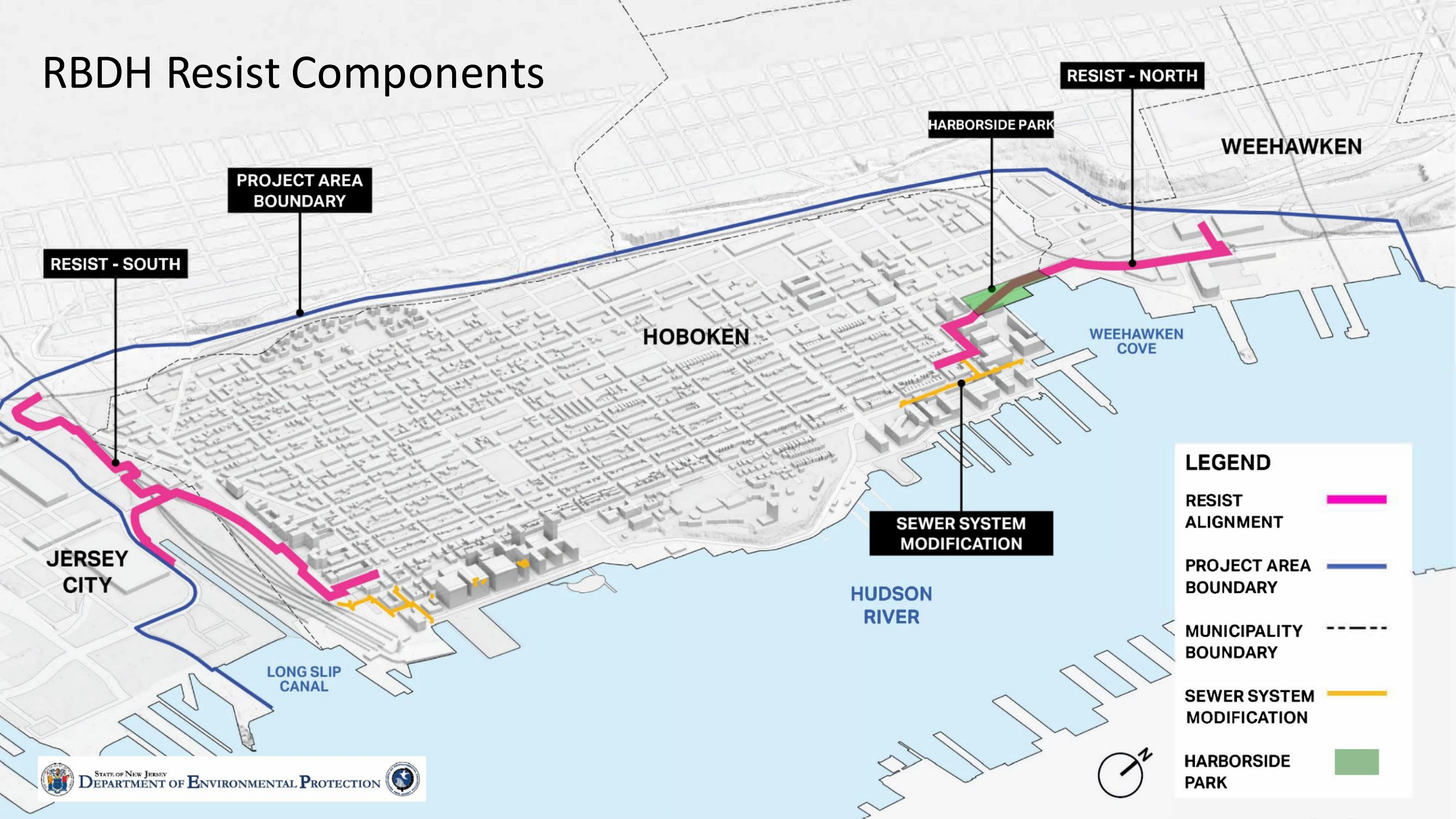
Superstorm Sandy Breach Points



Resist Alignment Purpose

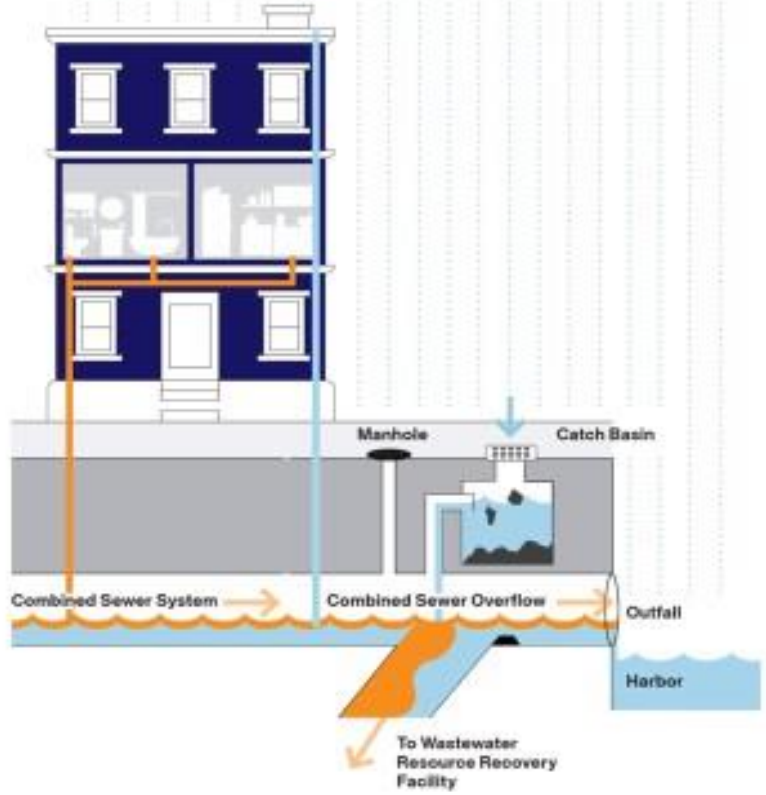
RBDH Line of Protection

RBDH Resist Components

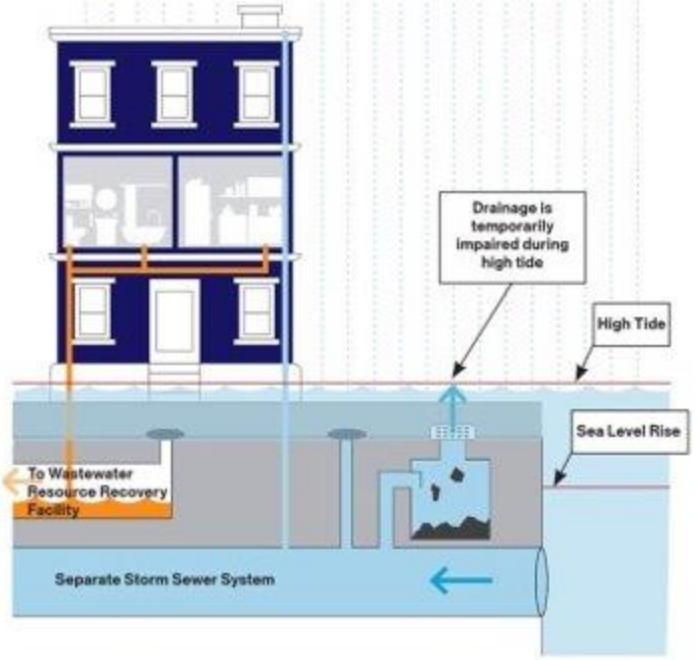


Combined & Separated Sewers

Combined Sewer Overflow Condition



Separated Sewer Overflow Condition

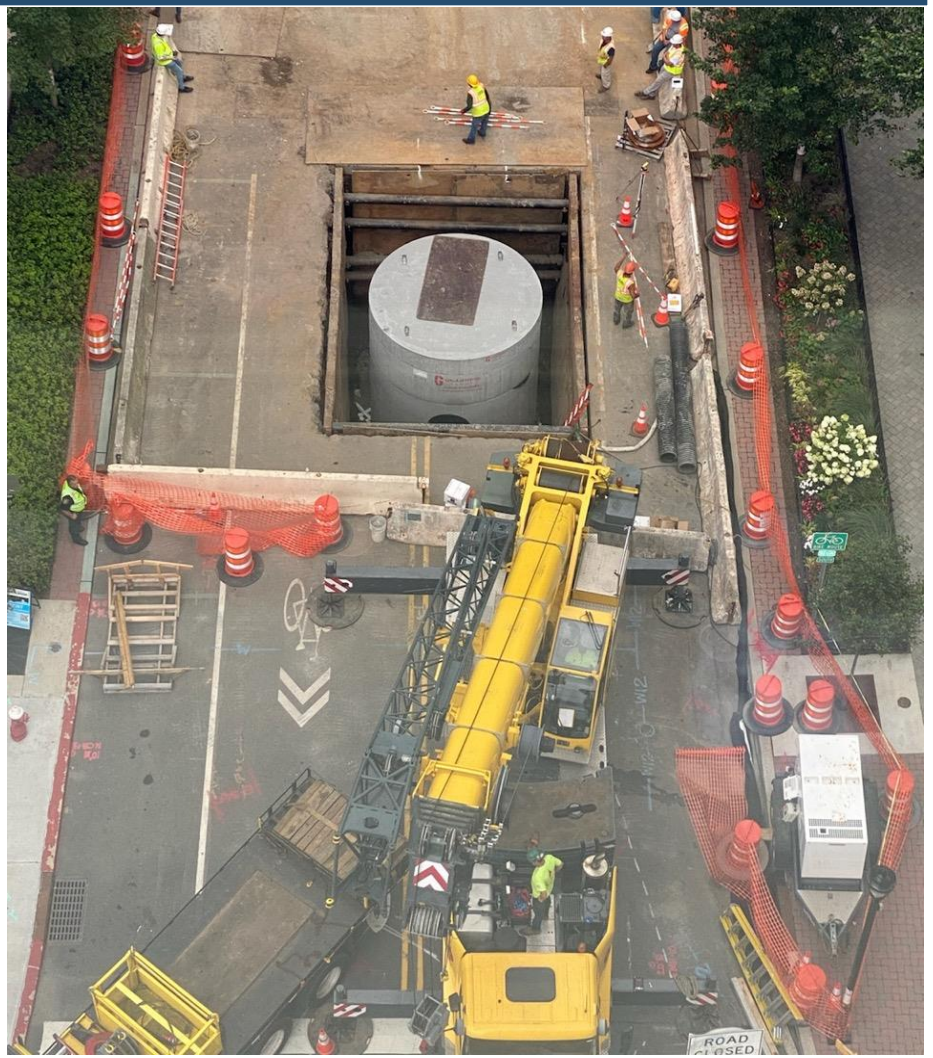


Source: New York City Stormwater Resiliency Plan, NYC Mayor's Office, May 2021

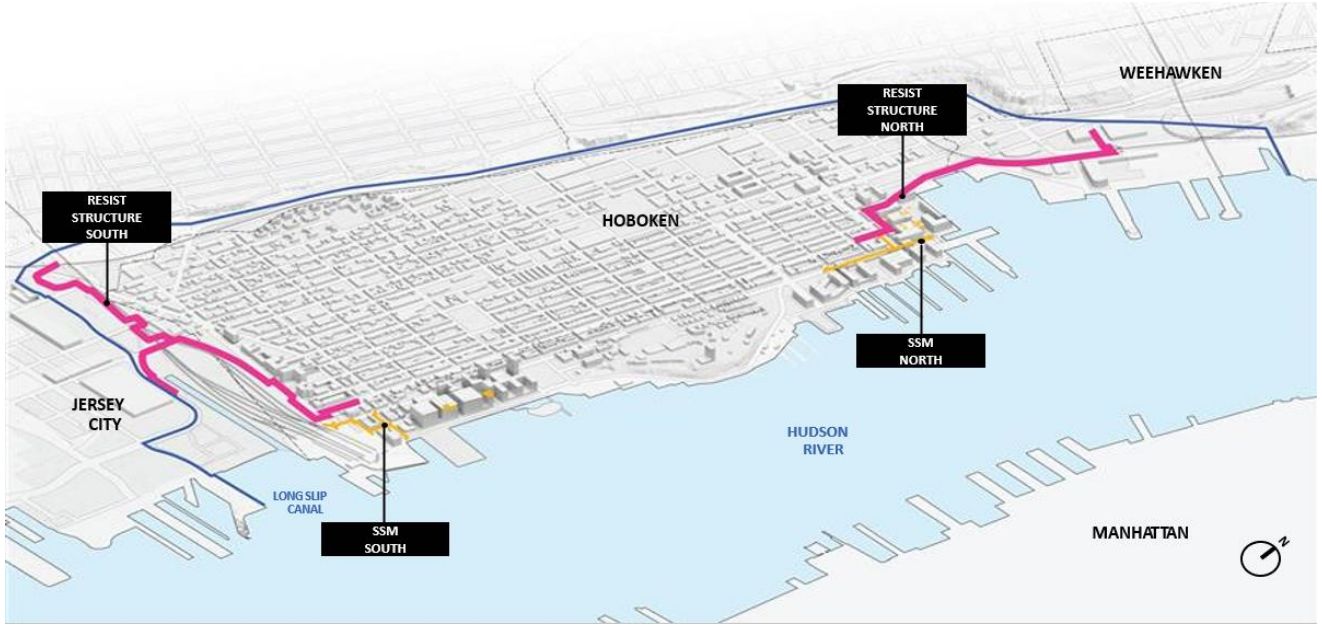
SSM Construction Complete

SCOPE OF CONSTRUCTION

- Over 100 existing manholes sealed
- Approx. 40 catch basins installed
- Over 30 manholes installed
- Over 40,00LF of pipe installed
- 8 stormwater treatment units installed



Rebuild by Design – Resist Alignment



WHAT: Installing a floodwall with flood gates and integrating a resiliency park, along with other urban amenities

WHERE: Northern Hoboken/Southern Weehawken – from 13th St and Washington St to Lincoln Harbor Rd
Southern Hoboken/Northern Jersey City – from Hoboken Ave/Coles St to Newark St and Washington St

WHY: To achieve greater resilience against storm surge through the Rebuild by Design Hudson River project

WHEN: Now (Fall 2023) through Summer 2027

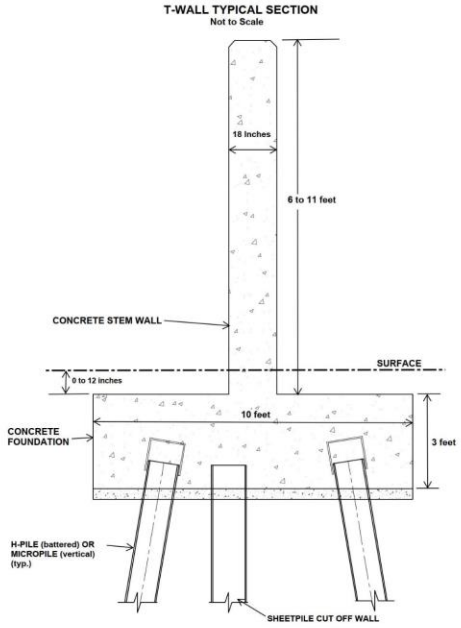
What to Expect During Resist Construction

General scope of construction:

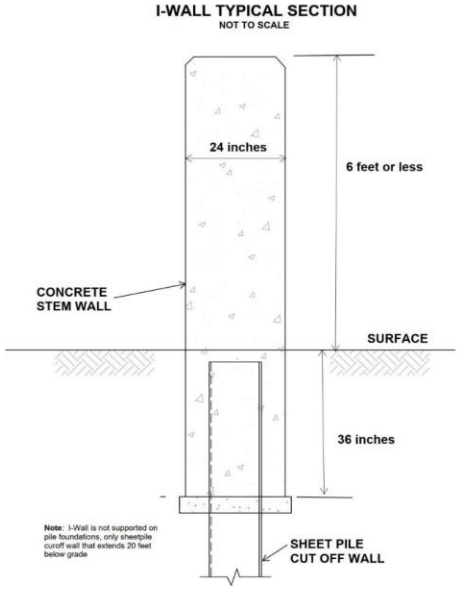
- Approximately 9,970 linear feet of concrete flood wall
- 26 flood gates
- 6 sluice gates and 2 steel flap gates
- Improvements to Harborside Park
- Integrating urban amenities to the Resist Alignment
- Approximately 66,300 linear feet of micropiles
- Approximately 52,000 linear feet of H-piles
- Approximately 81,600 square feet of sheet piles

Resist Structure

T - Wall



I - Wall



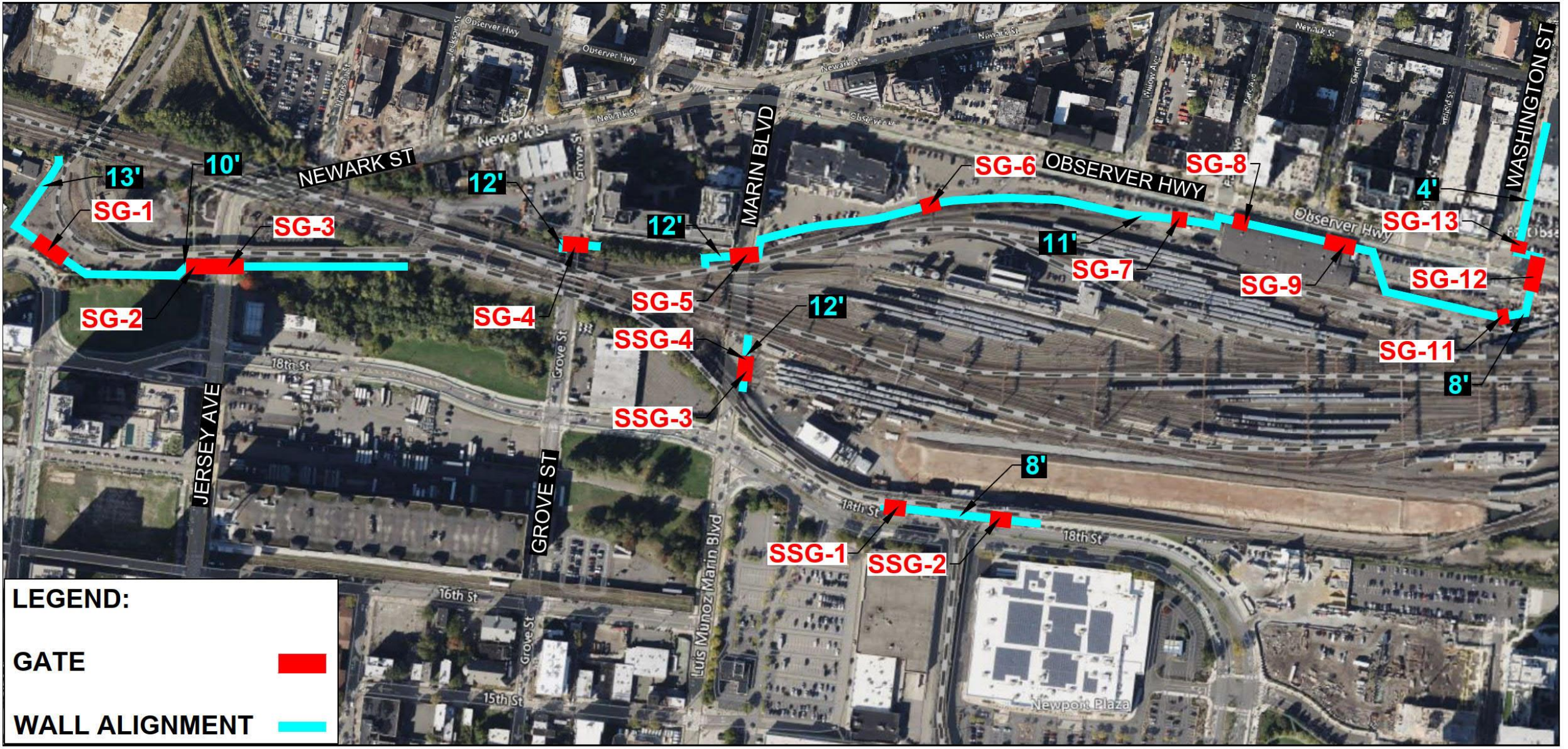
Gate Examples

Rolling Gates

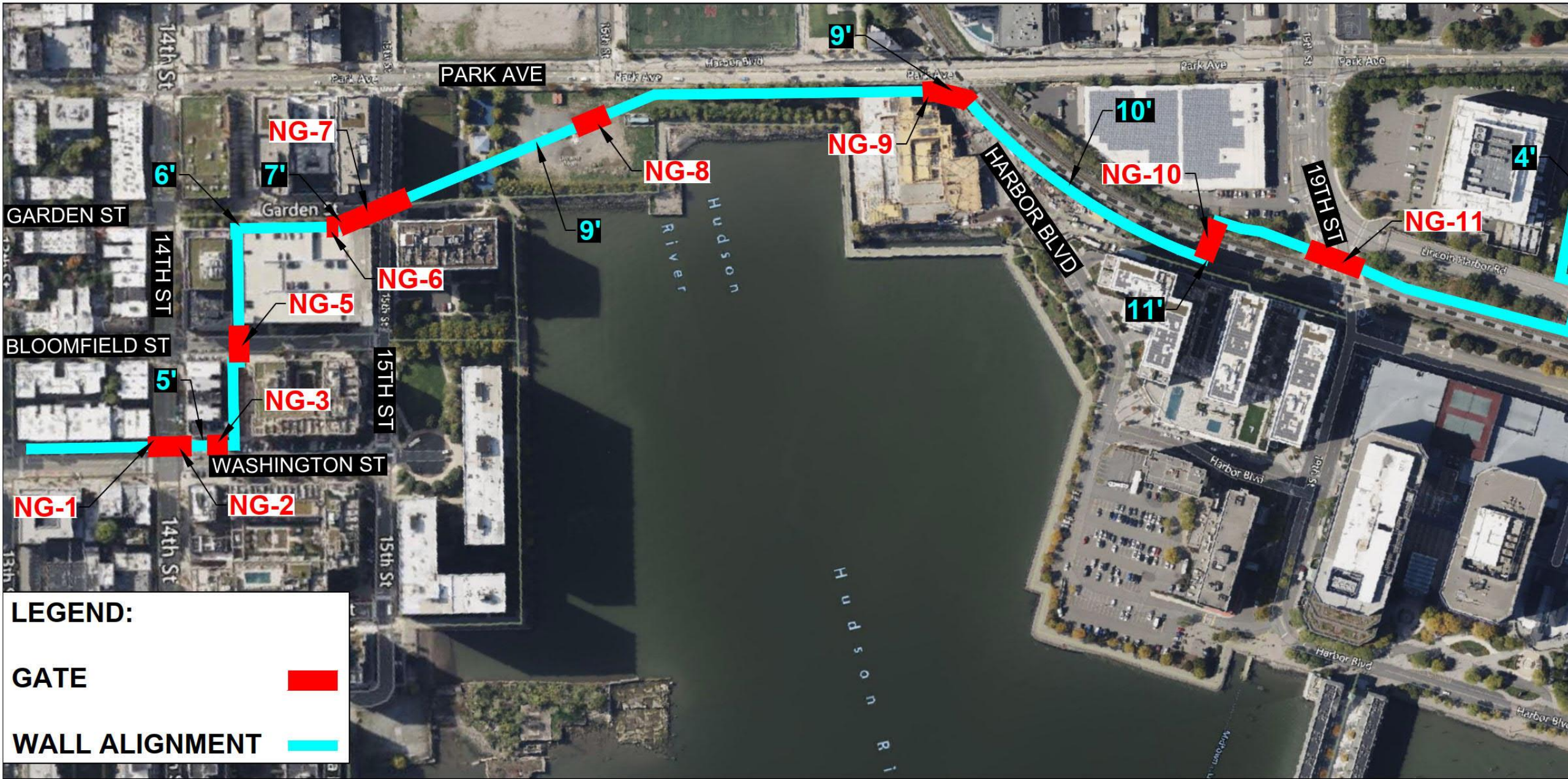
Swing Gates

Stop Logs

Resist Alignment - South

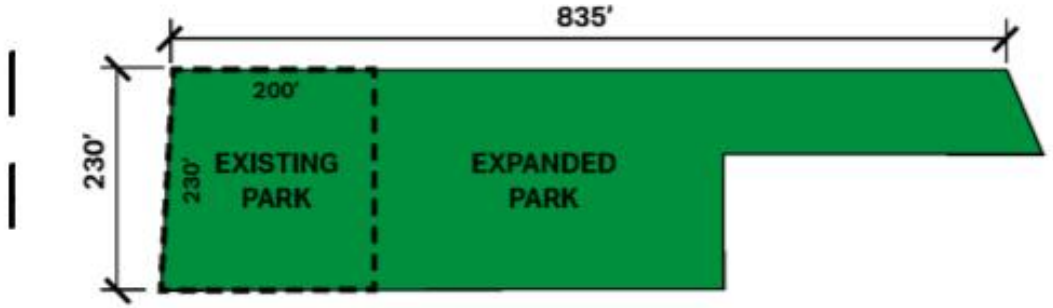


Resist Alignment - North



Harborside Park

HARBORSIDE PARK



REBUILD BY DESIGN - HUDSON RIVER AECOM

General Sequence of Construction

1. Test pitting / Utility location / relocation & protection

- Test Pitting is currently underway and will be occurring over the next couple of months.

- The purpose of the Test pits are to confirm locations of underground utilities prior to construction

General Sequence of Construction

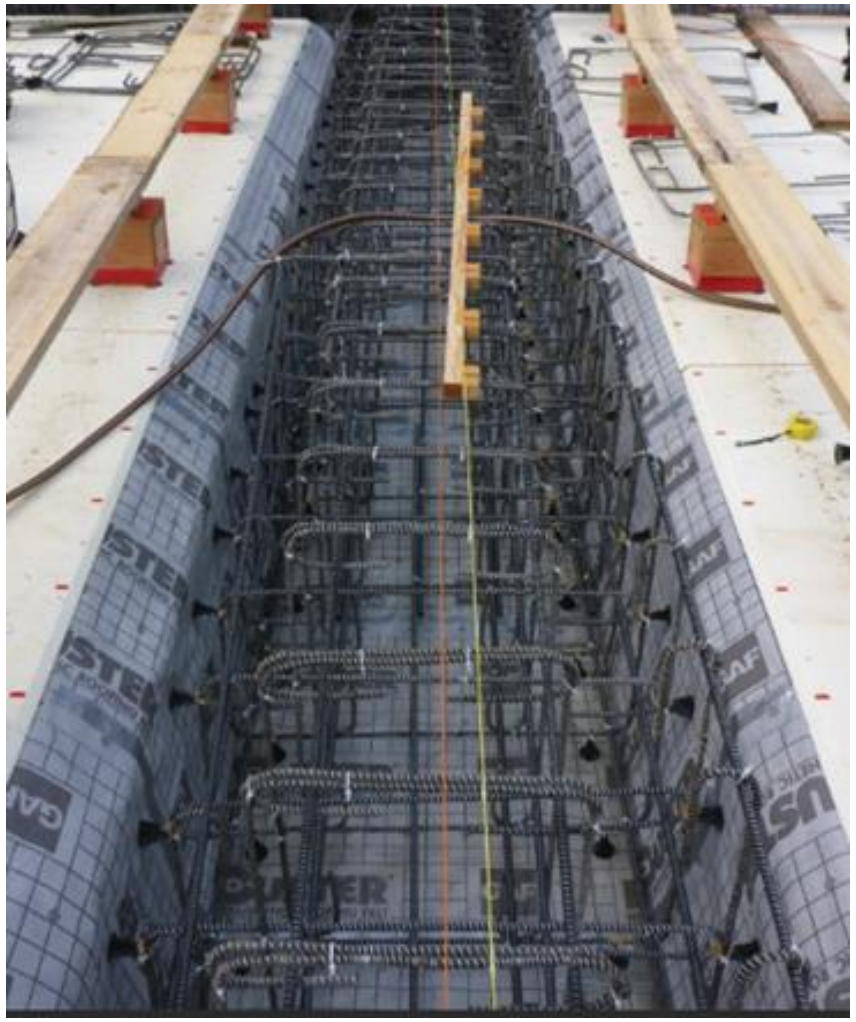
2. Install piles & sheeting.

Illustrative examples of equipment used for installation. Actual equipment used may vary.

EK160 - CZM Foundation (czm-us.com)
https://www.dundrum.com.au/fleet/specialised/sheet-pilling

General Sequence of Construction

3. Install foundation and backfill.



4. Install stem wall.

Illustrative examples from other projects.

https://www.forconstructionpros.com/concrete/article/20972529/army-corps-builds-foundation-for-resiliency

General Sequence of Construction

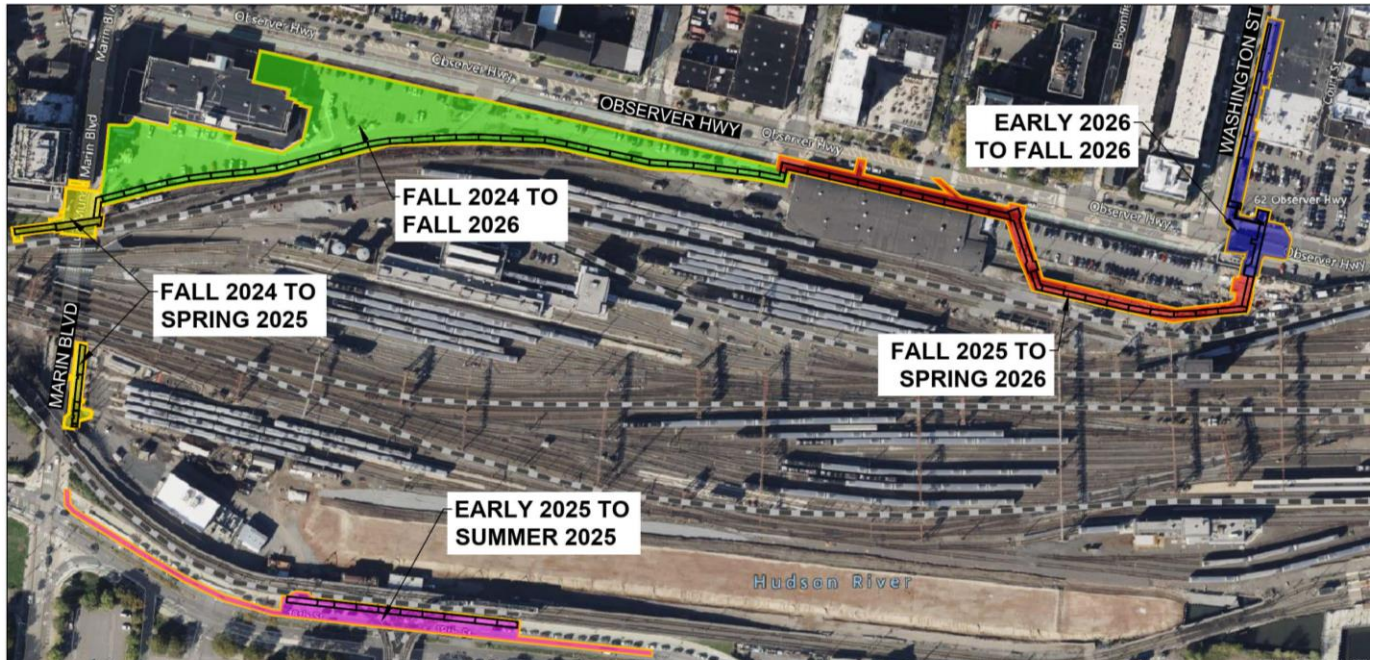
5. Install gate structures.

General Sequence of Construction

6. Install Urban Amenities, restore landscaping/plantings and site restoration.

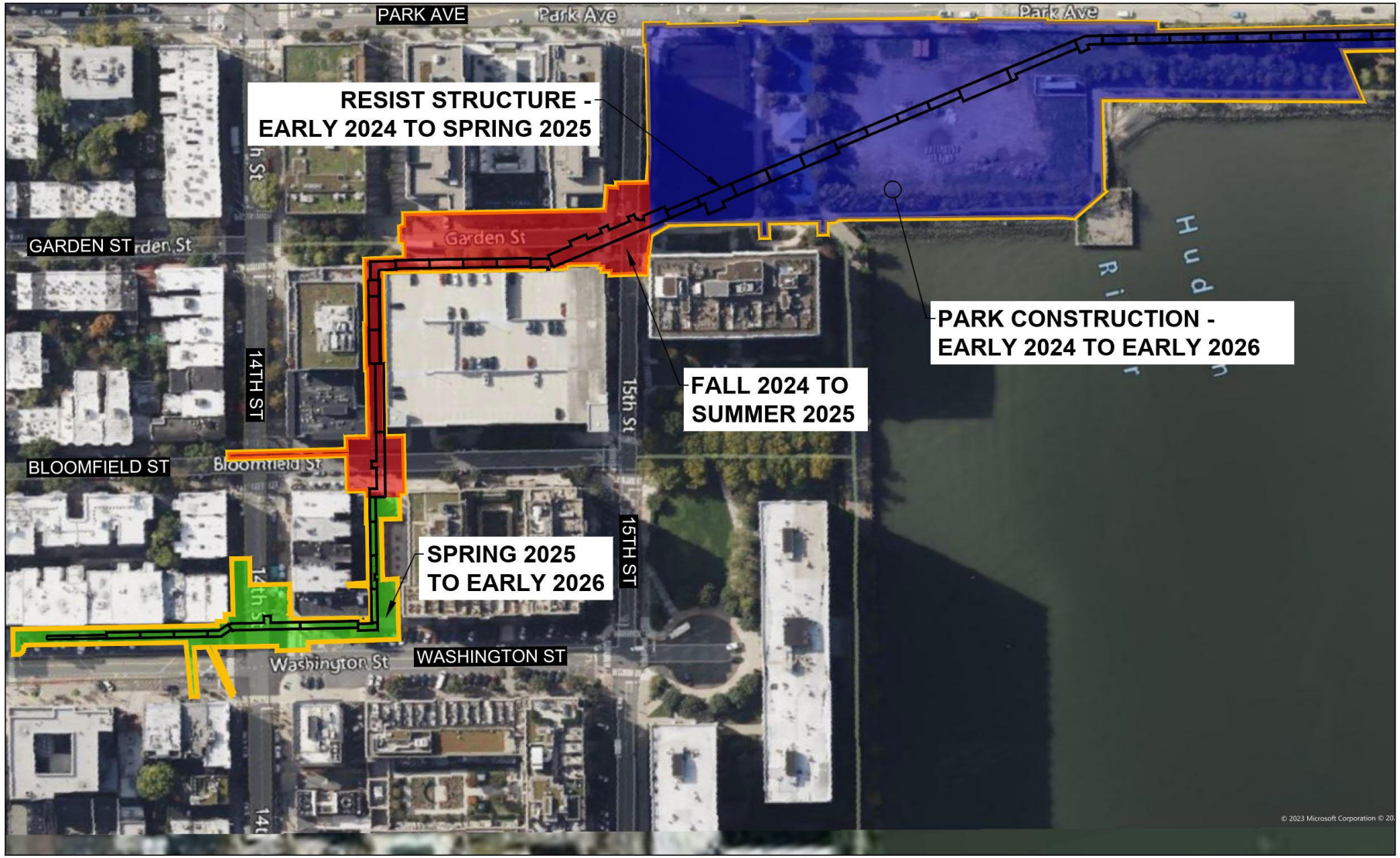
South Alignment – Current Timeline

- Timelines generally represent when construction is anticipated.
- Periodic work may occur outside the timeframes listed until final project completion anticipated in Summer 2027.
- Construction anticipated to proceed sequentially.



North Alignment – Current Timeline

- Timelines generally represent when construction is anticipated.
- Periodic work may occur outside the timeframes listed until final project completion anticipated in Summer 2027.
- Construction anticipated to proceed sequentially.



Quality of Life-Noise, Dust & Vibration Monitoring

- Work will be performed within the permissible noise and vibration levels and will be consistently monitored.
- Contractor will be implementing their submitted approved plans for noise, dust and vibration control and monitoring.
- In the event noise, vibration, or dust levels exceed acceptable limits the Contractor will advise the Construction Manager immediately and appropriate action will be taken.

Quality of Life–Traffic Maintenance & Protection

- Periodic lane shifts and /or lane closures will be in close coordination with Hoboken Police Dept.
- Hoboken Police Dept. / Office of Emergency Management will assist with traffic flow for any lane closures and provide traffic control officers to guide pedestrians.
- No parking will be permitted within work areas during closures.

Public Outreach

VISIT OUR WEBSITE:
https://www.nj.gov/dep/floodresilience/rbd-hudsonriver.htm

HOW TO STAY INFORMED:

- City of Hoboken construction updates

- Sign up for RBDH **weekly community construction advisories:**
https://public.govdelivery.com/accounts/NJDEP/subscriber/new?topic_id=NJDEP_299

QUESTIONS? please contact your **Community Construction Liaison** (CCL):

Isabella Brascetta | **1-800-252-0219** | **rbdhinquiries@portal3.pbid.com**

Hoboken Contact: Caleb Stratton, Chief Resilience Officer, CStratton@hoboken.nj.gov

NJDEP website QR Code

Advisories QR Code

Additional Community Outreach Meetings will be held as the Project progresses.

Questions?