

REBUILD BY DESIGN

# HUDSON RIVER

JERSEY CITY

HOBOKEN

WEEHAWKEN

NEW JERSEY



## RESIST ALIGNMENT Construction Phase Update April 29, 2024



AECOM

OMA

MAGNUSSON  
KLEMENCIC  
ASSOCIATES

MATRIX **NEW**WORLD



REMORA CONSULTING  
LLC.

# THE RBDH PROJECT TEAM



**Presenter**

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



**Presenter**

**FRANK SCHWARZ, DEP**  
Project Team Manager, Rebuild  
by Design Hudson River

**Construction  
Management  
Firm (CMF)**

**Berger-Hill JV**



**CHRISTOPHER CORLISS, PE, ENV SP**  
CMF Program Manager

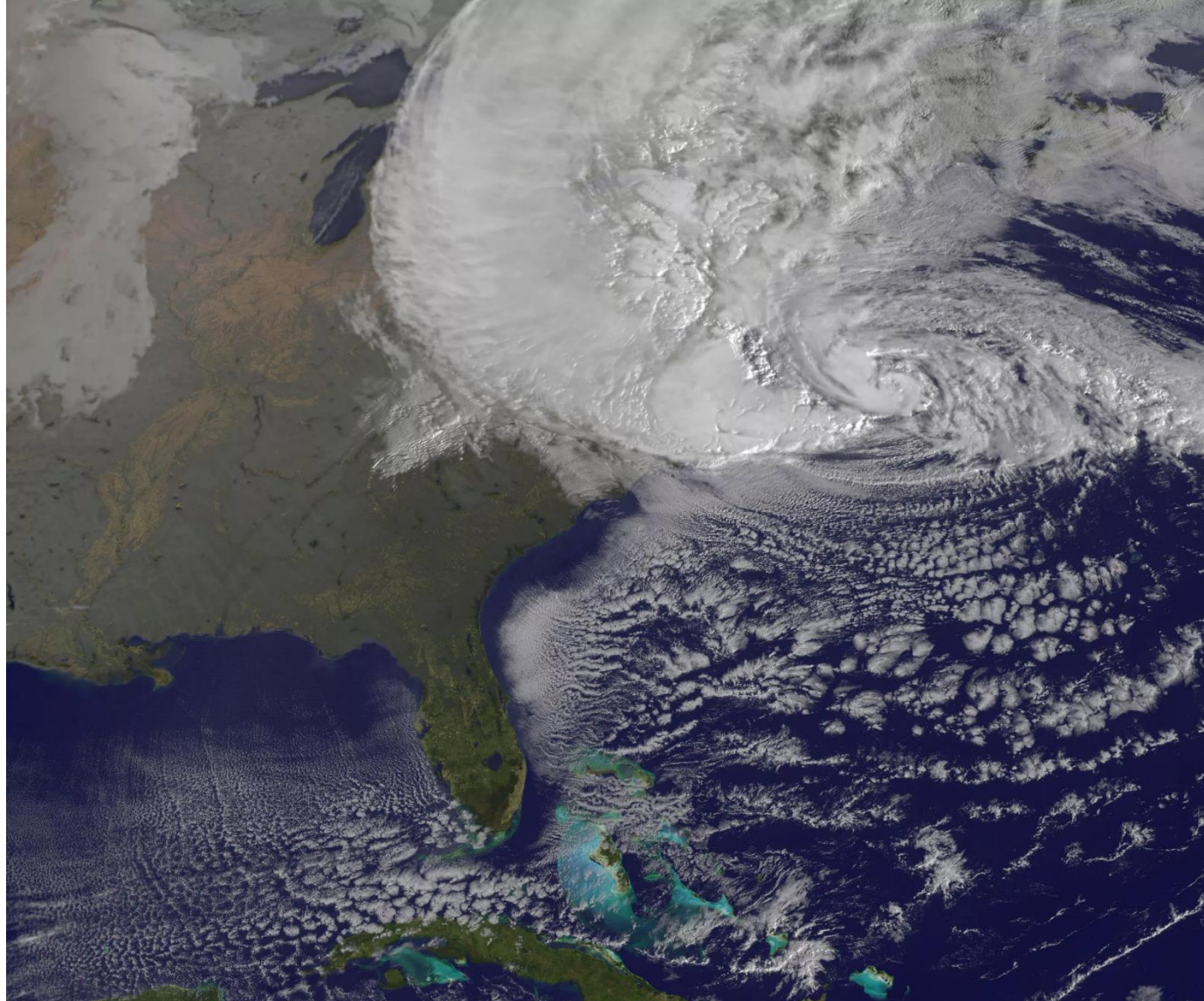


**ISABELLA BRASCETTA,**  
Community Construction  
Liaison

**EE CRUZ & COMPANY**  
Resist Construction Contractors

**AECOM**  
Architect/Engineer

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





# 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**

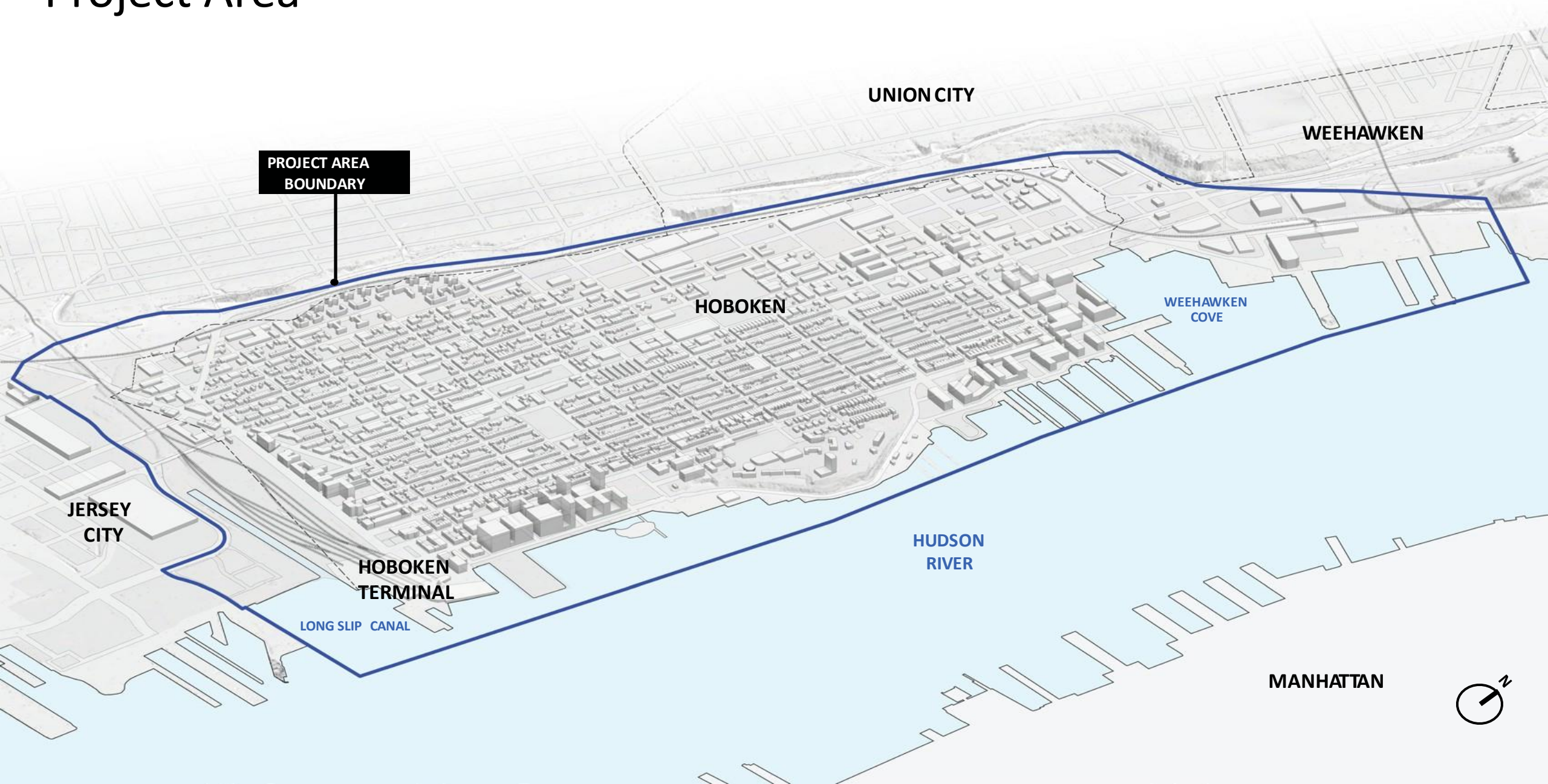
Hard infrastructure and soft landscapes for coastal defense.

**\$230M**

Funding by U.S. Department of Housing & Urban Development

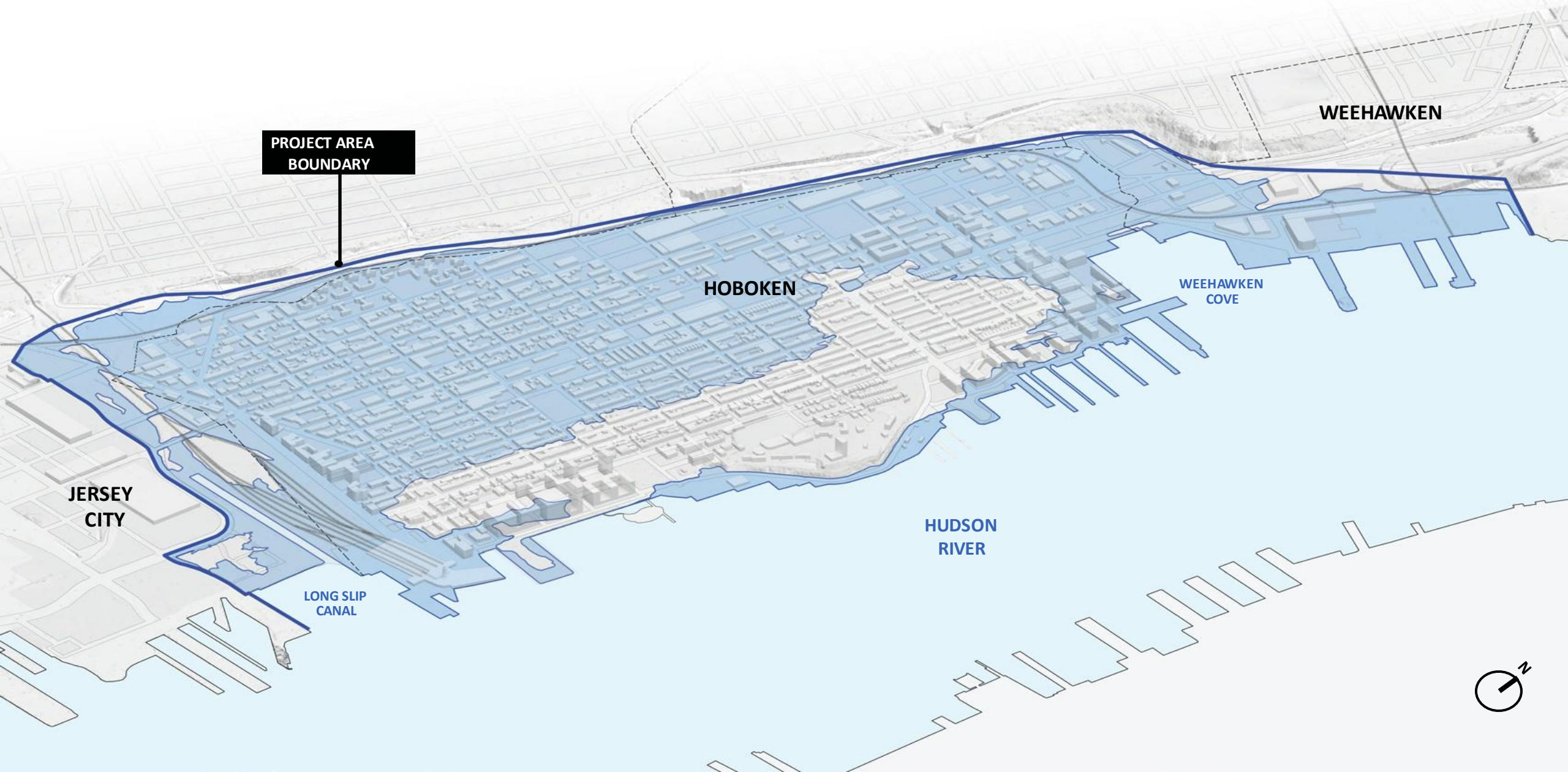


# Project Area



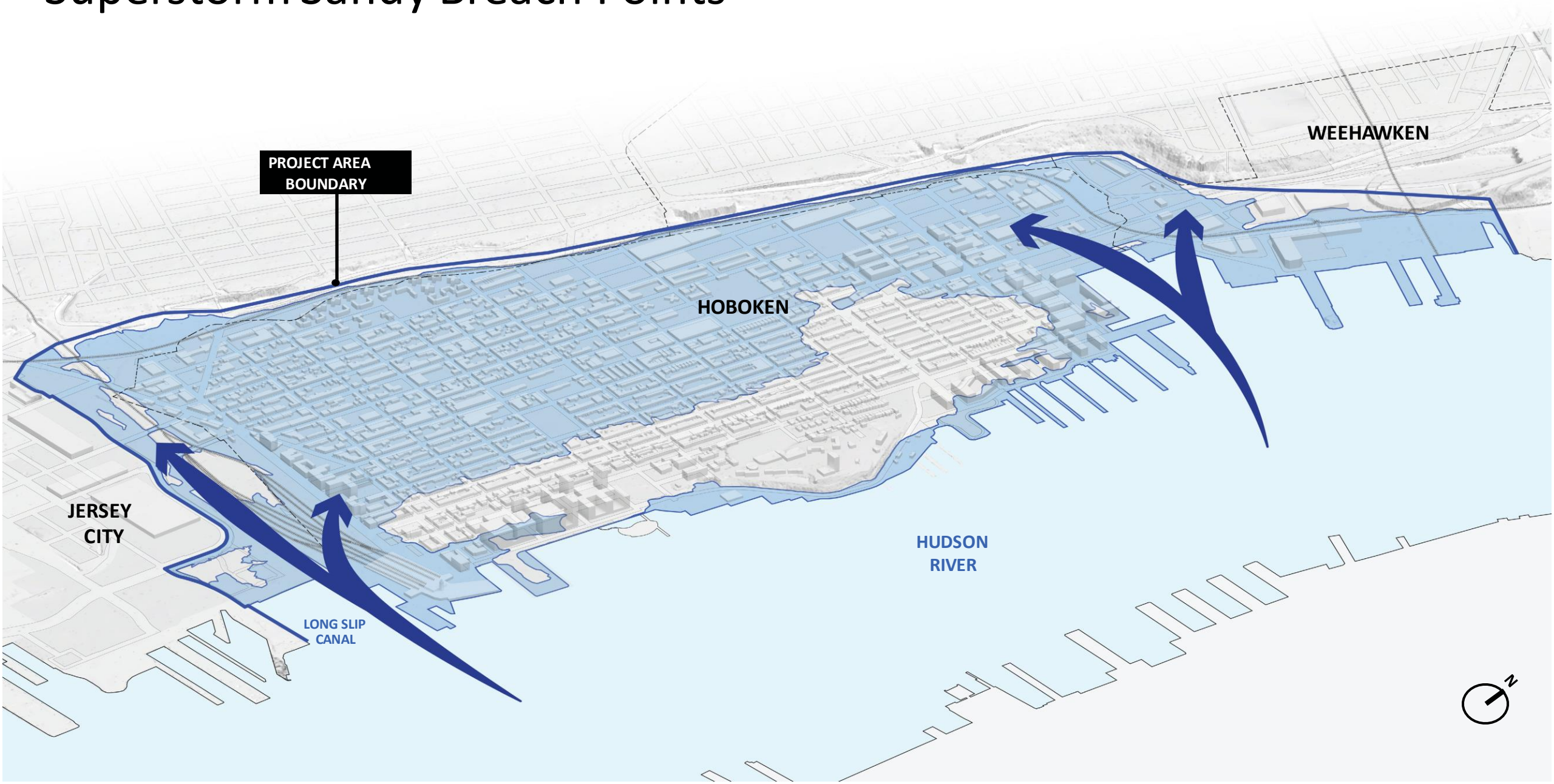


# 100-Year Floodplain



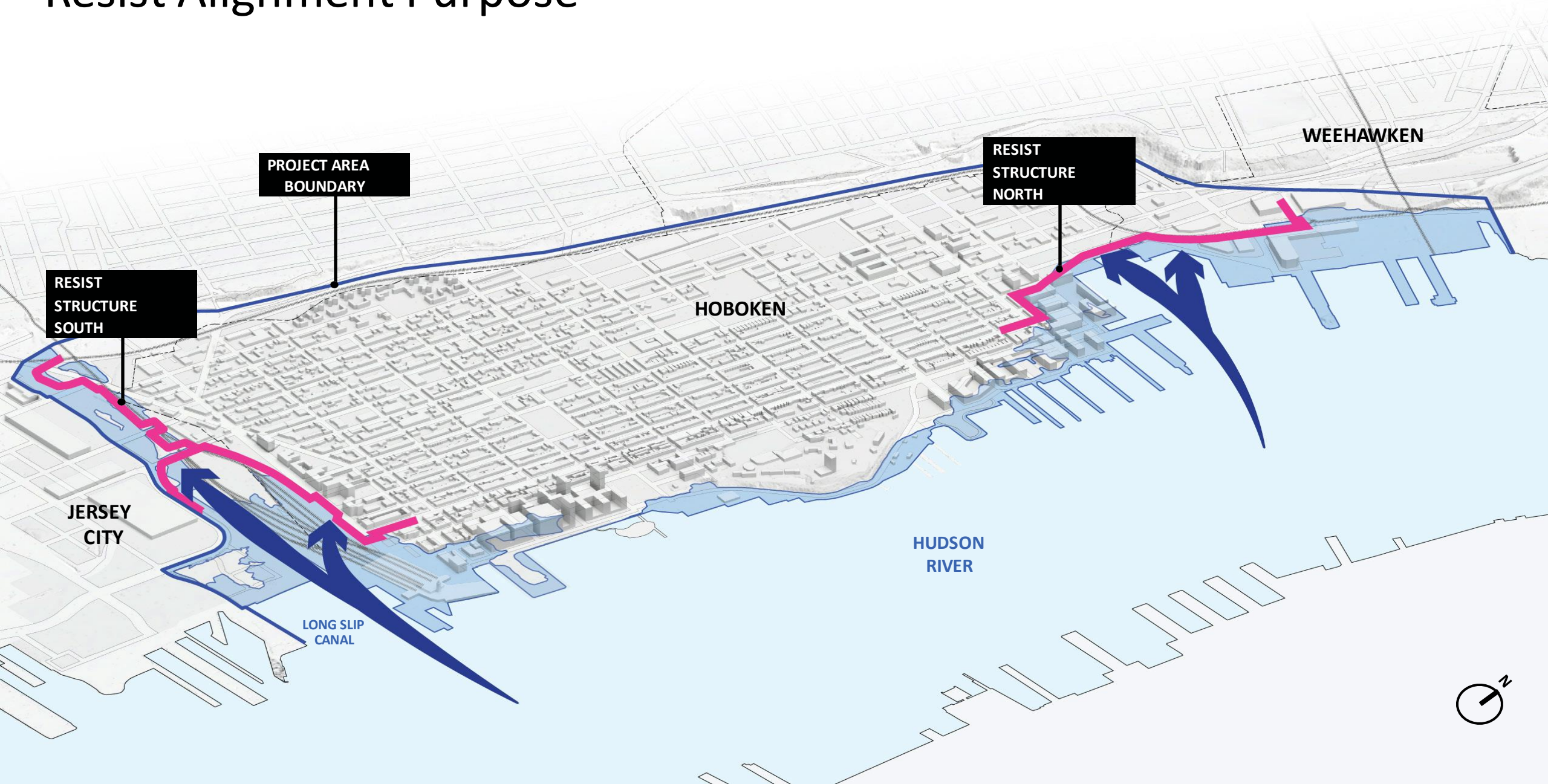


# Superstorm Sandy Breach Points





# Resist Alignment Purpose





# Topography



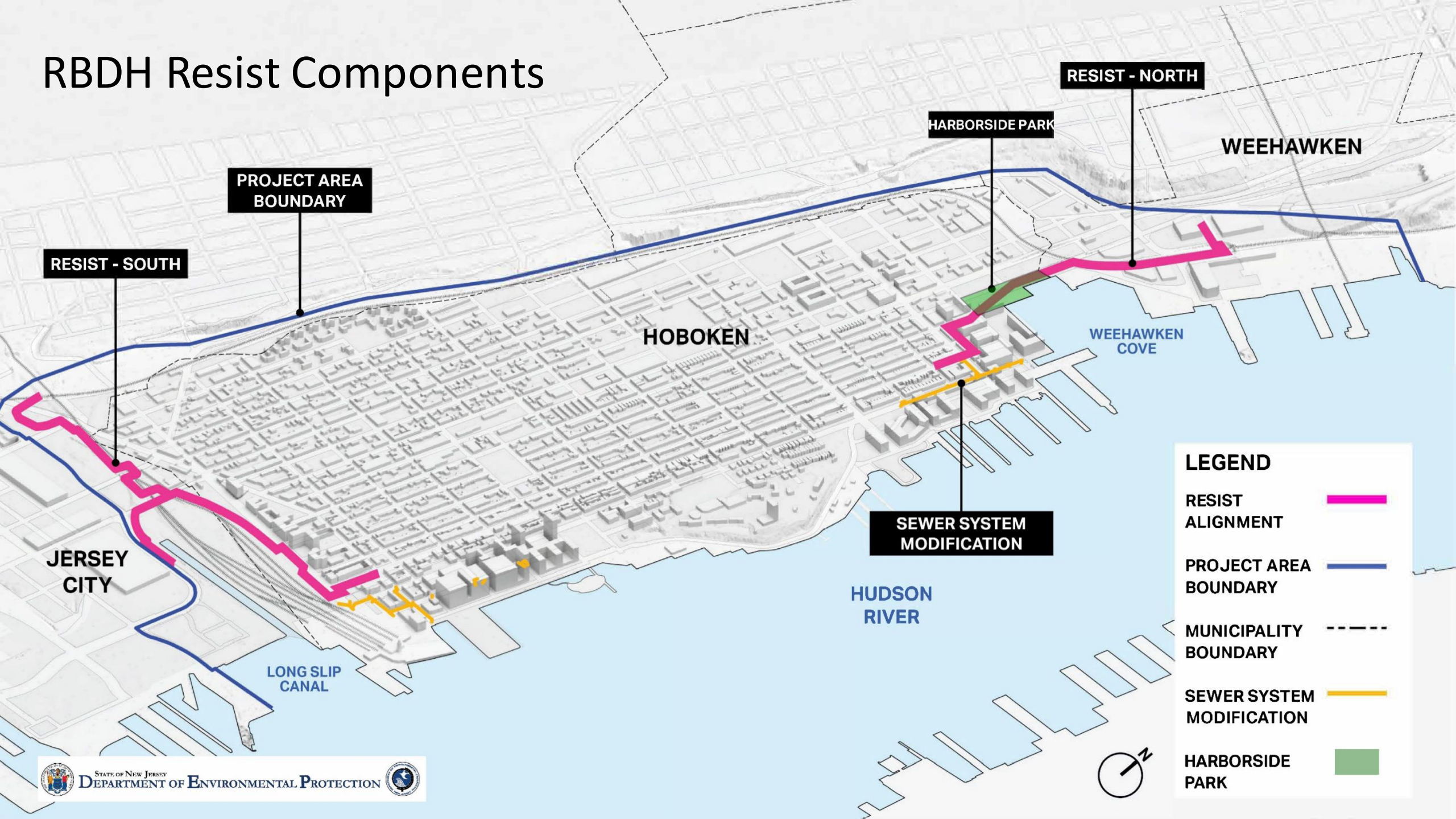


# RBDH Line of Protection





# RBDH Resist Components







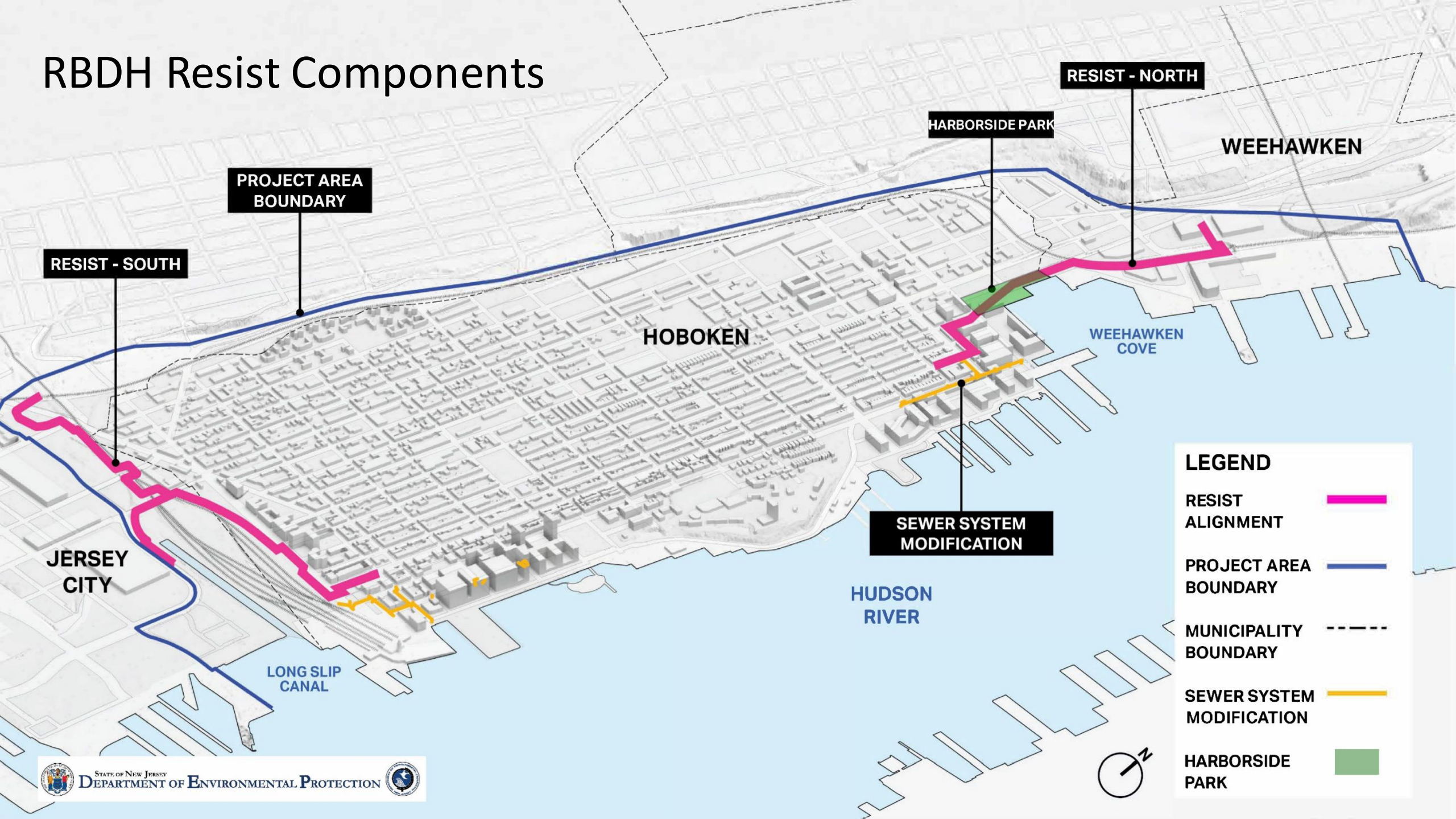
# SSM Construction Complete

- **SCOPE OF CONSTRUCTION**
  - Over 100 existing manholes sealed
  - Approx. 40 catch basins installed
  - Over 30 manholes installed
  - Over 4,000LF of pipe installed
  - 8 stormwater treatment units installed

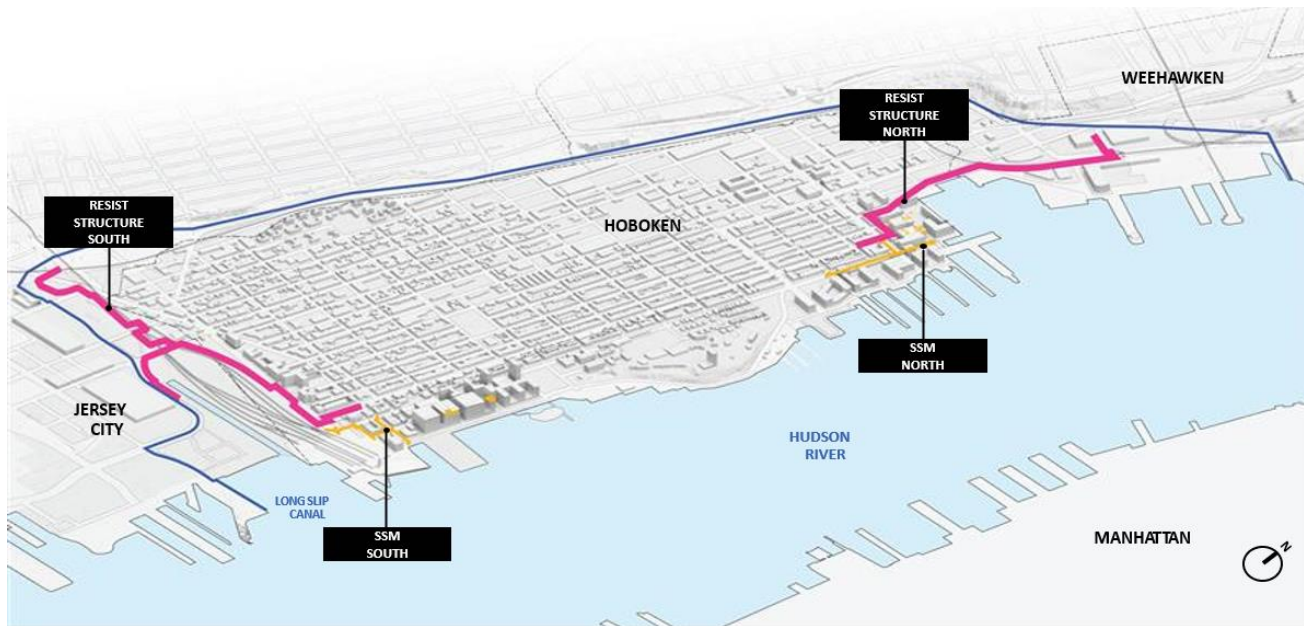




# RBDH Resist Components



# Rebuild by Design – Resist Alignment Refresher



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

**WHERE:** **Northern Hoboken/Southern Weehawken** – from 13<sup>th</sup> 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 through Summer 2027



# What to Expect During Resist Construction

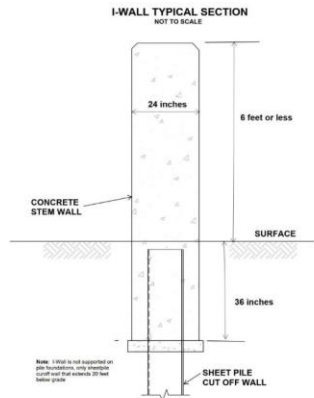
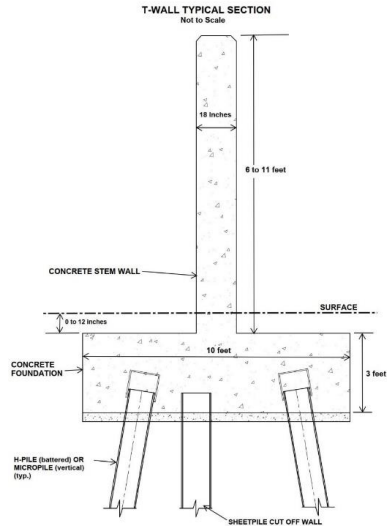
## General scope of construction:

- Approximately 9,970 linear feet of concrete flood wall
- 27 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



# Structure & Gate Types

## Structure Types



## Rolling Gates



## Swing Gates

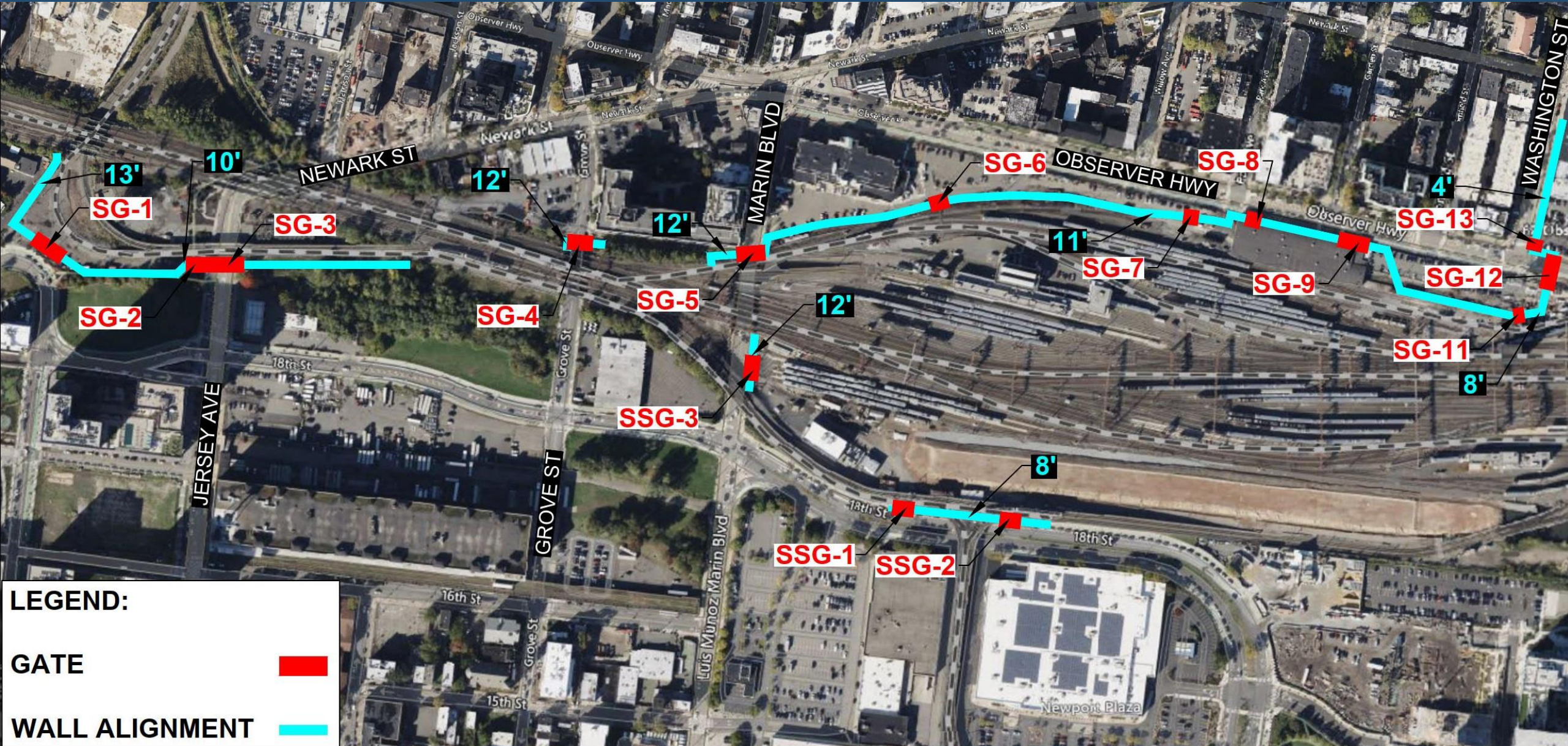


## Stop Logs





# Resist Alignment - South



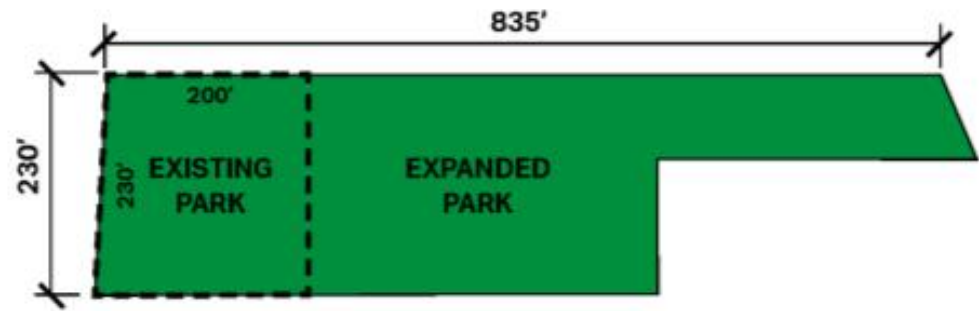


# Resist Alignment - North





# Harborside Park

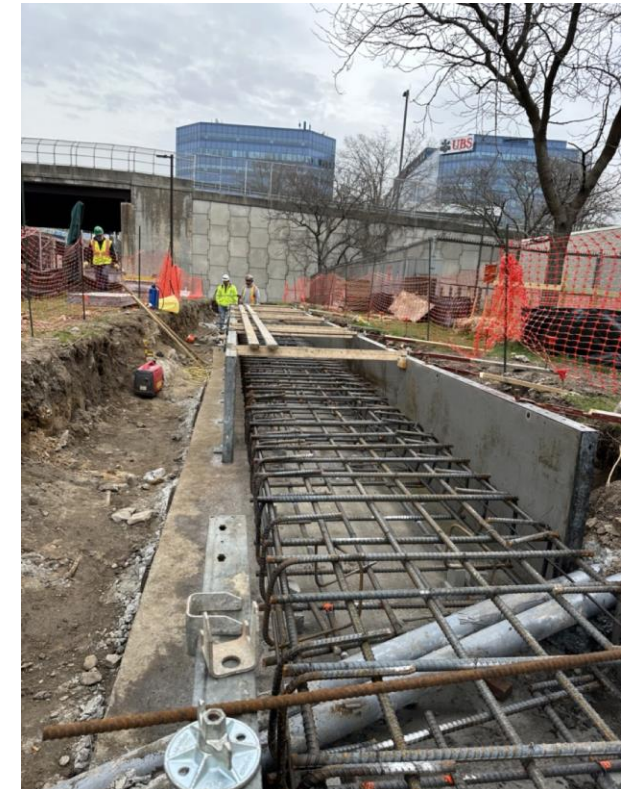
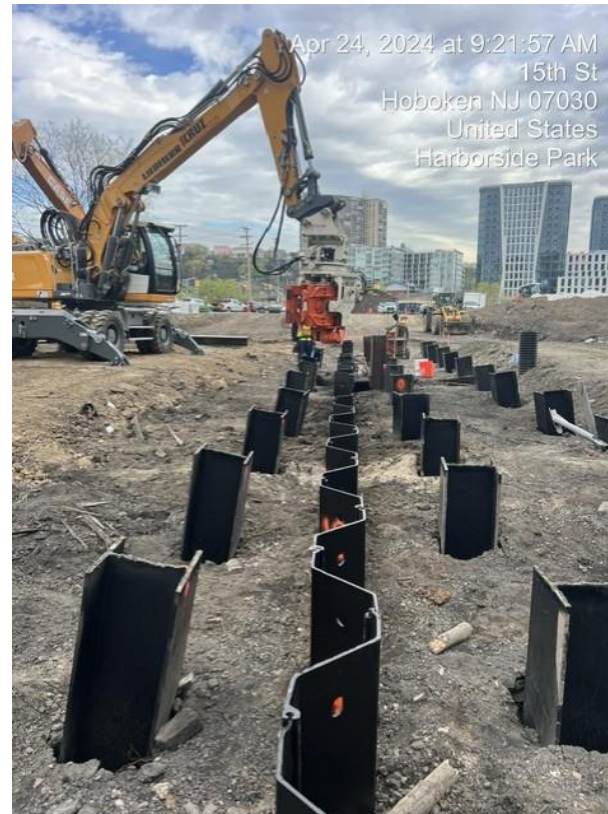


# General Sequence of Construction

Test pitting /Utility location /  
relocation & protection

Install piles & sheeting.

Install foundation and backfill.





# General Sequence of Construction (cont.)

Install stem wall



Install gate structures



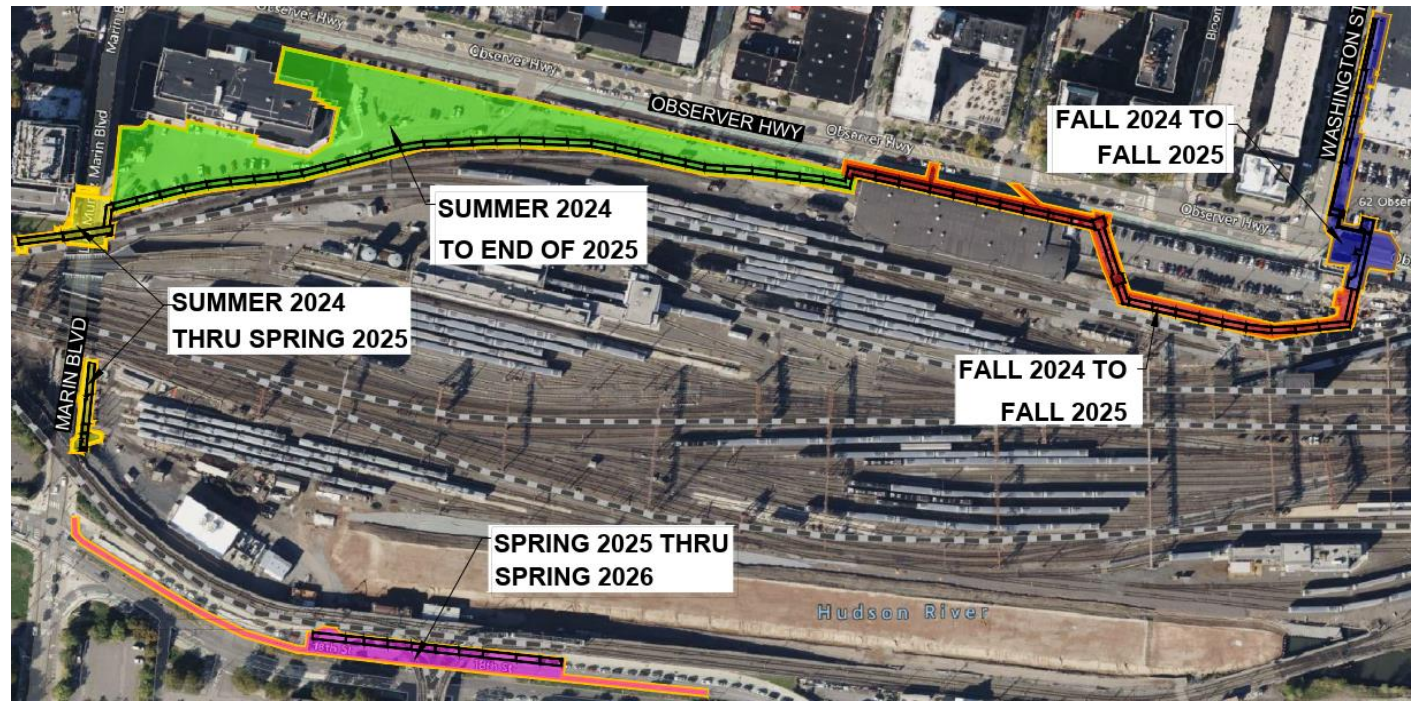
Install Urban Amenities and site restoration





# South Alignment – Current Timeline

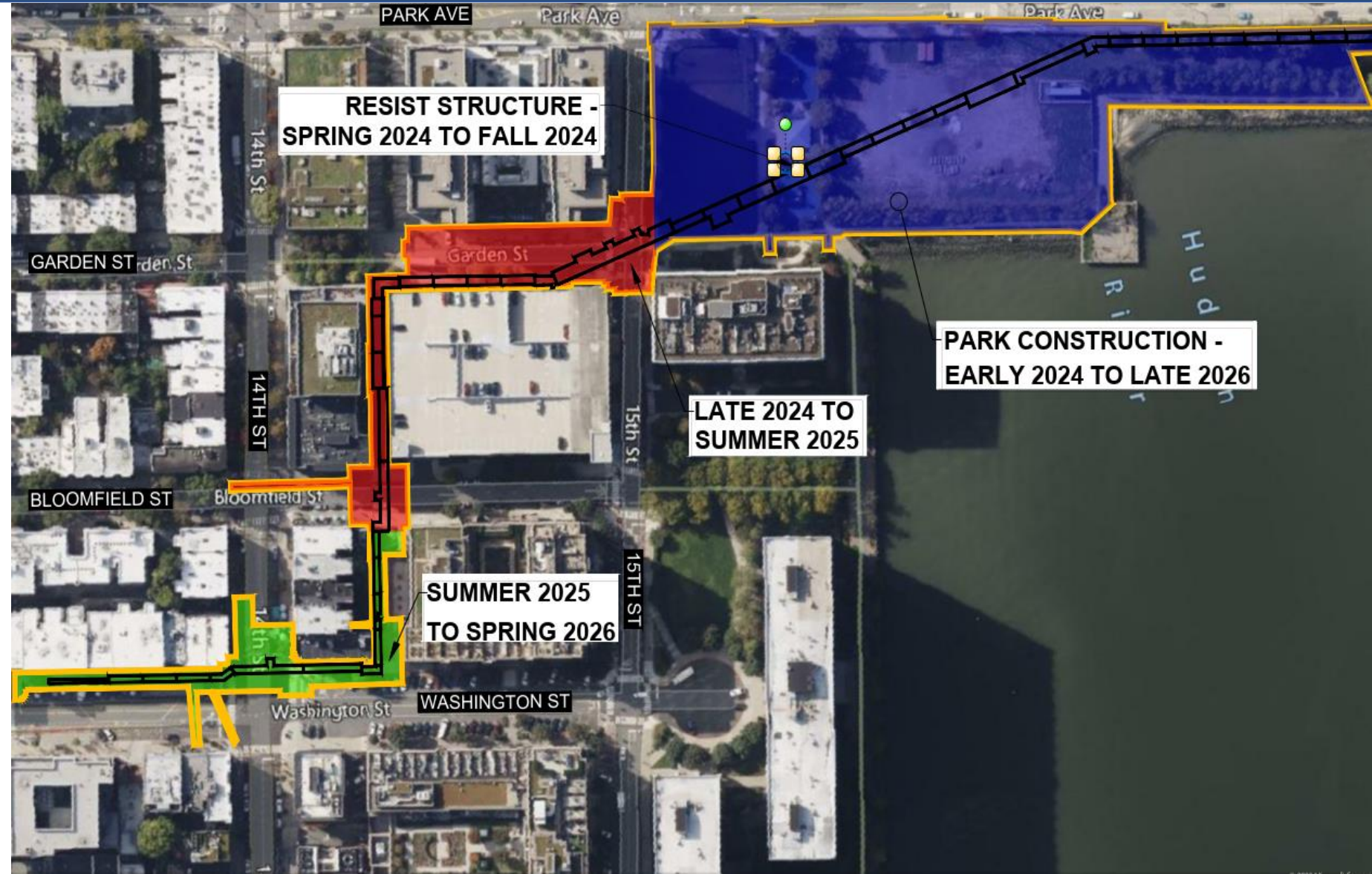
- Overall project completion remains to be Summer 2027
- Construction timelines are general
- Periodic work will occur outside the timeframes listed until final completion in Summer 2027.
- Overall project cleanup, punch list completion, final inspections, demobilization, and issuance of final project approvals to occur between Fall 2026 and Summer 2027.





# North Alignment – Current Timeline

- Overall project completion remains to be Summer 2027
- Construction timelines are general
- Periodic work will occur outside the timeframes listed until final completion in Summer 2027.
- Overall project cleanup, punch list completion, final inspections, demobilization, and issuance of final project approvals to occur between Fall 2026 and Summer 2027.






# Work underway in Weehawken

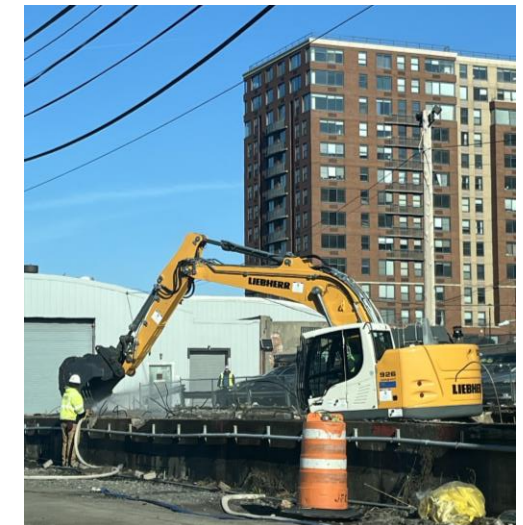
- Foundation excavation underway
- Rebar installation underway
- Concrete foundation installation underway





# Work Underway in the South

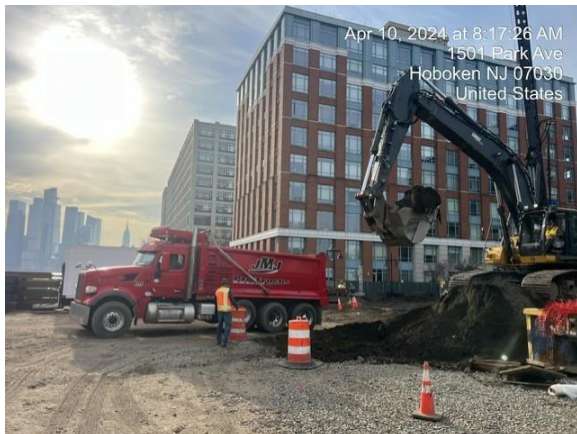
- Demolition work performed in New Jersey Transit yard
- Jersey Ave Area (see location) 
  - Site cleared
  - Pile installation being mobilized
  - Offsite soil disposal occurring
- Mobilizing for Wall Mockup construction 2<sup>nd</sup> & Marshall St. (near HBLR station)





# Work underway in Harborside Park

- Harborside Park site cleared
- Establishing Temporary Park underway
- Pile installation underway
- Sheetpile installation underway
- Offsite soil disposal
- Wall Mockup underway





# Quality of Life-Noise, Dust & Vibration Monitoring

- Work will be performed within the permissible noise and vibration levels and will be consistently monitored.
- Vibration monitors are in place and continually monitoring seven days per week.
- Air quality monitored during construction activities.
- 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 are determined 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 Efforts

## 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](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](mailto:rbdhinquiries@portal3.pbid.com)**

**Hoboken Contact:** Caleb Stratton, Chief Resilience Officer, [CStratton@hoboken.nj.gov](mailto:CStratton@hoboken.nj.gov)

NJDEP website

QR Code



Advisories

QR Code





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

**Questions?**