

Community Flood Experience

Where do you...



Live



Work



Experience Flooding Issues



Lower Manhattan Coastal Resiliency Projects

In response to the broad range of climate hazards including sea level rise, increased storm surge and extreme precipitation, New York City has developed an overall climate resiliency strategy that includes an interconnected chain of capital projects and additional planning measures together known as Lower Manhattan Coastal Resiliency.



Seaport Coastal Resilience & FiDi and Seaport Climate Resilience Master Plan

Seaport Coastal Resilience (SPCR) is a separate project from the FiDi and Seaport Climate Resilience Master Plan.

SPCR has a narrow focus on the Seaport neighborhood between John Street and the Brooklyn Bridge. It will be designed to safeguard from immediate and future risks from tidal flooding and sea level rise projected for the year 2100.

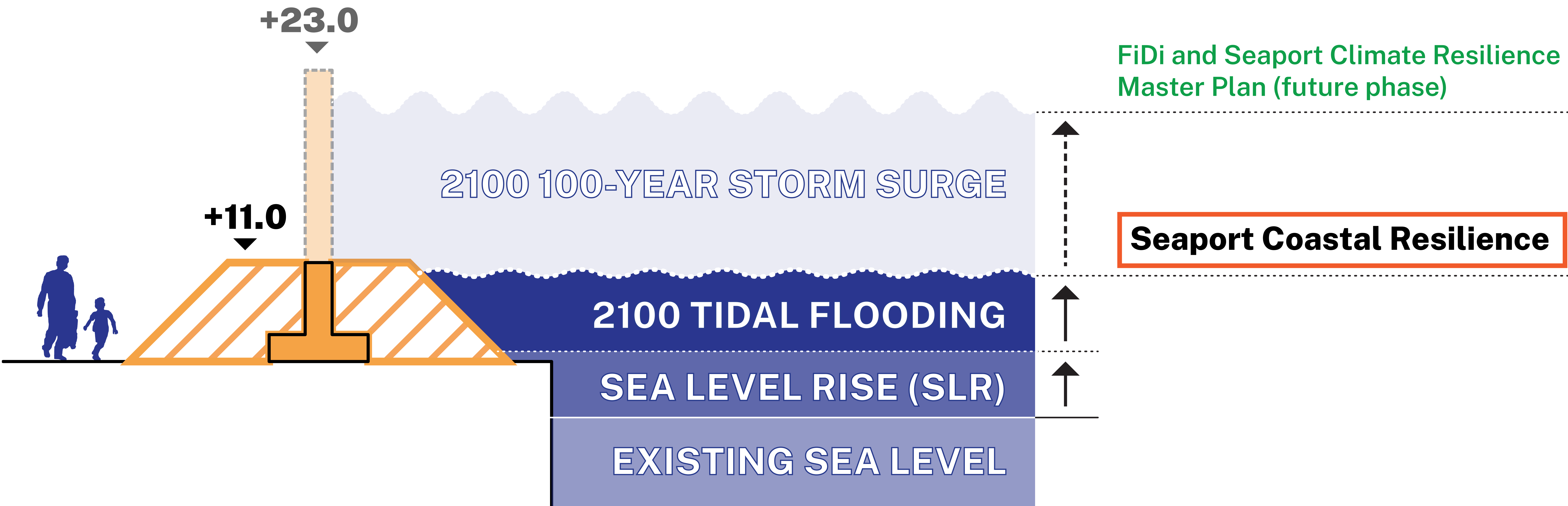
The FiDi and Seaport Climate Resilience Master Plan spans almost a mile from The Battery to the Brooklyn Bridge. It is a long-term project that will include mitigation efforts to protect the neighborhood from a 100-year storm surge in 2040.

SPCR will be designed in coordination with the FiDi and Seaport Climate Resilience Master Plan to ensure that they are complementary and do not preclude future climate protection or neighborhood enhancement opportunities.



	Seaport Coastal Resilience	FiDi and Seaport Climate Resilience Master Plan
Location	Seaport Neighborhood BMCR connection	The Battery to Brooklyn Bridge
Status	Began in 2024	Plan development
Anticipated Completion	2028	2040
Funding	Fully funded by \$228.8M grants from multiple sources	No funding

Climate Resilience Intentions



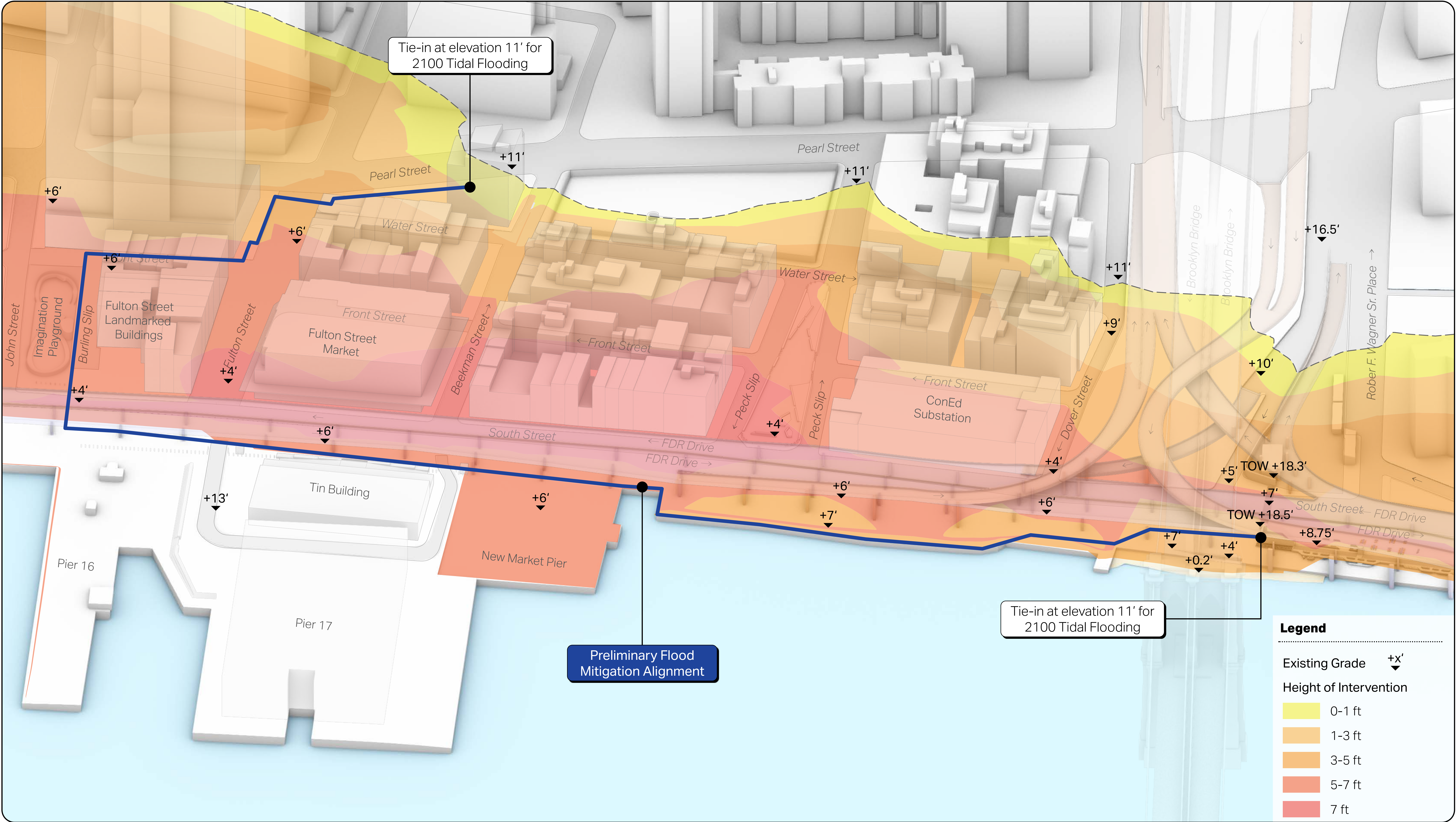
Seaport Coastal Resilience

- Raise waterfront to 11 feet above sea level
- Prevent flooding from tides and sea level rise in the year 2100

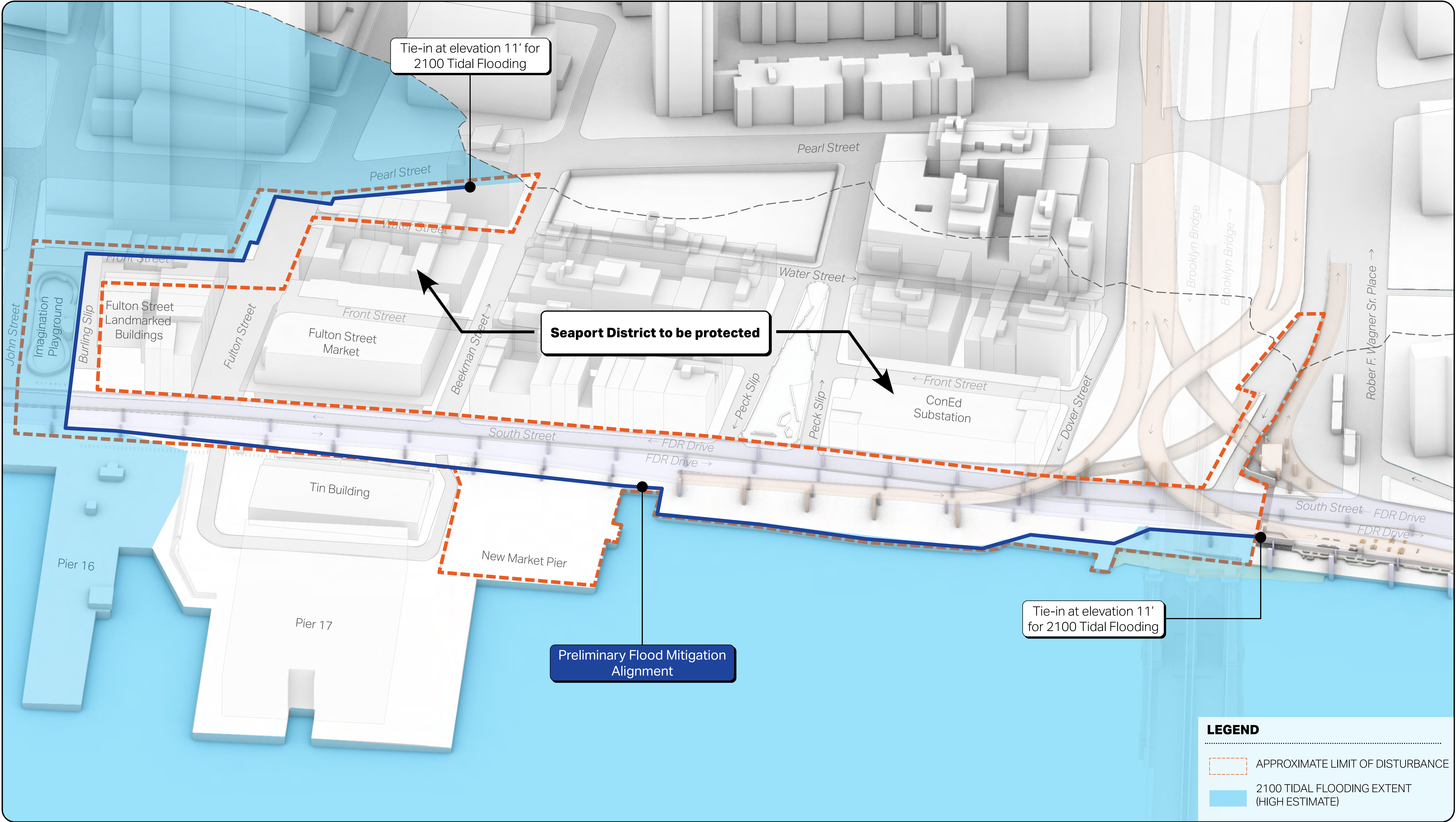
FiDi and Seaport Climate Resilience Master Plan (future phase)

- Extend the shoreline to accommodate multi-level waterfront
- Extend protection against 100-Year Storm Surge in the year 2100

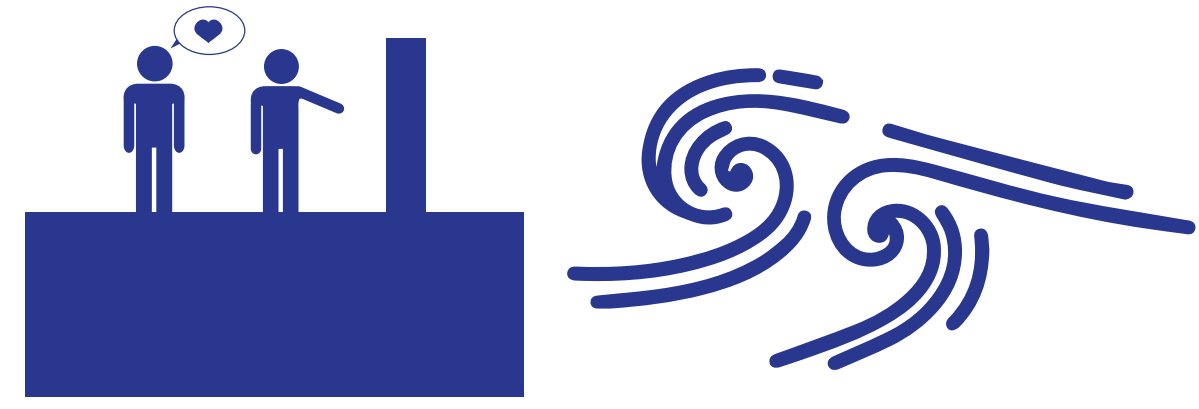
Height of Intervention for Floodwall Infrastructure



SPCR Areas of Protection & Disturbance



Seaport Coastal Resilience Design Considerations



Coastal Resilience

- ➔ Waterfront & adjacent esplanade fortified
- ➔ Historic district protected
- ➔ Resident & infrastructure-focused



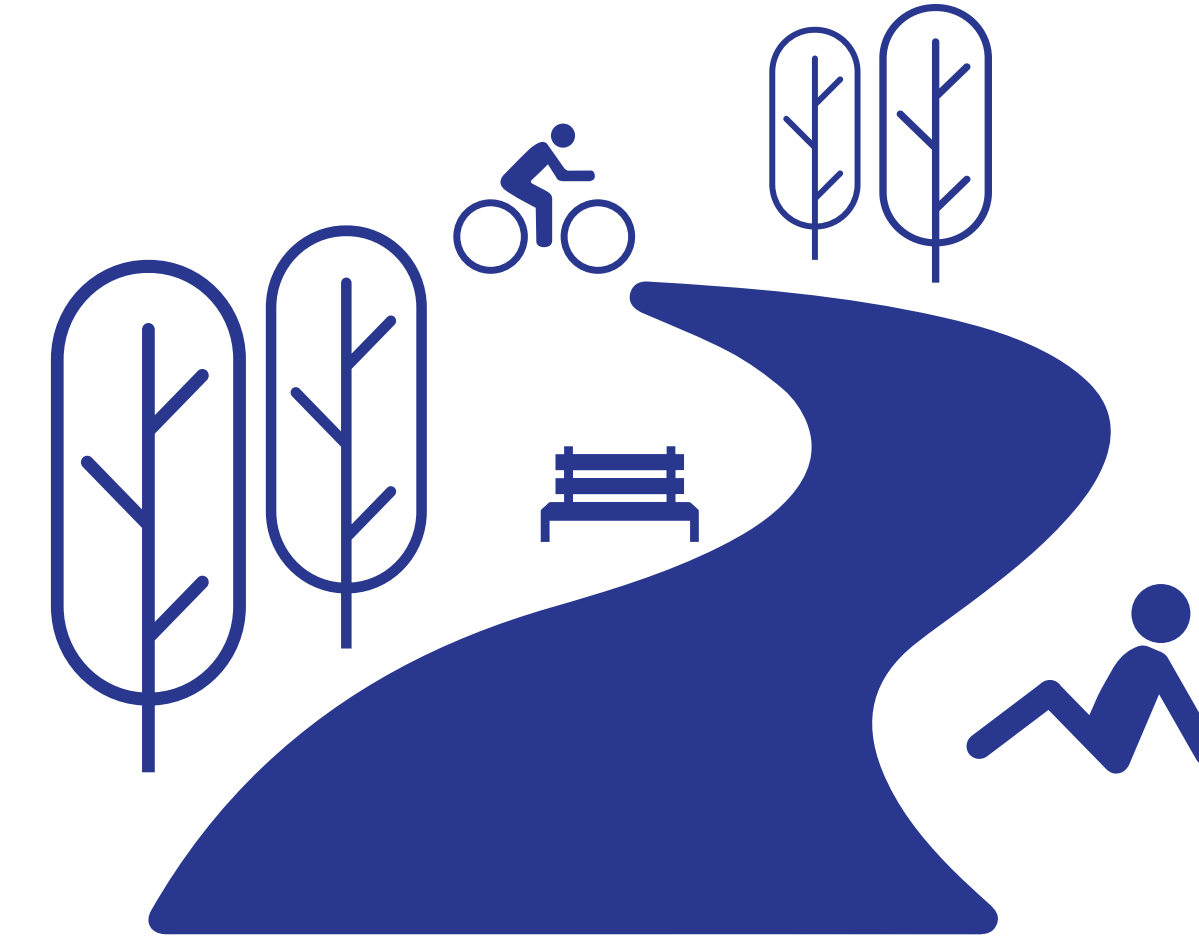
Schedule

- ➔ Environmental impacts
- ➔ Regulatory actions
- ➔ Jurisdictional coordination



Sustainability

- ➔ Carbon footprint reduction
- ➔ Improvements to ecosystem health
- ➔ Reduction of impermeable surfaces
- ➔ Habitat creation & green infrastructure



Public Realm

- ➔ Maintaining and enhancing a connection to the waterfront
- ➔ Accessibility and universal design
- ➔ Opportunity for community amenities
- ➔ Placemaking & urban design
- ➔ Public art



Constructability

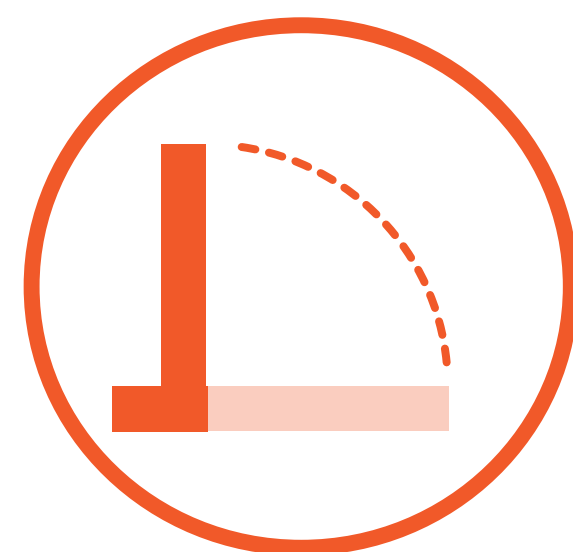
- ➔ Cost
- ➔ Impacts on utilities
- ➔ Coordination with existing structures & projects
- ➔ Effectiveness
- ➔ Engineering constraints

SPCR's Core Design Objectives



PROTECT

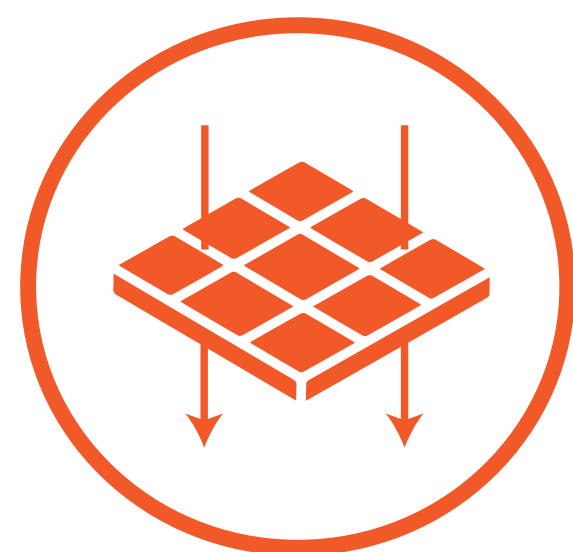
Provide **flood mitigation** along the Seaport waterfront and historic district.



Deployables at entrances



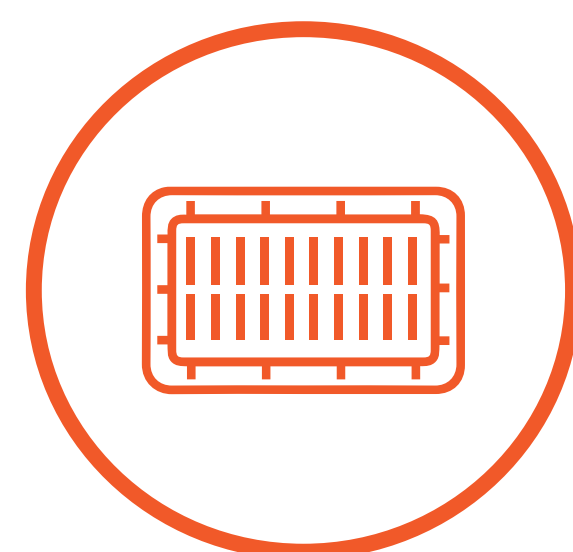
Passive Floodwall Infrastructure



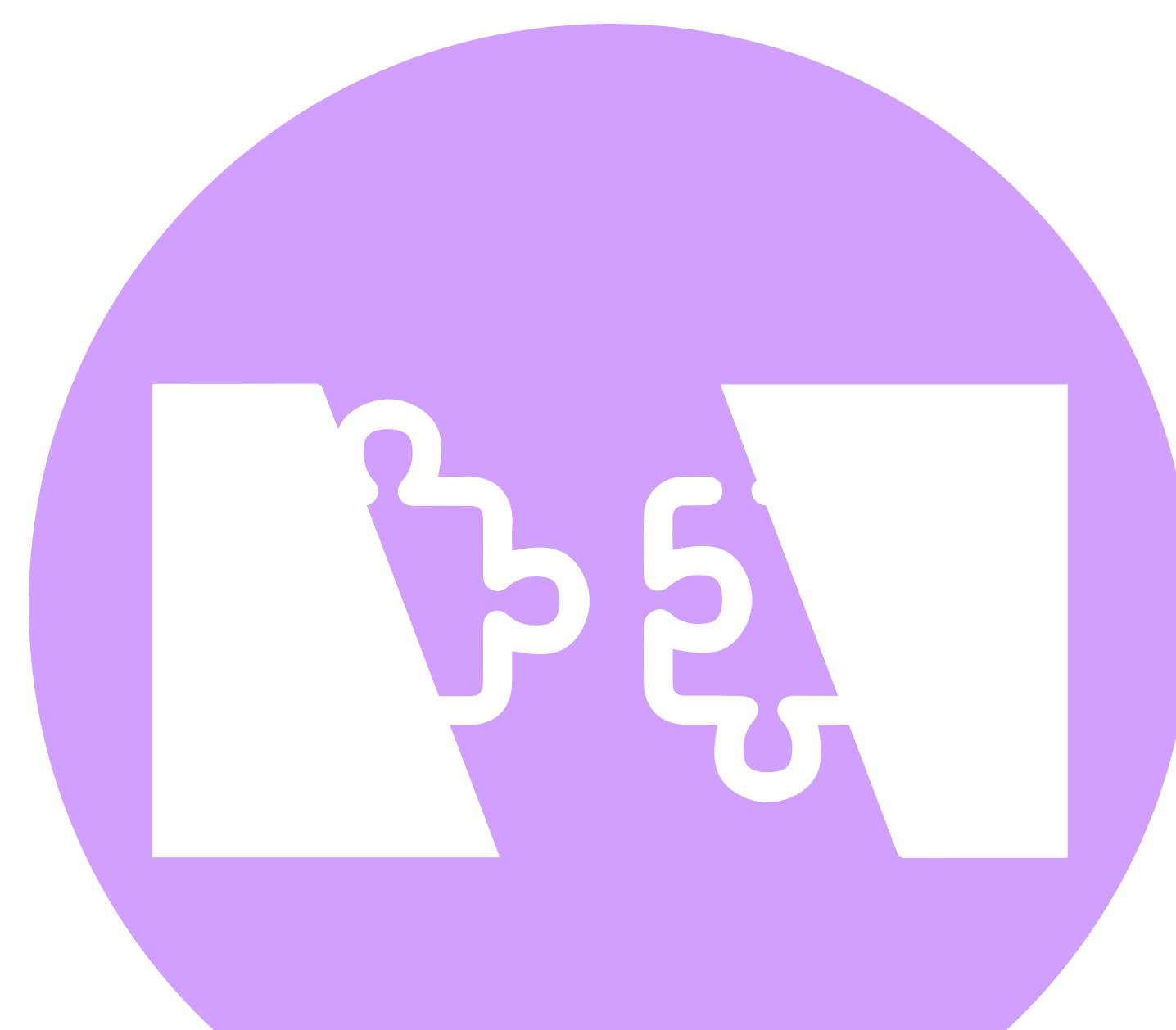
Permeable streetscape



Design approach to meet requirements of FEMA funding & BRIC Grant

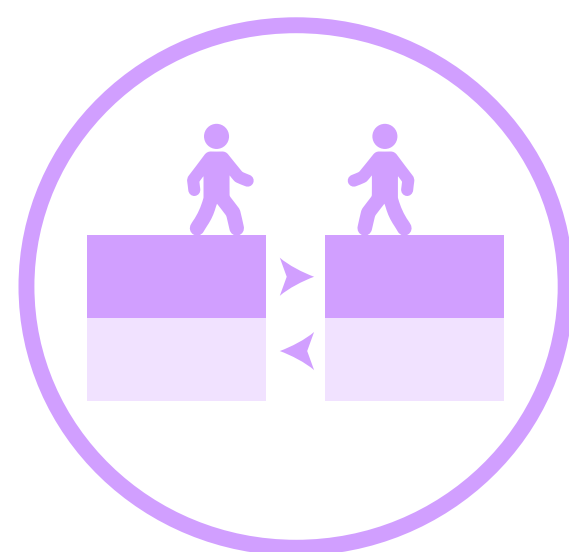


Maintenance of drainage utilities

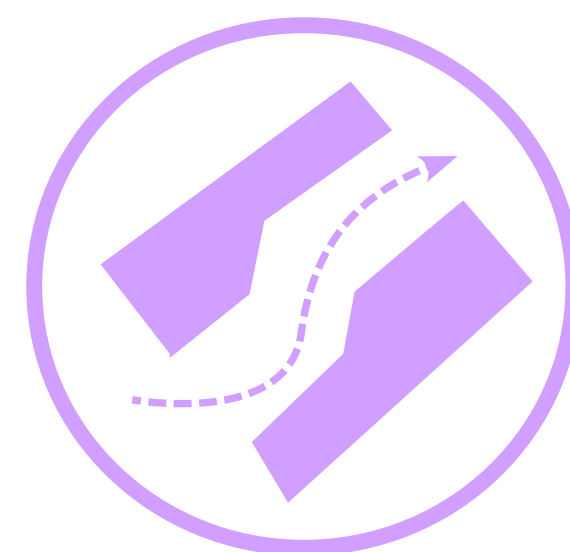


CONNECT

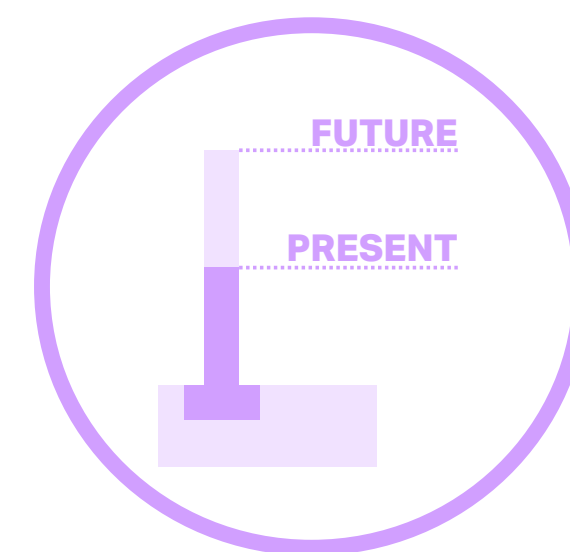
Connect **existing and ongoing** coastal resilience projects.



Linking BMCR flood mitigation & design programs



Provide seamless circulation between adjacent projects

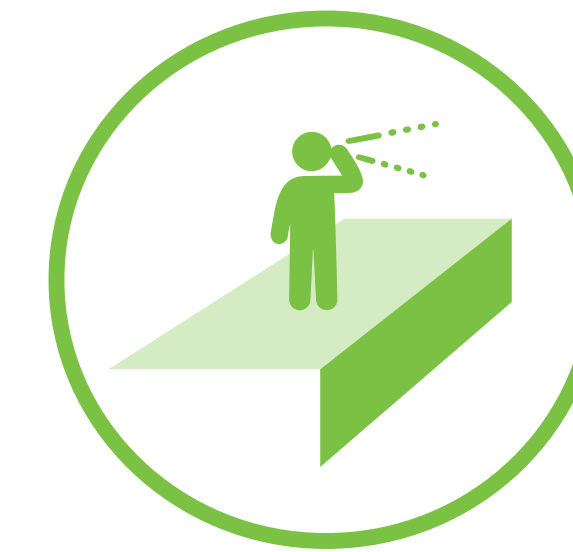


Open to future FiDi masterplan



ENHANCE

Coastal resilience infrastructure with **new forms of placemaking**.



Continuous elevated promenade at waterfront



Integration of bike lanes into cohesive circulation



Provide space for community programs / amenities



Urban infrastructure to complement historic character

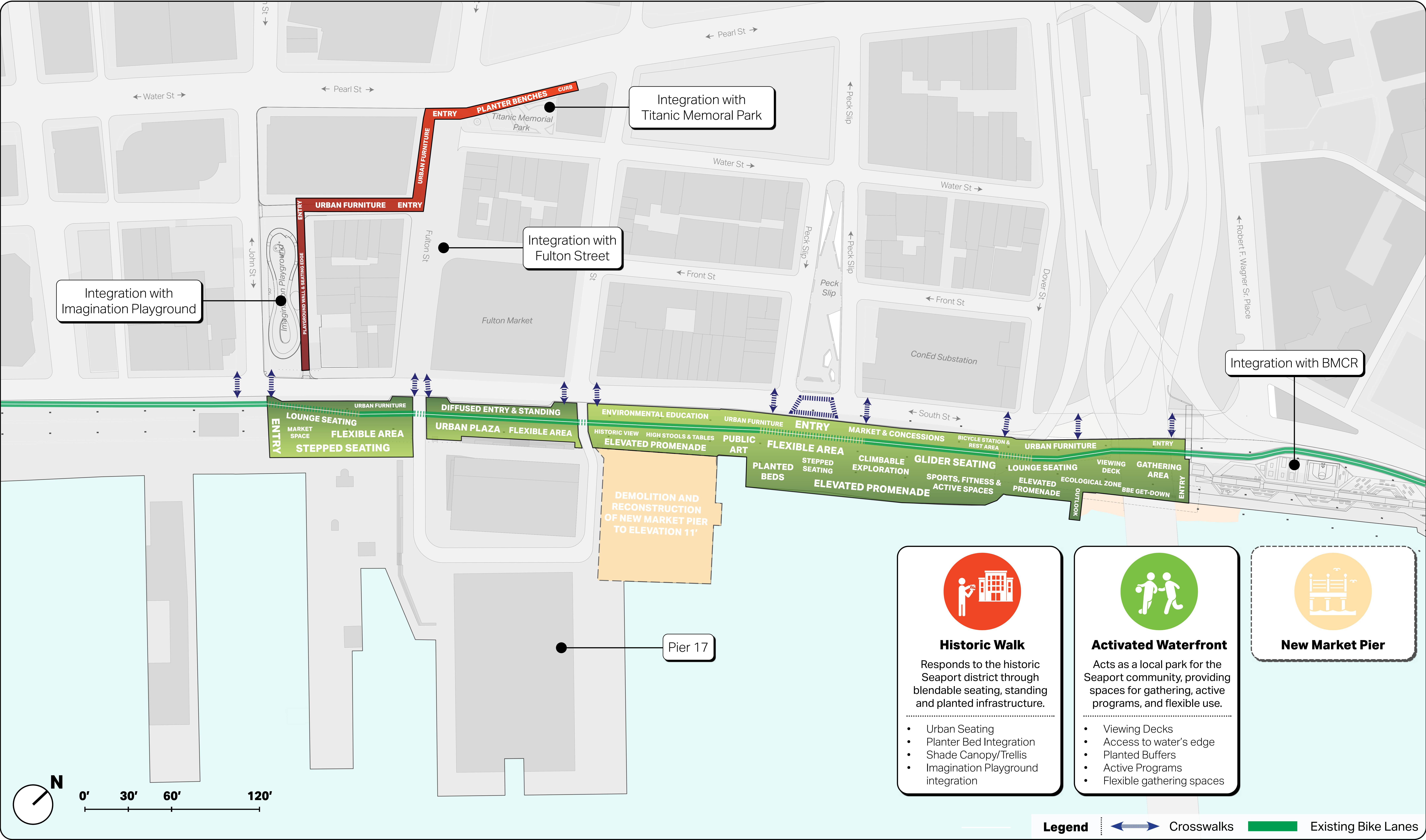


Resilient, native planting

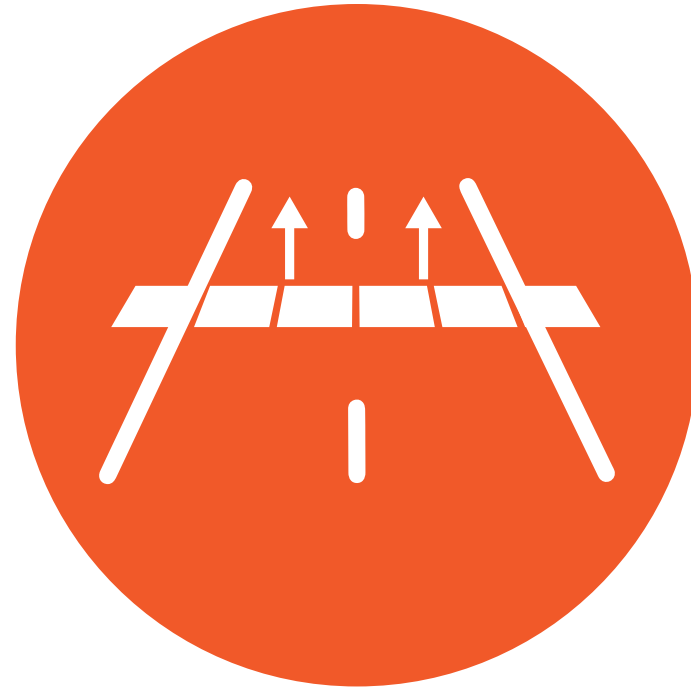


Floodwall integrated into urban fabric

Programmatic Design Zones

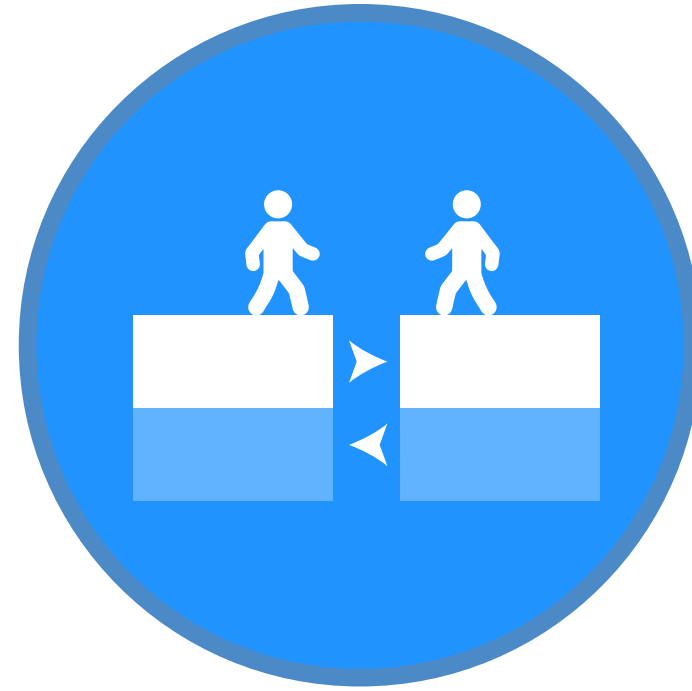


SPCR Engineering & Placemaking Considerations | Brooklyn Bridge Esplanade



Over-Road Flood Mitigation

Crossing the flood mitigation alignment over South Street



A Connected Waterfront

Connecting to adjacent waterfront & resiliency projects for a continuous experience



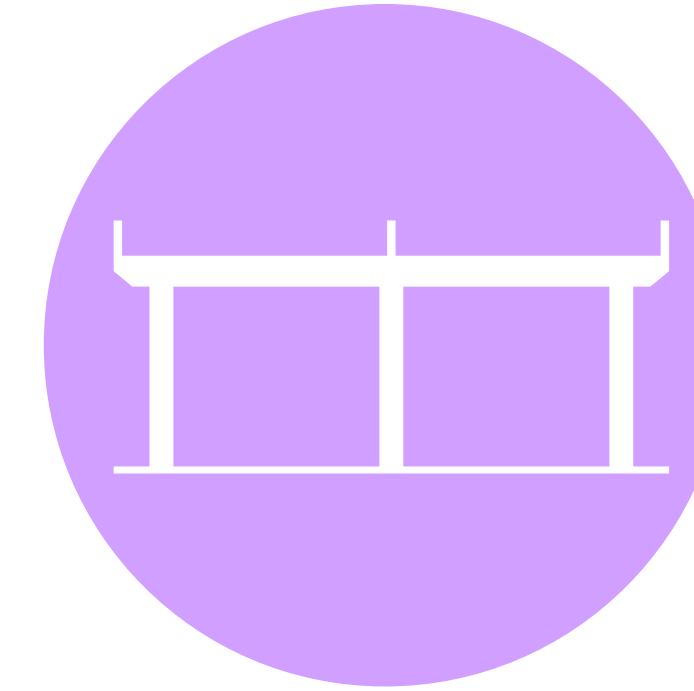
Access & Safety

Providing adequate space for pedestrian and cyclist circulation



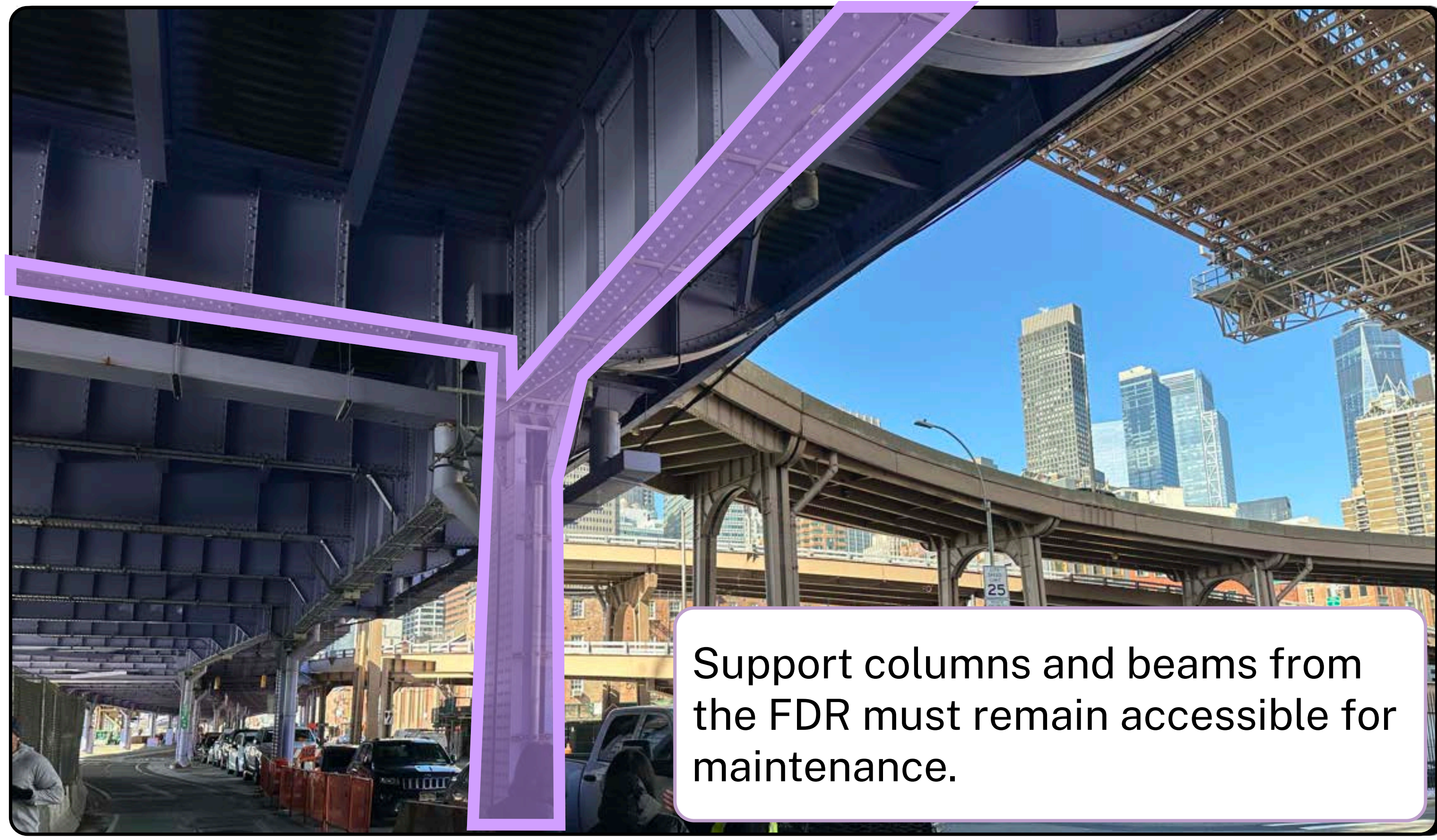
Utilities & Resources

Avoiding modifications to underground utilities & TIN Building driveways



FDR Drive Infrastructure

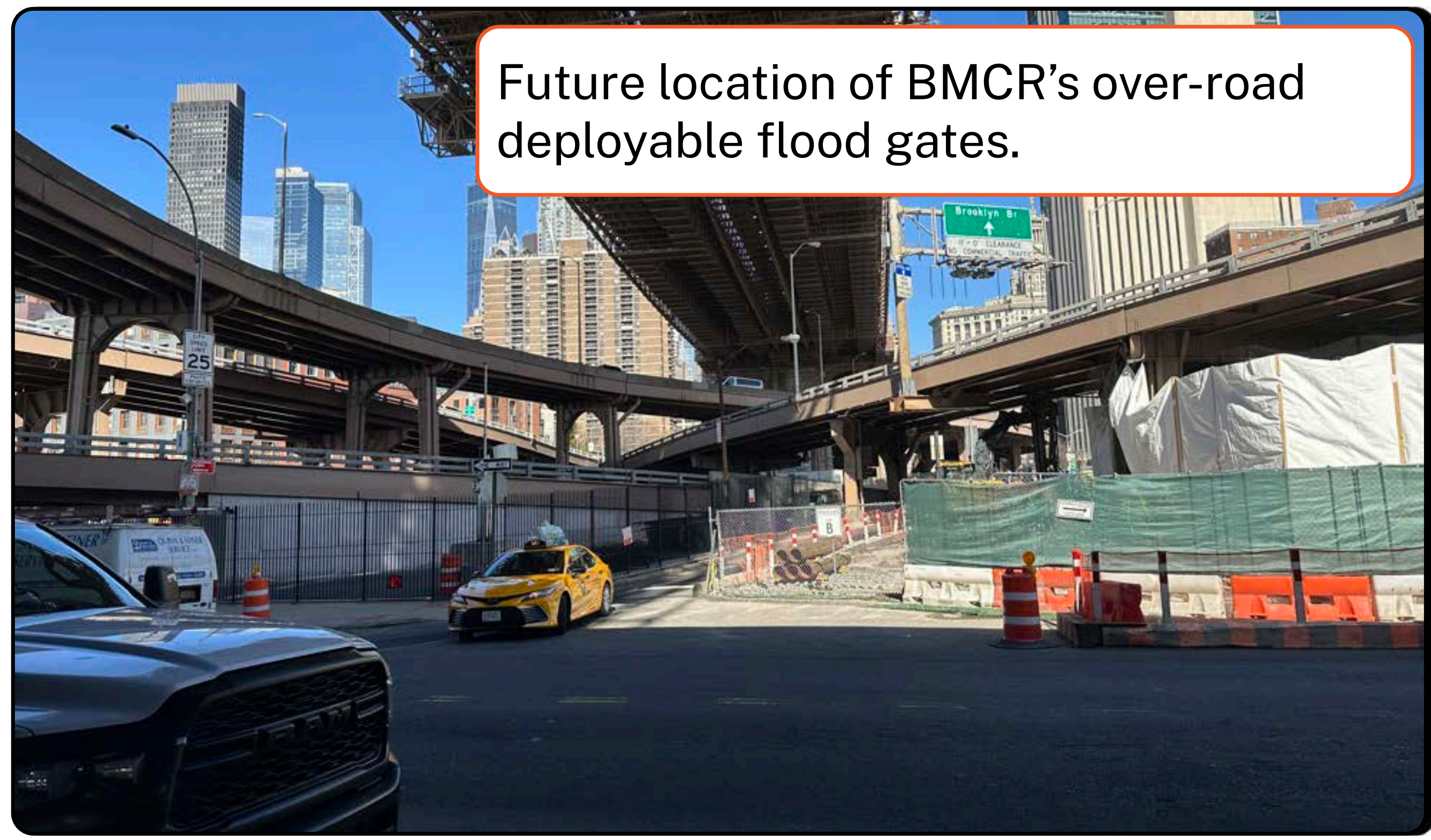
Placemaking in respect to support columns and overhead clearances



Support columns and beams from the FDR must remain accessible for maintenance.



Existing utilities on-site that must be kept dry, including manhole covers and a sewage regulator.



Future location of BMCR's over-road deployable flood gates.

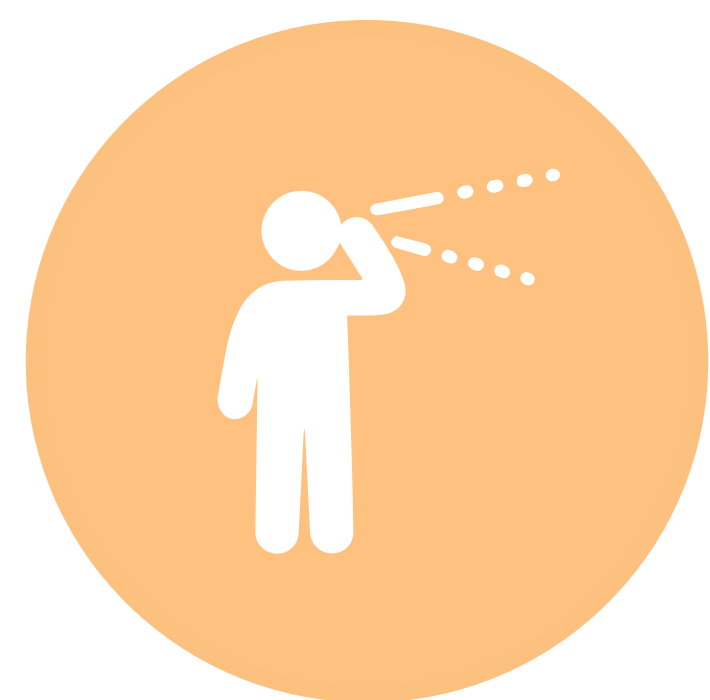


Connection to Brooklyn Bridge Esplanade (BBE) & Brooklyn-Montgomery Coastal Resiliency (BMCR).



Existing conditions feature ample dedicated space for pedestrians and cyclists.

SPCR Engineering & Placemaking Considerations | Peck Slip Waterfront



Waterfront View Preservation

Maintaining existing inland view corridors of waterfront



Historic District Connectivity

Establishing seamless connections between waterfront and historic Seaport district



Access & Safety

Providing adequate space for pedestrian and cyclist circulation



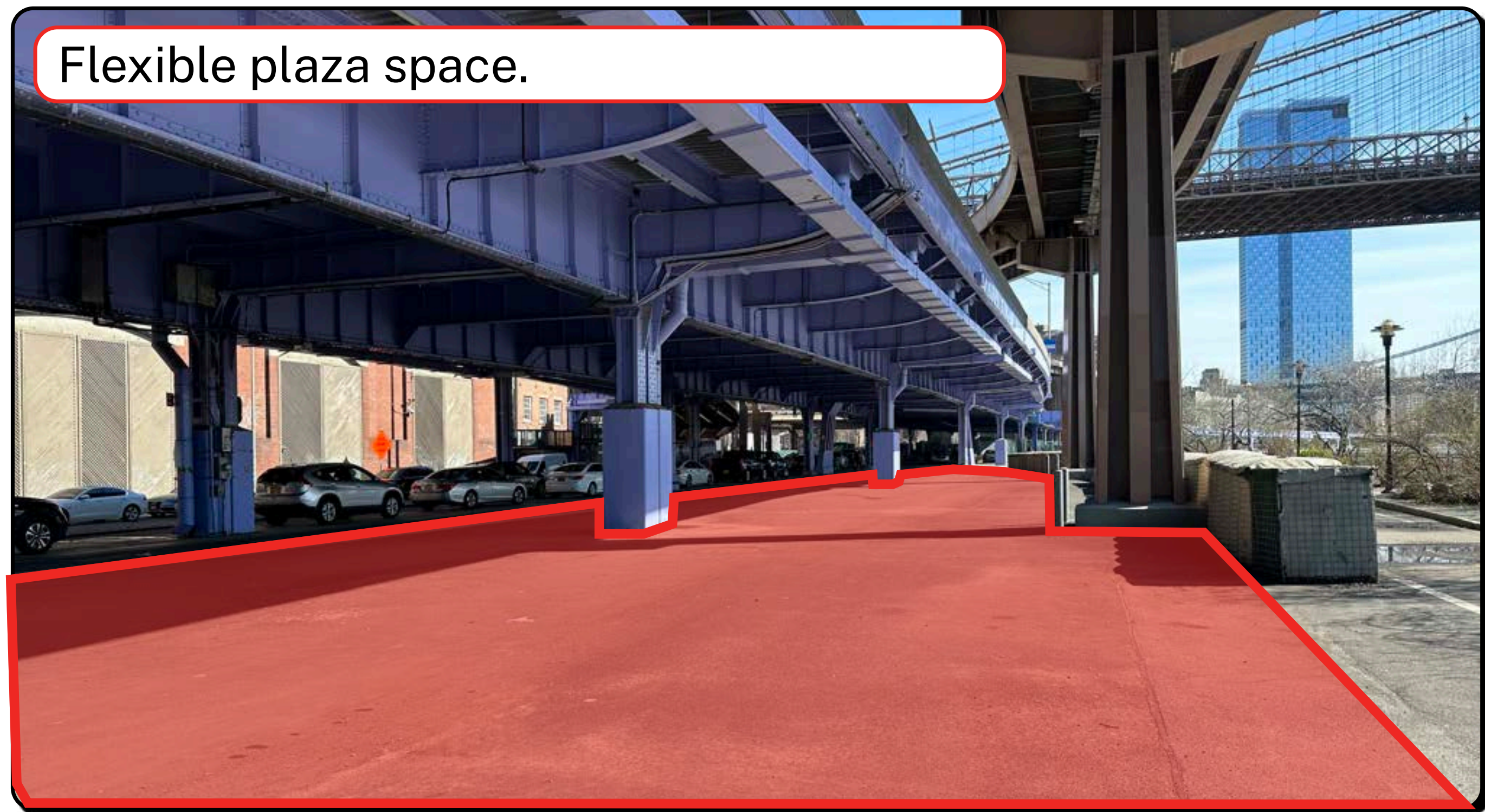
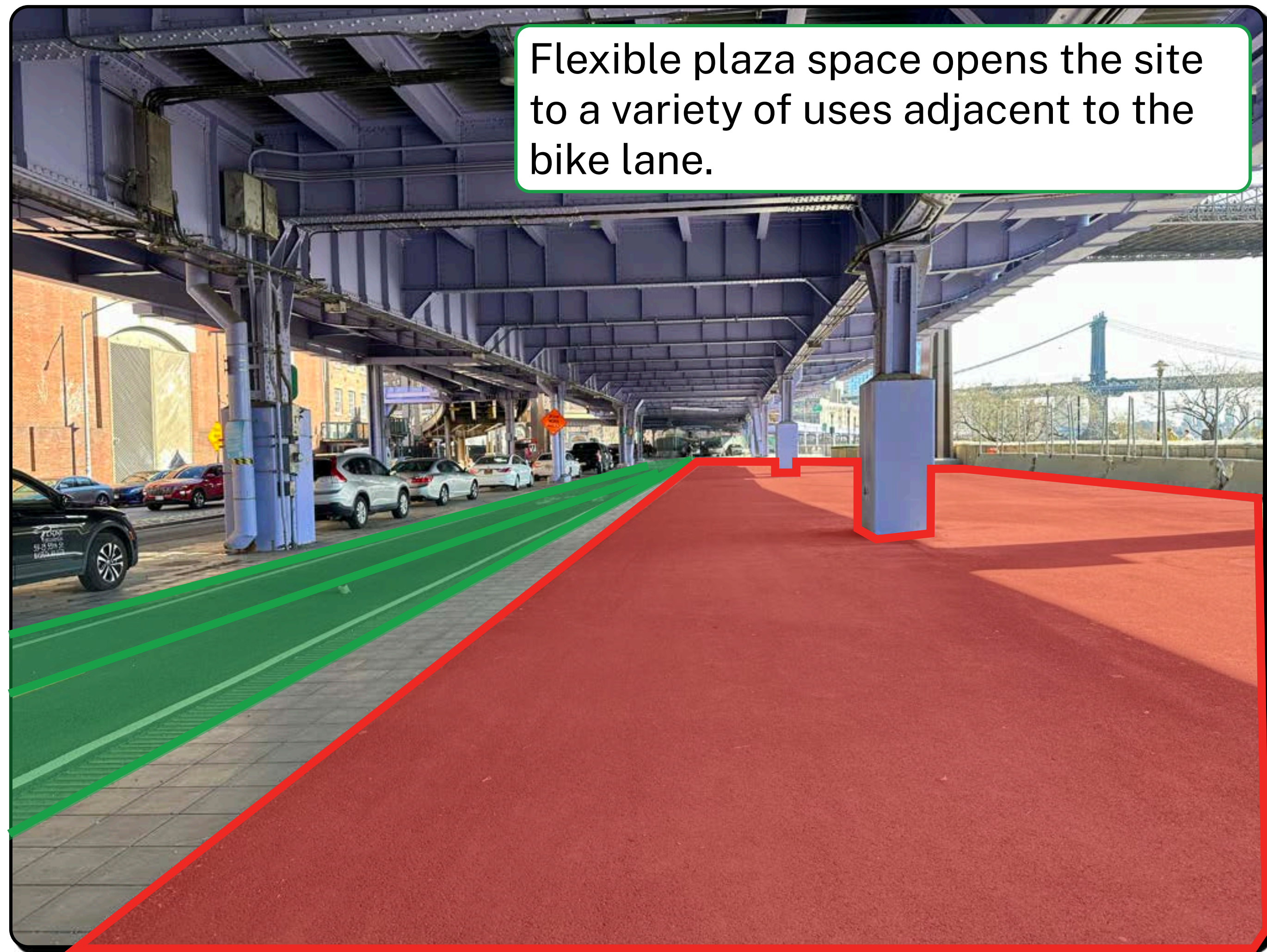
Existing Program Preservation

Providing open space and waterfront views to maintain existing site uses

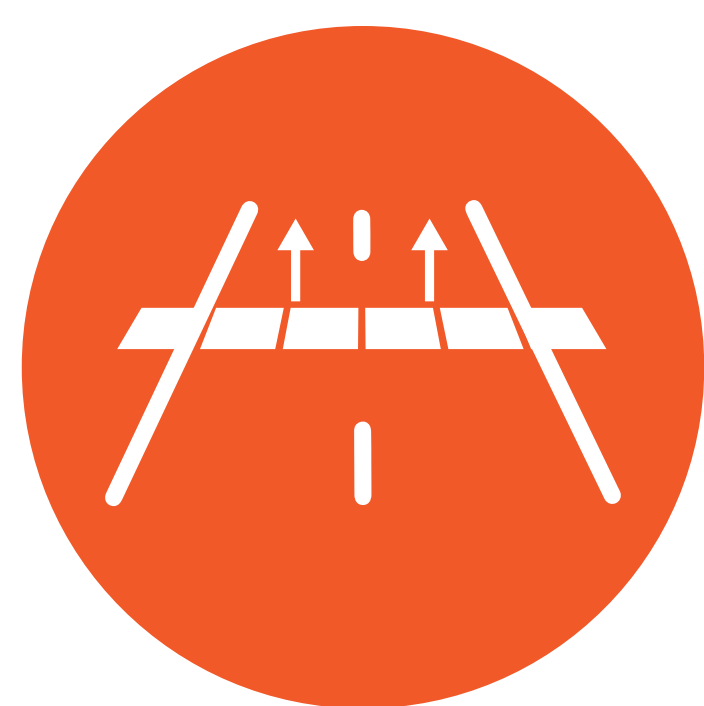


FDR Drive Infrastructure

Placemaking in respect to support columns and overhead clearances



SPCR Engineering & Placemaking Considerations | Pier 17



Over-Road Flood Mitigation

Crossing the flood mitigation alignment over South Street



Access & Safety

Providing adequate space for pedestrian and cyclist circulation



Site Character Extension

Connecting to the design and commercial uses of Pier 17



FDR Drive Infrastructure

Placemaking in respect to support columns and overhead clearances



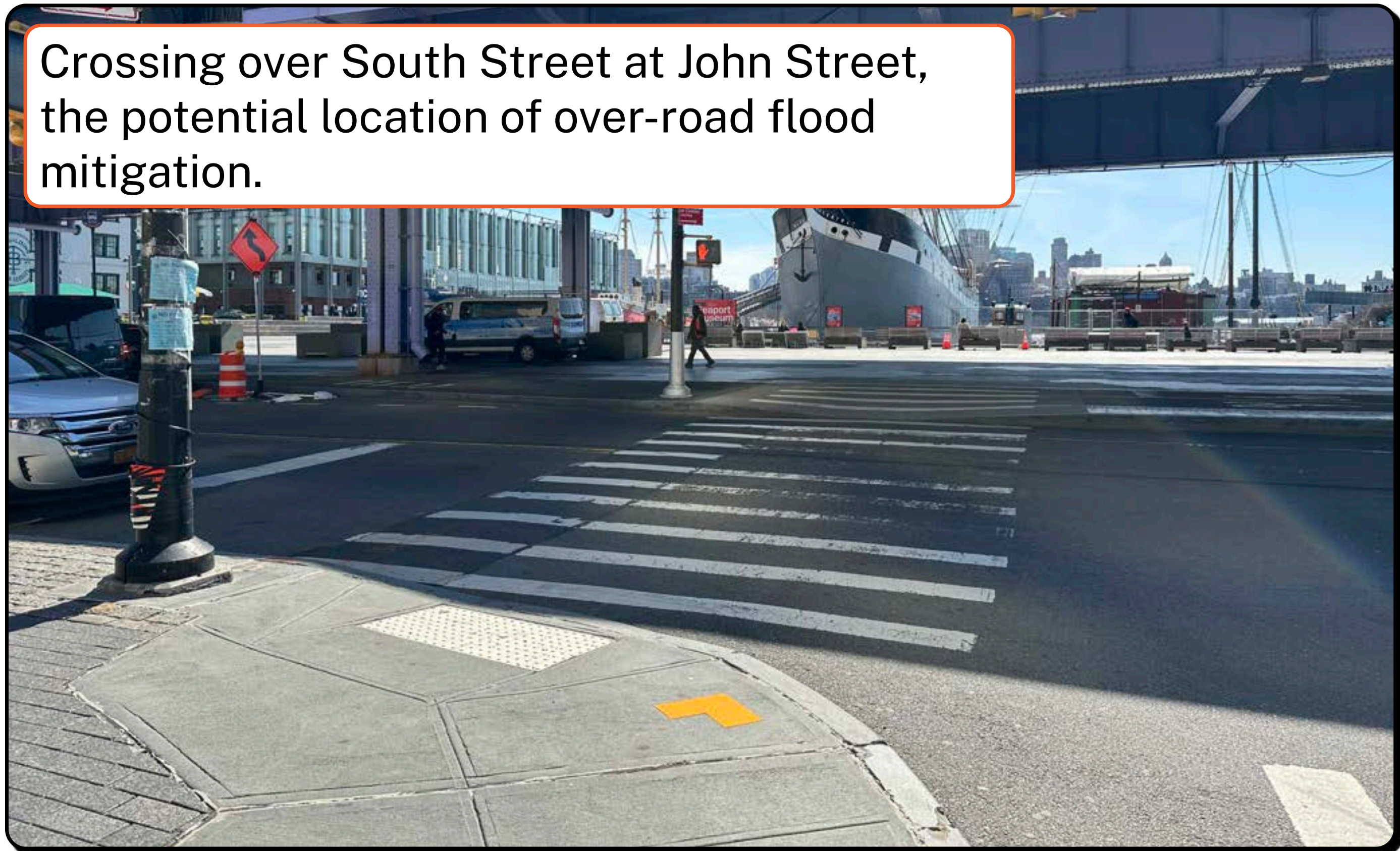
Utilities & Resources

Avoiding modifications to underground utilities & TIN Building driveways



Historic District Connectivity

Establishing seamless connections between waterfront and historic Seaport district



SPCR Engineering & Placemaking Considerations | Fulton Street



Access & Safety

Providing adequate space for pedestrian and cyclist circulation



Existing Program Preservation

Providing open space and waterfront views to maintain existing site uses



Site Character Extension

Connecting to the design and commercial uses of the historic district



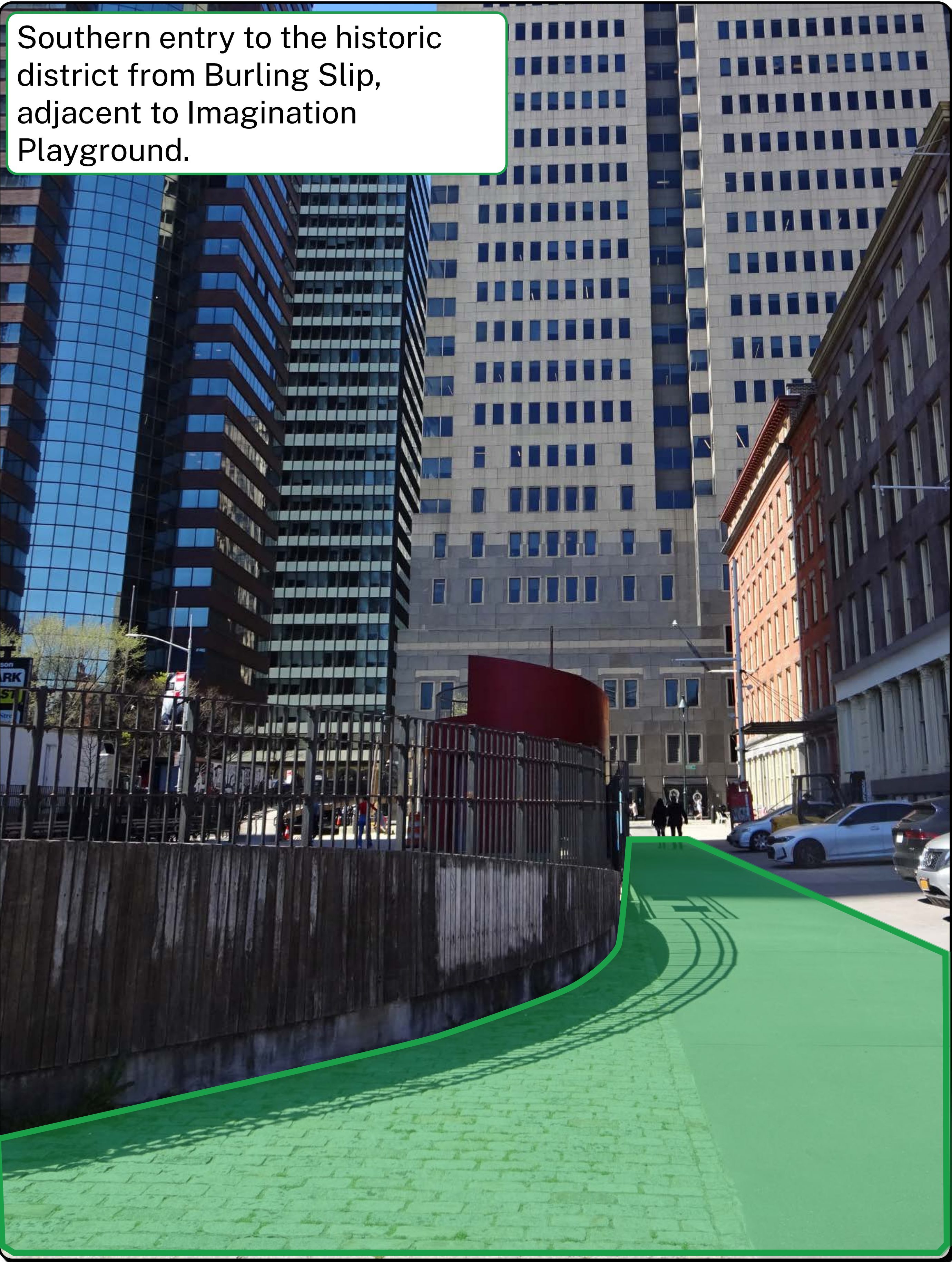
Utilities & Resources

Avoiding modifications to underground utilities & TIN Building driveways

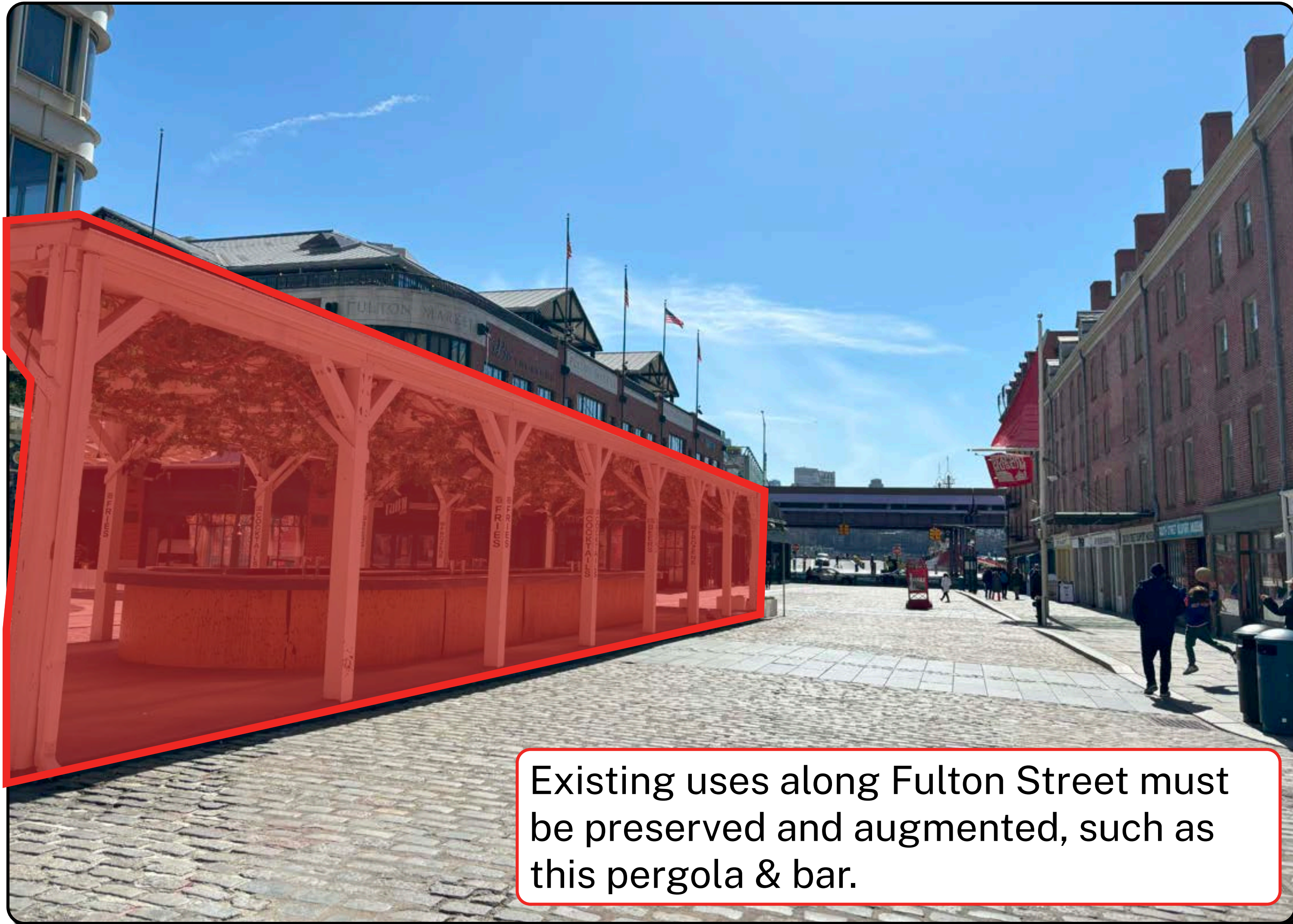


Historic District Connectivity

Establishing seamless connections between waterfront and historic Seaport district



Southern entry to the historic district from Burling Slip, adjacent to Imagination Playground.



Existing uses along Fulton Street must be preserved and augmented, such as this pergola & bar.



Seaport's historic building facades & cobblestone roads.



Underground utilities along Front & Fulton Street must remain accessible.



Access to Fulton Street from Pearl Street adjacent to Titanic Memorial Park.

What would you like to see in the Seaport?

ACTIVE



Cycling

Dedicated cycling lanes, in line with existing conditions, that provide a smooth, clear route.



Running & Jogging

A clear pedestrian corridor conducive to a range of speeds and activity levels.



Rollerblading

Smooth slopes and clear corridors to allow for free movement along the waterfront.



Fitness Equipment

Dedicated area for in-ground fitness equipment with a full range of accessibility.

SOCIAL



Flexible Plaza Space

Open space that can be utilized for a wide variety of group events.



Environmental Education

Signage and outlooks that highlight environmental features.



Social Seating

Large-scale seating conducive for group events.



Concessions & Market Areas

Accessibility of the site to pop-up markets and concessions, such as food trucks.

PASSIVE



Viewing Deck & Outlooks

View corridors and vantage points that highlight the waterfront and adjacent skyline.



Planted Areas

Native, sustainable planting beds that introduce greenery to the waterfront.



Lounge Seating

Leisure-oriented seating along the waterfront.



Bench Seating

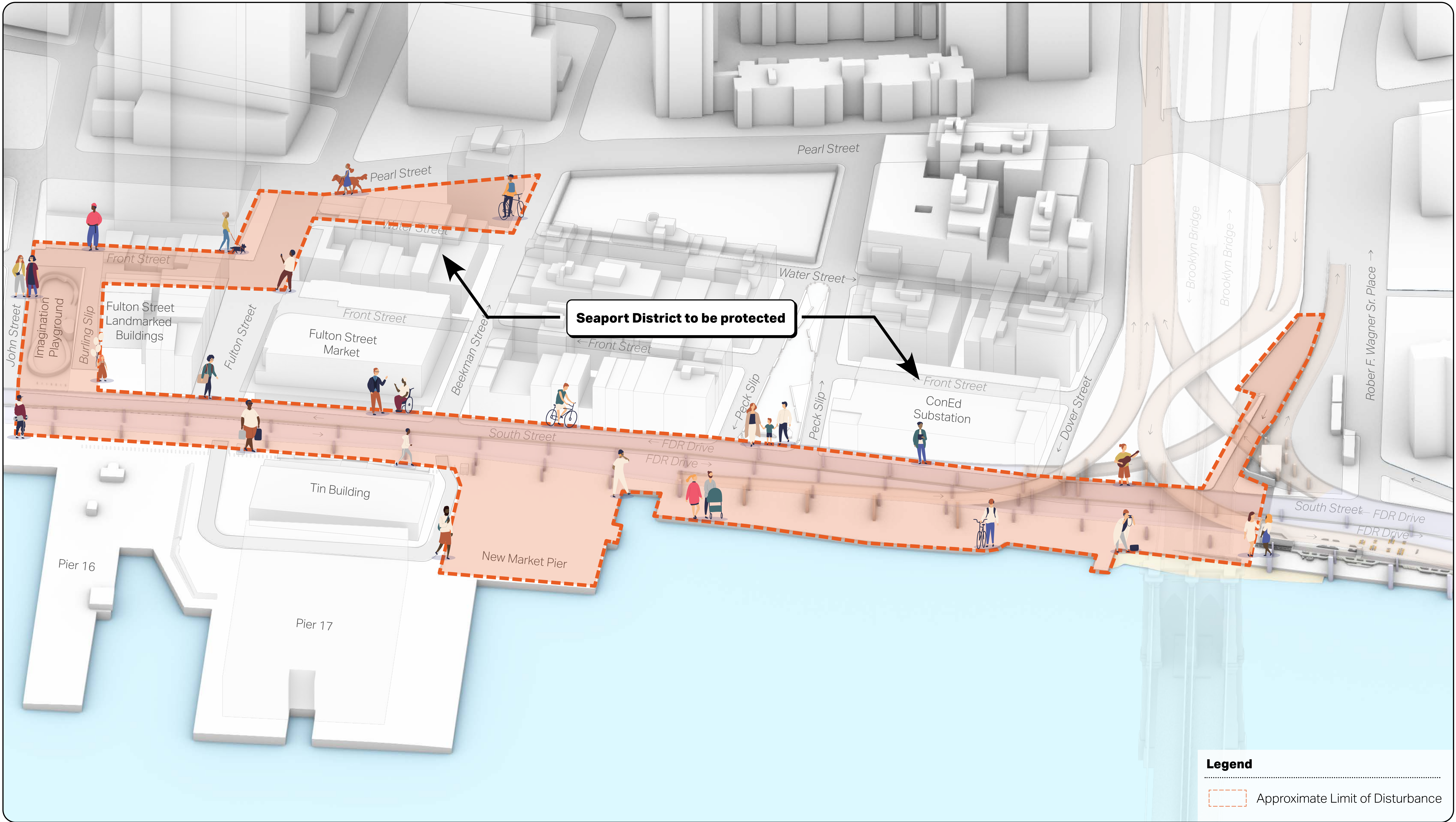
Small-scale seating conducive for individuals and small parties.



Waterfront Get-Down

Connectivity to the water's edge.

What would you like to see in the Seaport?



Environmental Review Elements



Establish a Regulatory Framework

- ➔ Federal: National Environmental Policy Act (NEPA)
- ➔ New York City-specific: City Environmental Quality Review (CEQR)
- ➔ New York State-specific: State Environmental Quality Review Act



Investigating Project Impacts

- ➔ A team of experts will evaluate how the project might affect the environment across a wide range of topics including open space, land use, zoning, and water resources.



Compiling Findings

- ➔ A report outlining the findings and proposed solutions for the project's potential impacts will be compiled.



Community Involvement

- ➔ Throughout the design process, public events and comment periods will give the community opportunities to provide feedback.

Project Timeline

SPRING 2024 SUMMER 2024 FALL 2024 WINTER 2024/25 SPRING 2025 SUMMER 2025 FALL 2025 WINTER 2025/26 SPRING 2026

Data Collection & Conceptual Design

Schematic Design (30%)

Preliminary Design (50%)

Final Design

Construction Phase
2026-2028

Environmental Review (NEPA/SEQRA/CEQR)

Cultural Resources/Permitting

ULURP/Land Use Approvals

Natural Resources Agency Coordination/Permitting

Public Art

Community Engagement

Kickoff

Workshop #1

Workshop #2