

Located on the East River between Peck Slip and Catherine Slip in Manhattan

CB 3 Presentation
October 10, 2019
Starr Whitehouse Landscape Architects and Planners

This project is made possible by a grant from the Lower Manhattan Development Corporation, which is funded through Community Development Block Grants from the U.S. Department of Housing and Urban Development.

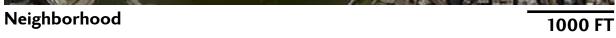
Andrew M. Cuomo, Governor

Bill de Blasio, Mayor









Site







#### **DESIGN GOALS**

- Connect inland to the neighborhoods
- Employ resilient and floodable materials
- Provide a continuous esplanade and bikeway
- Minimize pedestrian and bicycle conflicts
- Utilize the site furnishings palette from adjacent built sections of the esplanade

#### **FUNDING**

- \$15M US Housing and Urban Development Community Development Block Grant (HUD CDBE) administered by LMDC
- \$6M Office of the Manhattan Borough President, Councilmember Margaret Chin
- Total Budget: \$21M
- Project Size: 1500 LF





# ADJACENT PROJECTS IN DESIGN AND CONSTRUCTION

#### **BMCR Project:**

- Planned flood protection from the Brooklyn Bridge to Montgomery Slip
- Exact alignment to be determined concurrent with esplanade design

# Reconstruction of Peck Slip (by DPR):

• Completion planned in spring 2021

#### **Tin Building Reconstruction:**

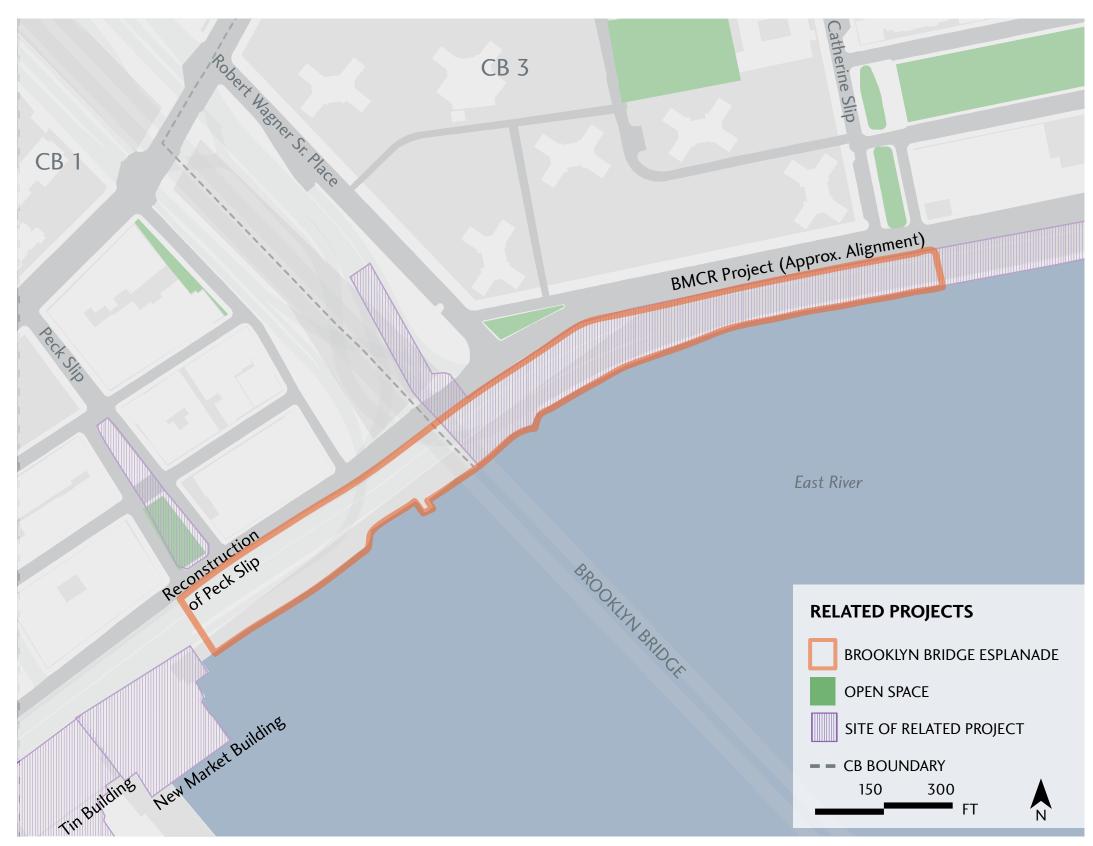
• Renovated building to open in 2020

#### **New Market Building:**

 Demolition in Q2 2019; no current design plans

# Interim Flood Protection Project (by NYCEM):

• Installation 2019













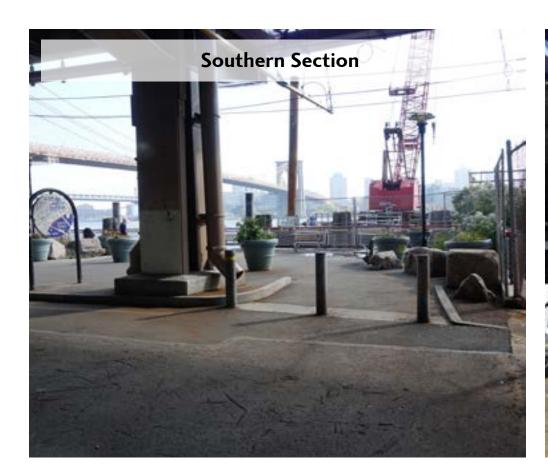
**BROOKLYN BRIDGE ESPLANADE** - Existing Conditions October 10, 2019



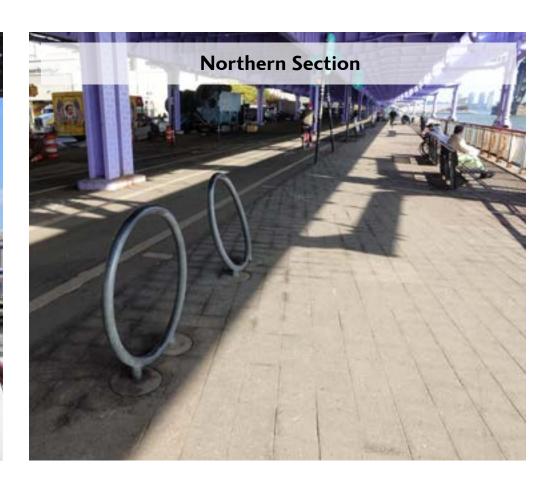


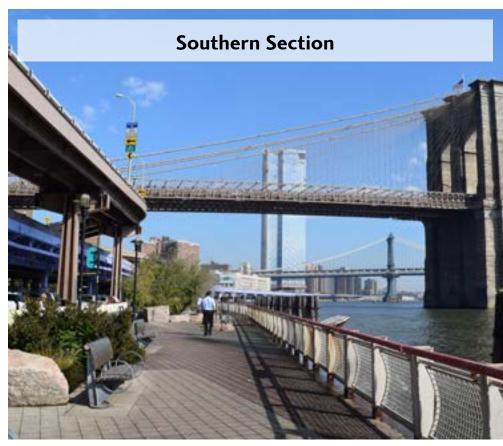














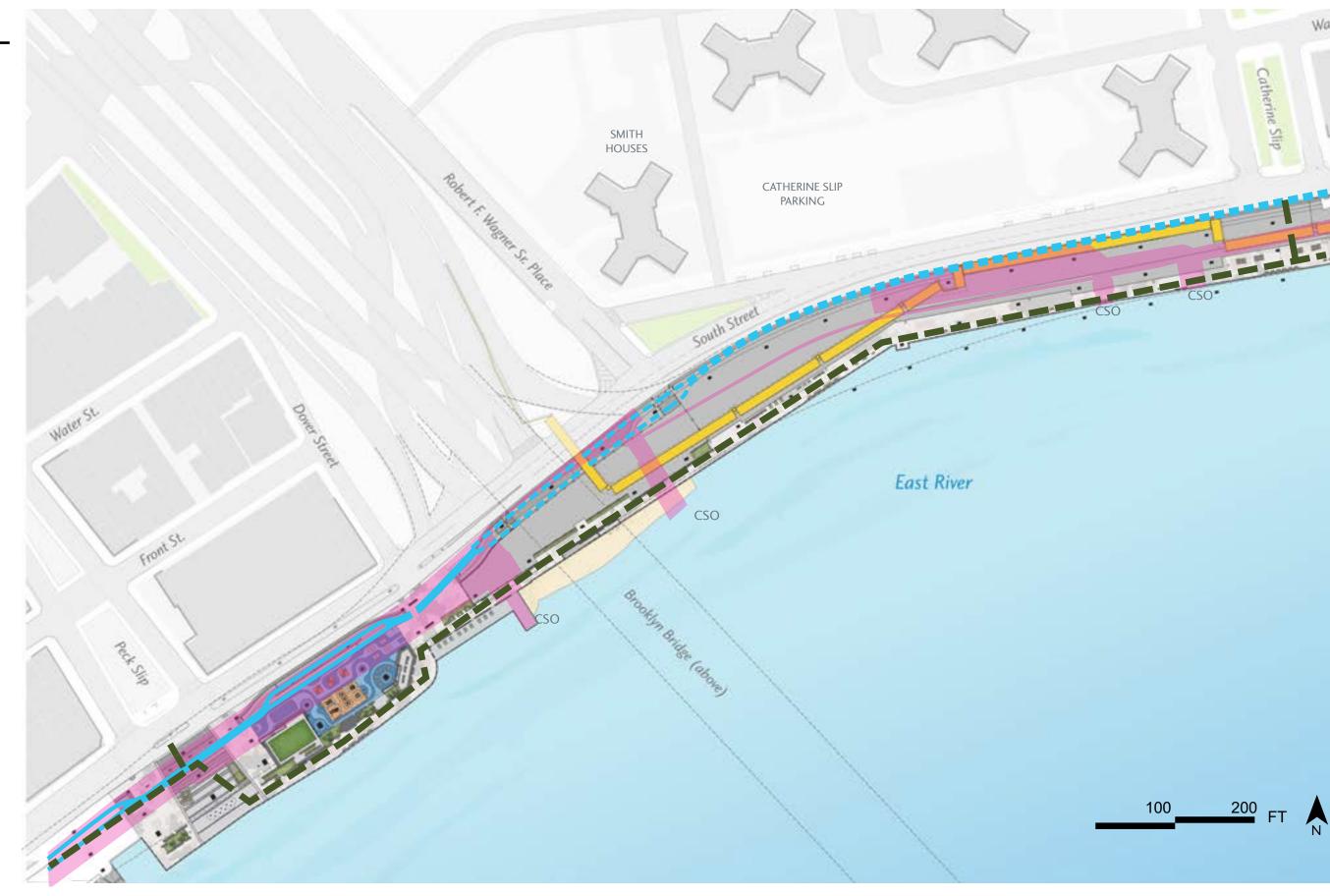












BROOKLYN BRIDGE ESPLANADE - Site & Program Constraints
October 10, 2019

**COVER LEGEND** 

UTILITIES OFFSET

PROPOSED BIKE LANE





Planter / Bench Seating



Picnic Tables and Seating



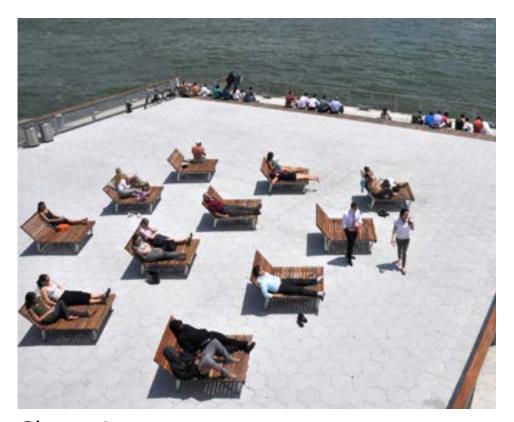
Planter / Bench Seating



Picnic Tables and Seating



**Stepped Seating** 



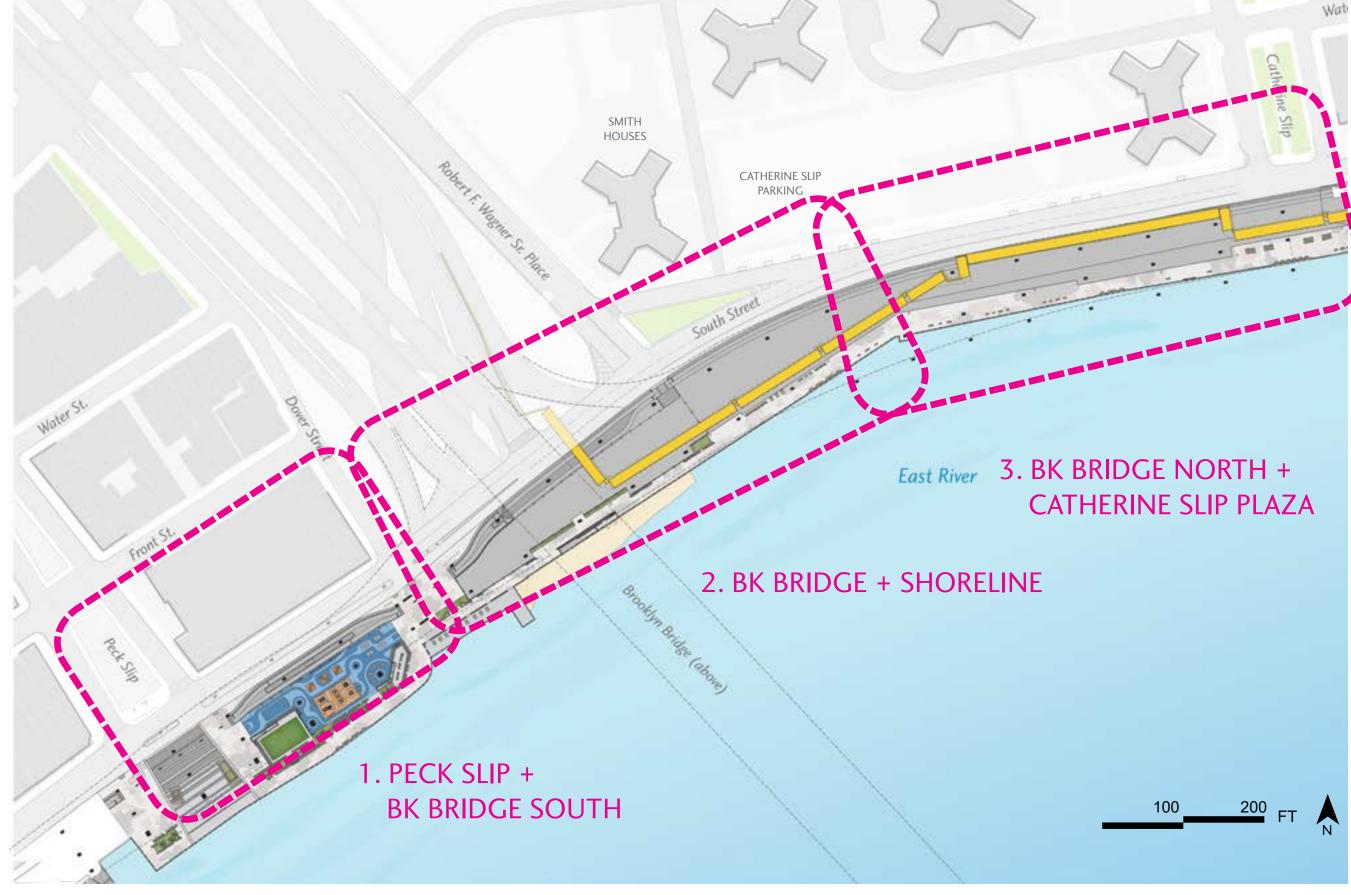
Chaise Lounges







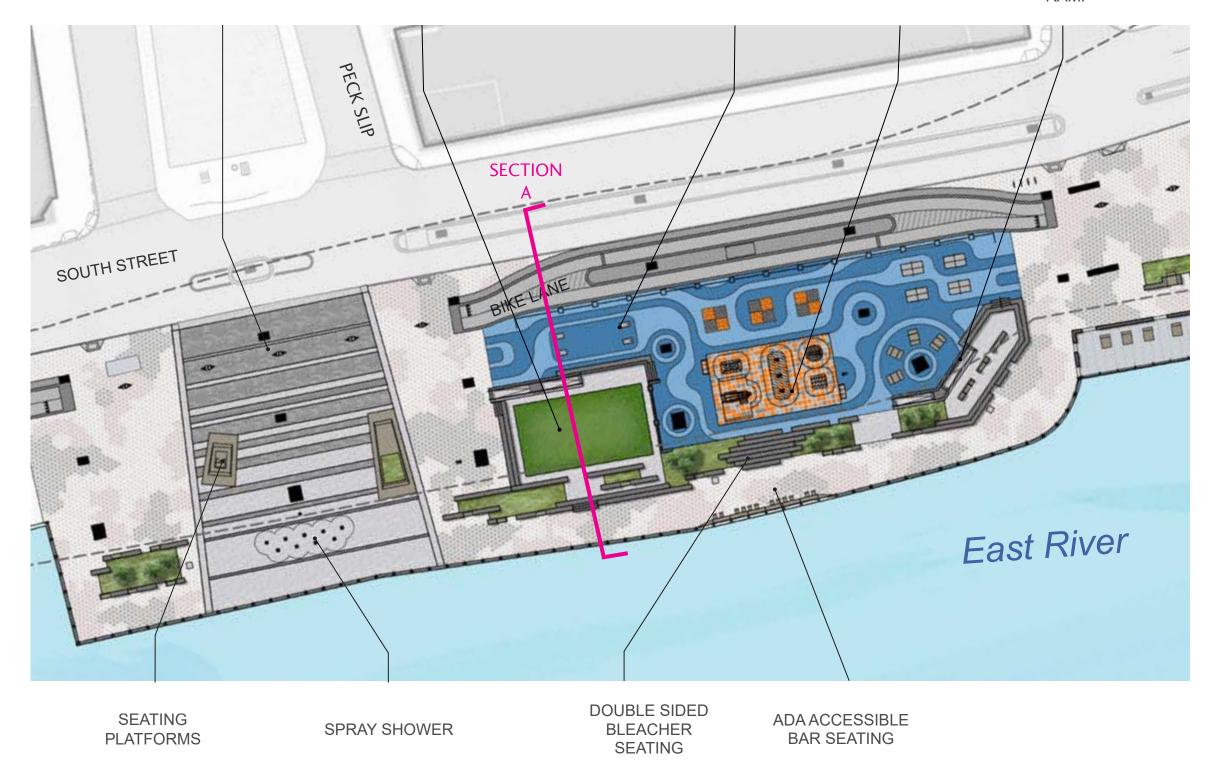




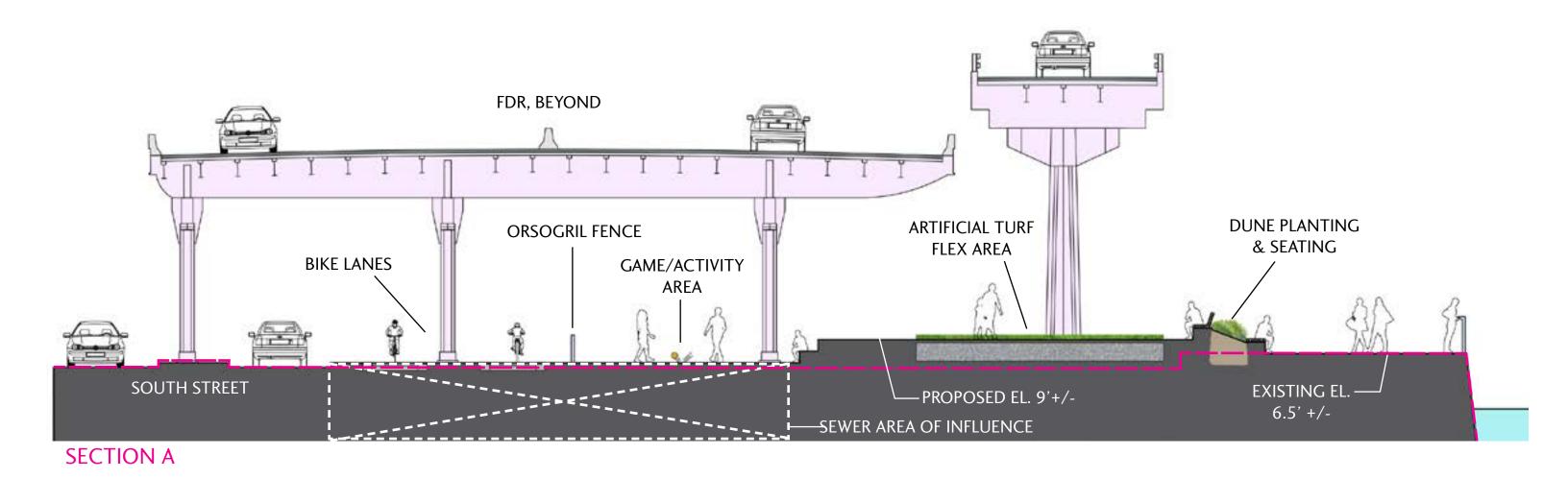














STEEL GRATE AT-GRADE BIKE LANE **PLAZA WITH GET-DOWN** TO BE PROGRAMMED **SEATING MODULES OBSERVATION DECK** NORTH OF BROOKLYN **BIKE RACKS** AND GATE AS PART OF BMCR WITH CHAISE LOUNGES WITH CHAISE LOUNGES BRIDGE BIKELANE PROGRAMMING TO BE DETERMINED CSO East River CSO PIER CHAISE AND BENCH **GET-DOWN WITH ADA ACCESSIBLE BENCH SEATING WITH** "GREEN SCREENS" **SEATING WITH BAR SEATING** WITH PLANTED VINES **ADA RAMP** PLANTING MODULE PLANTING MODULE

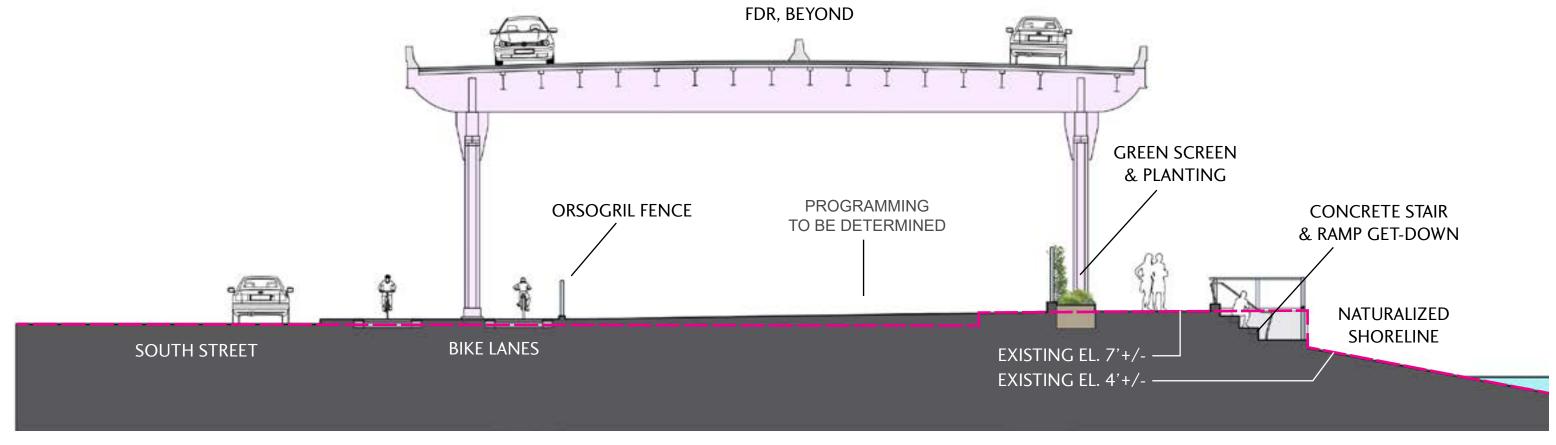






BROOKLYN BRIDGE ESPLANADE - Get-Down at Brooklyn Bridge October 10, 2019



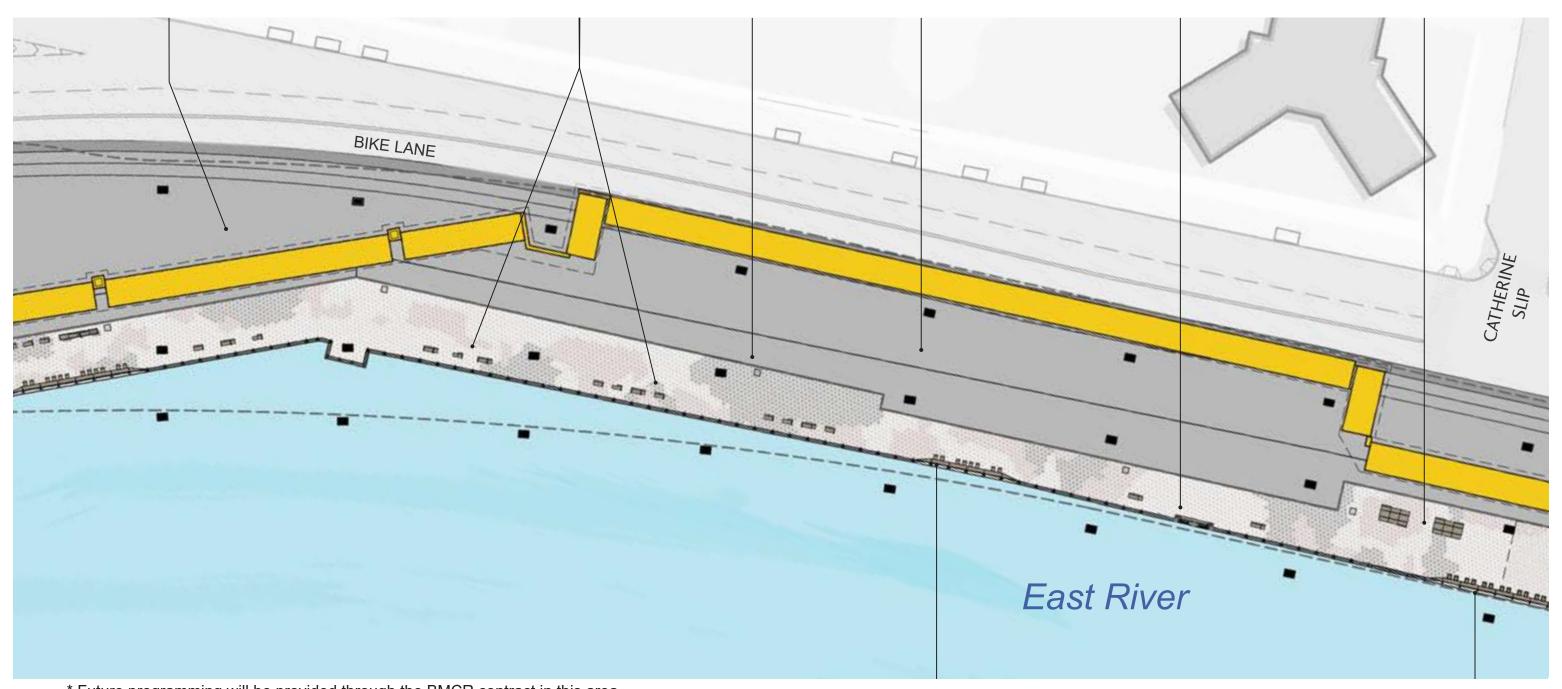


**SECTION B** 



FISH CLEANING STATION INTEGRATED WITH RAIL; ADA RAIL PROVIDED

PICNIC TABLE AREA



\* Future programming will be provided through the BMCR contract in this area, and will be coordinated with Community Board 3, city agencies, and state agencies in future design phases

ADA ACCESSIBLE BAR SEATING

**BAR SEATING** 



**BMCR** Alignment



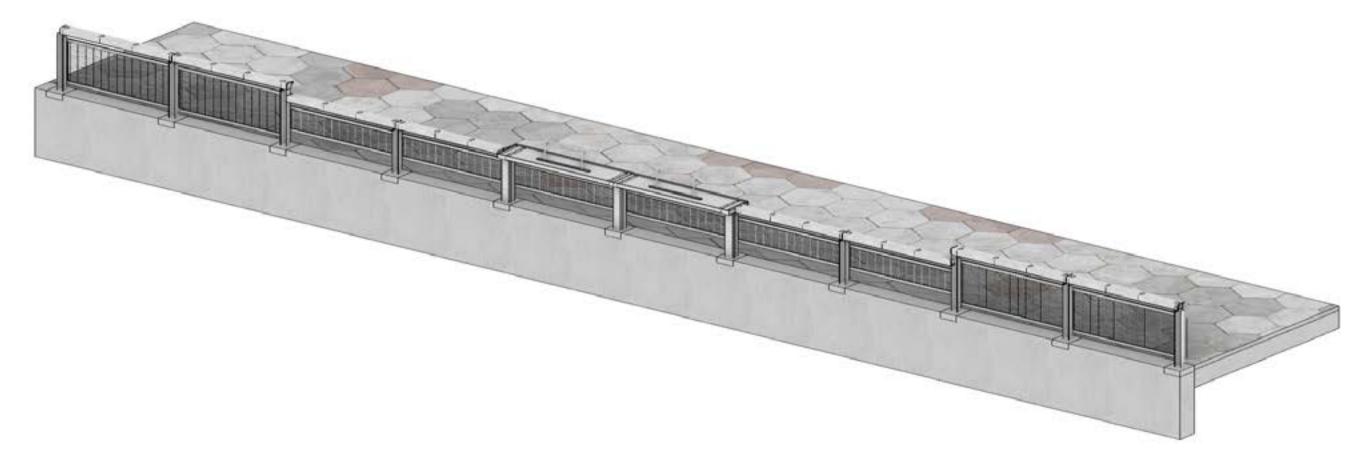




ADA Fish Cleaning Station



Fish-Out Location



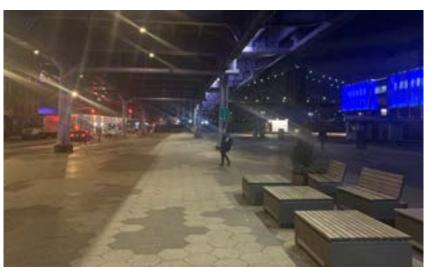






#### LIGHTING DESIGN

- FDR structure-mounted downlights (used in previous ERE sections)
- Wallwashing light fixtures on FDR structure fascia (used in previous ERE sections)
- City-approved and maintained luminaires on colums of NYCDOT-owned ramp



Downlighting



**Column Lighting** 



**Sports Lighting** 



FDR Fascia Lighting



Column Lighting







**Green Screen Planting Areas** 



**Green Screen Planting Character** 









**Cove Planting Areas** 

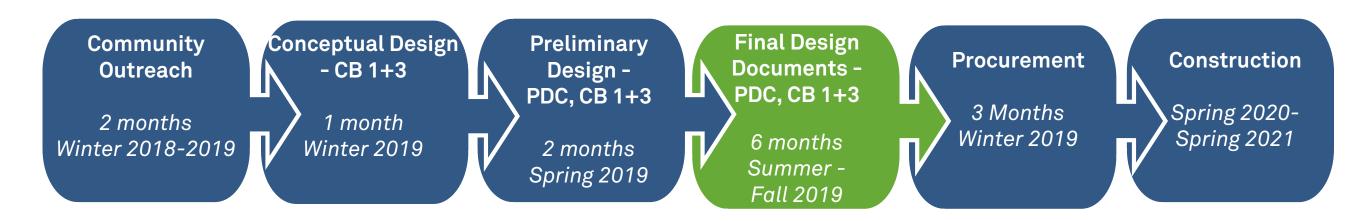


**Cove Planting Character** 



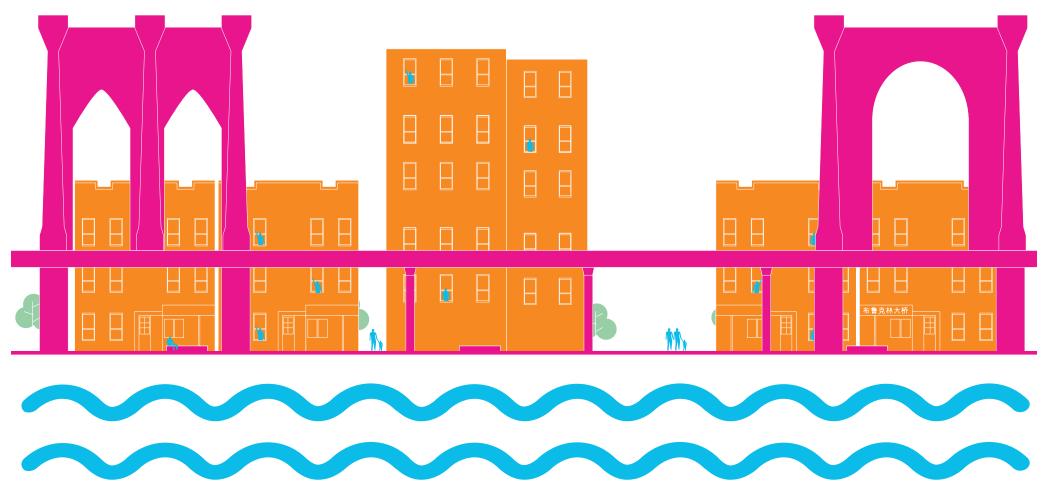


# PROJECT TIMELINE



- Design to be completed by late fall 2019
- Construction to be completed by spring 2021, deadline to maintain federal funding



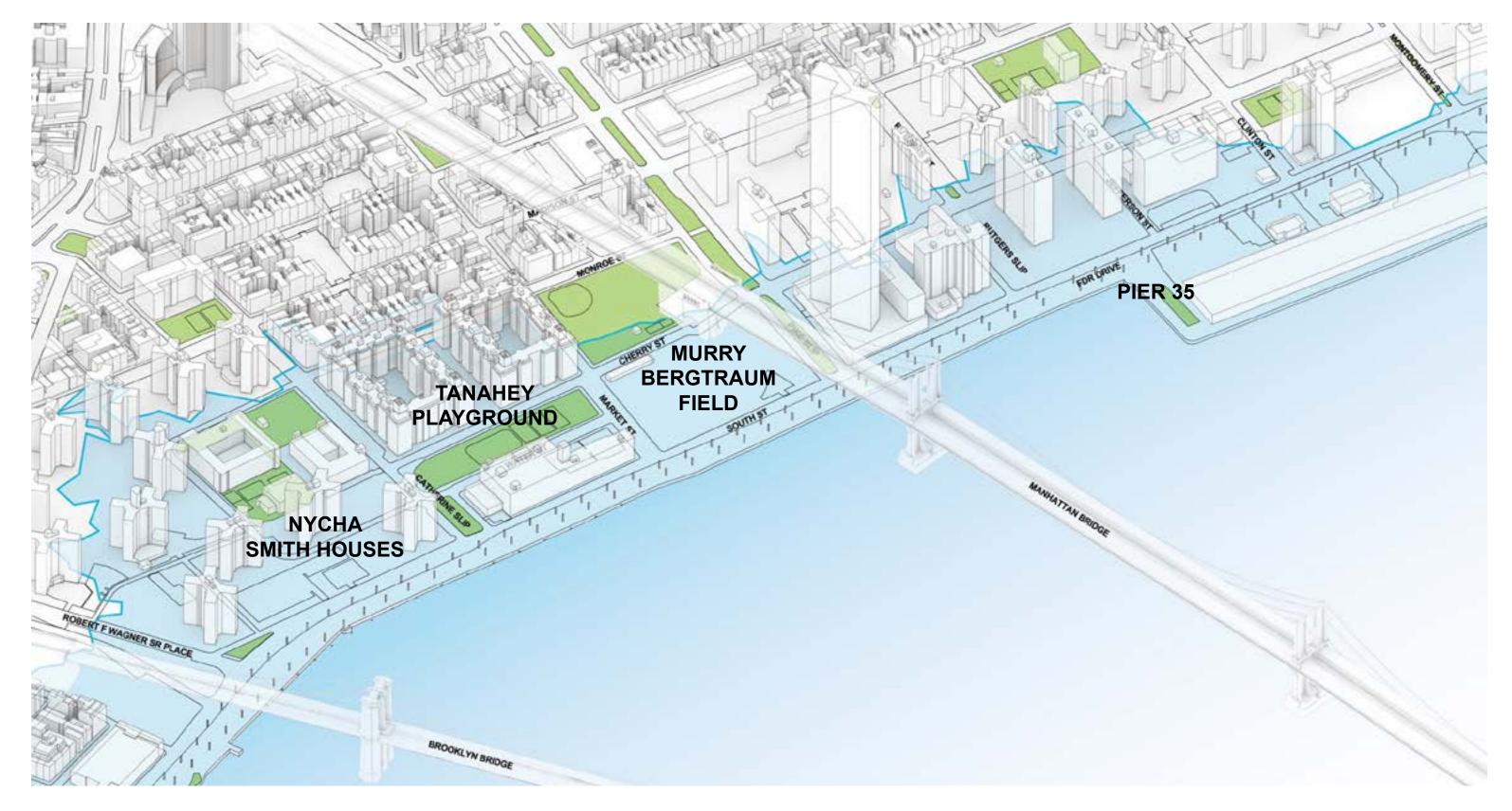


# **BK Bridge - Montgomery Coastal Resilience**





# Two Bridges Neighborhood - 2050s 100-Year Floodplain

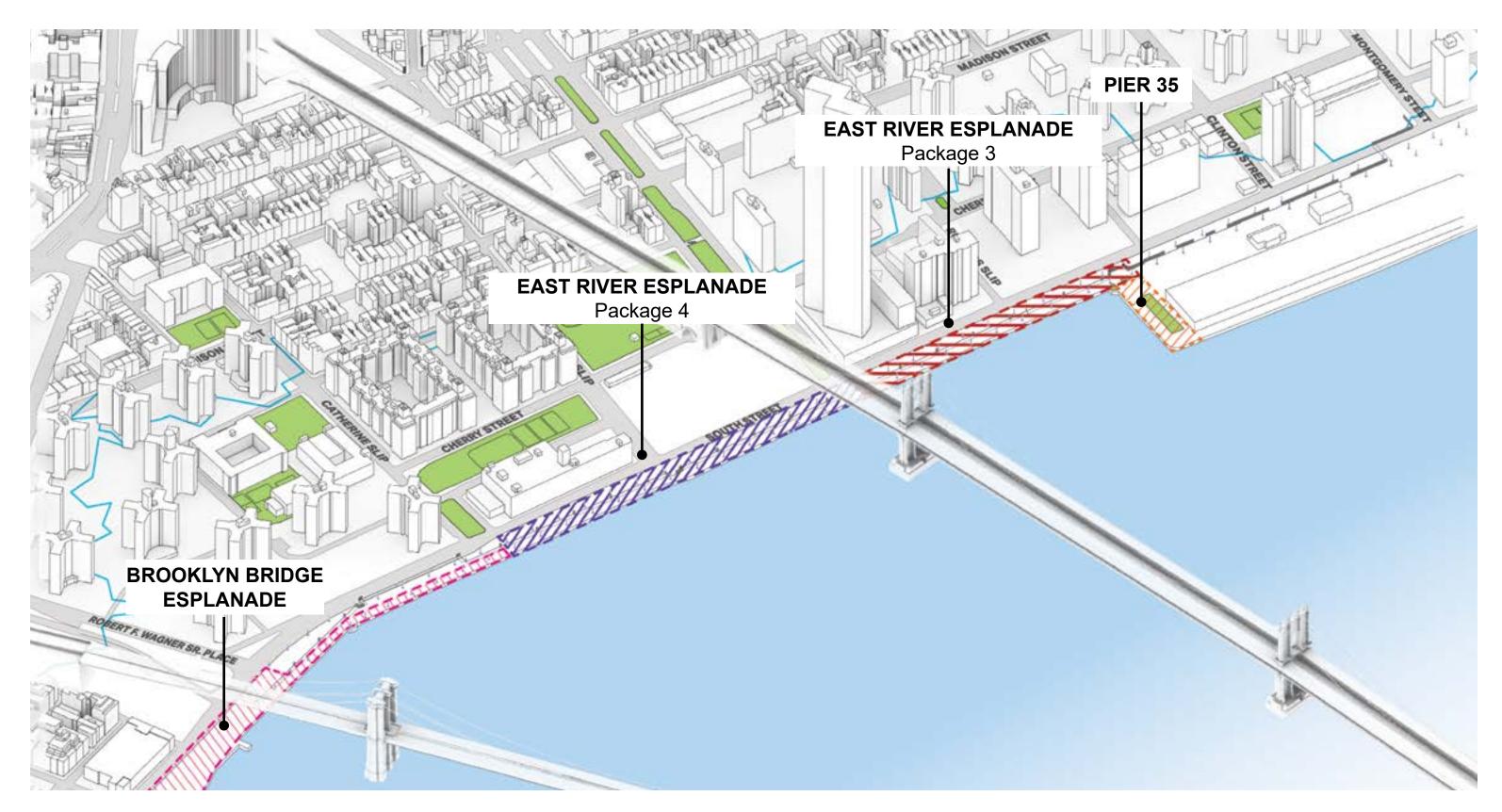








# **Project Coordination**









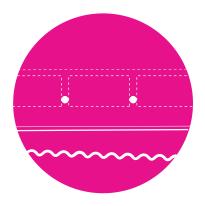
# **BMCR Flood Protection Design**



**Resilience Infrastructure** 



Raised Platform (Sea Level Rise)



**Alignment - Location of Infrastructure** 





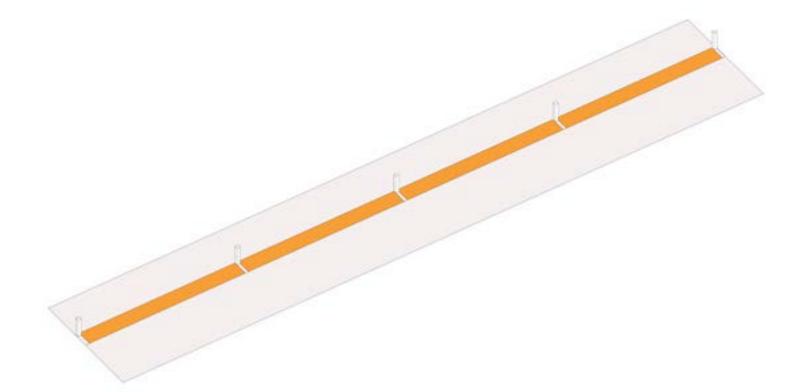


#### **Infrastructure Toolkit**

To preserve views and access along the waterfront, the project will utilize an infrastructure toolkit that combines fixed structures with deployable flood gates.

Flip Up Barrier: Sunny Day

**Roller Gates & Fixed Structures: Sunny Day** 









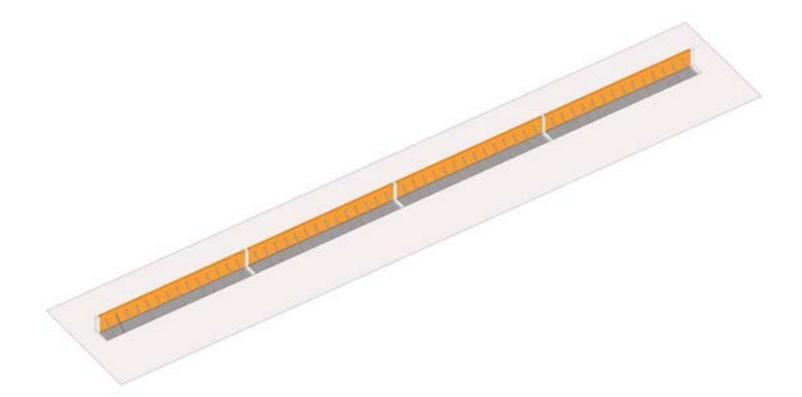


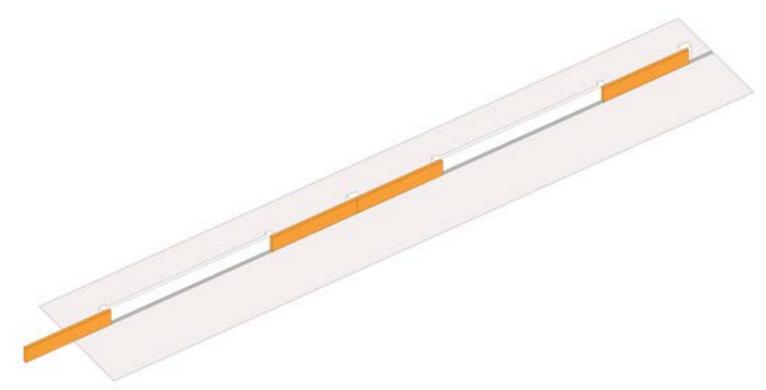
#### **Infrastructure Toolkit**

To preserve views and access along the waterfront, the project will utilize an infrastructure toolkit that combines fixed structures with deployable flood gates.

Flip Up Barrier: Deployed

Roller Gates & Fixed Structures: Deployed



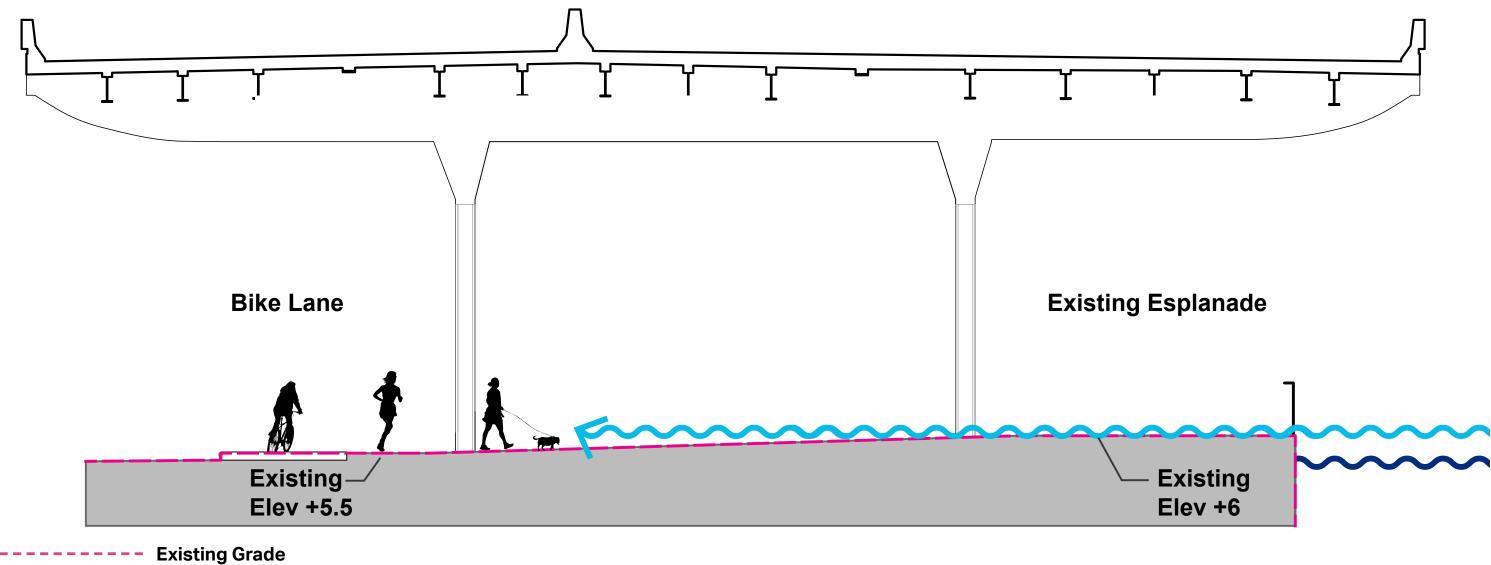








# Raised Platform to Address Sunny Day Tidal Flooding from SLR





**Future Sunny Day Tidal Flooding** 

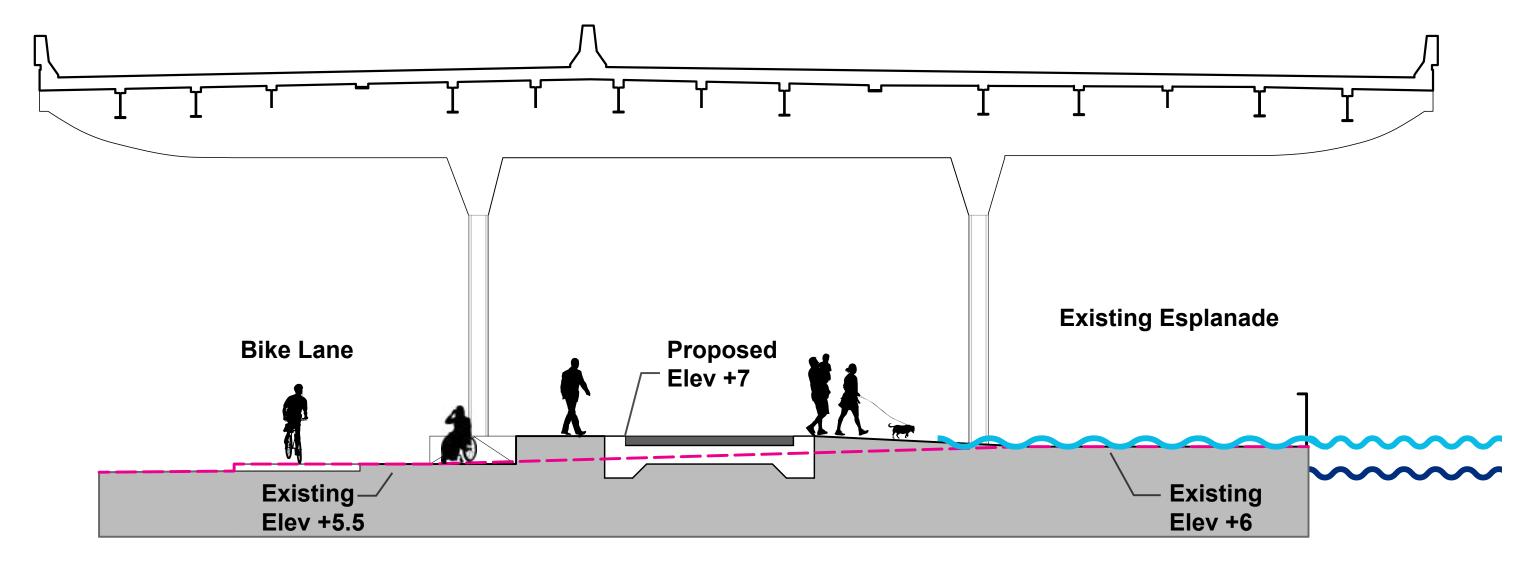
**Current sea level** 







# Raised Platform to Address Sunny Day Tidal Flooding from SLR



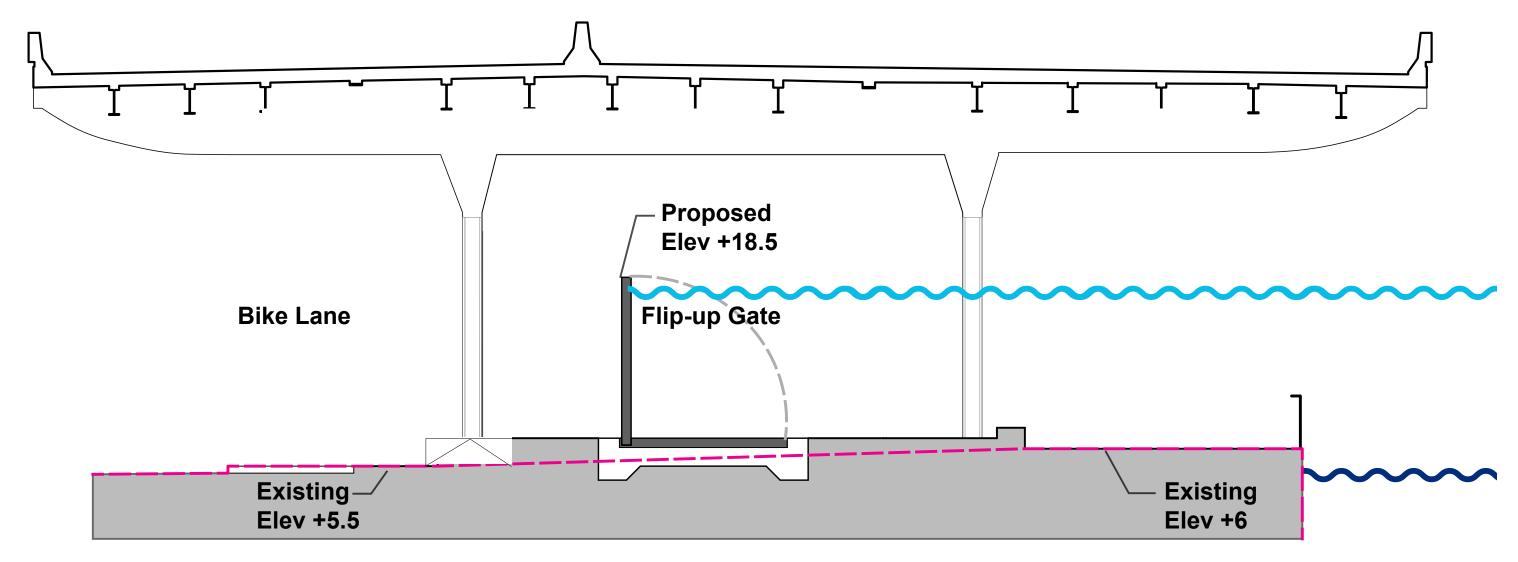








# **Deployed Flood Infrastructure**







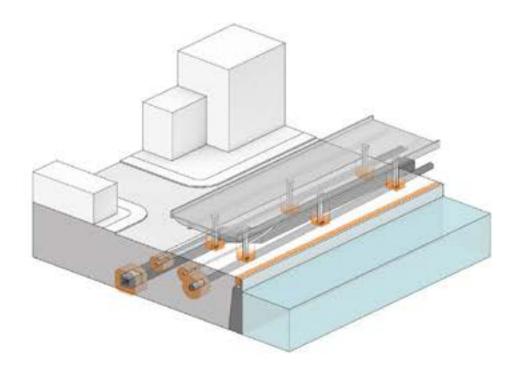




# Flood Protection Alignment - Location of Infrastructure

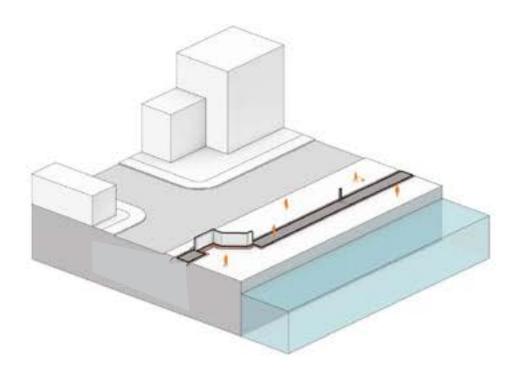
#### **Site Constraints**

**Existing Infrastructure** 



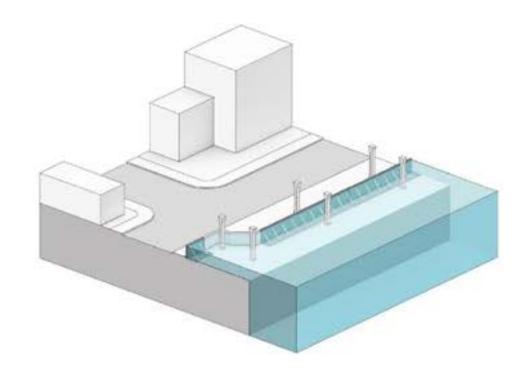
#### **Line of Protection**

Sunny Day



#### **Line of Protection**

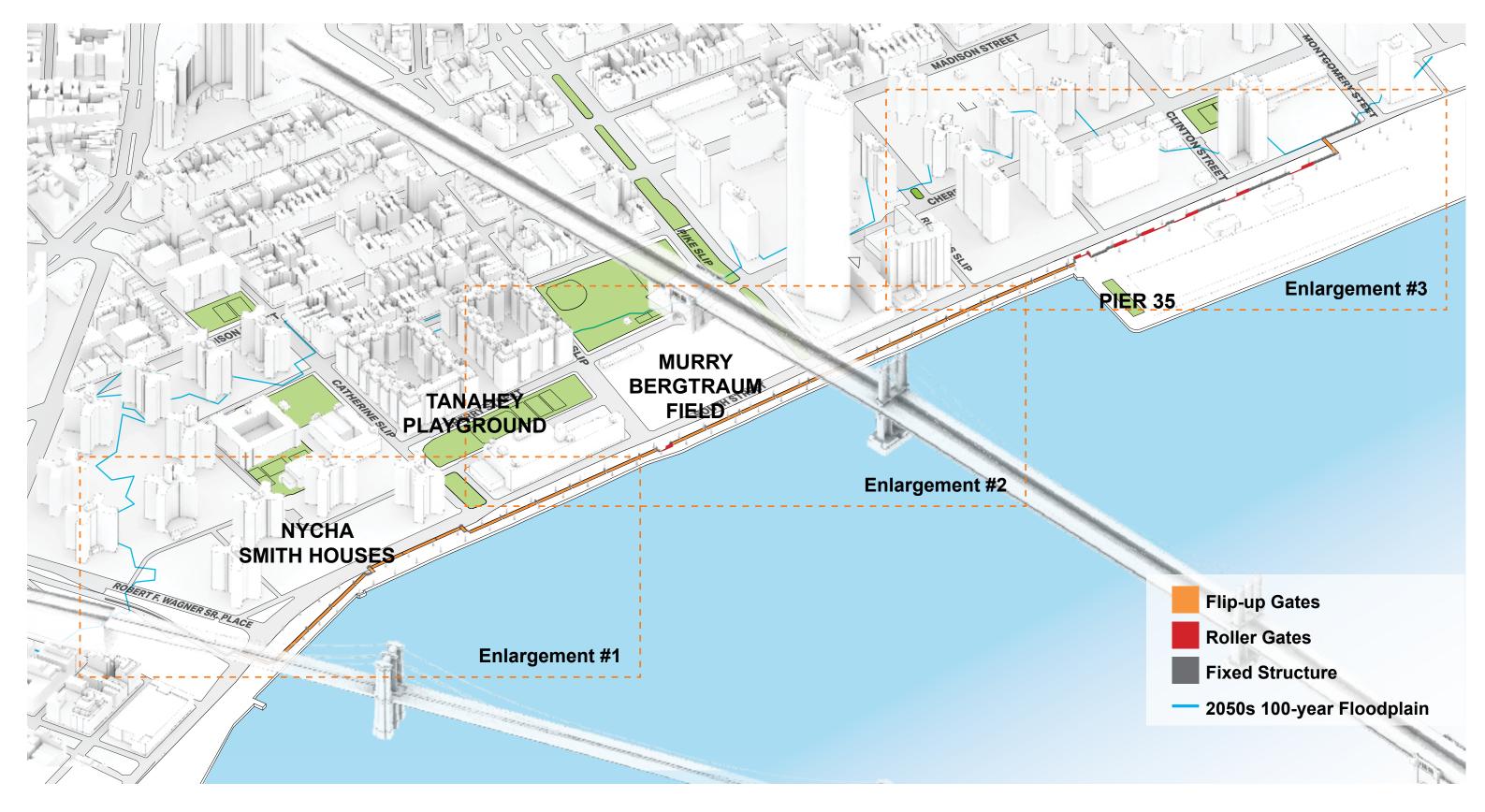
Deployed







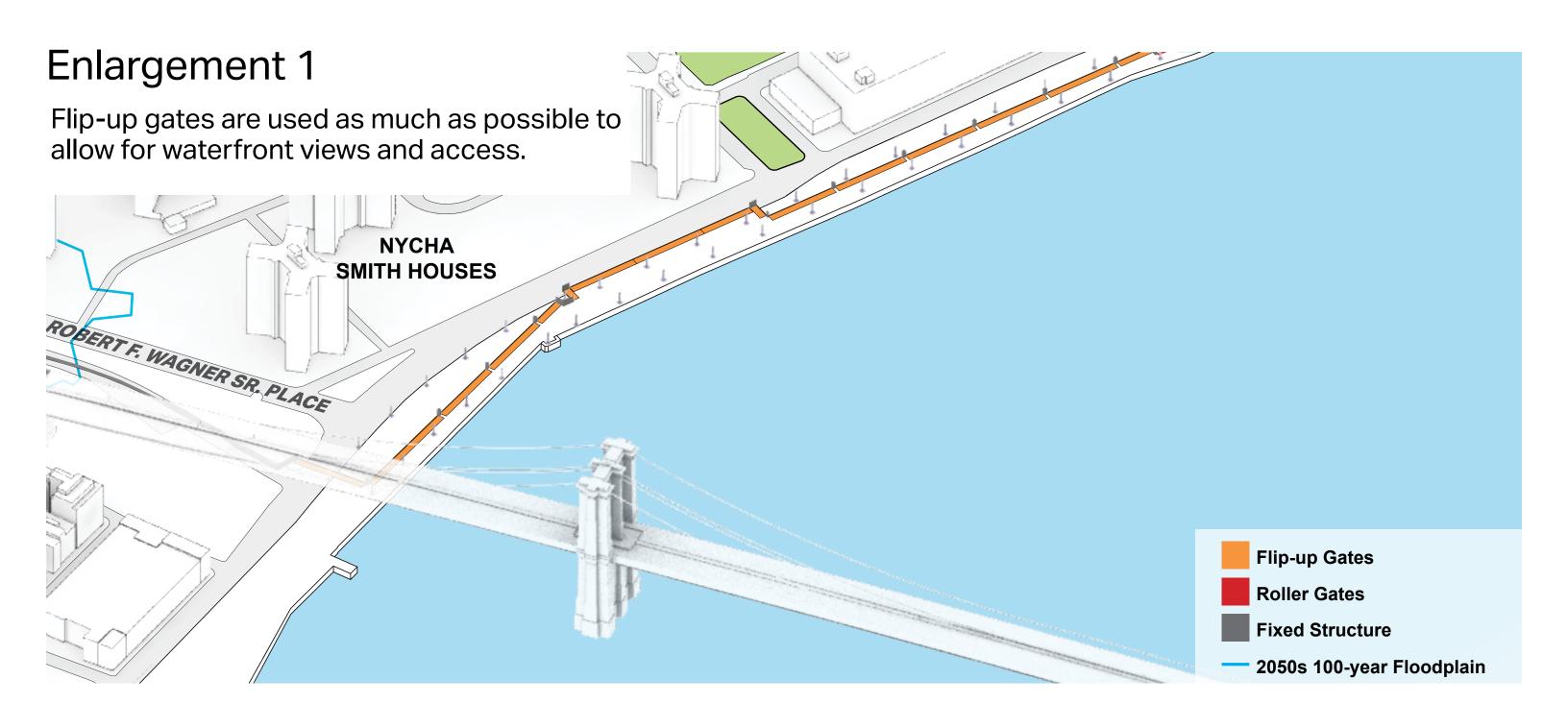








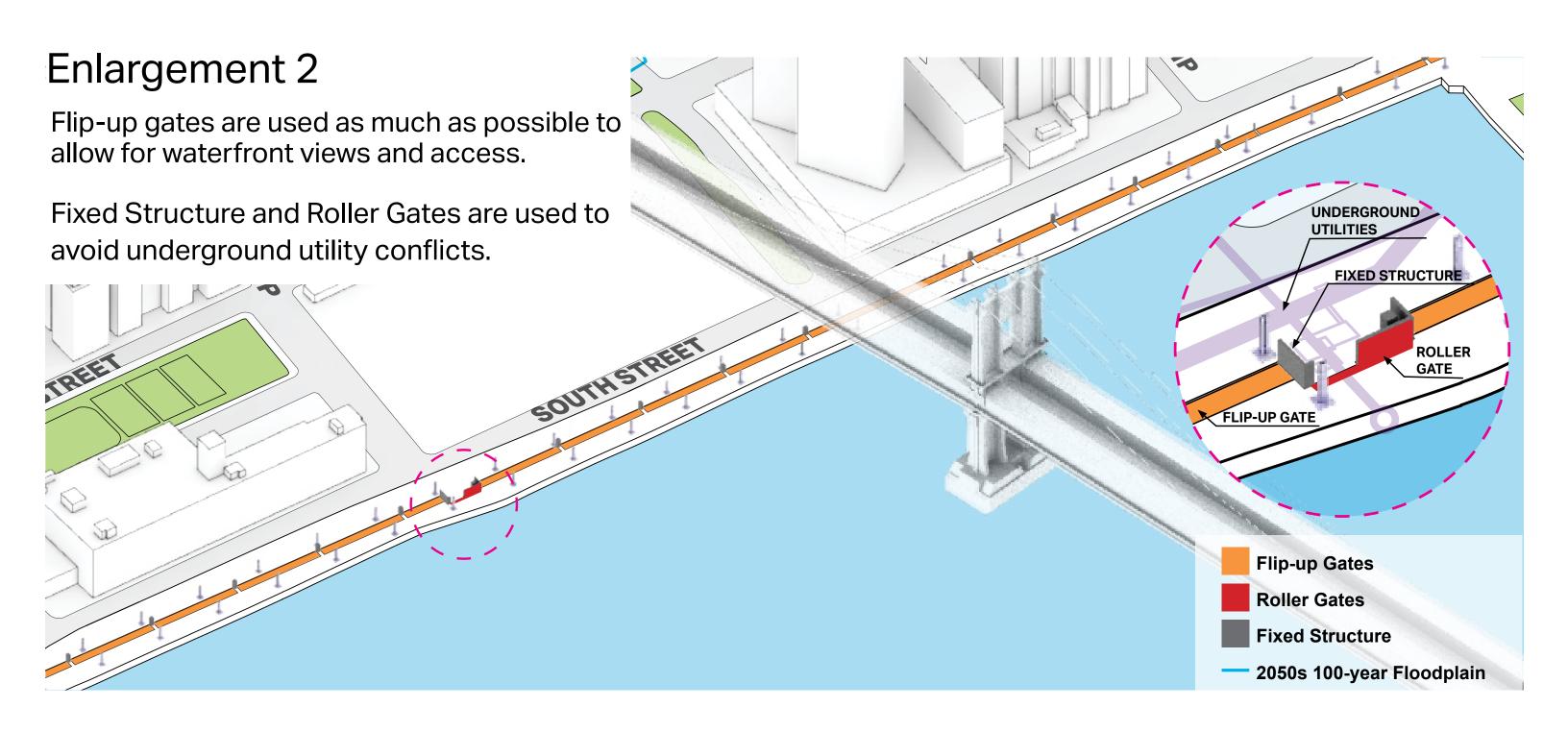








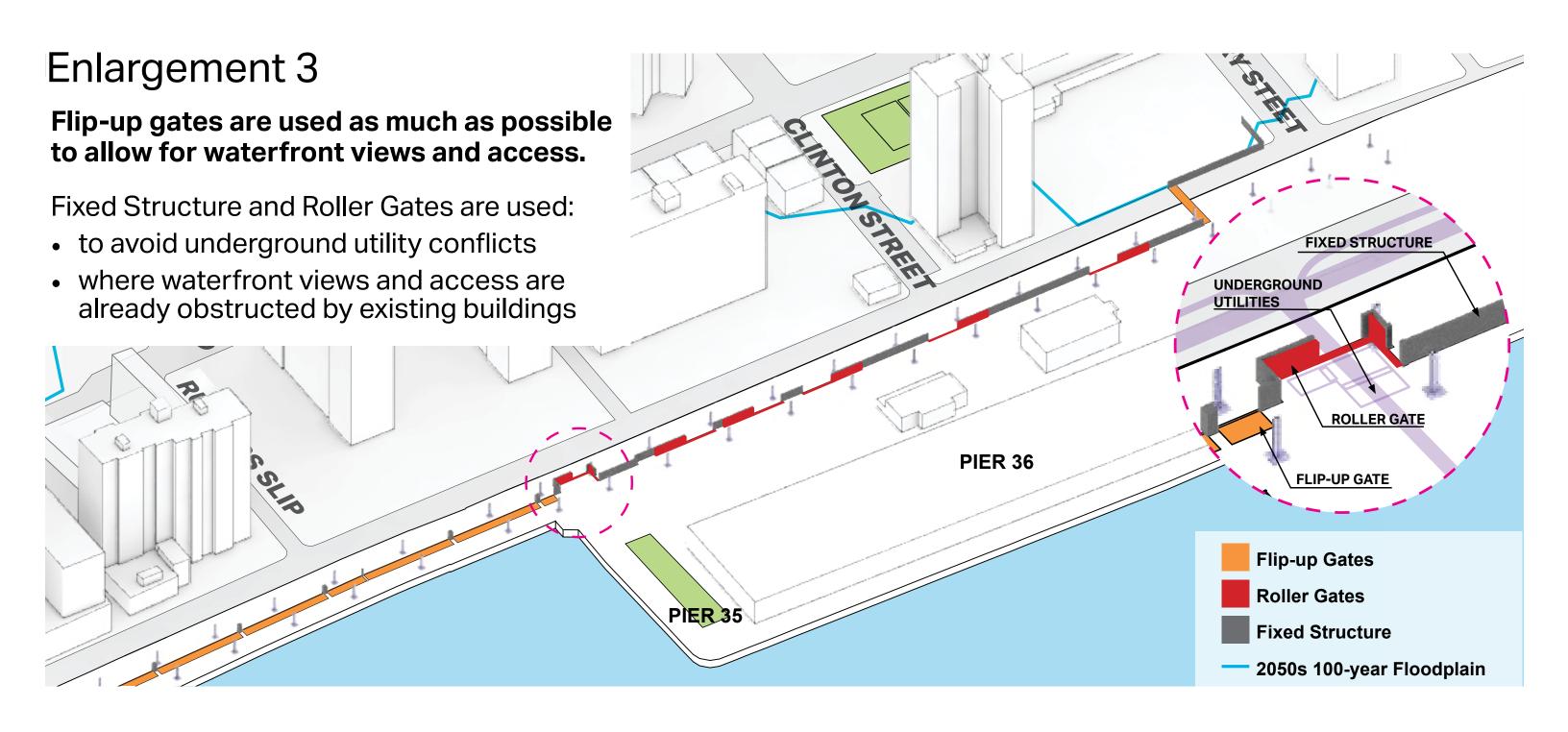


















## **Interior Drainage System**

The BMCR project includes drainage system upgrades to manage interior rainfall during storm events.

The BMCR and ESCR drainage systems will be connected so that stormwater flows to the Manhattan Pump Station and gets pumped to and treated at the Newtown Creek Wastewater Treatment Plant.









# **Proposed Program**

