

# CB3/CB6 Joint Waterfront Task Force

July 9, 2015

- 1. Overview and Project Schedule
- 2. Progress of Technical Studies
- 3. Community Feedback

#### 4. Project Area One Update

- Analysis and Studies
- Flood Protection Elements
- Bridge Connections

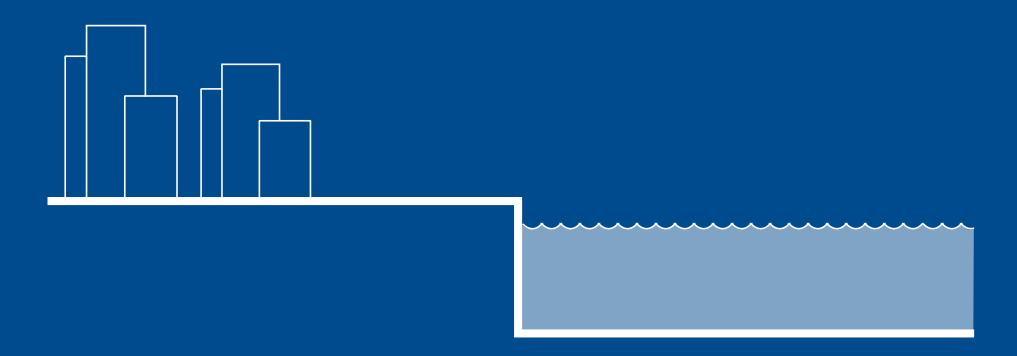
#### 5. Project Area Two Update

- Analysis and Studies
- Stuyvesant Cove Alignment

#### 6. Next Steps

# **OVERVIEW**

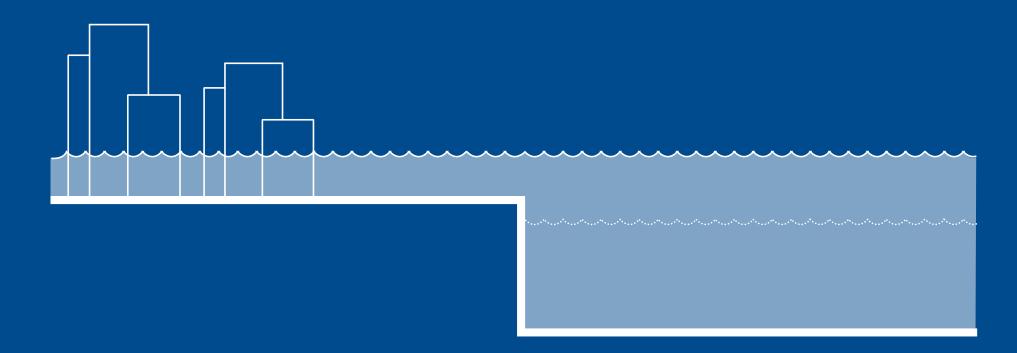
The ESCR Project is being designed to mitigate future climate change and flood risks on Manhattan's East Side.



#### THE EAST SIDE



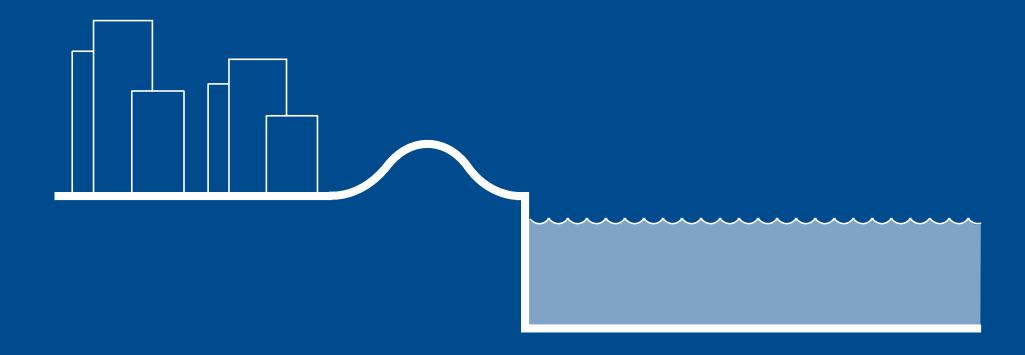
The ESCR Project is being designed to mitigate future climate change and flood risks on Manhattan's East Side.



#### WHAT HAPPENED DURING SANDY?



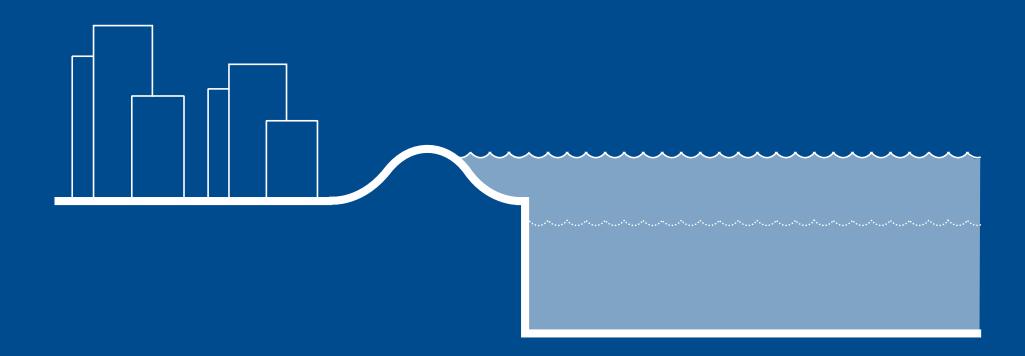
The ESCR Project is being designed to mitigate future climate change and flood risks on Manhattan's East Side.



**BARRIER** 



The ESCR Project is being designed to mitigate future climate change and flood risks on Manhattan's East Side.

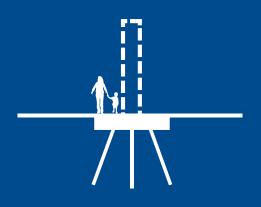


#### **FLOOD PROTECTION**

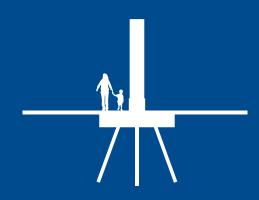


#### **TYPES OF FLOOD MITIGATION**

Options for resiliency have varying forms and levels of reliability: from wide and passive earthen levees to narrow and even removable flood walls and deployable elements.



**DEPLOYABLE** 



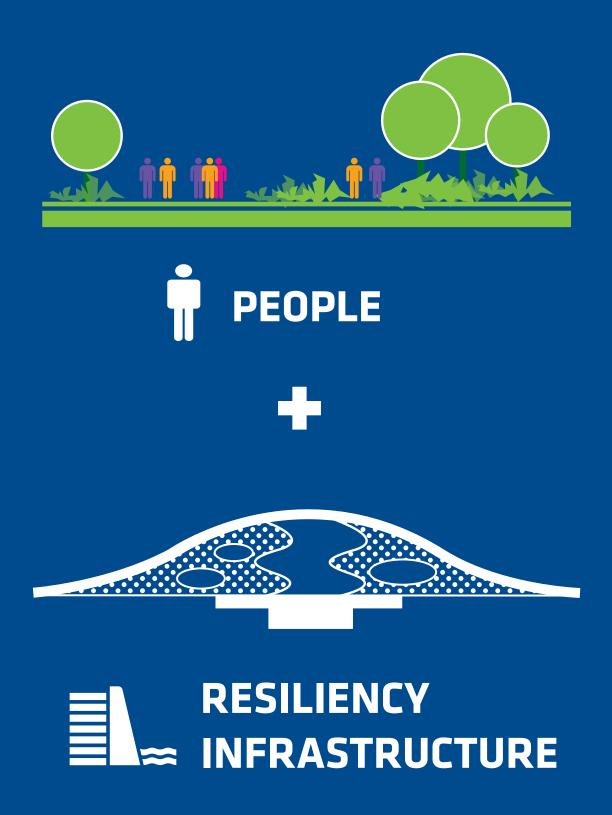
**FLOOD WALL** 



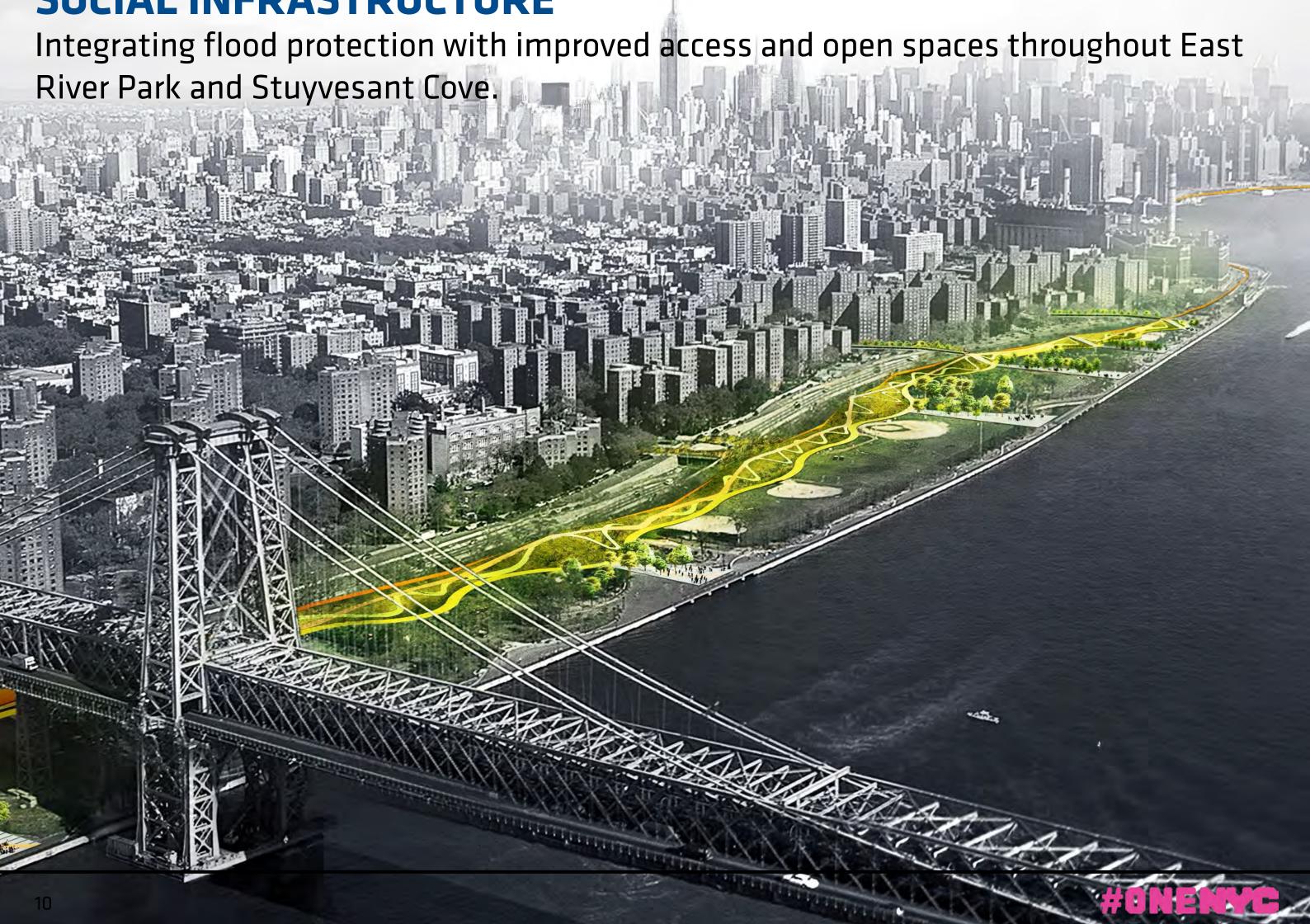
**BERM / LEVEE** 

#### **SOCIAL INFRASTRUCTURE**

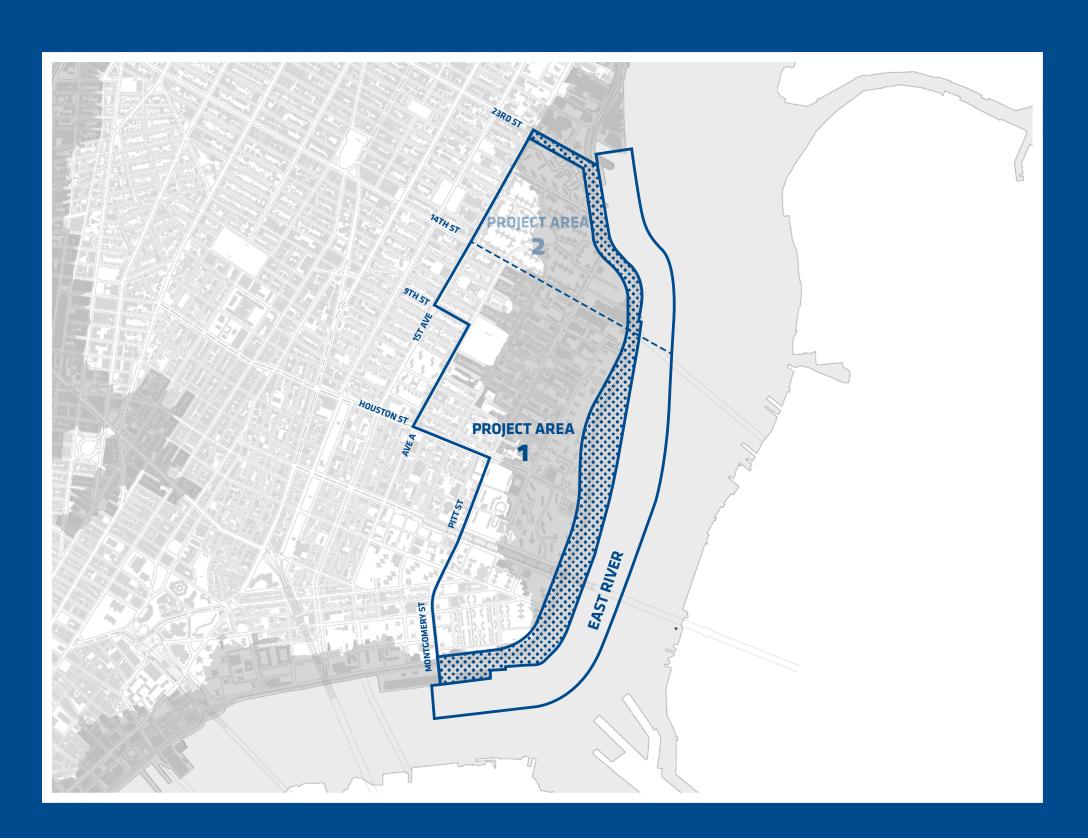
How can resiliency infrastructure double as places and spaces for people?



#### **SOCIAL INFRASTRUCTURE**



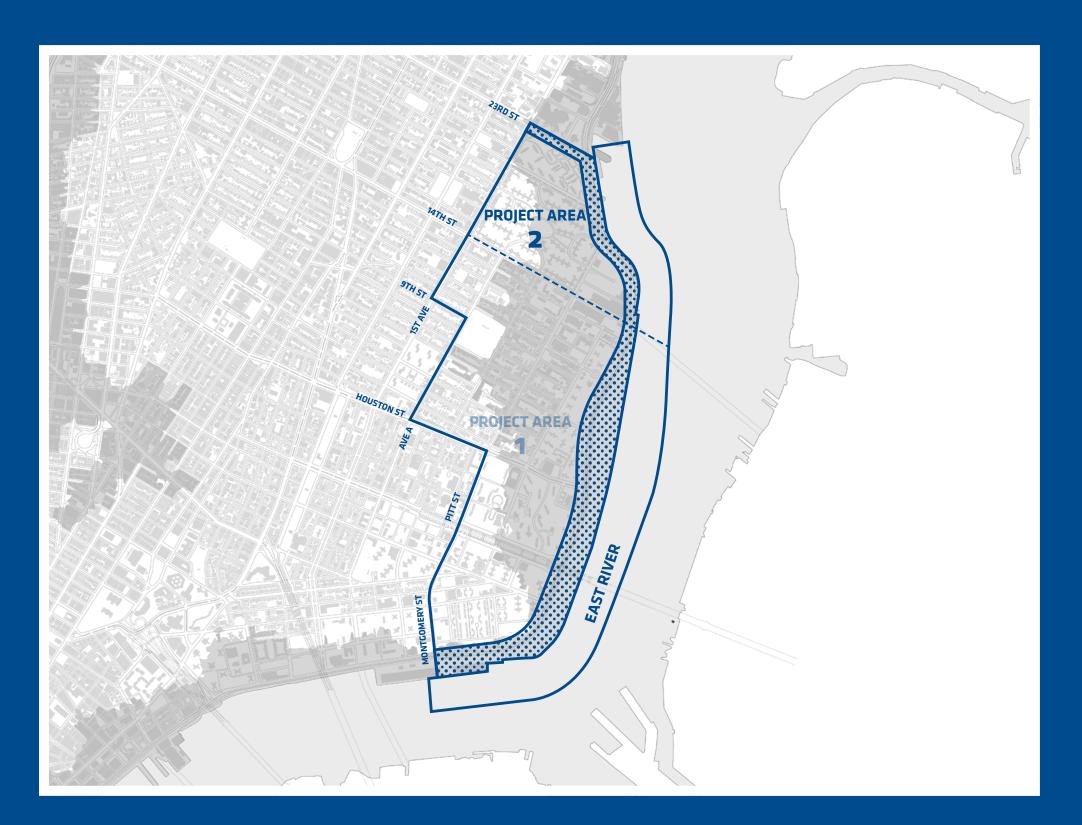
#### **ESCR GOALS AND CHALLENGES - PROJECT AREA 1**



# AREA GOALS AND CHALLENGES:

- PROVIDE ROBUST FLOOD-RISK MITIGATION
- MAINTAIN EXISTING RECREATIONAL USES
- STRENGTHEN CONNECTIONS AND ACCESS TO EAST RIVER PARK
- ENHANCE OPEN SPACE AND ECOLOGY OF THE AREA

#### ESCR GOALS AND CHALLENGES - PROJECT AREA 2



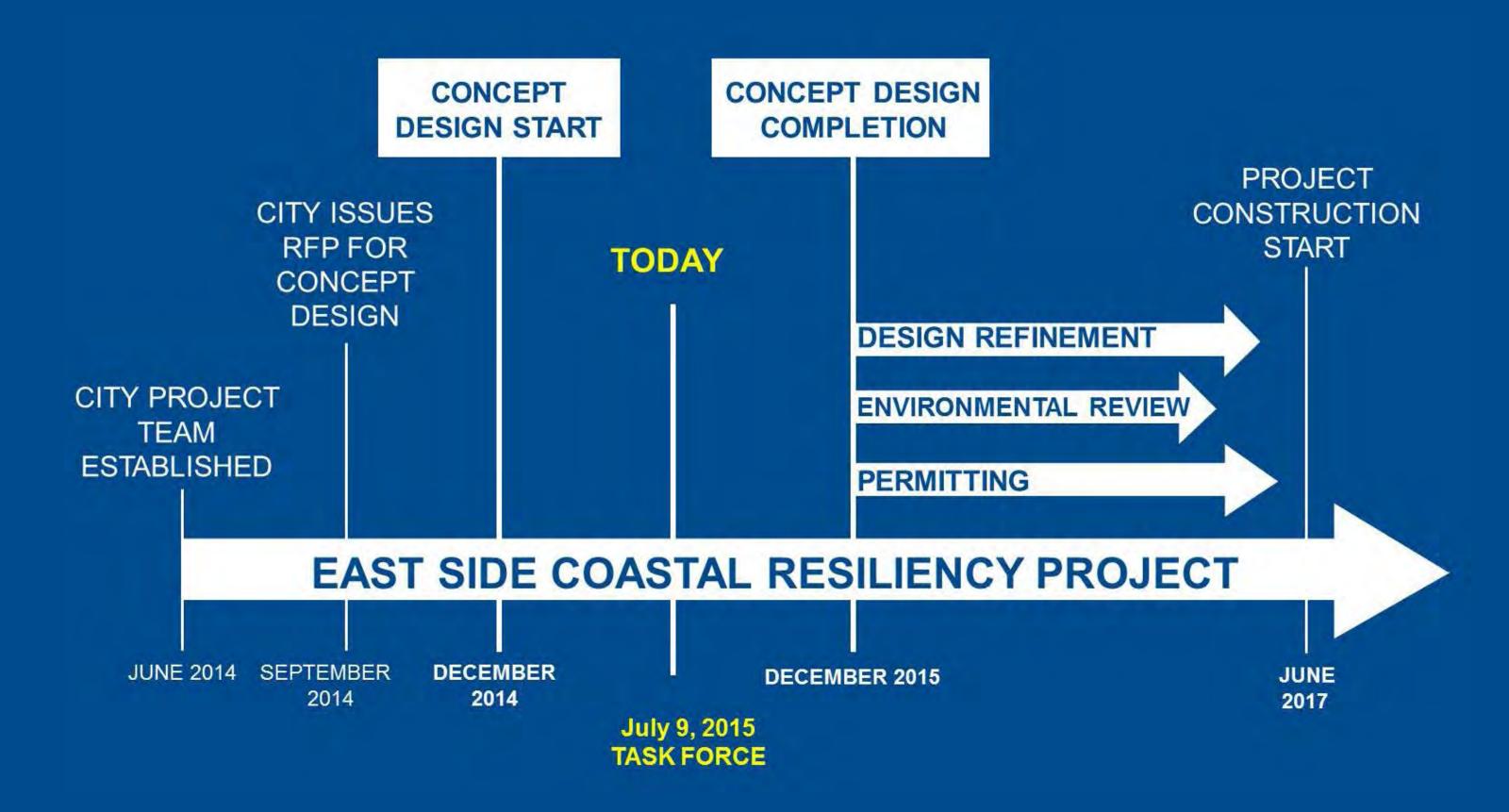
# AREA GOALS AND CHALLENGES:

- PRESERVE SIGHTLINES AND CONNECTIONS TO THE WATERFRONT
- ANTICIPATE FUTURE PROGRAMMING AND USES IN STUYVESANT COVE
- STRENGTHEN NORTH-SOUTH ROUTES
- ADDRESS SAFETY AND ACCESS CONCERNS

# PROJECT SCHEDULE

#### PROJECT TIMELINE

The ESCR Project has an ambitious timeline. We're now past the midpoint of Concept Design, and expect construction commencement in mid-2017.



#### **ESCR CONCEPT DESIGN TIMELINE**

Project Design Work & Community Engagement - Where are we now?



#### **EVALUATION CRITERIA**

Each alternative will be evaluated for eight different criteria.



# PROGRESS OF TECHNICAL STUDIES

#### **EXISTING CONDITIONS STUDIES - PROGRESS TO DATE**

**Sewer Investigations** 

95% - 100%
APRIL JULY



**Inspecting Bridges** 

**60%** - **100%**APRIL JULY



**Inspecting Waterfront Structures** 

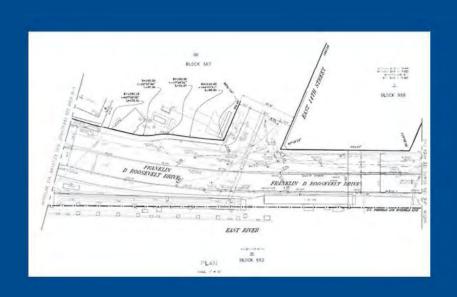
**60%** - **100%**APRIL JULY



#### **EXISTING CONDITIONS STUDIES - PROGRESS TO DATE**

**Surveying the Land** 

95% - 97%
APRIL JULY



**Examining Flood Risk** and Water Flow

**50% - 70%**APRIL JULY



**Testing the Soil** 

10% - 70%

APRIL JULY



#### **EXISTING CONDITIONS STUDIES - PROGRESS TO DATE**

Studying Pedestrian and Bicycle Usage

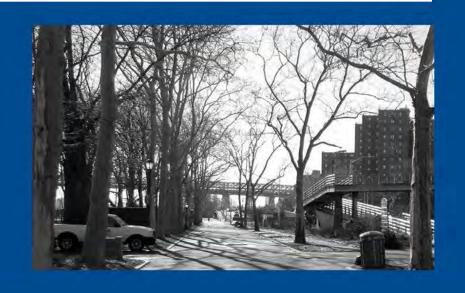
**5%** - **60%**APRIL JULY



Making an Inventory of Existing Trees

0% - 60%

APRIL JULY



# COMMUNITY FEEDBACK

#### STAKEHOLDER ENGAGEMENT

Over 200 residents attended the second round of community engagement workshops on 05/19, 05/20, and 05/28.



PROJECT AREA 1 WORKSHOP: MAY 28TH, CHURCH OF ST. BRIGID



PROJECT AREA 2 WORKSHOP: MAY 19TH, WASHINGTON IRVING HS

#### STAKEHOLDER ENGAGEMENT

In addition to the community engagement workshops and the CB3/CB6 Task Force meetings, the ESCR team is also collecting input from local CBOs and stakeholders.





# OPEN SPACE & RECREATION, TRANSPORTATION

CB3 & CB6
Hester St Collaborative
Lower East Side Ecology Centre
OLS Sparkle Little League
Partnerships for Parks
Solar One
Transportation Alternatives

#### **NYCHA TENANT ASSOCIATIONS**

Baruch
Campos Plaza
Riis
Rutgers
Smith
Vladeck
Wald

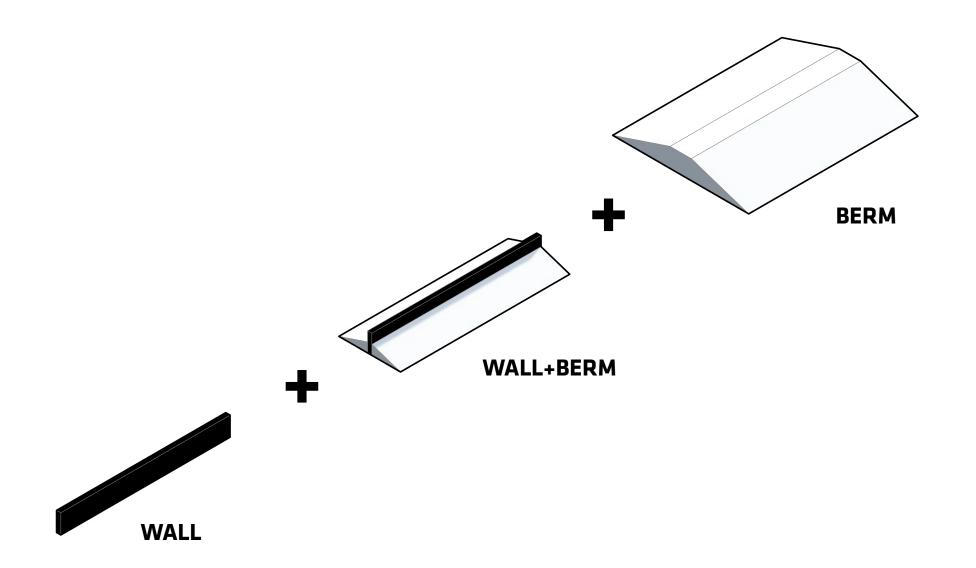
# PROJECT AREA ONE DESIGN ANALYSIS AND STUDIES

#### **EAST RIVER PARK**

Existing Conditions - 2050s 100-year floodplain

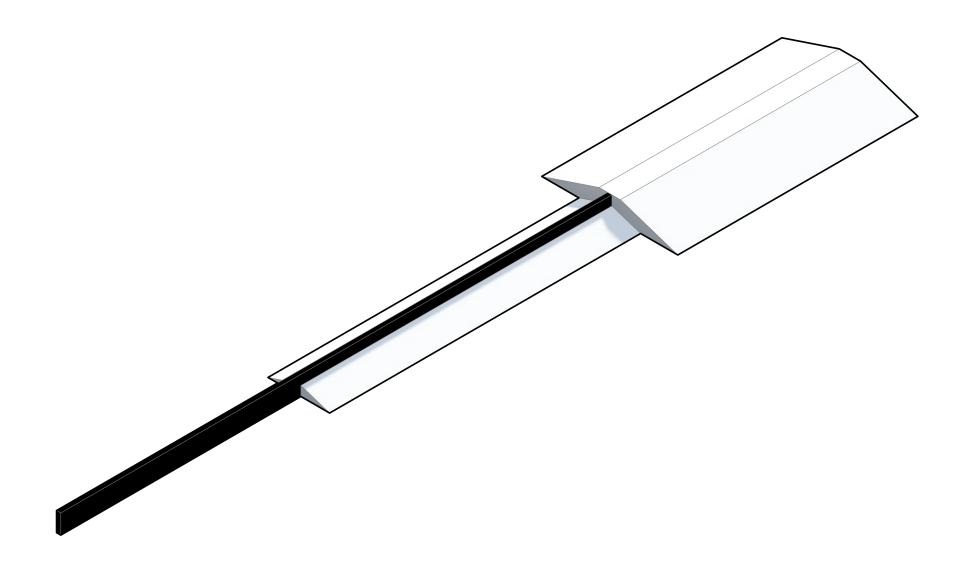


### FLOOD PROTECTION ELEMENTS

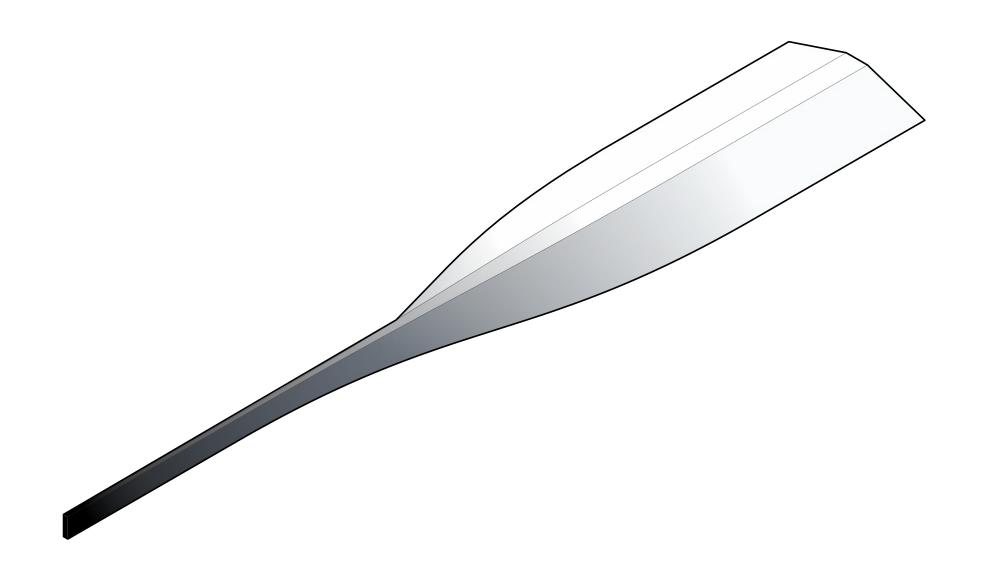


#### **FLOOD PROTECTION ELEMENTS**

THREE DIFFERENT ELEMENTS FORM THE TOOLKIT OF FLOOD PROTECTION,
BASED ON PASSIVE SPACE AVAILABLE

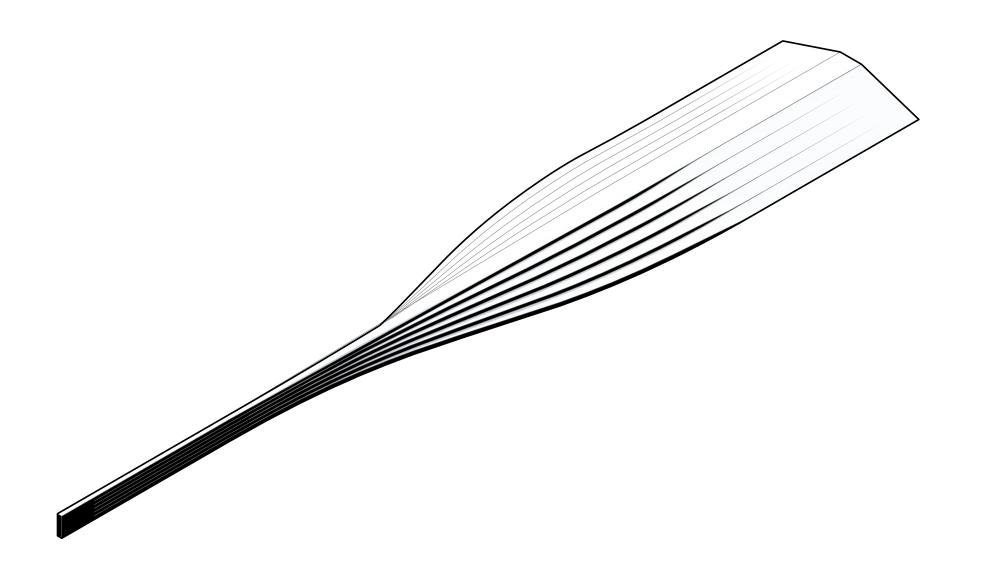


#### **CONNECTING THE ELEMENTS**



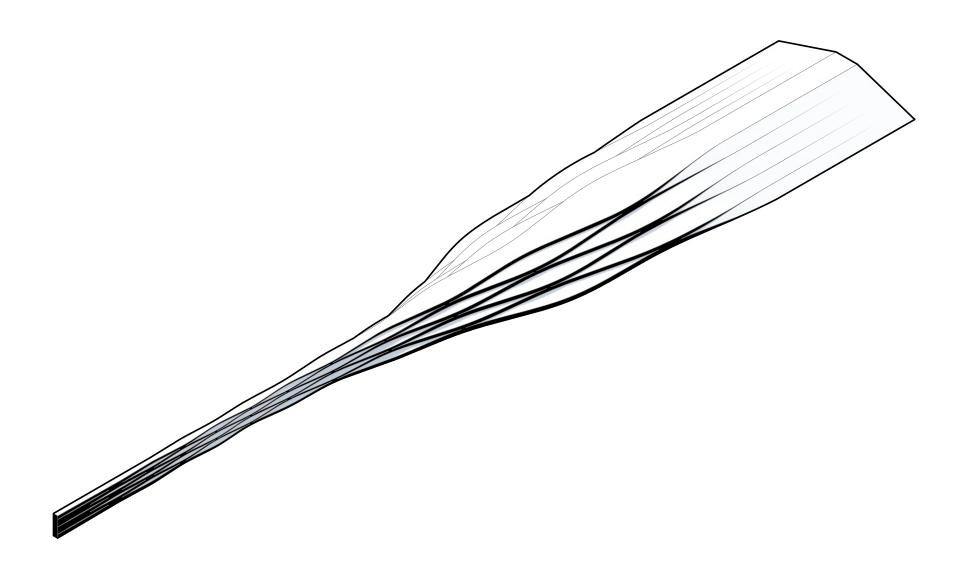
#### **SOFTENING TRANSITIONS**

SMOOTHING BETWEEN ELEMENTS



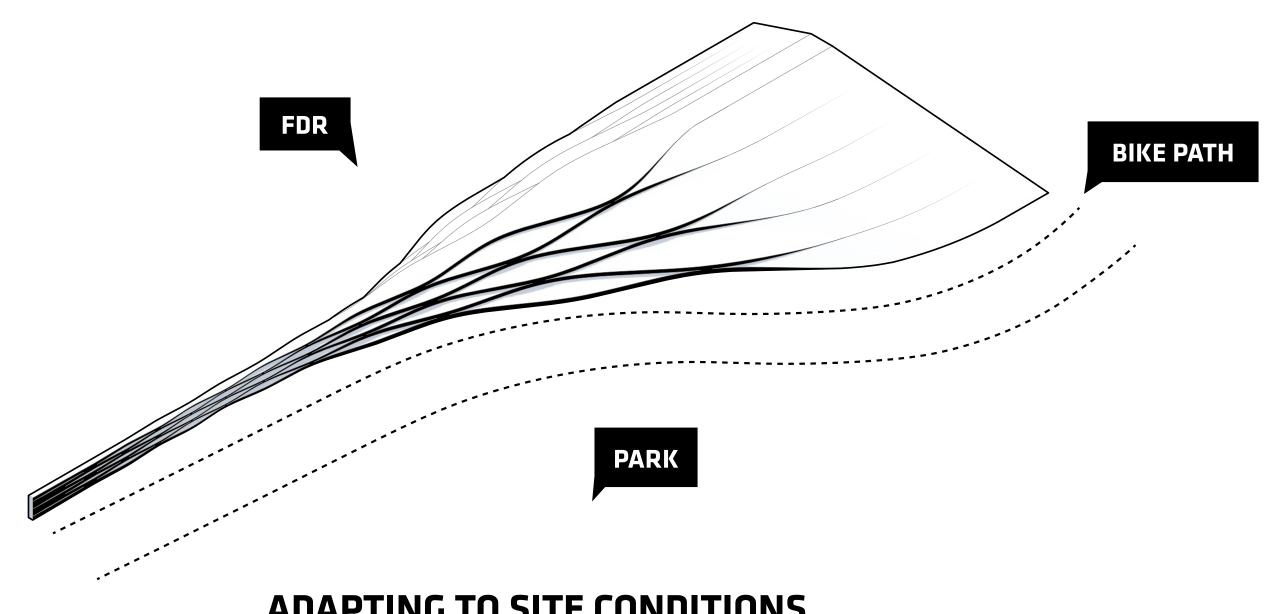
#### **TERRACING**

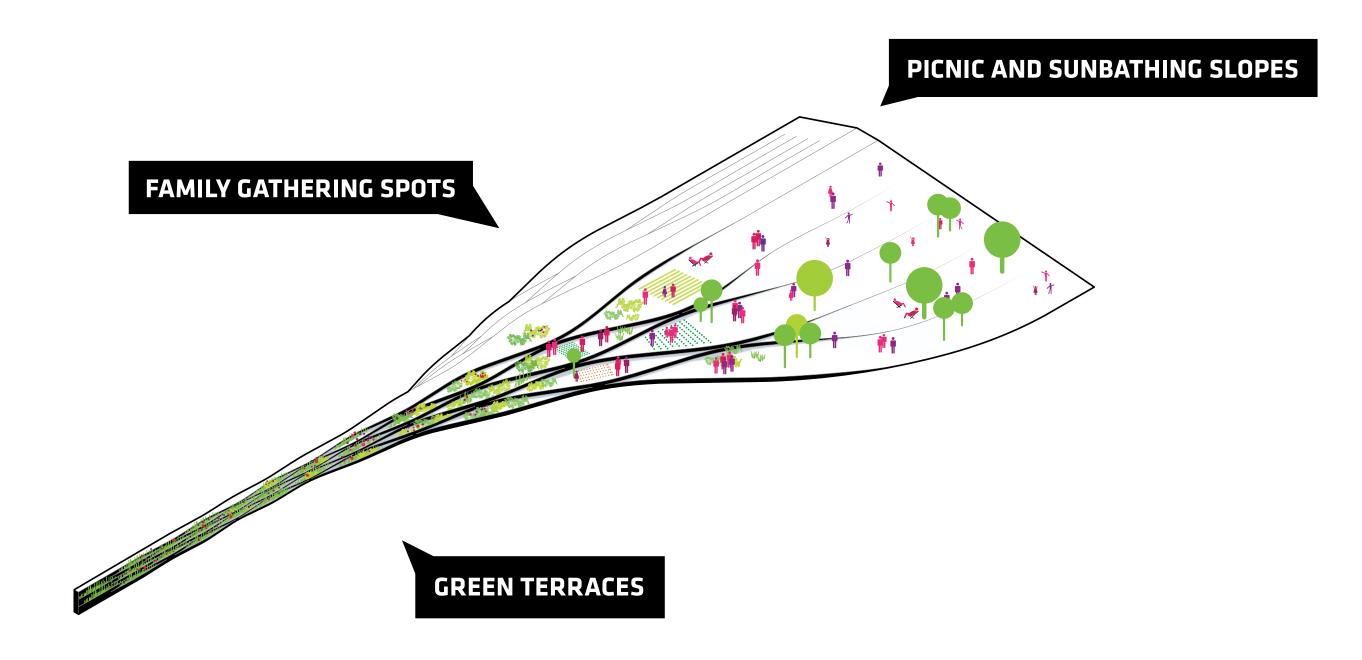
TERRACES STABILIZE THE TERRAIN WHEN SLOPES ARE GREATER THAN 3:1



#### **WEAVING**

WEAVING CREATES POCKETS AND TERRACES FOR GARDENS AND OTHER ACTIVITIES





#### **SUPPORTING PARK DIVERSITY**

DIFFERENTIATED TERRACES AND SLOPES PROVIDE FOR A DIVERSE AND VIBRANT PARK EXPERIENCE



# BRIDGE CONNECTIONS COMMUNITY FEEDBACK AND DESIGN STUDIES

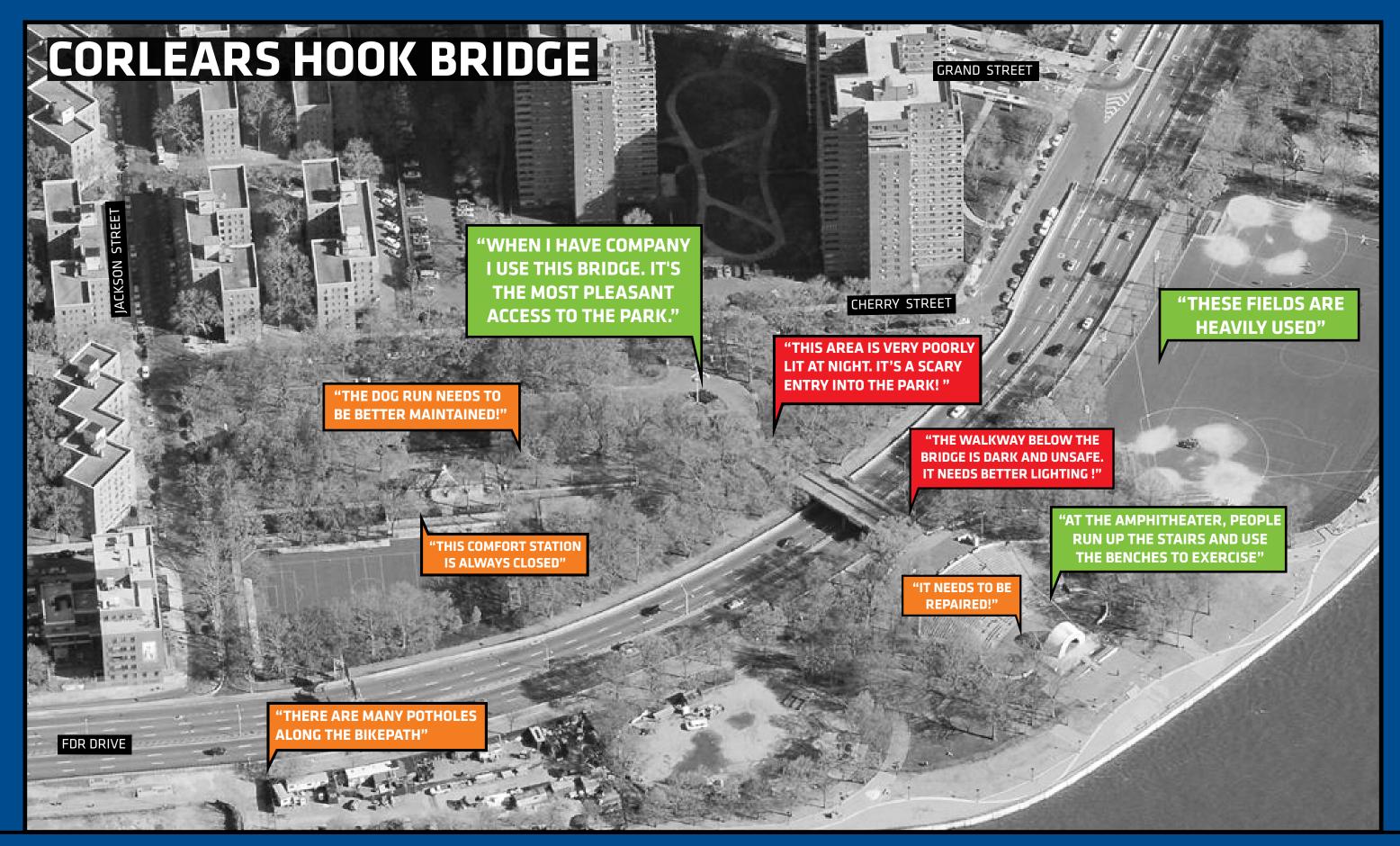
#### **ACCESS TO EAST RIVER PARK**

The ESCR team gathered feedback about connections to East River Park during the community engagement workshops on 05/20 and 05/28.

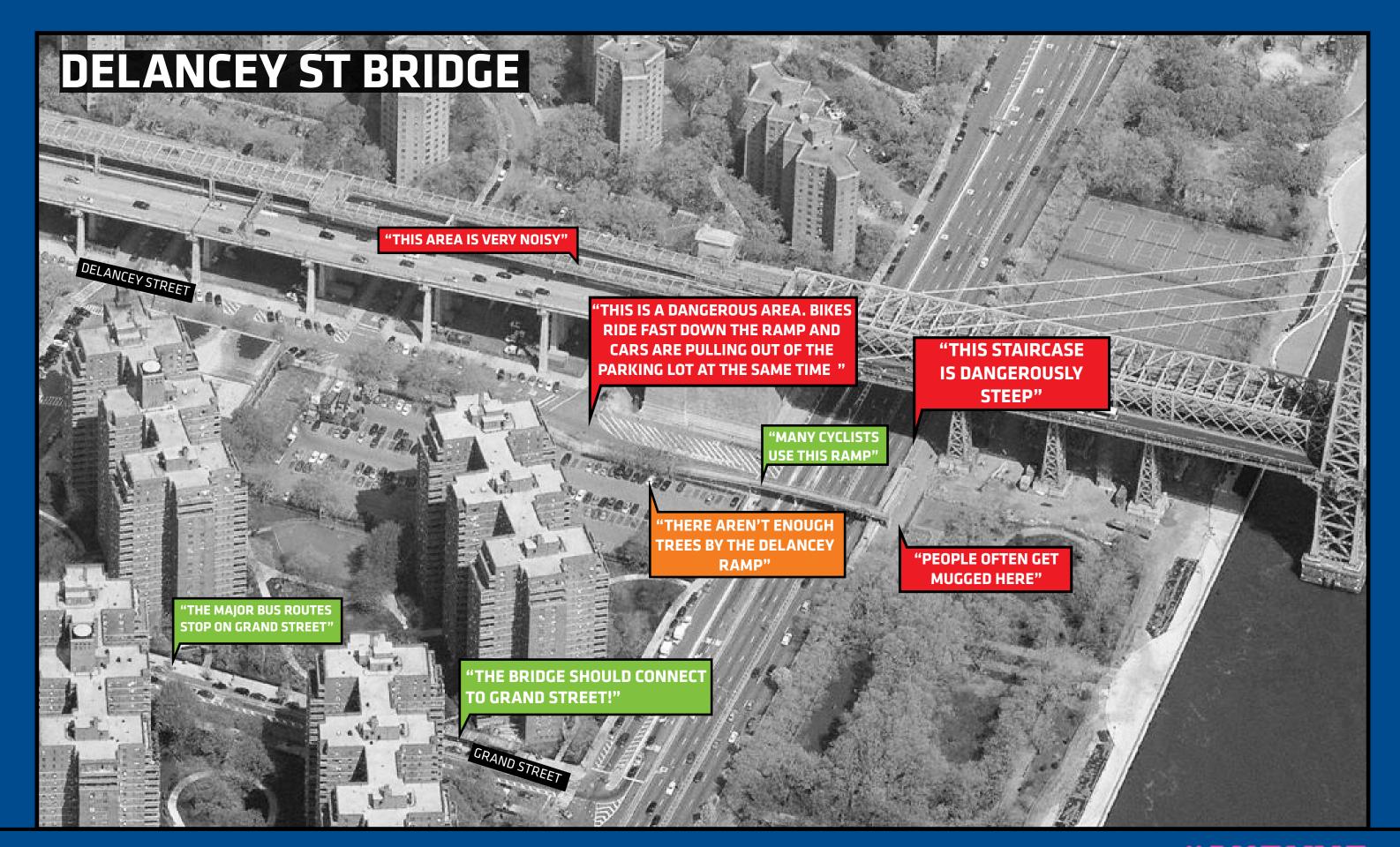


#### **ACCESS TO EAST RIVER PARK**

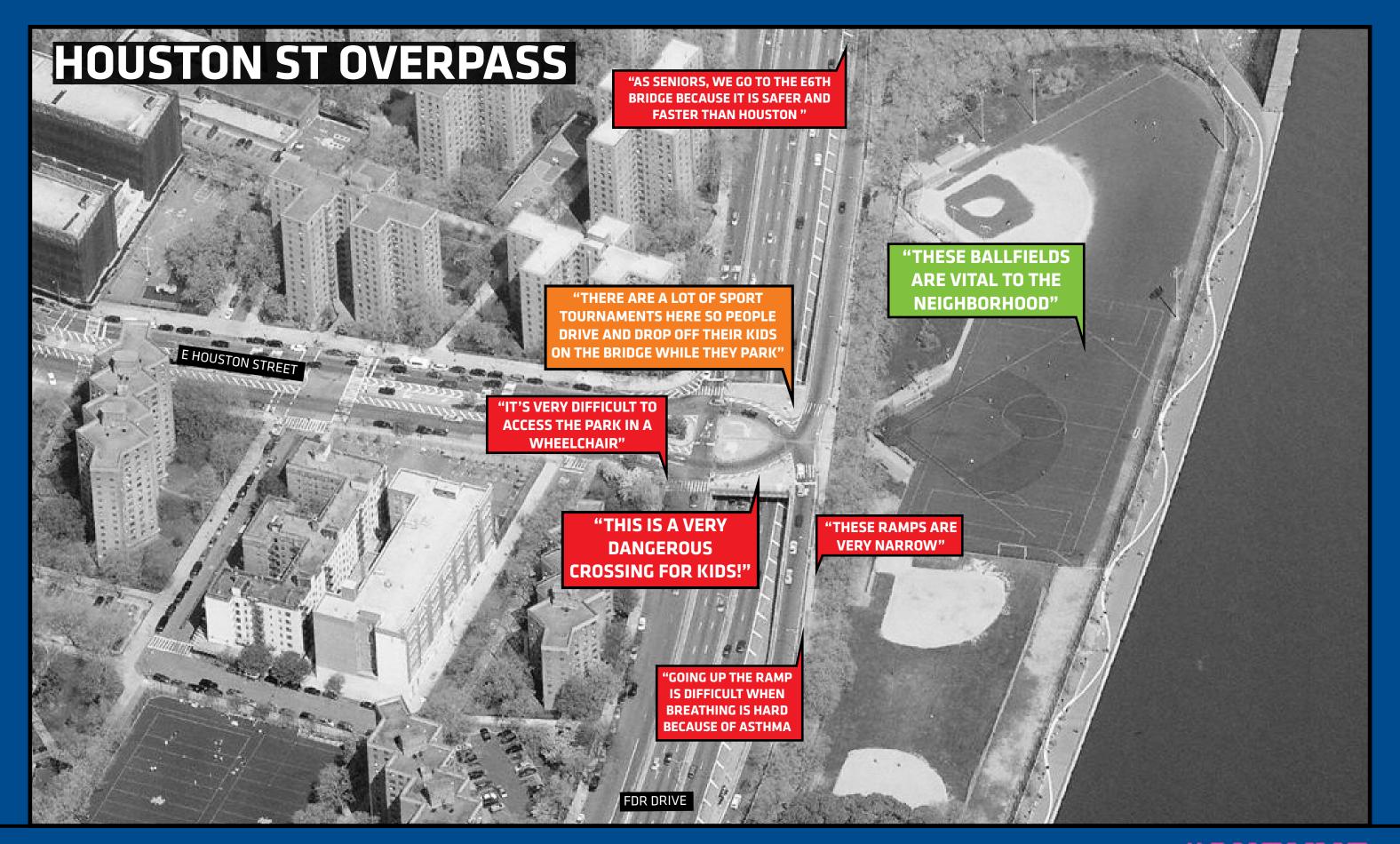
Community feedback on the Corlears Hook bridge



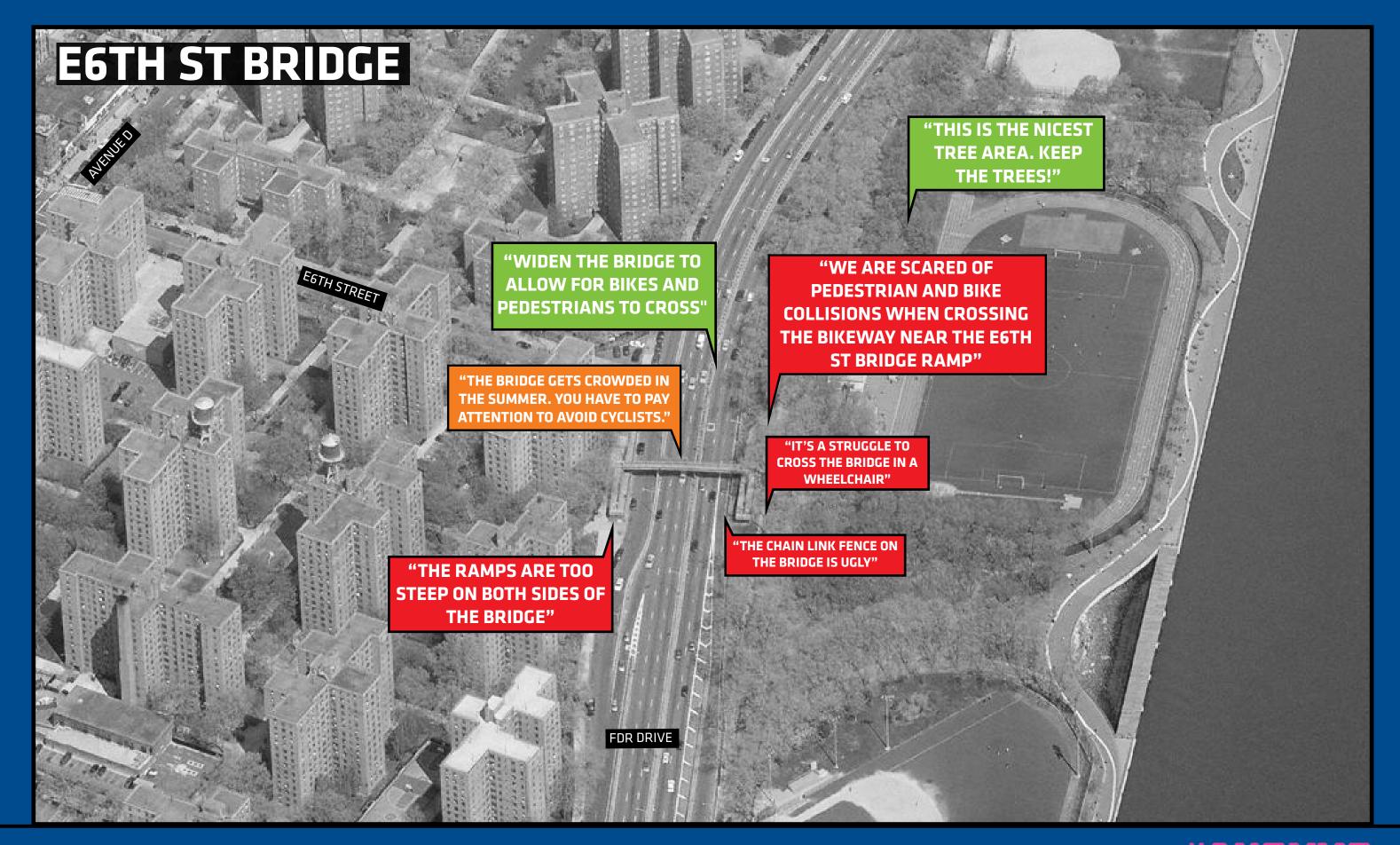
Community feedback on the Delancey St bridge



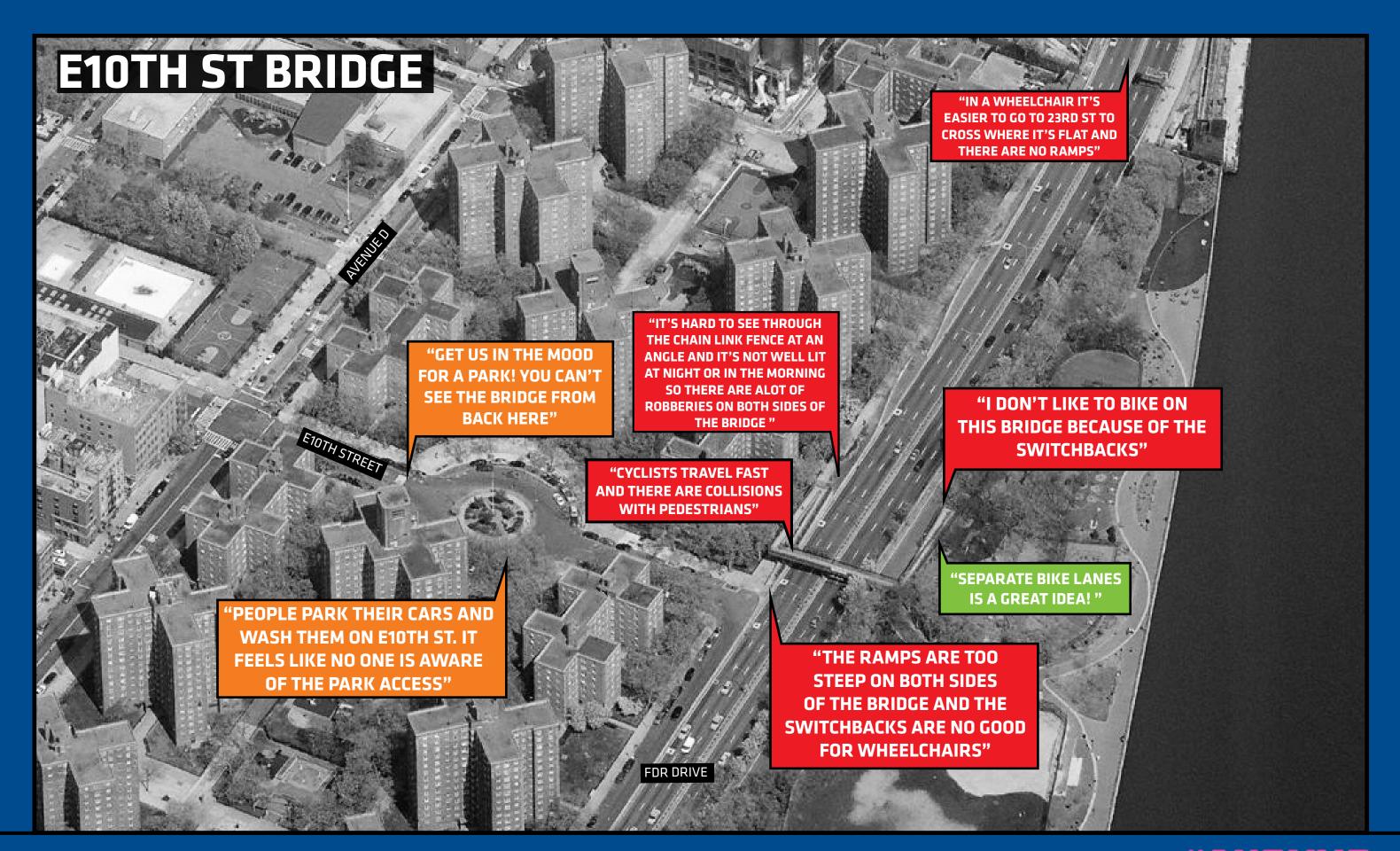
Community feedback on the Houston St overpass



Community feedback on the E6th St bridge



Community feedback on the E10th St bridge



Community feedback - Suggestions for improved access to East River Park

#### **COMMUNITY SUGGESTIONS:**



1) PROVIDE FLUID ACCESS TO THE PARK VIA GENTLE RAMPS



2) WIDEN THE BRIDGES TO ALLOW FOR SEPARATE BIKE AND PEDESTRIAN CIRCULATION



3) ANNOUNCE ACCESS TO THE PARK THROUGH LANDSCAPING



4) ADDRESS SAFETY CONCERNS BY IMPROVING LIGHTING



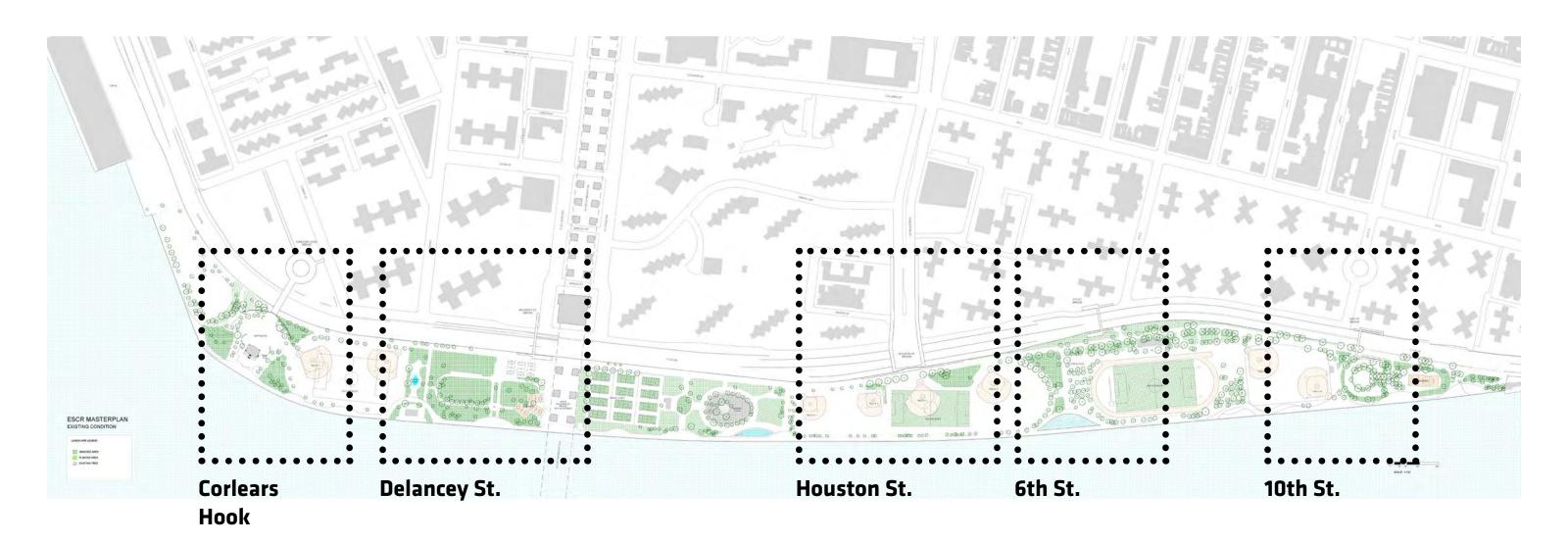
**5) INCORPORATE SIGNAGE** 



6) CONSIDER PROGRAMMING ASSOCIATED WITH ACCESS POINTS

#### **MAY WORKSHOPS**

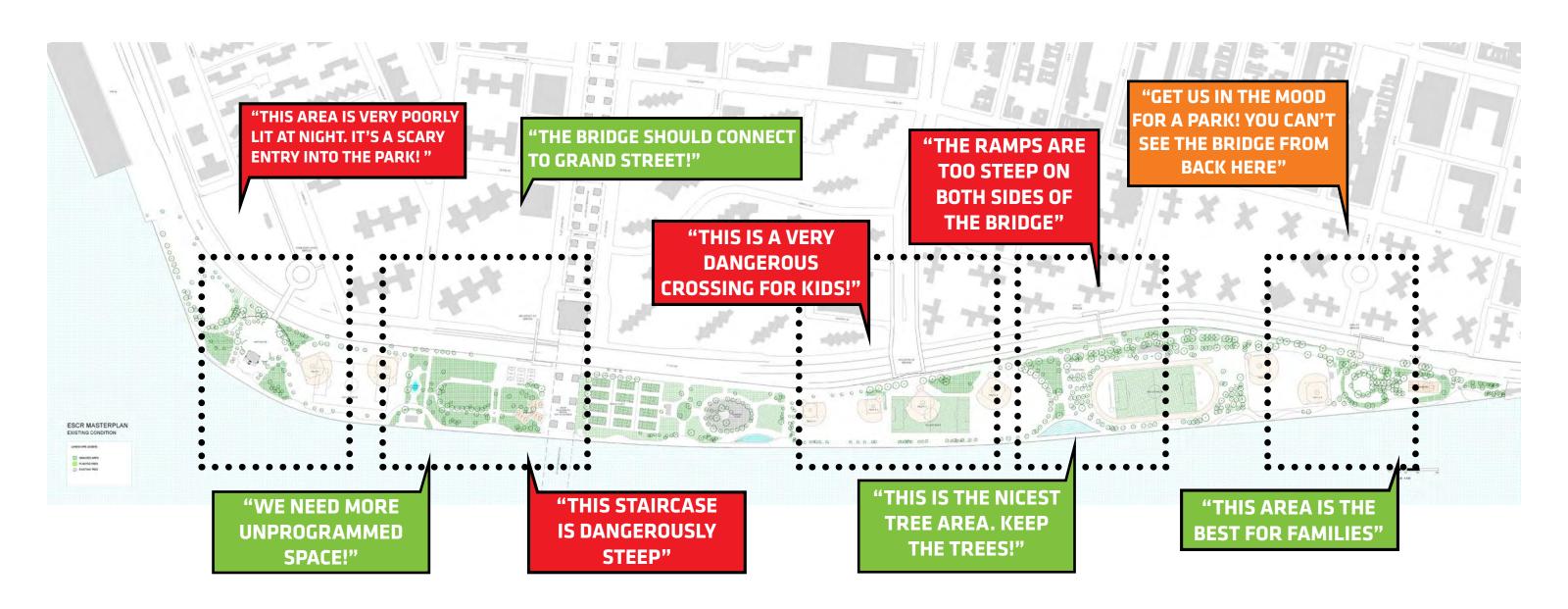
Five connection points were discussed during May design workshops:



#### **ACCESS POINTS**

#### **COMMUNITY FEEDBACK**

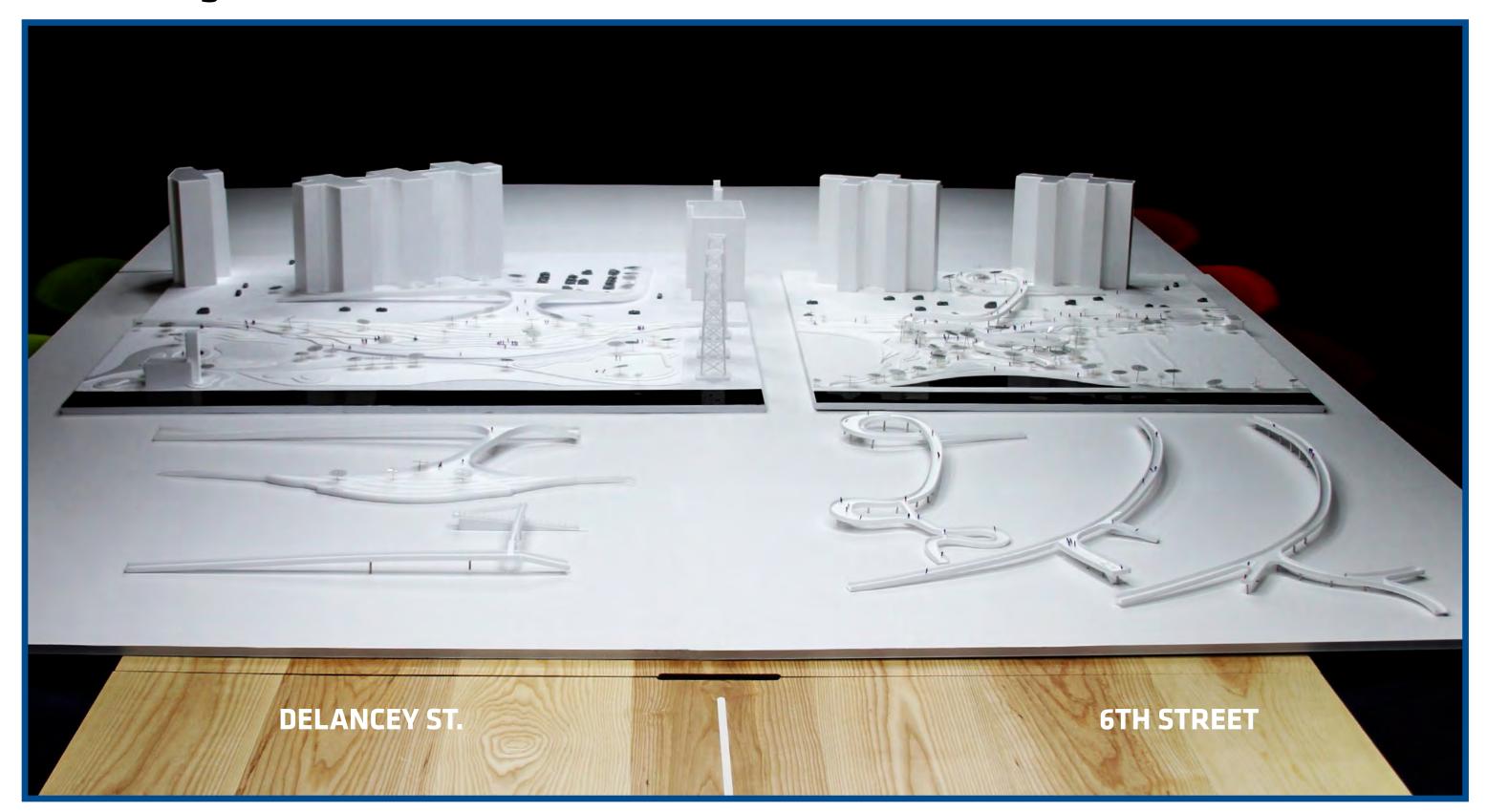
Concerns, likes, and dislikes were voiced about existing conditions in these areas of the park:



#### **COMMUNITY FEEDBACK**

#### **JULY WORKSHOPS - DESIGN STUDIES**

Physical models are being developed to engage residents and stakeholders in discussion of trade-offs, pros, and cons of the options with respect to cost, reliability, urban design value, and other factors.



# PROJECT AREA TWO DESIGN ANALYSIS AND STUDIES

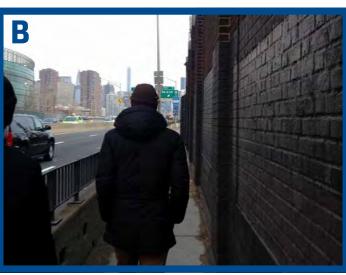
#### **SEGMENT A - CON-ED NARROWS**



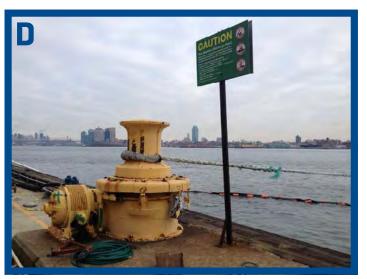
#### **SEGMENT A - CON-ED NARROWS**

#### **EXISTING CONDITIONS**







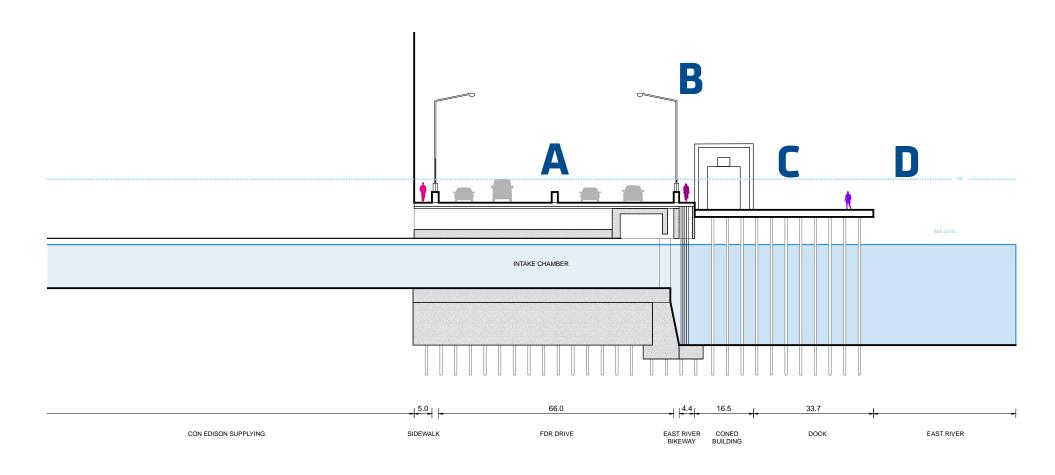


**FDR** 

30" NARROWS ALONG
CON-ED HEAD HOUSE

**CON-ED RECEIVING PIER** 

**VIEWS ACROSS EAST RIVER** 



#### **SEGMENT B - CAPT. PATRICK J. BROWN WALKWAY**



# SEGMENT B - CAPT. PATRICK J. BROWN WALKWAY EXISTING CONDITIONS







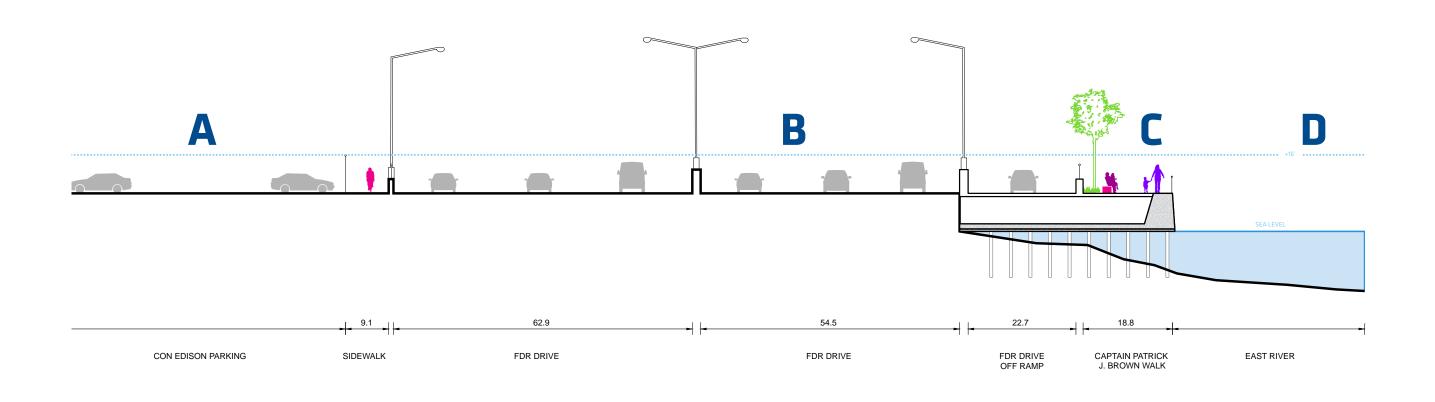


CON-ED PARKING LOT

**FDR DRIVE** 

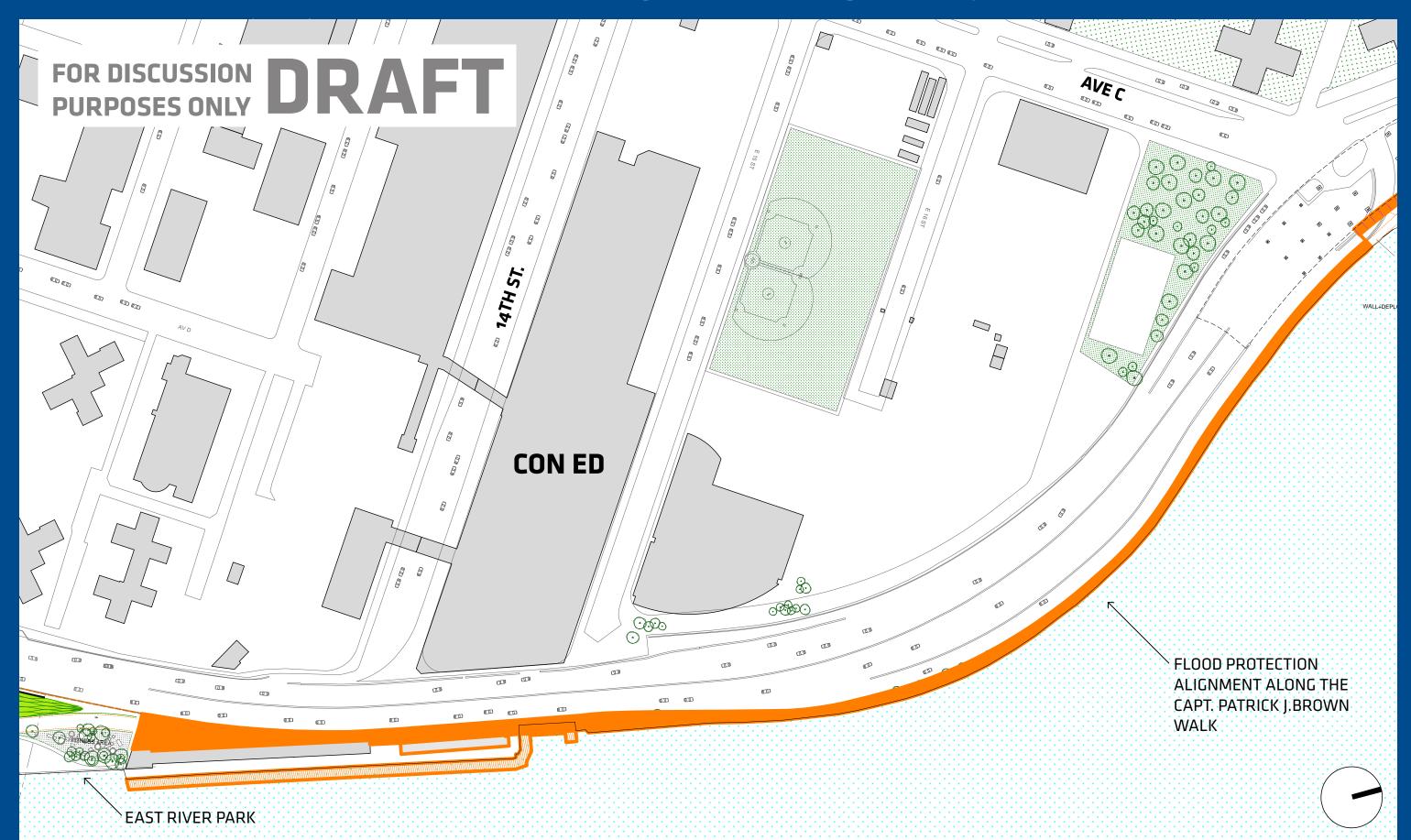
**CAPT. PATRICK J BROWN WALK** 

DISTANT VIEWS TO U.N.
AND EAST RIVER



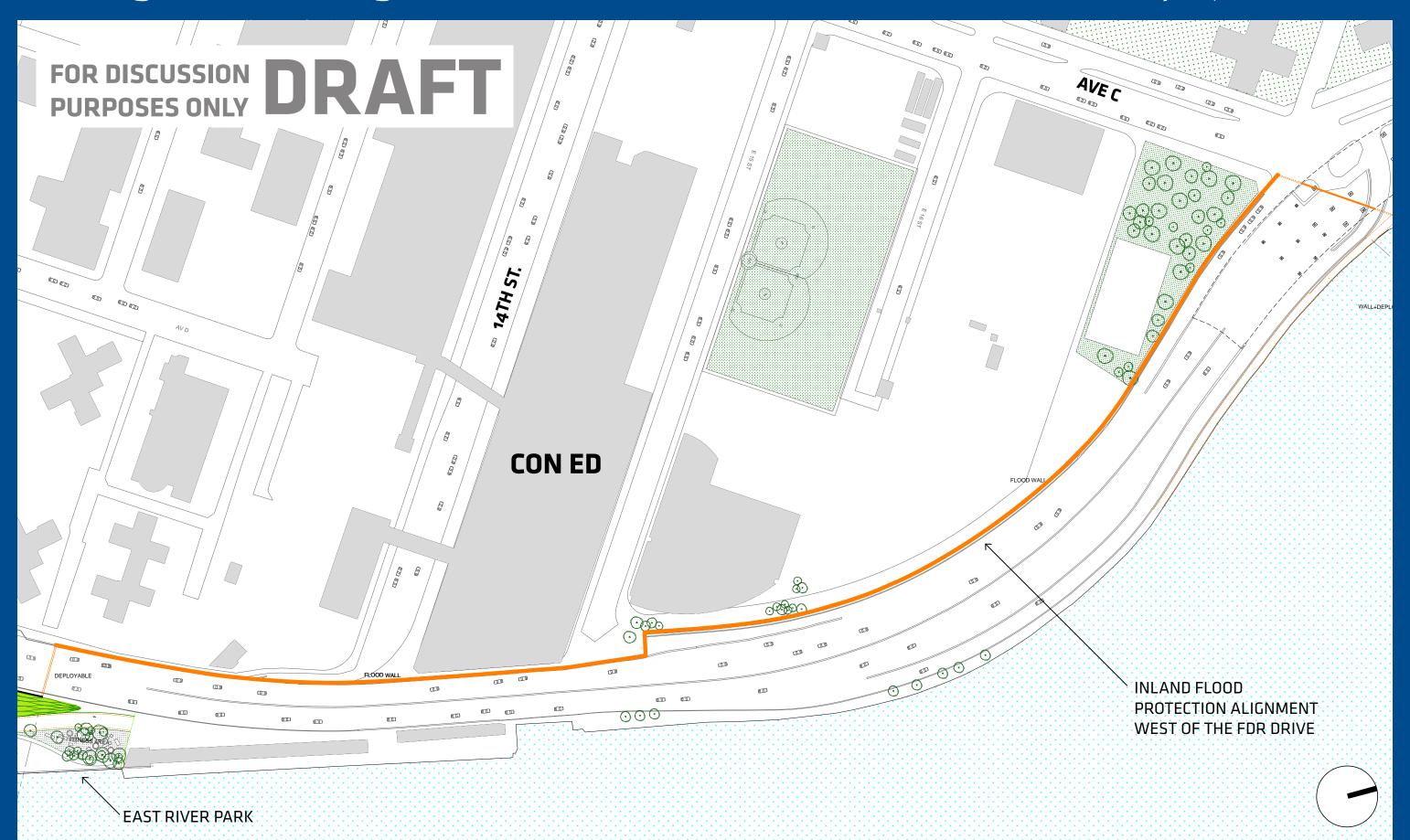
#### **SEGMENTS A+B - ALIGNMENT STUDY**

After much investigation, sub-surface constraints have presented a number of technical and cost constraints to an alignment along the Capt. Patrick J. Brown Walk.



#### **SEGMENTS A+B - ALTERNATIVE ALIGNMENT**

As a result, a more feasibile alignment for this area has been identified inland - allowing for cost savings that could be transferred to other areas of the project.



#### **SEGMENTS C+D - STUYVESANT COVE PARK AND FDR VIADUCT**



#### **SEGMENTS C+D - STUYVESANT COVE PARK AND FDR VIADUCT**

#### **EXISTING CONDITIONS**

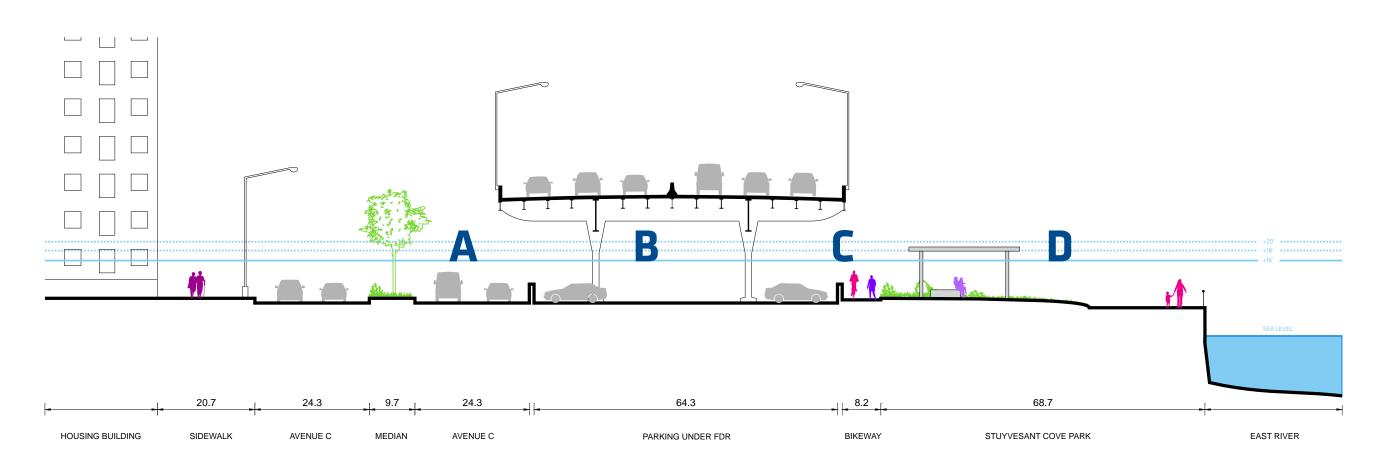








AVENUE C UNDER-FDR BIKE PATH STUYVESANT COVE PARK

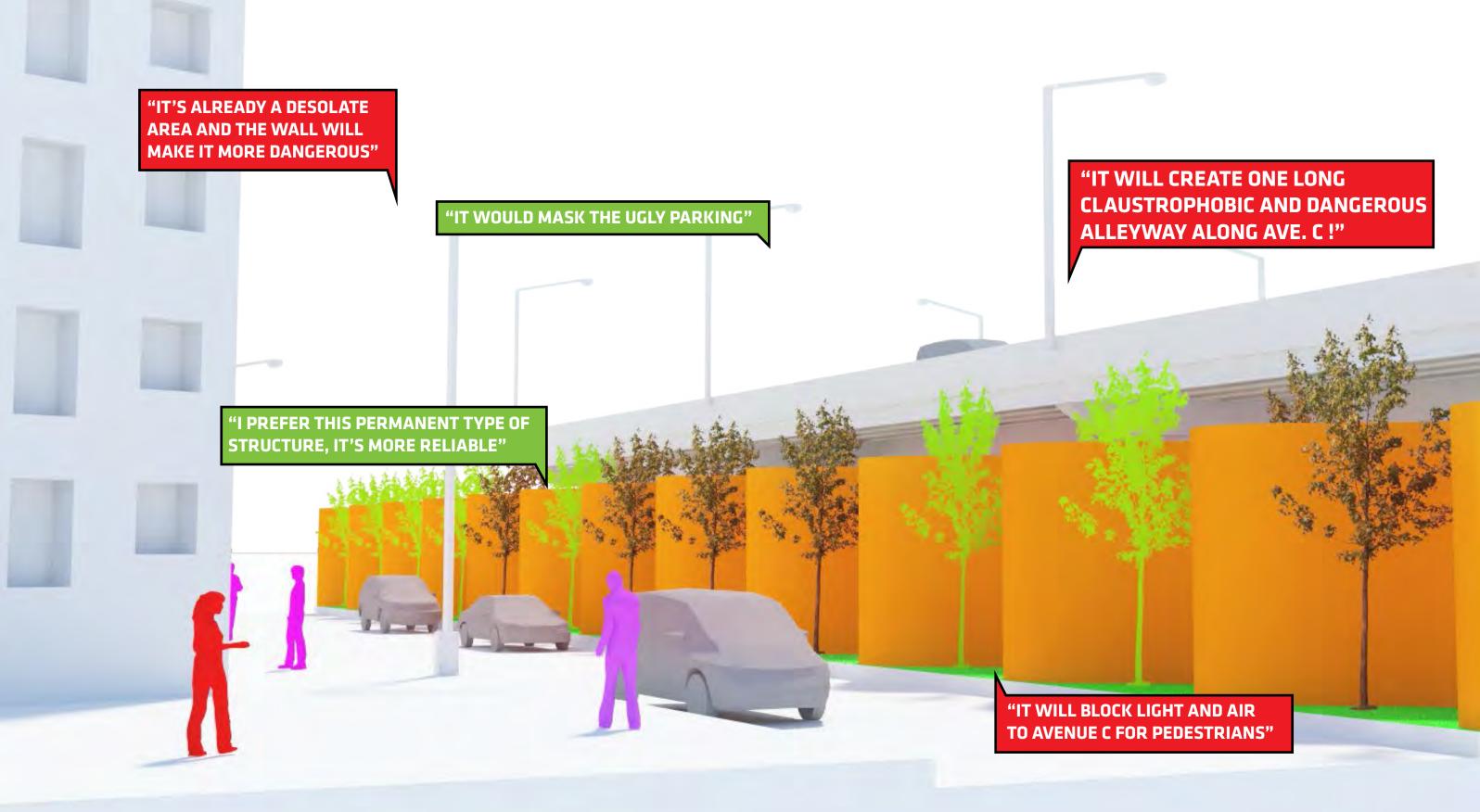


# STUYVESANT COVE ALIGNMENT COMMUNITY ENGAGEMENT FINDINGS

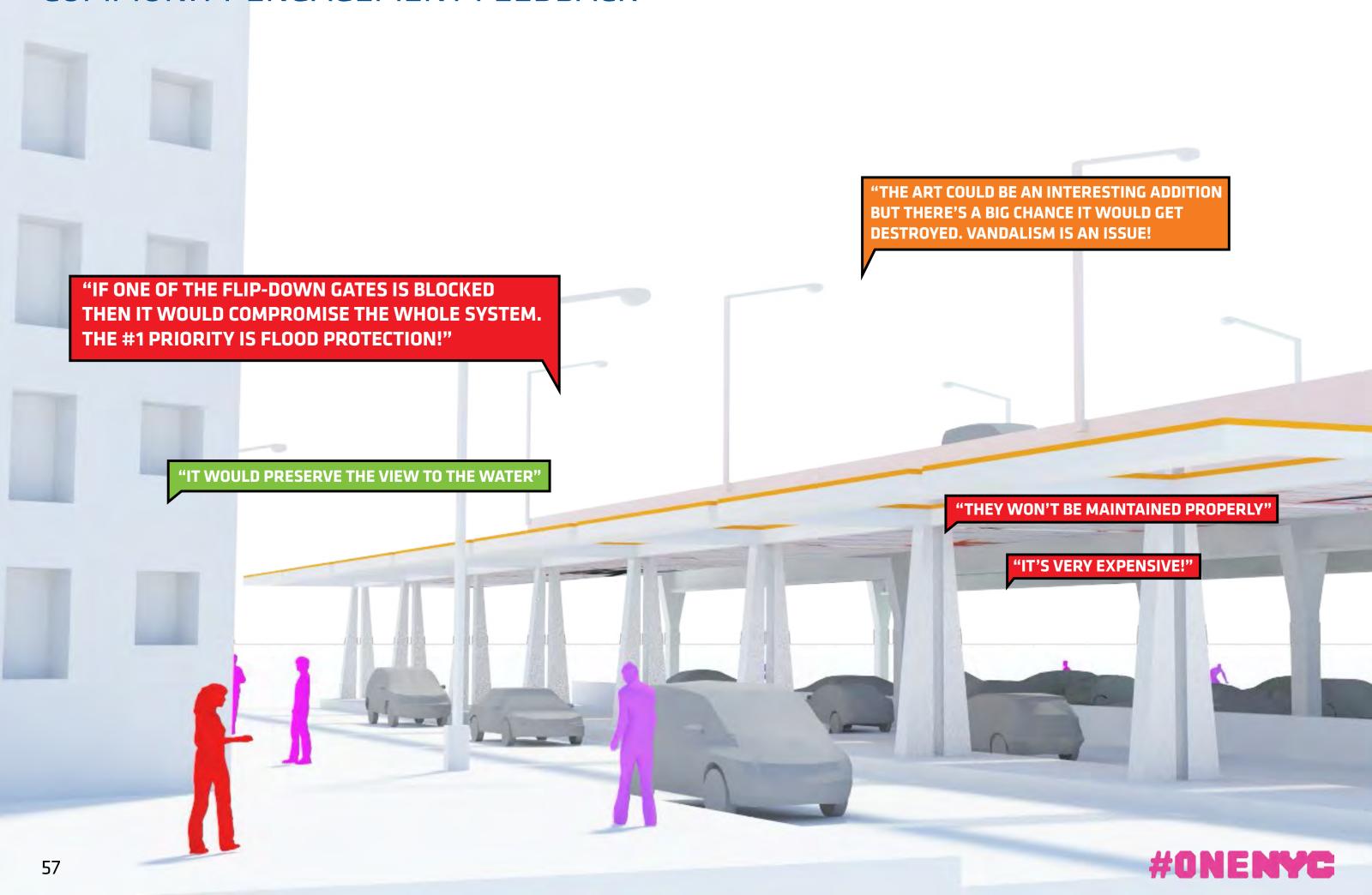
The ESCR team gathered feedback about the pros and cons of each flood protection type for Stuyvesant Cove during the community engagement workshop on 05/19.



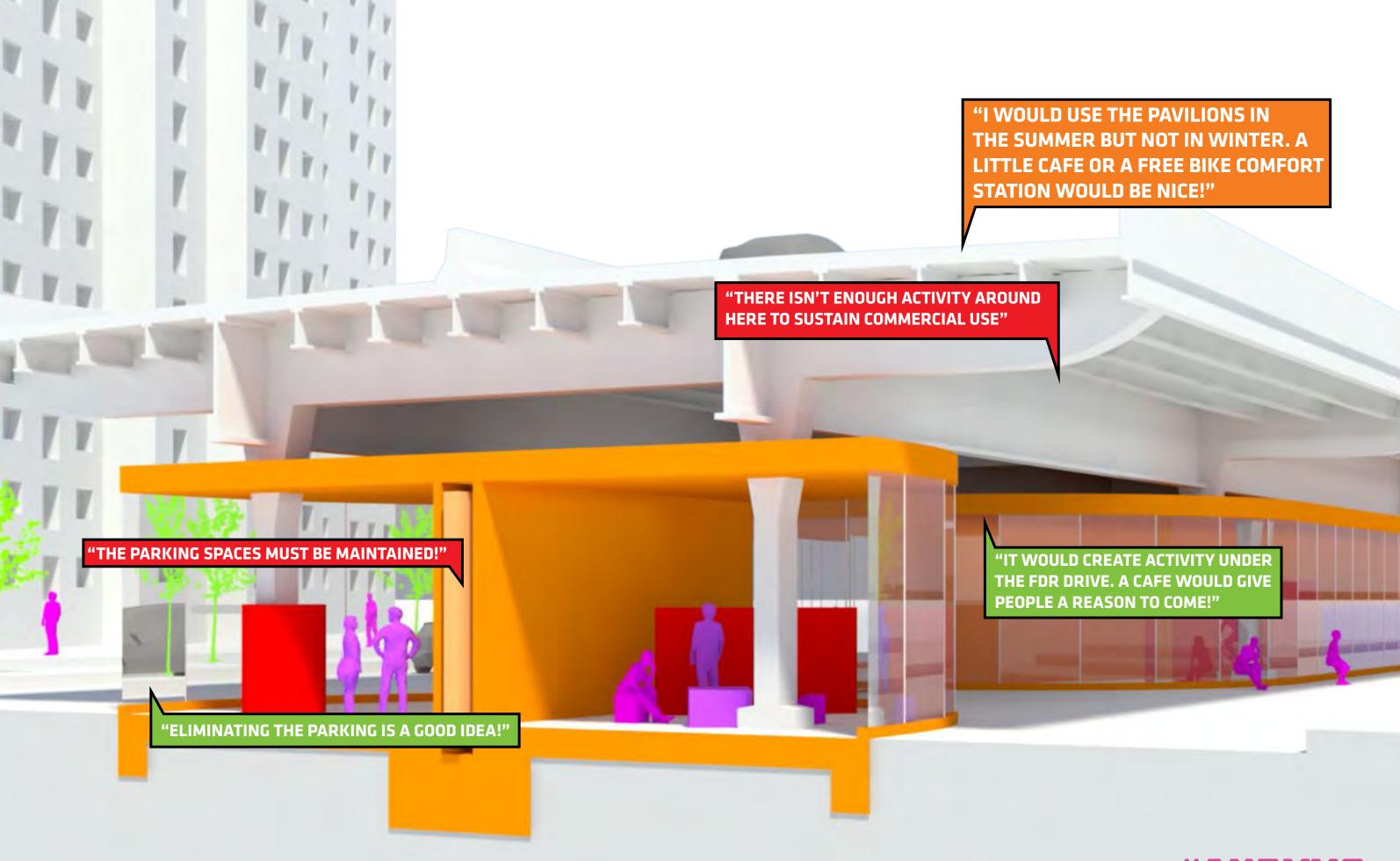
#### STUYVESANT COVE ALIGNMENT - WIGGLE WALL



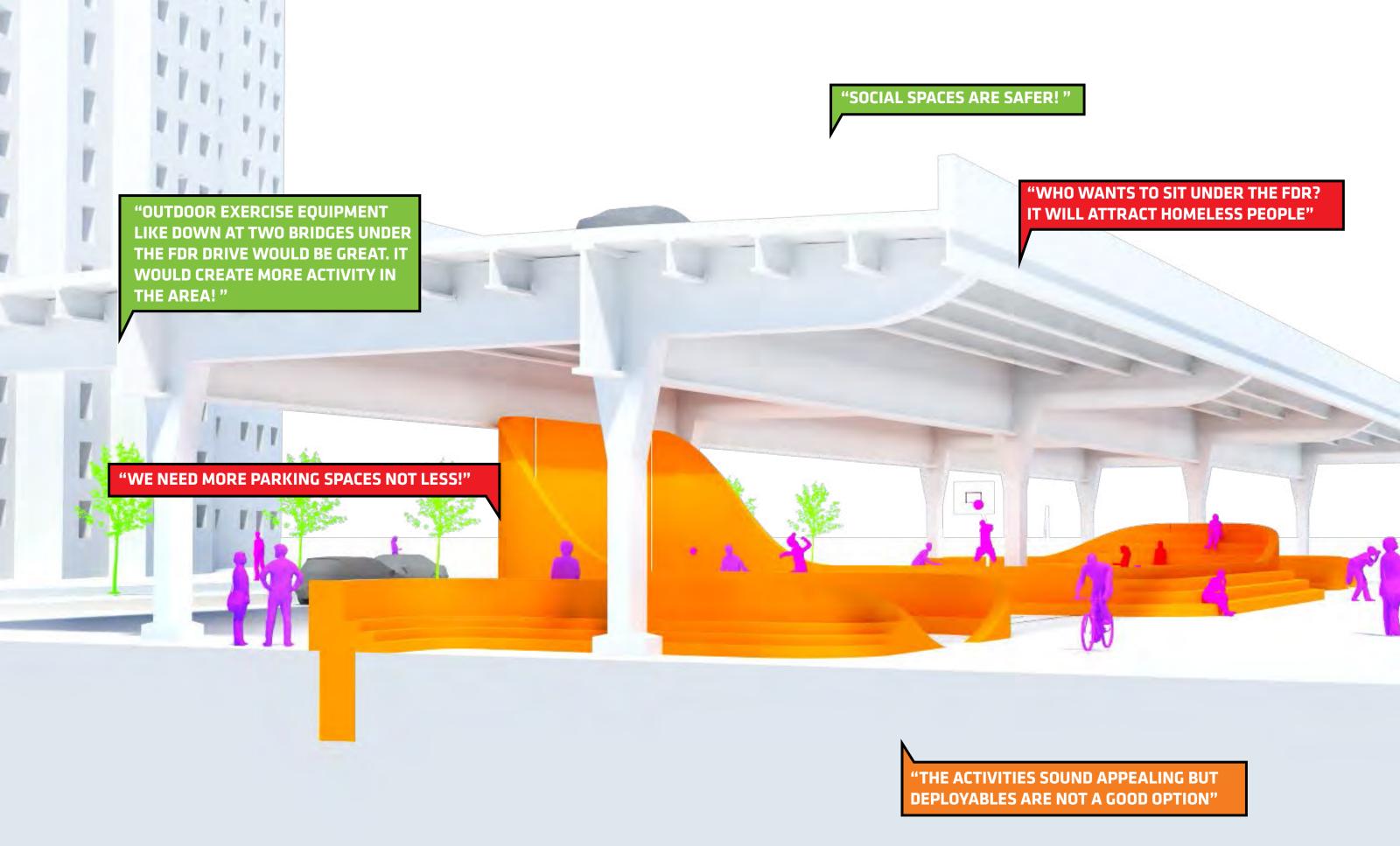
#### **STUYVESANT COVE ALIGNMENT - FLIP-DOWN CANOPY**



#### **STUYVESANT COVE ALIGNMENT - PROTECTIVE PAVILIONS**

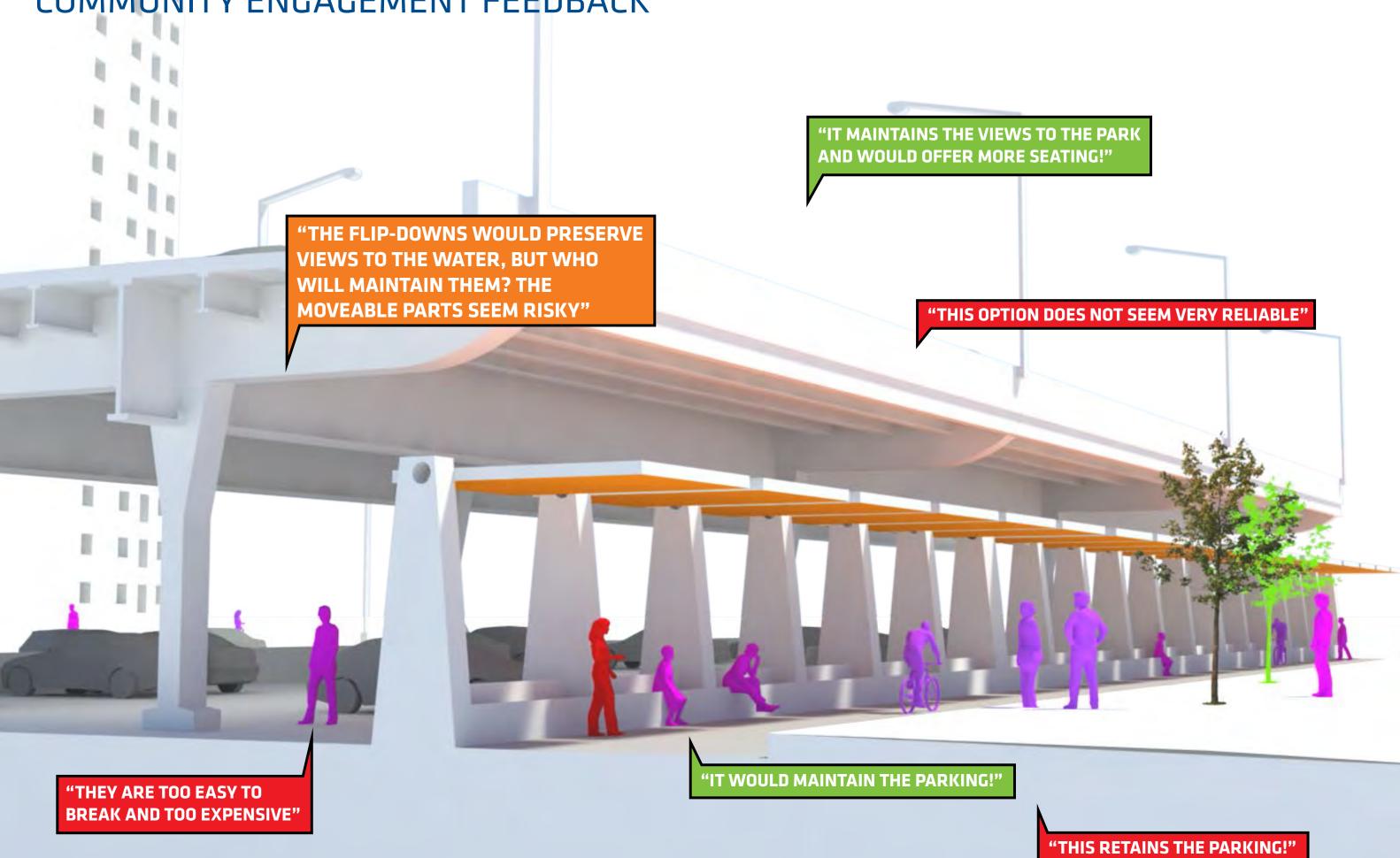


#### STUYVESANT COVE ALIGNMENT - BIG BENCH

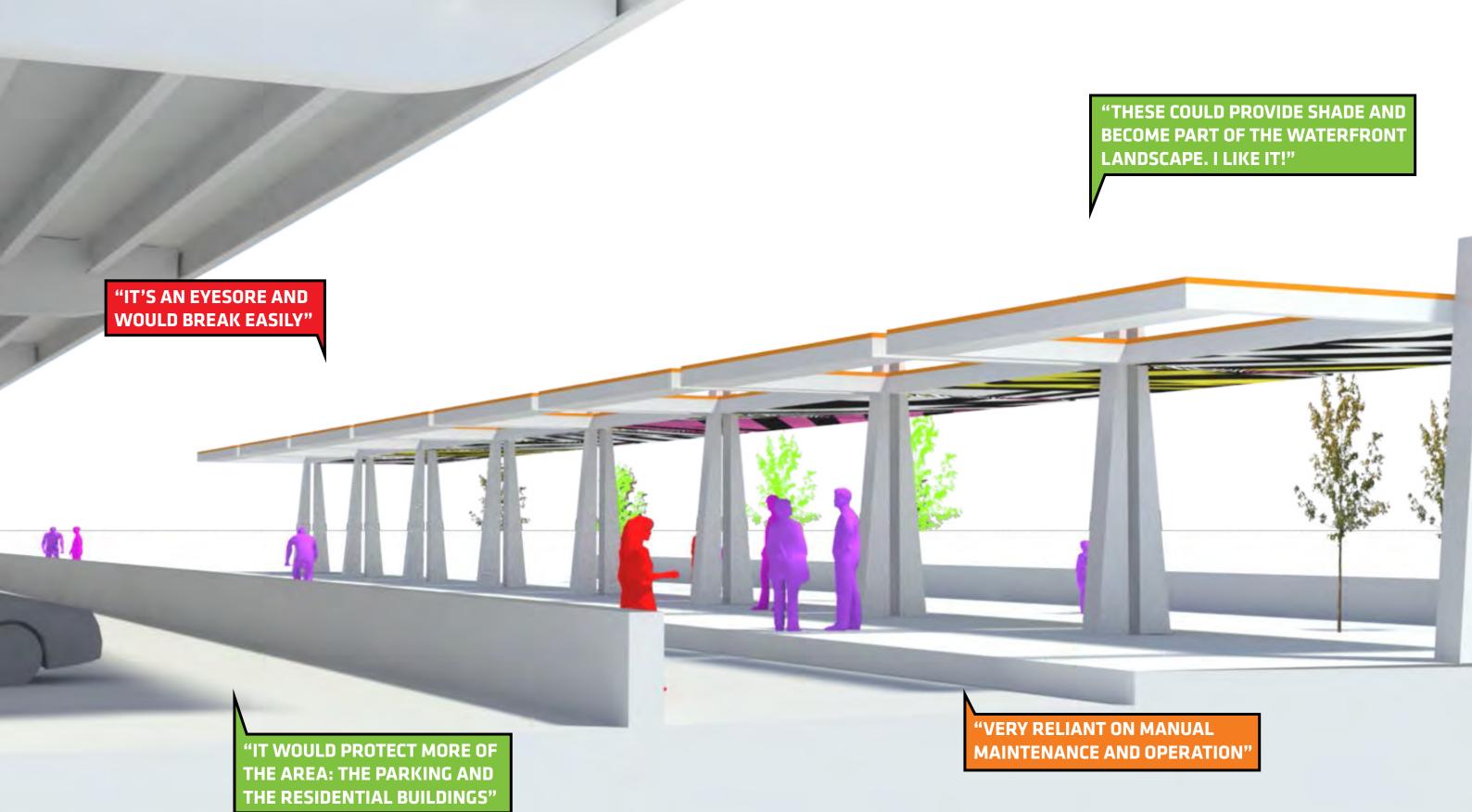


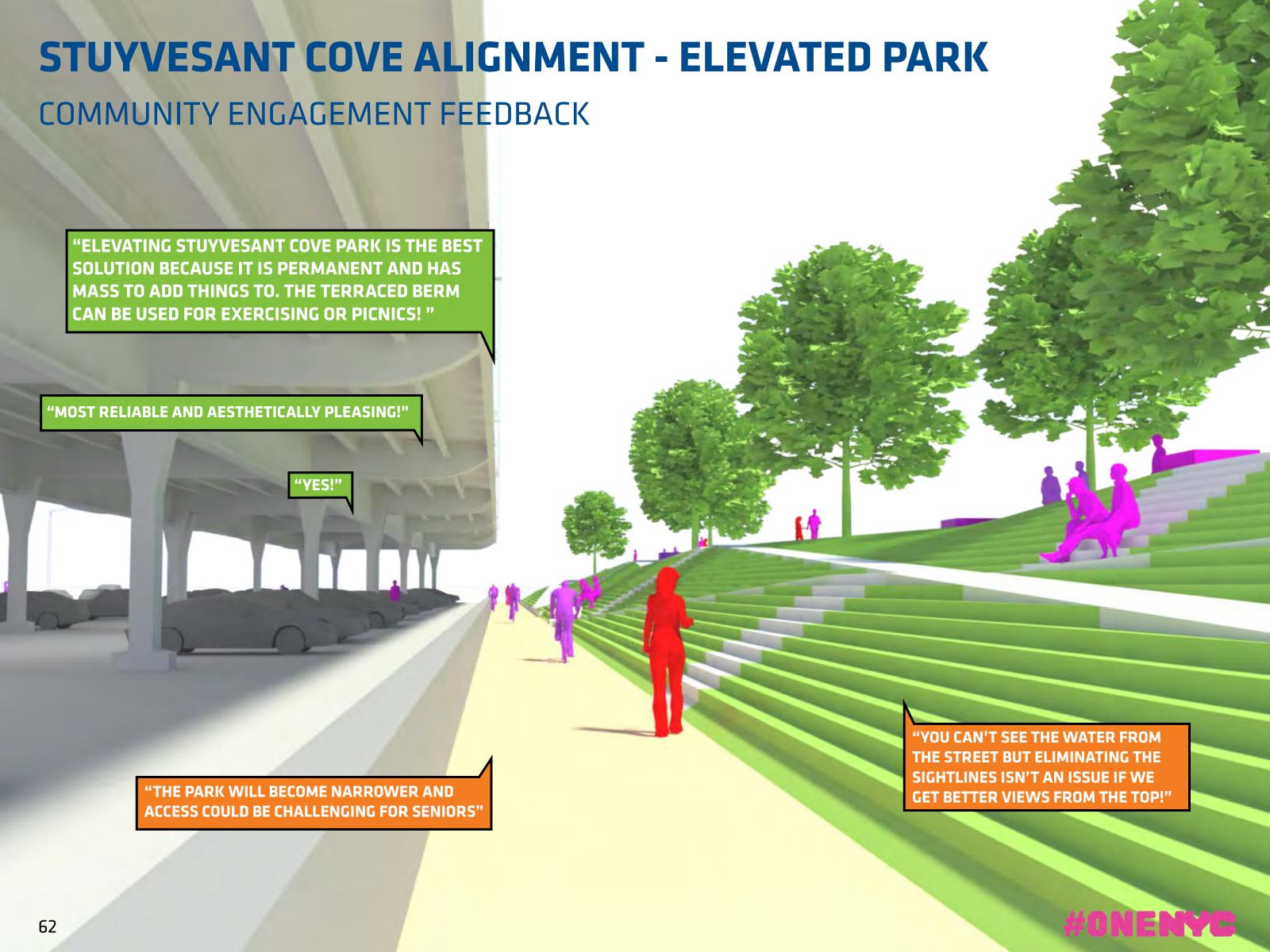


#### **STUYVESANT COVE ALIGNMENT - FLIP-DOWN**



#### **STUYVESANT COVE ALIGNMENT - FLIP-DOWN CANOPY**

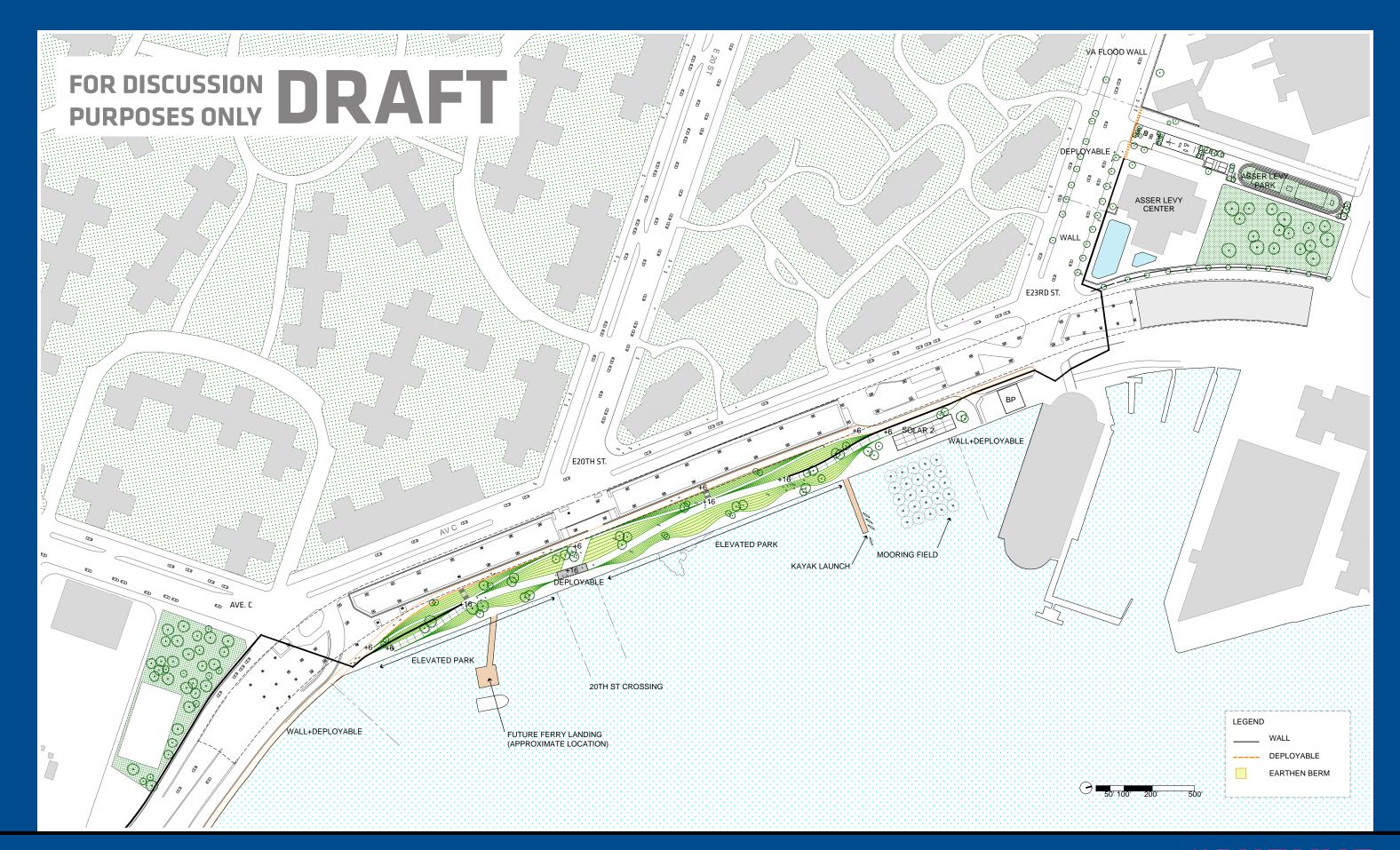




#### **STUYVESANT COVE: PRINCIPLES**

- -Minimize use of deployables.
- -Maintain at-grade crossing at key junctures.
- -Ensure safety and security adjacent to and under the FDR viaduct.
- -Support future developments such as the 20th St. ferry landing and Solar Two.

# STUYVESANT COVE ALIGNMENT - ELEVATED PARK CONCEPT DESIGN STUDY



#### STUYVESANT COVE ALIGNMENT - E20TH ST CONNECTION

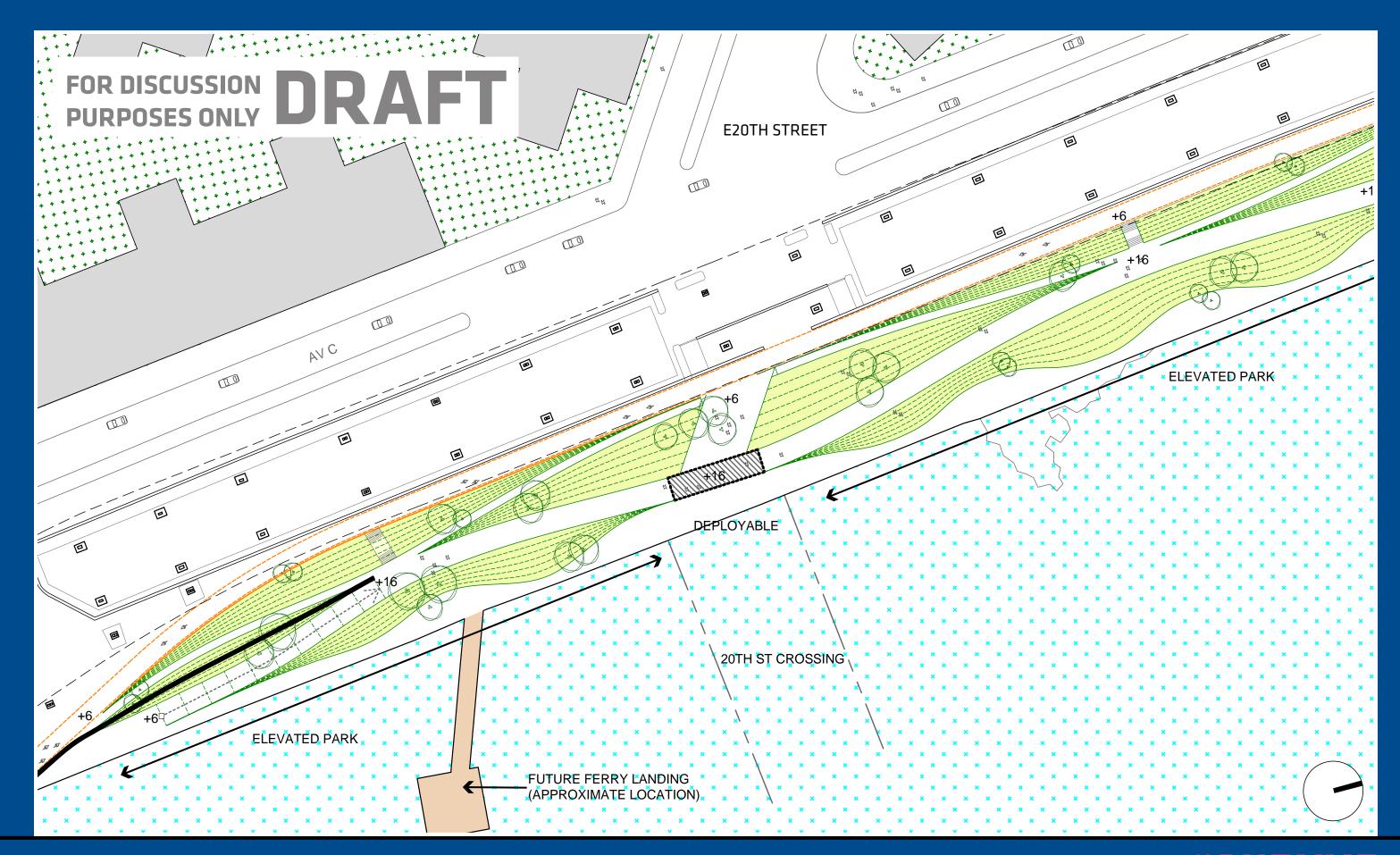
#### COMMUNITY ENGAGEMENT FEEDBACK

#### At which intersection do you feel most comfortable crossing...

	E23rd St	I I	Ave. C & FDR
on foot?		<b>11/17</b>	
on a bike?			2/3
with children?		3/5	
with/as a senior?		4/6	
with a wheelchair?		4/4	
Small sample size: Total number of participants: 17 out of 4	9 workshop	attendees	



# STUYVESANT COVE ALIGNMENT - E20TH ST CONNECTION DESIGN STUDY



#### **SEGMENT E - 23RD STREET TIE-BACK**



#### **SEGMENT E - 23RD STREET TIE-BACK**

#### **EXISTING CONDITIONS**







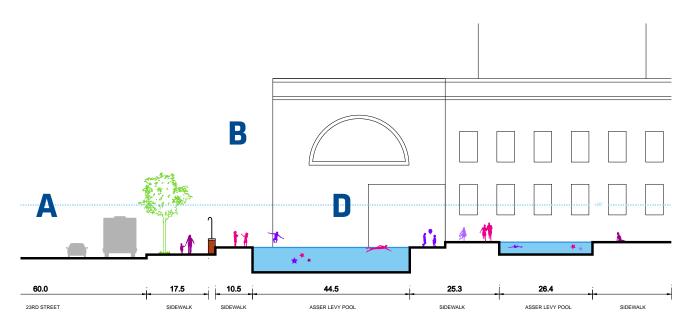


23RD STREET LOOK-ING WEST

HISTORIC ASSER-LEVY
PUBLIC BATHHOUSE

ASSER-LEVY PARK FROM ACROSS 23RD STREET

**ASSER LEVY POOL, SUMMER** 



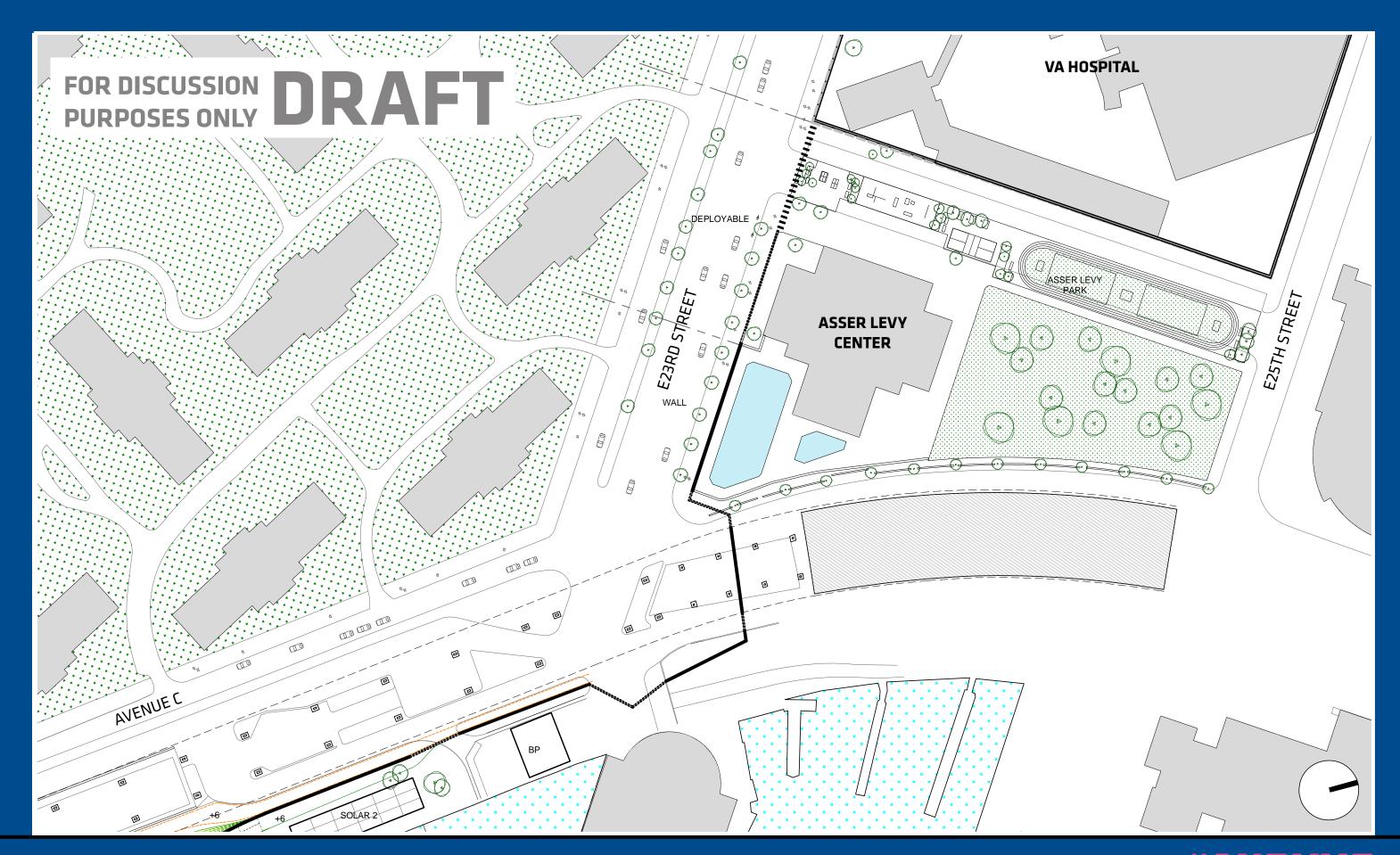
**Section - Asser Levy Pool** 



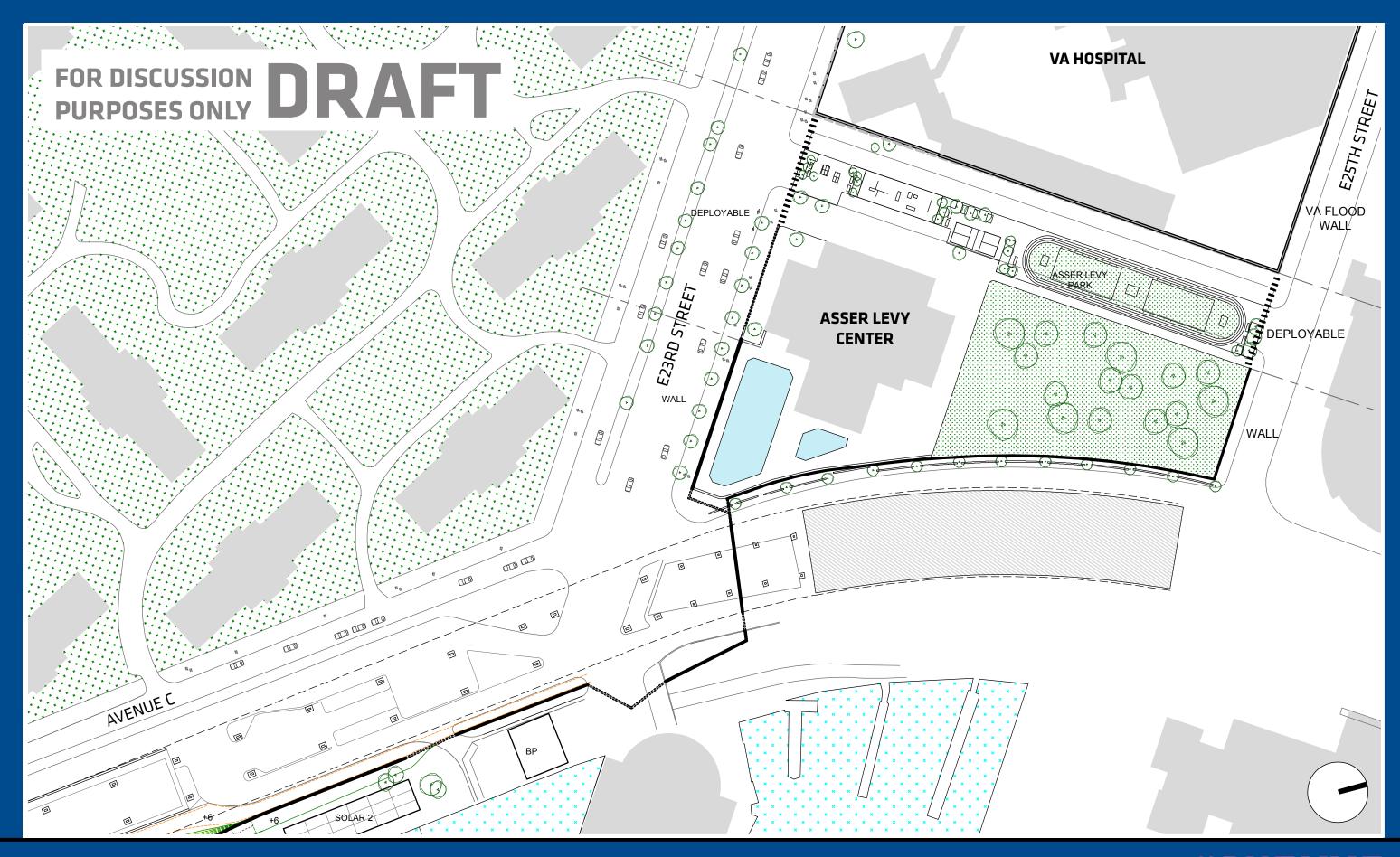
**Section - Asser Levy Park** 

#### **SEGMENT E - 23RD STREET TIE-BACK**

DESIGN STUDY

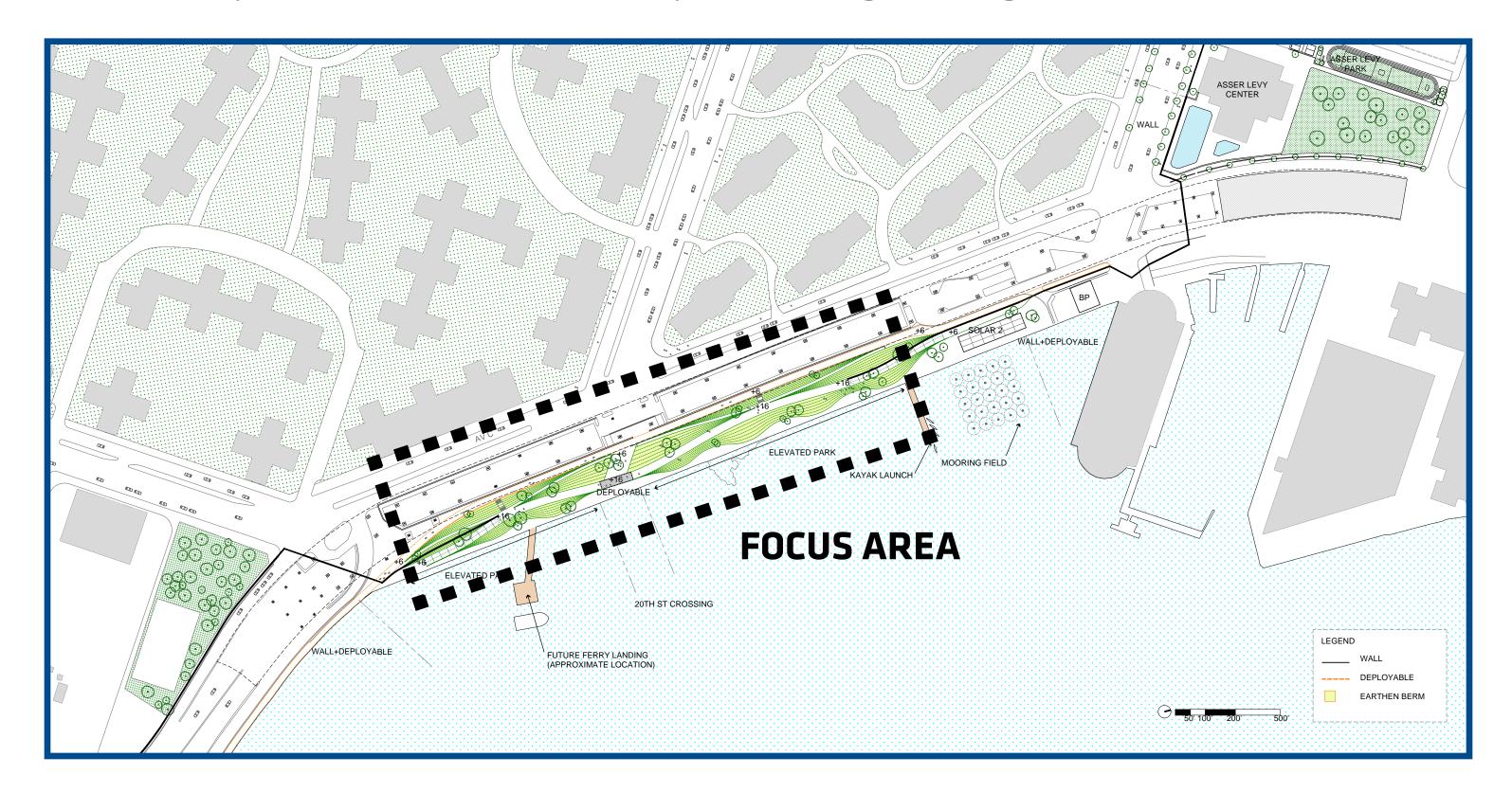


# SEGMENT E - ALTERNATIVE UNDER STUDY 25TH STREET



#### **JULY WORKSHOPS - 20TH STREET AND ELEVATED PARK**

Focus for the July CE workshops will be on the Elevated Park concept and 20th Street crossing. Physical models are being developed to engage residents in discussion of trade-offs, pros, and cons of various options being investigated.



### **NEXT STEPS**

#### **NEXT STEPS**

STAKEHOLDER ENGAGEMENT

The ESCR team will be participating in the following event:

# PATHS TO PIER 42 SUMMER WATERFRONT CELEBRATION ORGANIZED BY THE HESTER ST COLLABORATIVE

JULY 18TH FROM 2:00-6:00PM AT PIER 42, EAST RIVER PARK

JOIN US AND TELL YOUR FRIENDS!



#### **NEXT STEPS**

#### STAKEHOLDER ENGAGEMENT

The next set of community engagement workshops will be held on:

JULY 28TH FROM 5:30-7:30PM AT STEIN SENIOR CENTER 204 E 23RD ST

JULY 29TH FROM 6:30-8:30PM AT CHURCH OF ST. BRIGID 119 AVENUE B

JULY 30TH FROM 6:30-8:30PM AT MANNY CANTOR CENTER 197 EAST BROADWAY



