

#ONENYC

Our Resilient City

**East Side Coastal Resiliency Project
July 29th+30th, 2015 - Project Area 1**

Community Design Workshop

Project Area One - East River Park

1. Project Goals Re-Cap

2. Project Schedule

3. Progress of Technical Studies

4. Community Feedback and Design Studies

5. Frequently Asked Questions / Q+A

6. Table Activity and Report Back

PROJECT GOALS RE-CAP

WHAT IS THE EAST SIDE COASTAL RESILIENCY PROJECT?

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



THE EAST SIDE

NOTE: ILLUSTRATIVE DIAGRAM, NOT TO SCALE

WHAT IS THE EAST SIDE COASTAL RESILIENCY PROJECT?

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



WHAT HAPPENED DURING SANDY?

NOTE: ILLUSTRATIVE DIAGRAM, NOT TO SCALE

WHAT IS THE EAST SIDE COASTAL RESILIENCY PROJECT?

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

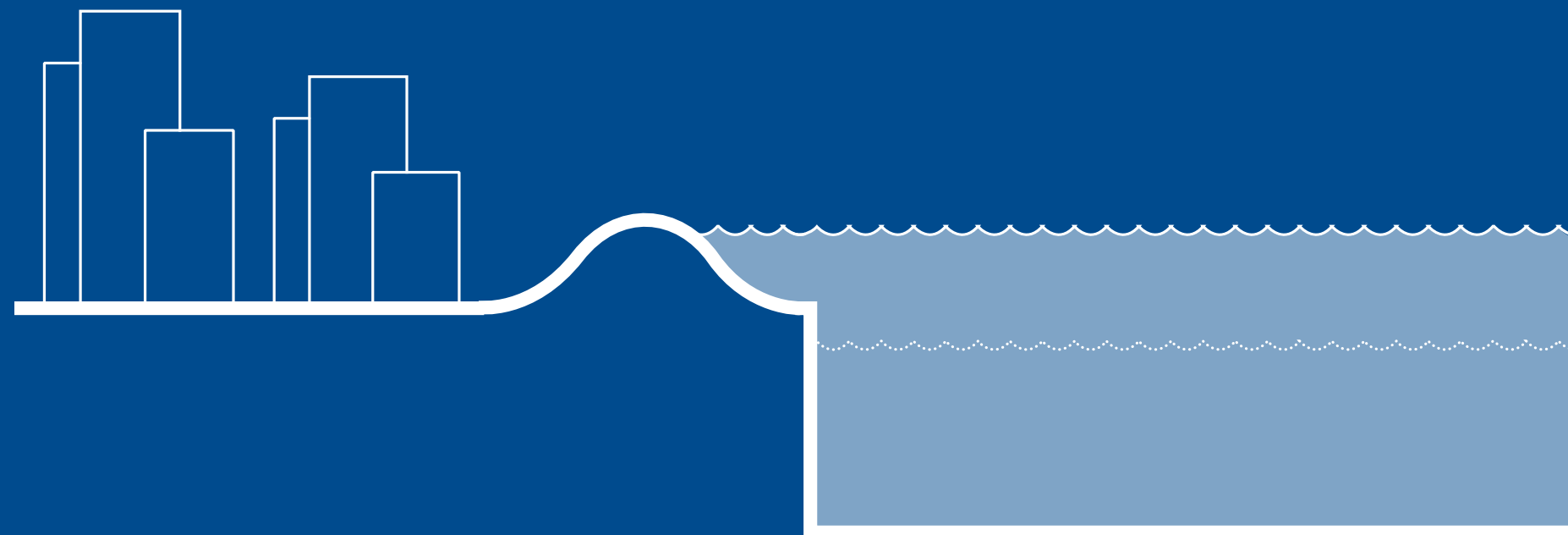


BARRIER

NOTE: ILLUSTRATIVE DIAGRAM, NOT TO SCALE

WHAT IS THE EAST SIDE COASTAL RESILIENCY PROJECT?

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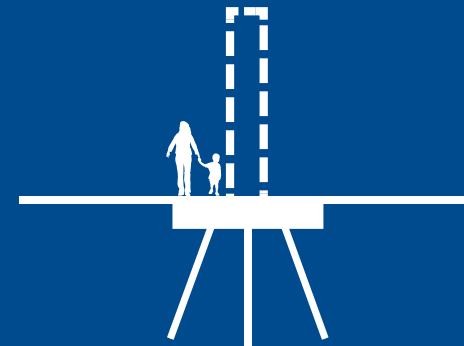


FLOOD PROTECTION

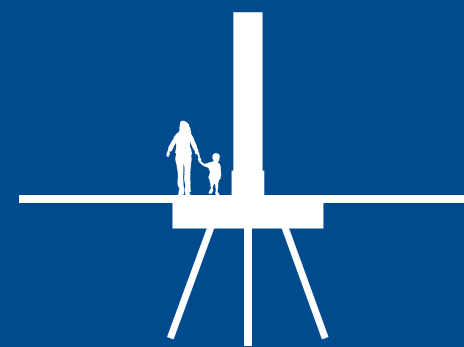
NOTE: ILLUSTRATIVE DIAGRAM, NOT TO SCALE

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?



 PEOPLE

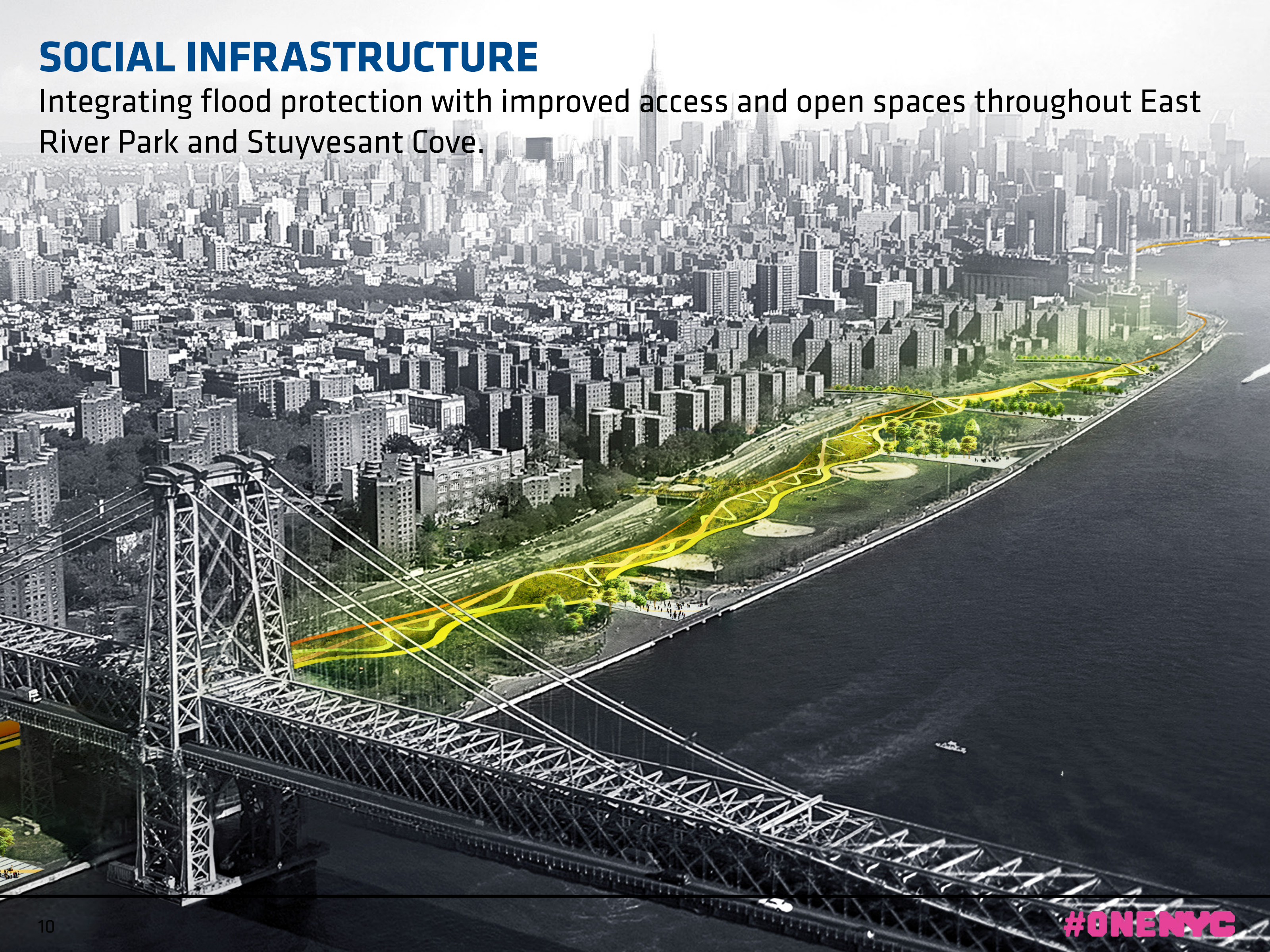
+



 RESILIENCY
INFRASTRUCTURE

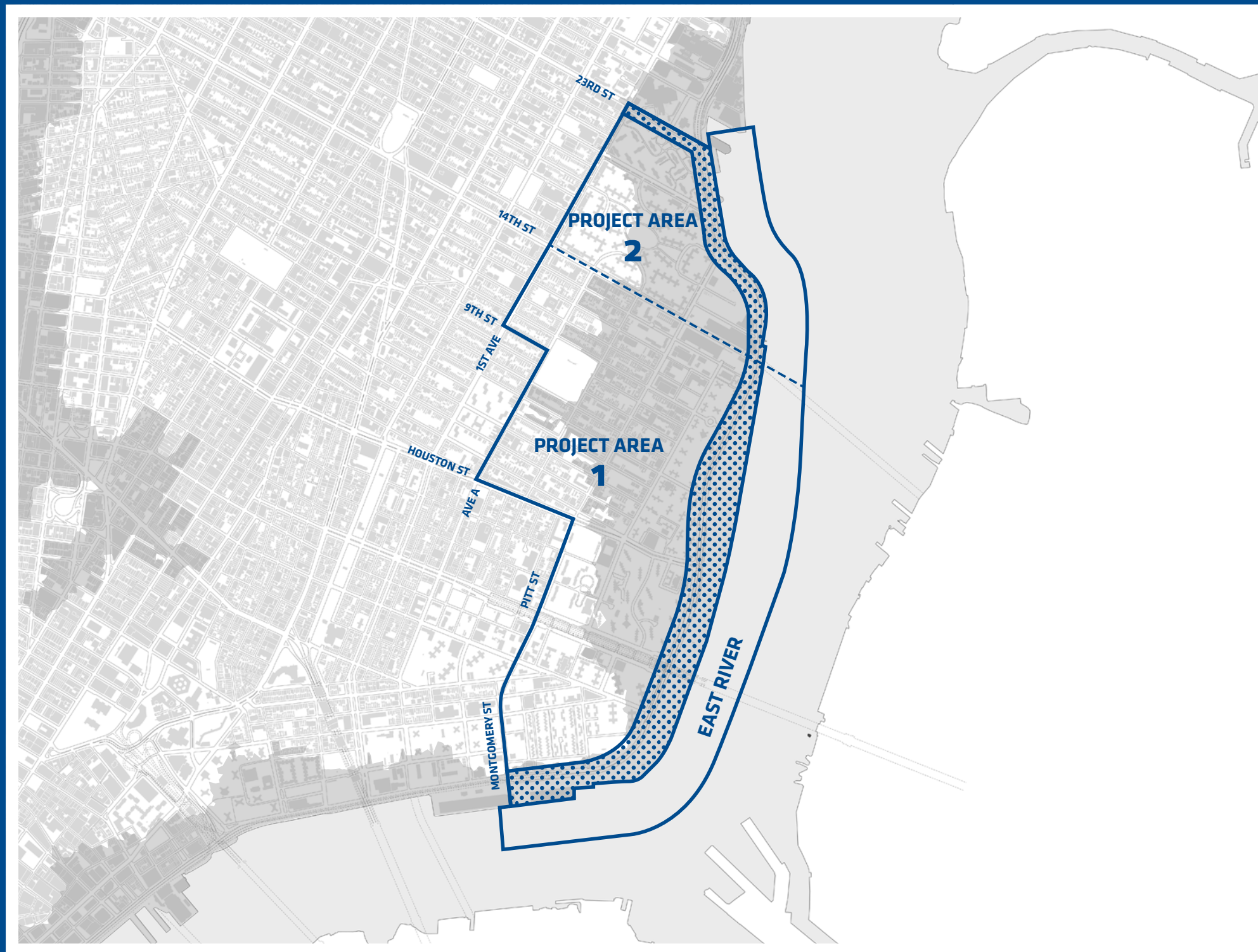
SOCIAL INFRASTRUCTURE

Integrating flood protection with improved access and open spaces throughout East River Park and Stuyvesant Cove.

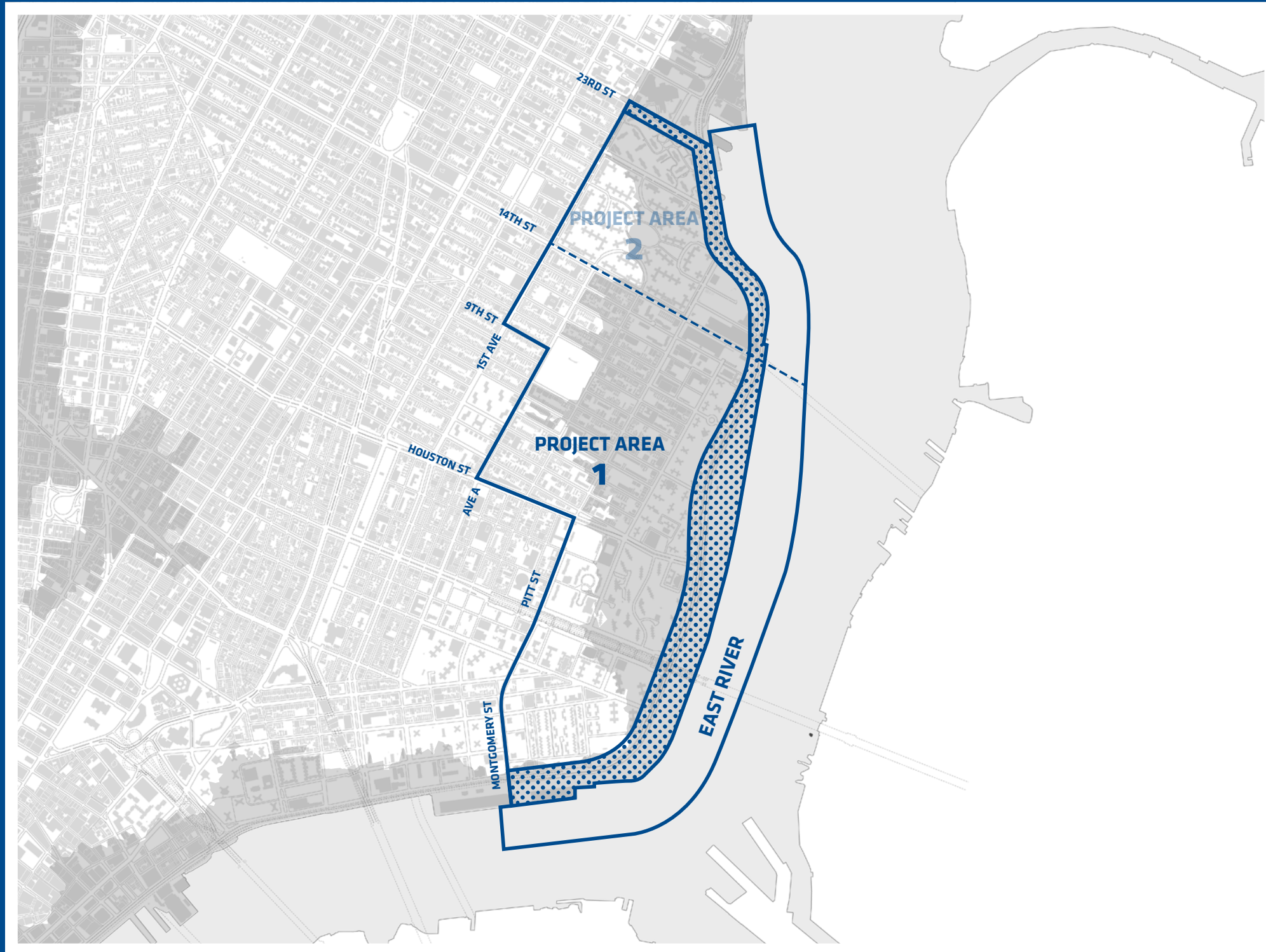


ESCR PROJECT SCOPE

A \$335 million project to implement coastal protection from Montgomery Street to East 23rd Street.



PROJECT AREA 1 - EAST RIVER PARK

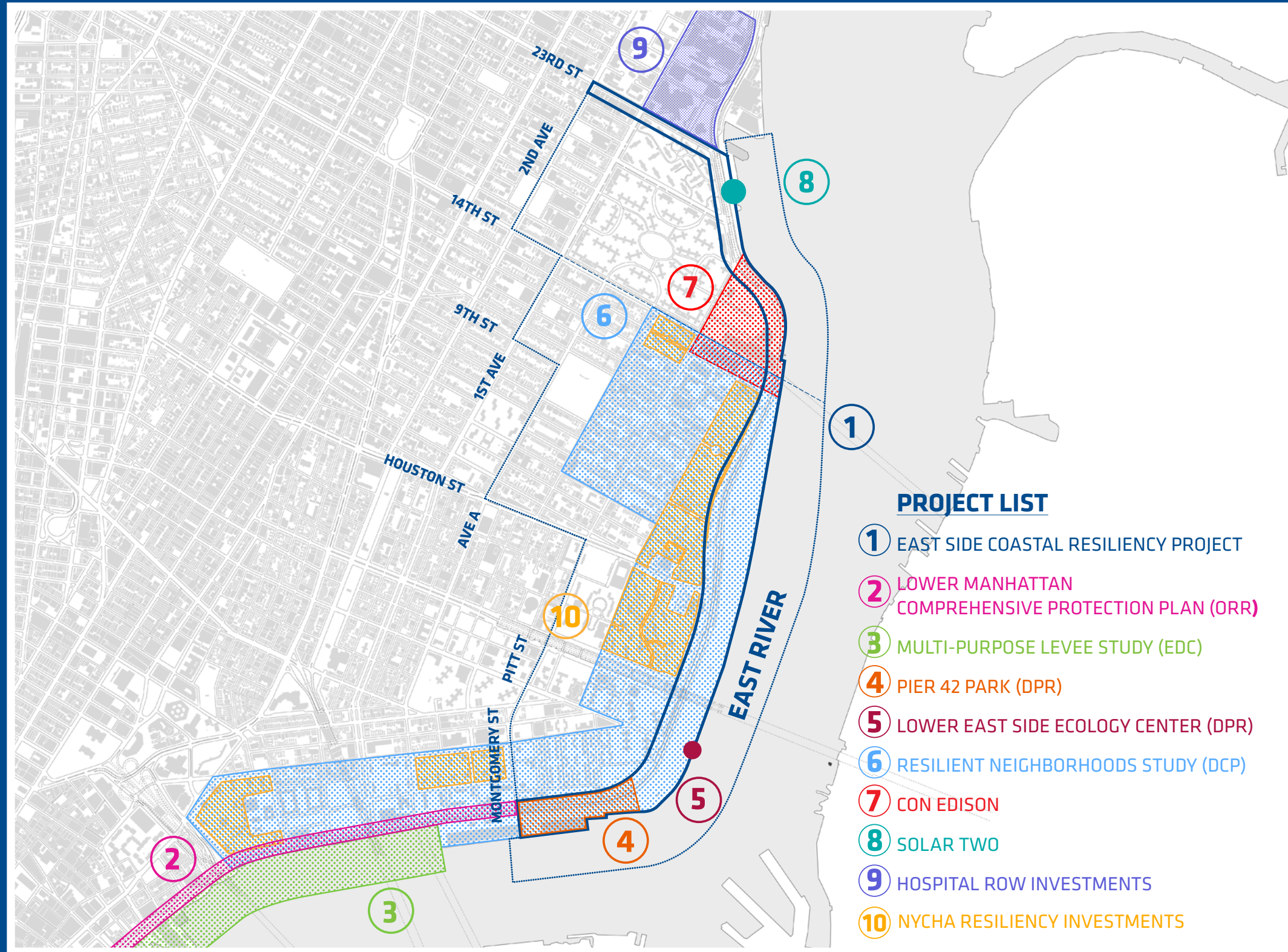


EAST RIVER PARK GOALS AND CHALLENGES:

- 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

COMPLEMENTARY INITIATIVES

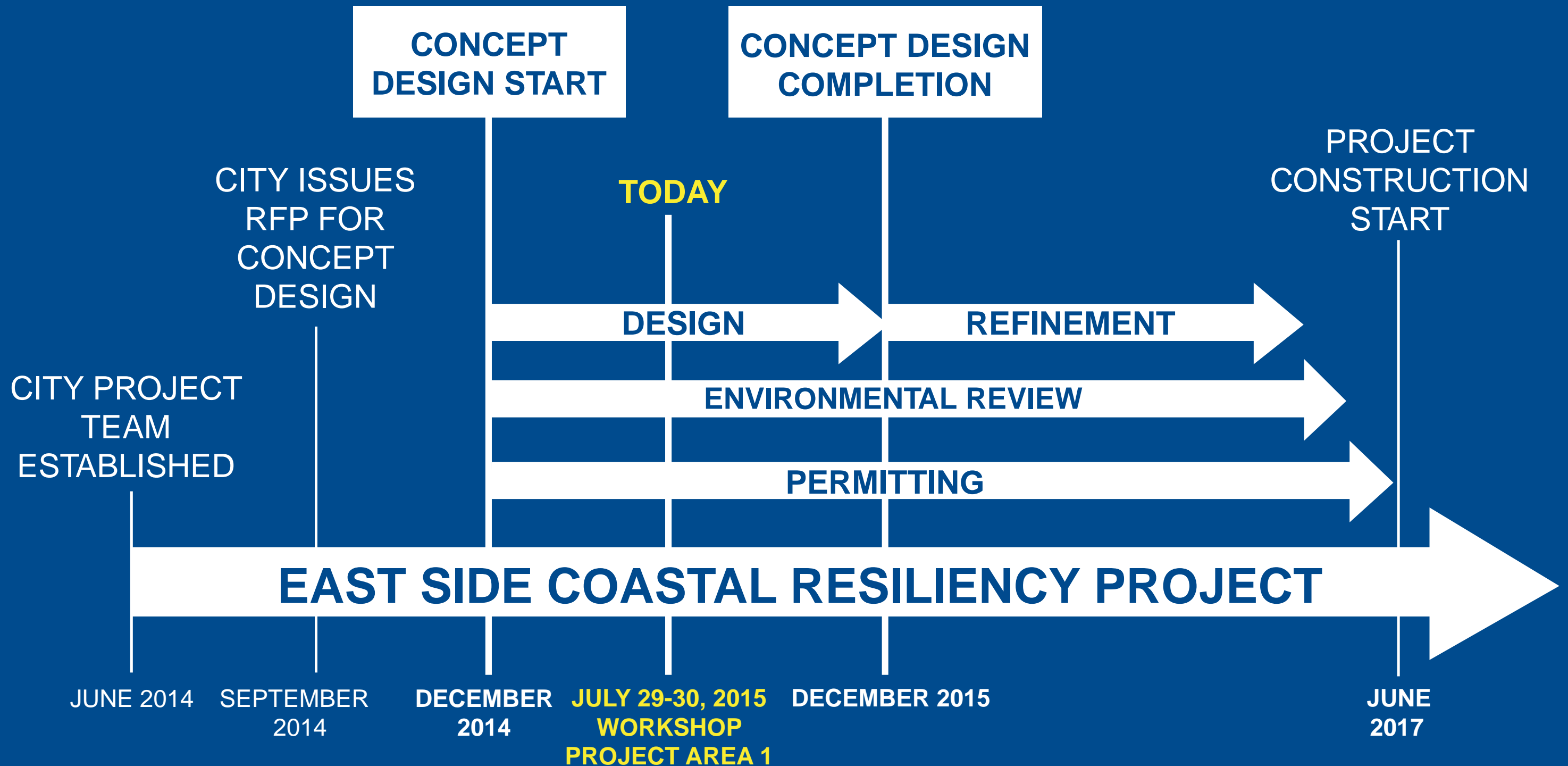
The ESCR Project will be coordinated with other initiatives in the area. City and State funds will be used to advance planning south of Montgomery St.



PROJECT SCHEDULE

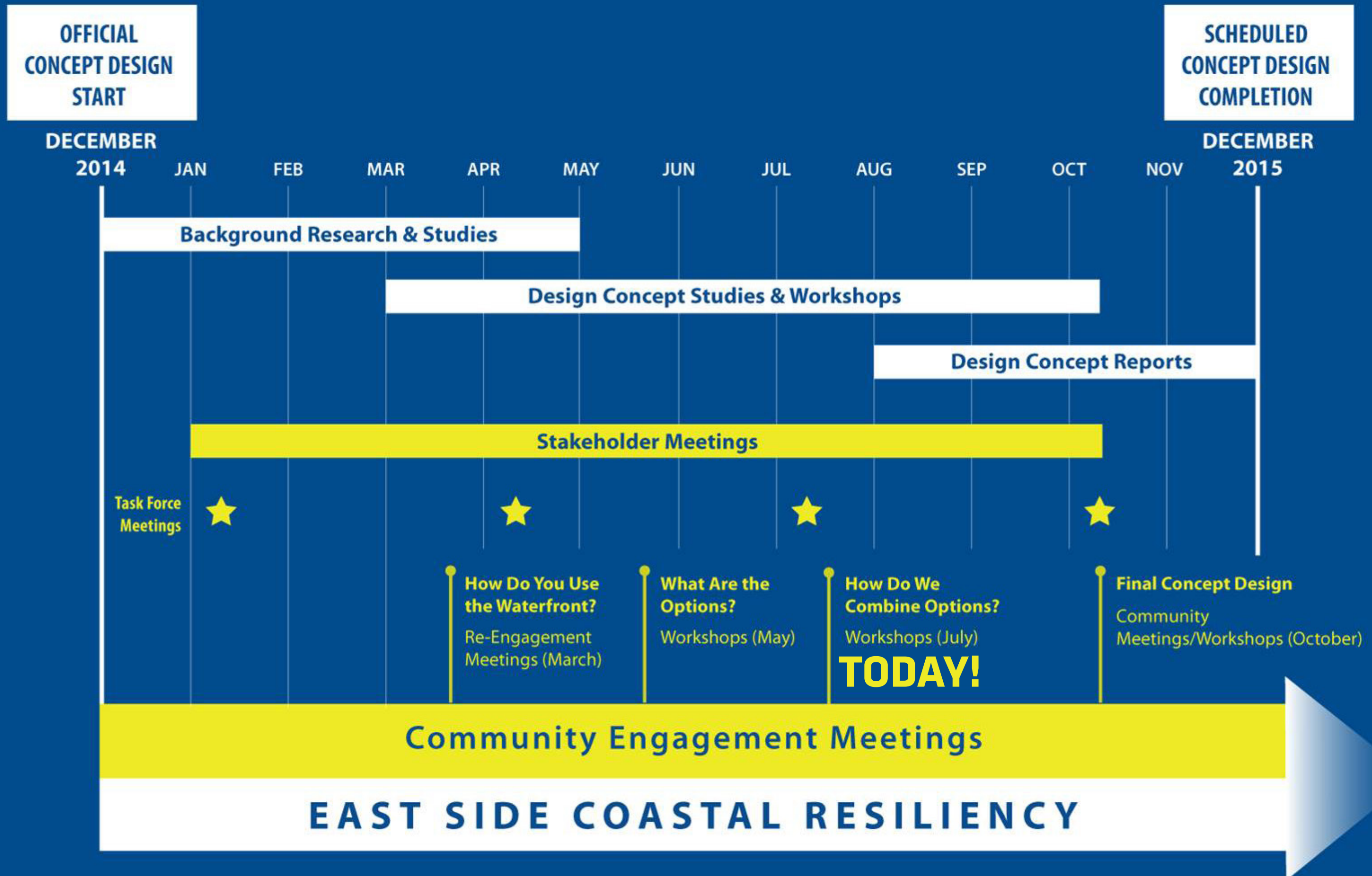
PROJECT TIMELINE

The ESCR Project has an ambitious timeline, now at approximately 2/3 of the way through Concept Design. Construction commencement is anticipated in mid-2017.



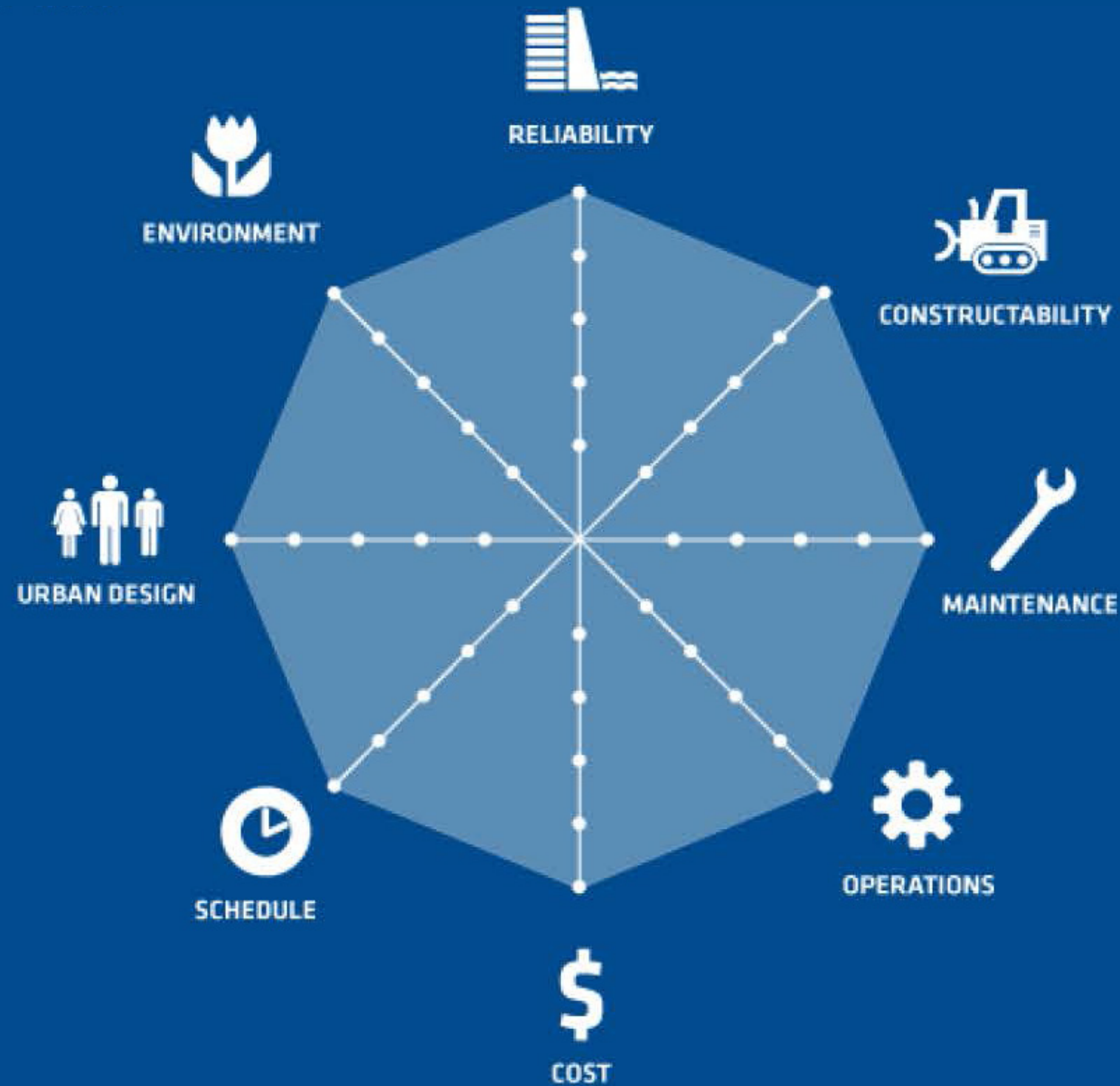
ESCR CONCEPT DESIGN TIMELINE

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



EVALUATION CRITERIA

Each alternative will be evaluated for eight different criteria.



8 CRITERIA

PROGRESS OF TECHNICAL STUDIES

EXISTING CONDITIONS STUDIES - PROGRESS TO DATE

Sewer Investigations

95% - 100%
APRIL JULY



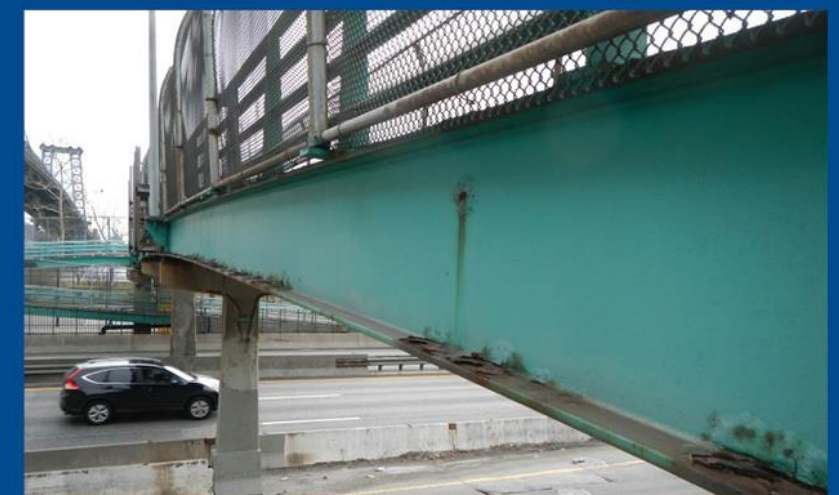
Inspecting Waterfront Structures

60% - 100%



Inspecting Bridges

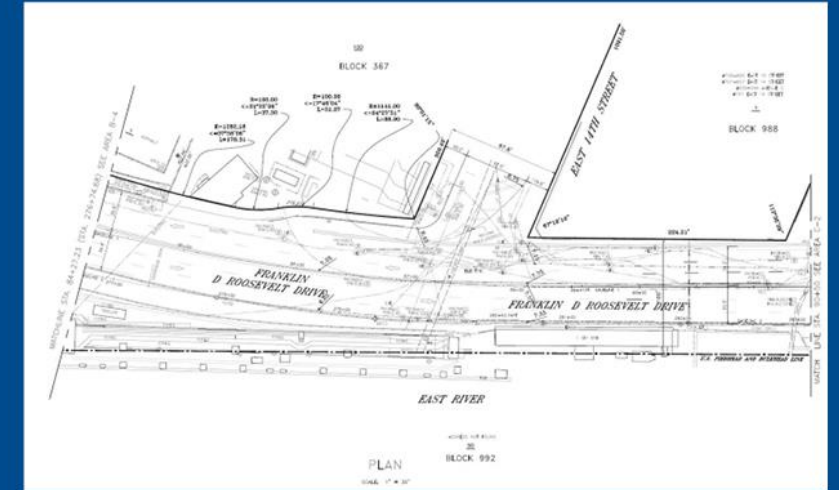
60% - 100%
APRIL JULY



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

The ESCR team gathered feedback about connections to East River Park during work-sessions using physical models and drawings. Over 200 residents attended this 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

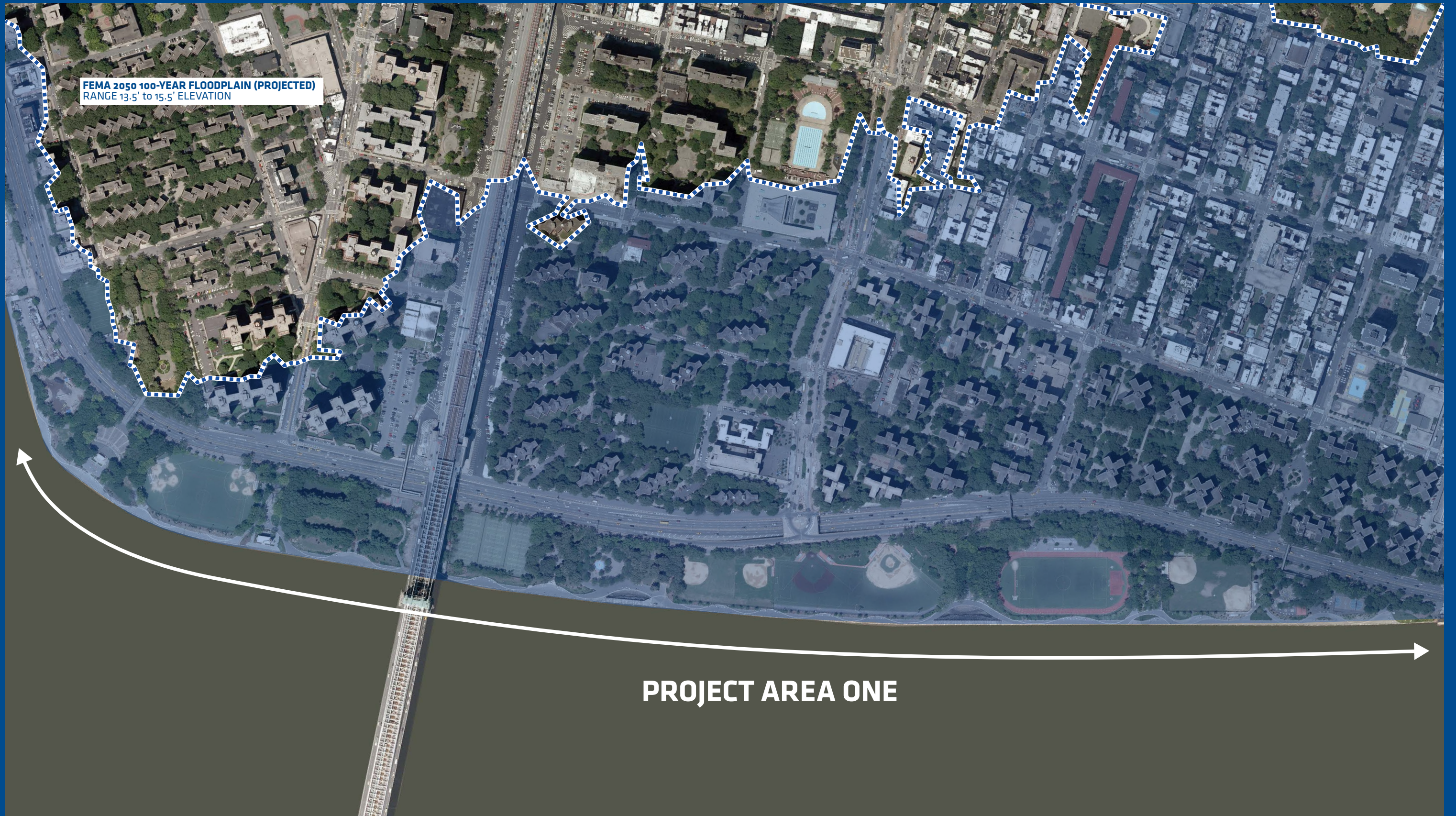
Vladeck

Wald

PROJECT AREA ONE
EAST RIVER PARK

EAST RIVER PARK

Existing Conditions - 2050s 100-year floodplain



EAST RIVER PARK NEEDS

Community Requests

**“ BETTER
ACCESS TO EAST
RIVER PARK ”**

“ FAMILY FRIENDLY ”

**“ FLOOD
PROTECTION ”**

**“ SAFETY AND
SECURITY ”**

REBUILD BY DESIGN + EAST SIDE COASTAL RESILIENCY

**“ CONNECTIONS TO
THE WATER ”**

**“ MORE NATURAL
SPACES ”**

MARCH COMMUNITY ENGAGEMENT FINDINGS

Of 63 respondents, top-rated improvements for East River Park were a nature walk (61%), cafe (55%), and horticultural displays (52%).

What additional services, activities or spaces would you like to see in or near East River Park?



Nature Walk

61%



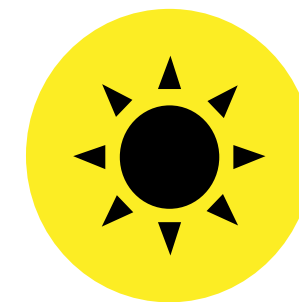
Café

55%



Horticultural displays

52%



Sunbathing

26%

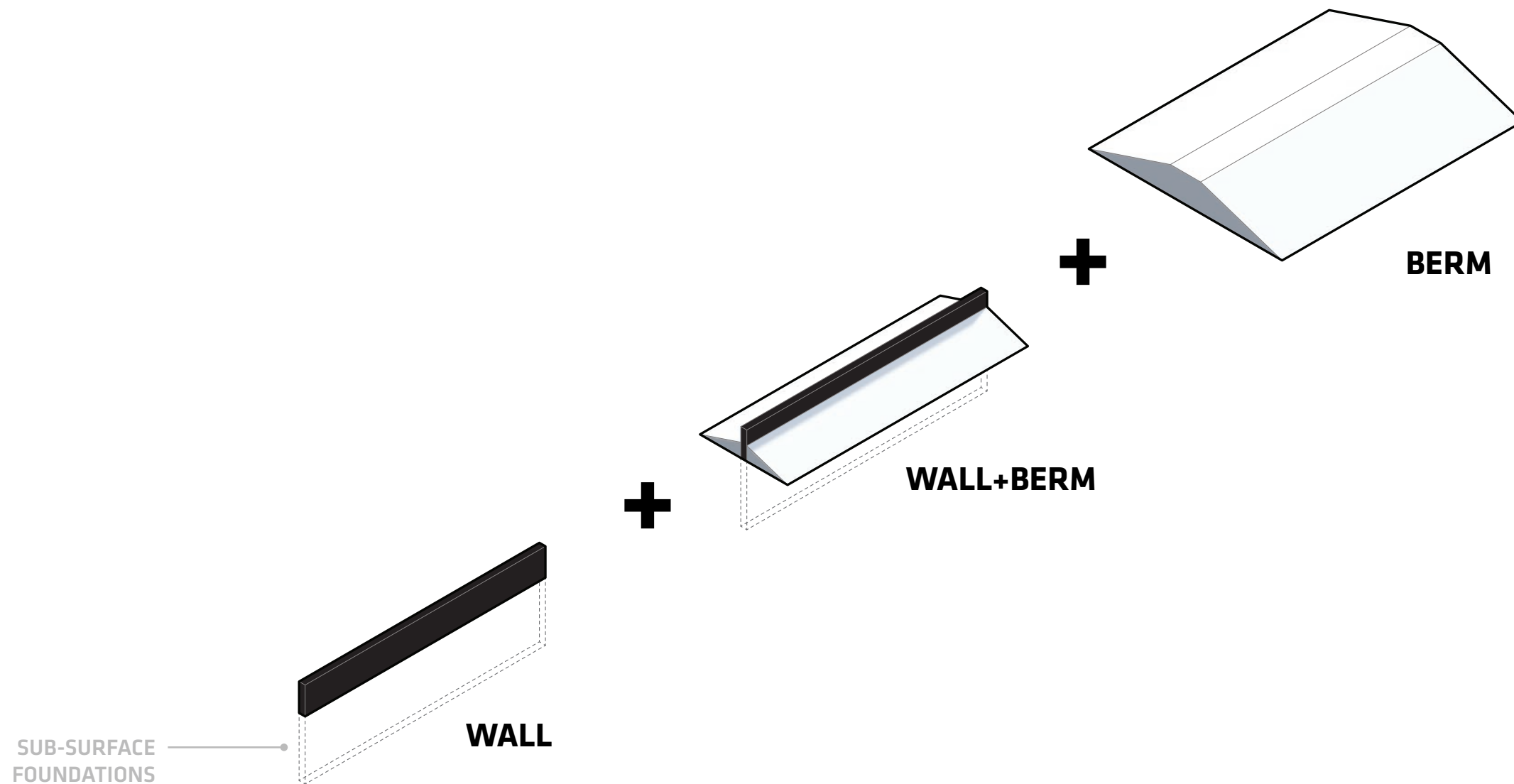


Sports (bocceball,
volleyball, kayak)

26%

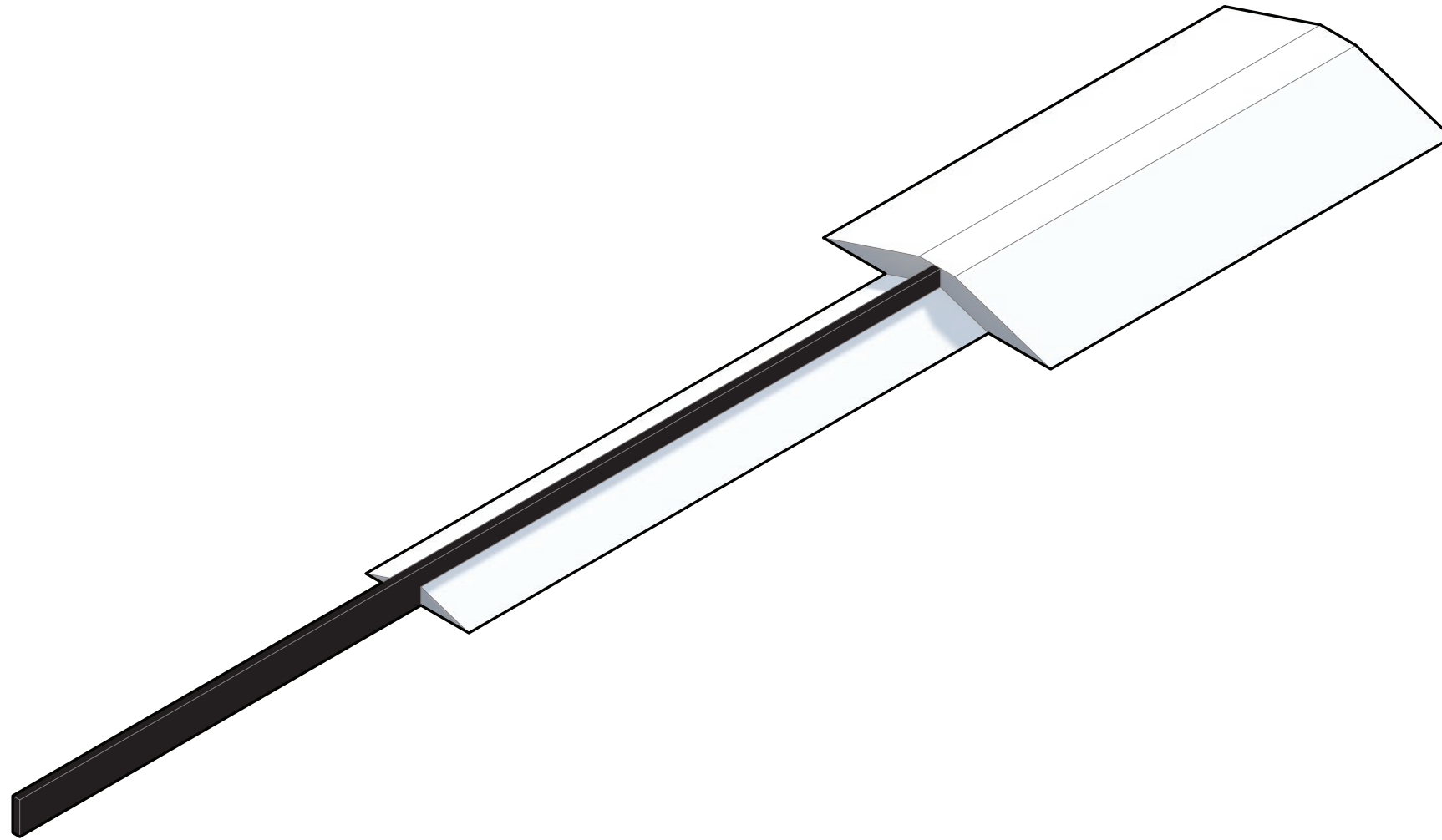
Other suggestions include: a dog run, an ice-skating rink, a bike rental facility, a batting cage, movie nights during the summer months, a beach, ping-pong tables, shade structures, a playground, and an eco-festival

FLOOD PROTECTION ELEMENTS

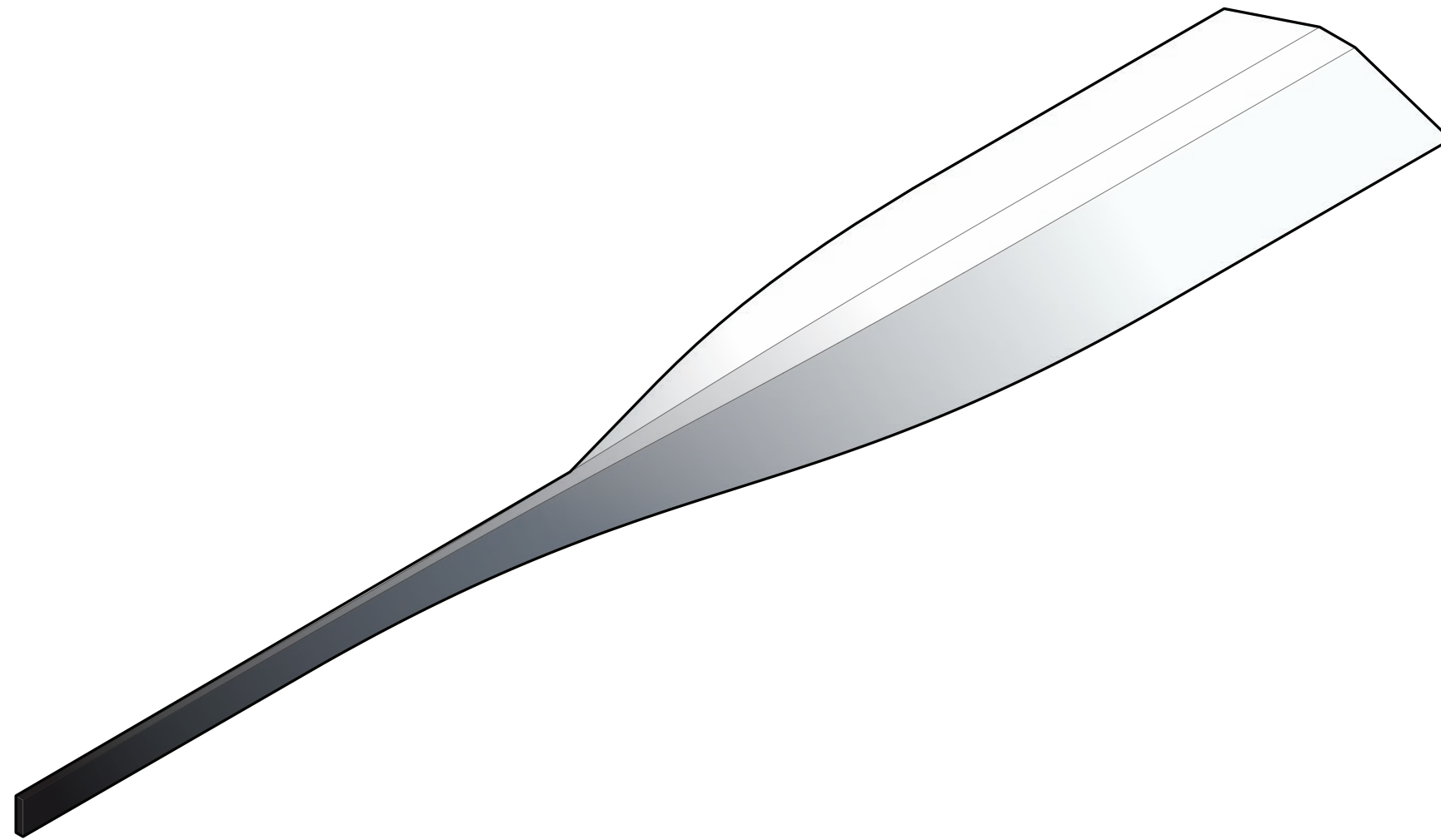


FLOOD PROTECTION ELEMENTS

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

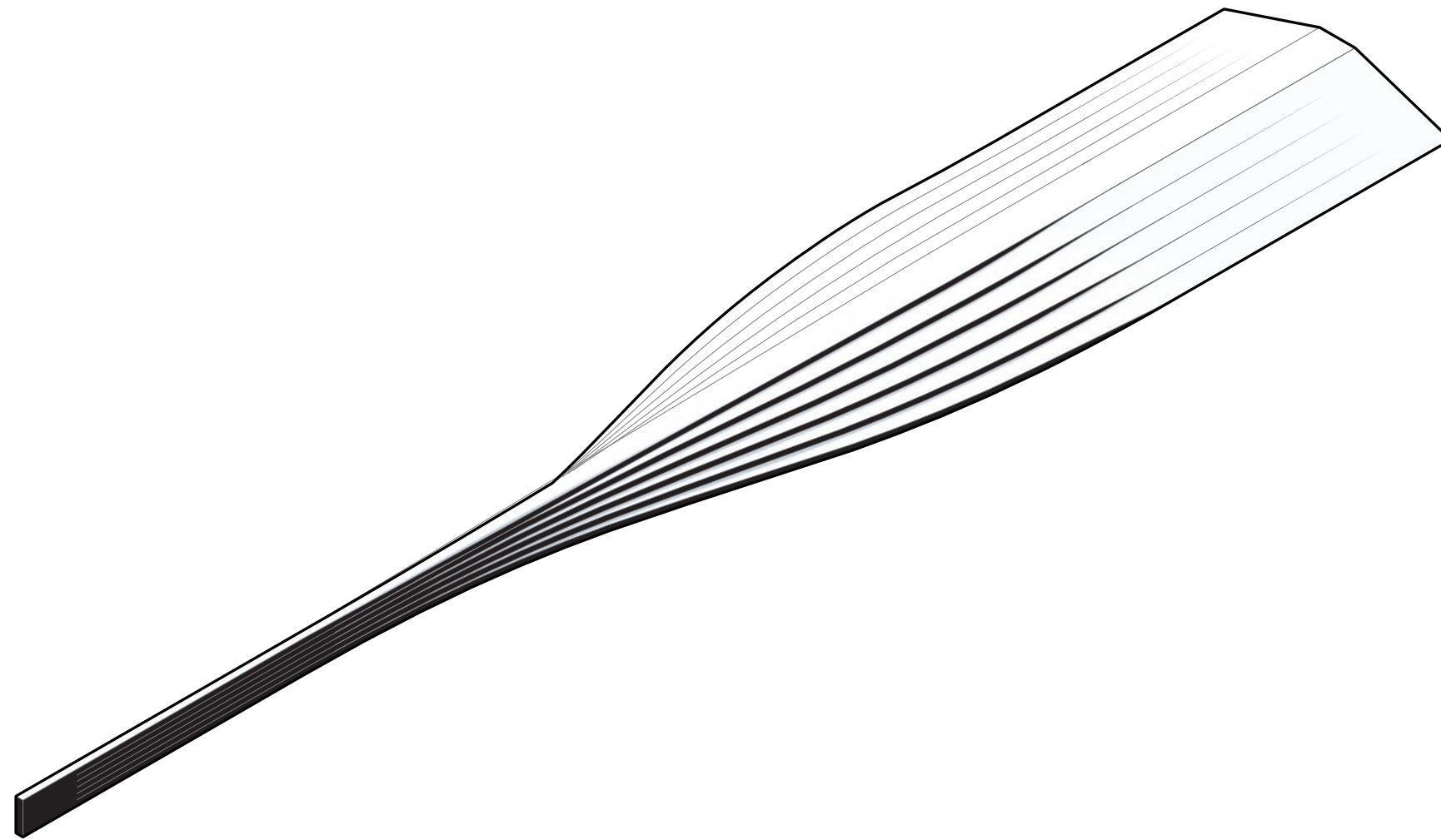


CONNECTING THE ELEMENTS



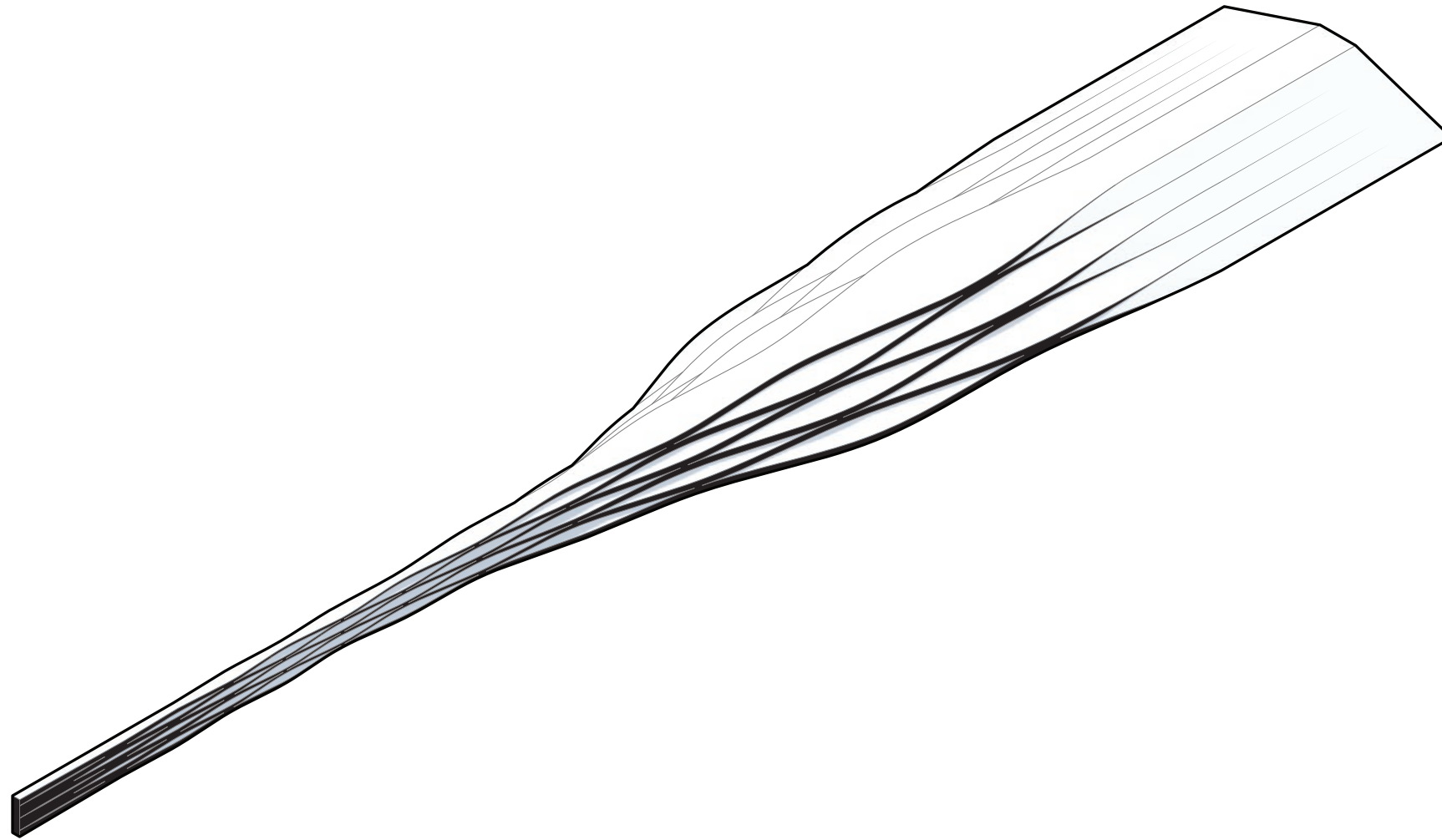
SOFTENING TRANSITIONS

SMOOTHING BETWEEN ELEMENTS



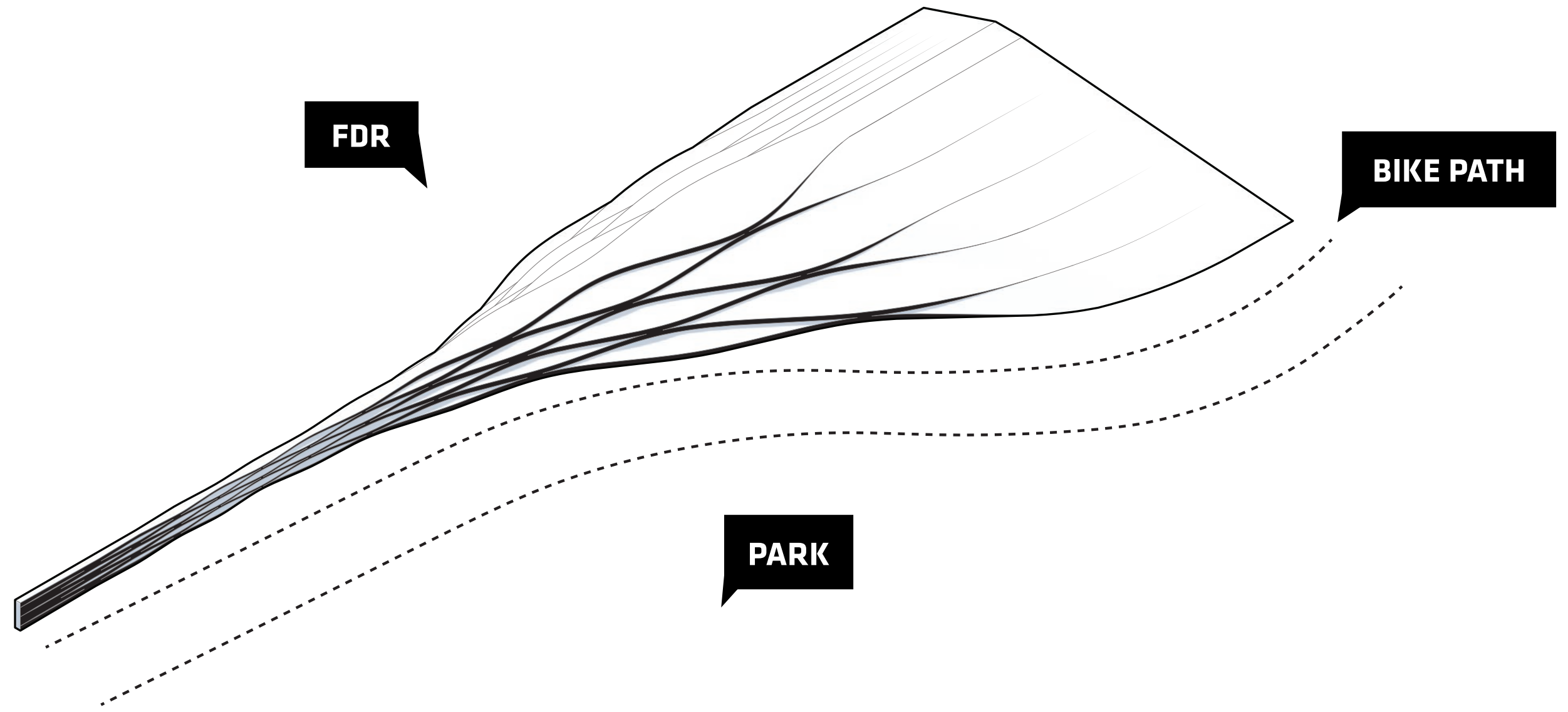
TERRACING

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

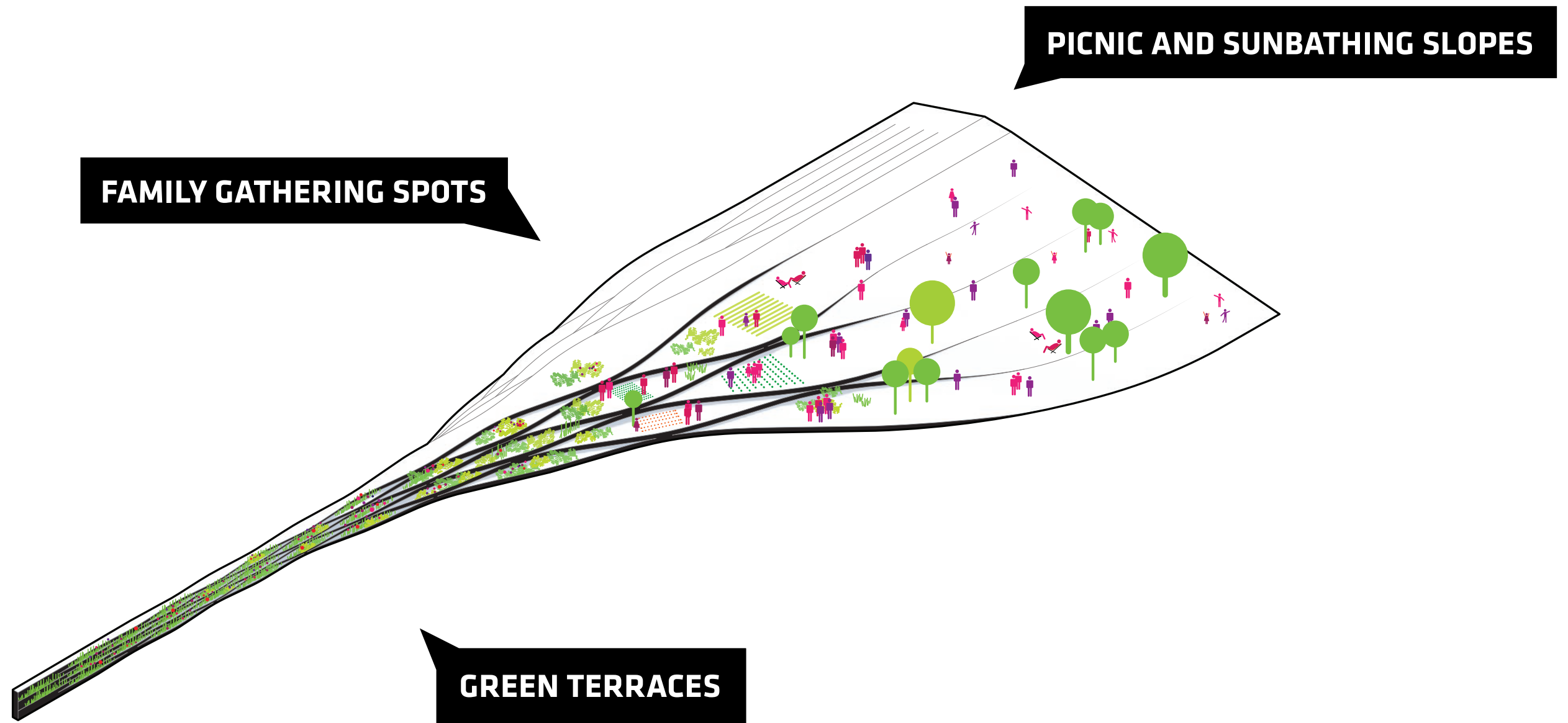


WEAVING

WEAVING CREATES POCKETS AND TERRACES FOR PLANTINGS AND ACTIVITIES



ADAPTING TO SITE CONDITIONS

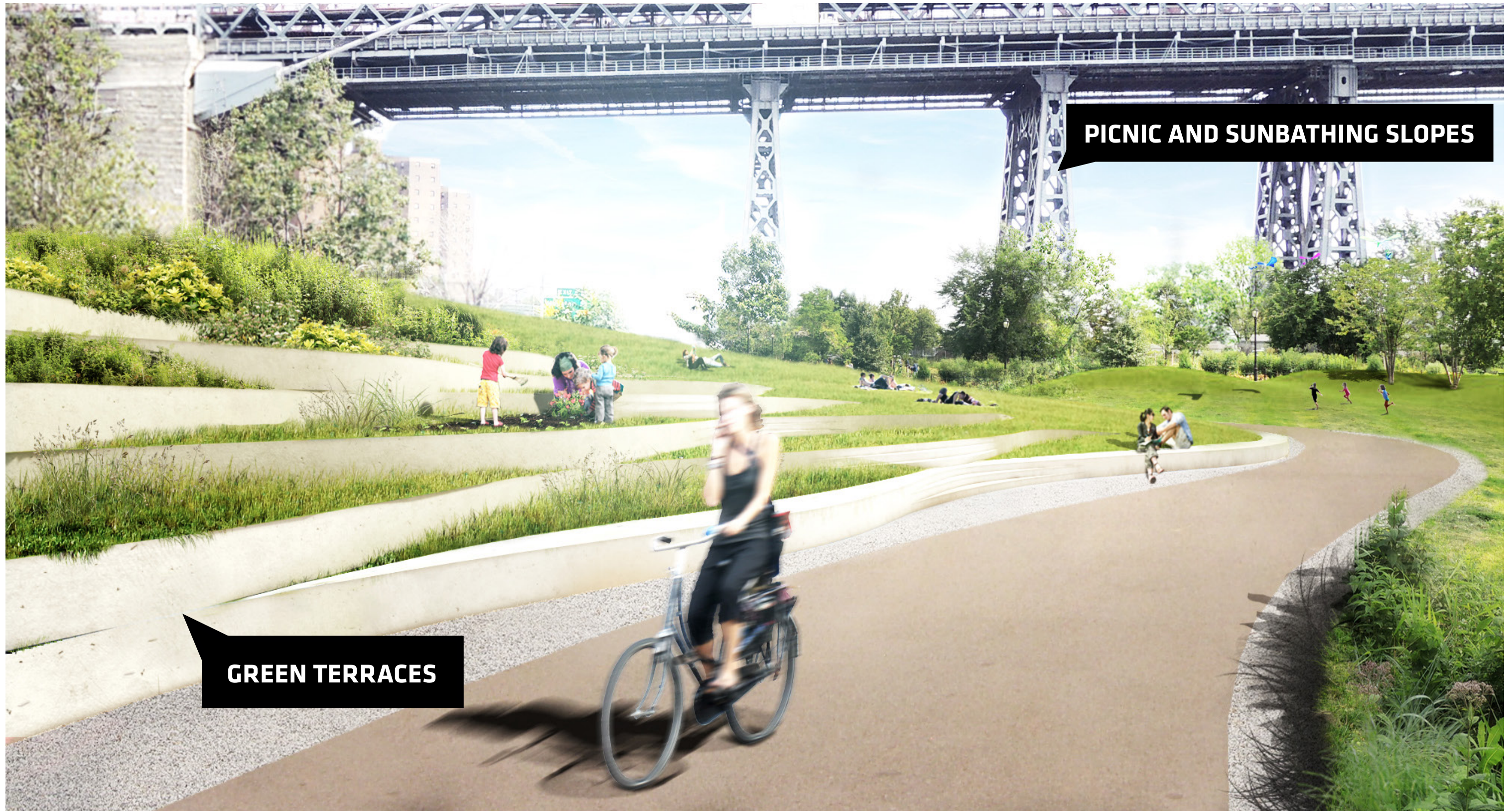


SUPPORTING PARK DIVERSITY

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

TRANSITION FROM WALL TO BERM

Moving North, View Towards Williamsburg Bridge



PICNIC AND SUNBATHING SLOPES

GREEN TERRACES

**ACCESS TO EAST RIVER PARK
COMMUNITY ENGAGEMENT FINDINGS**

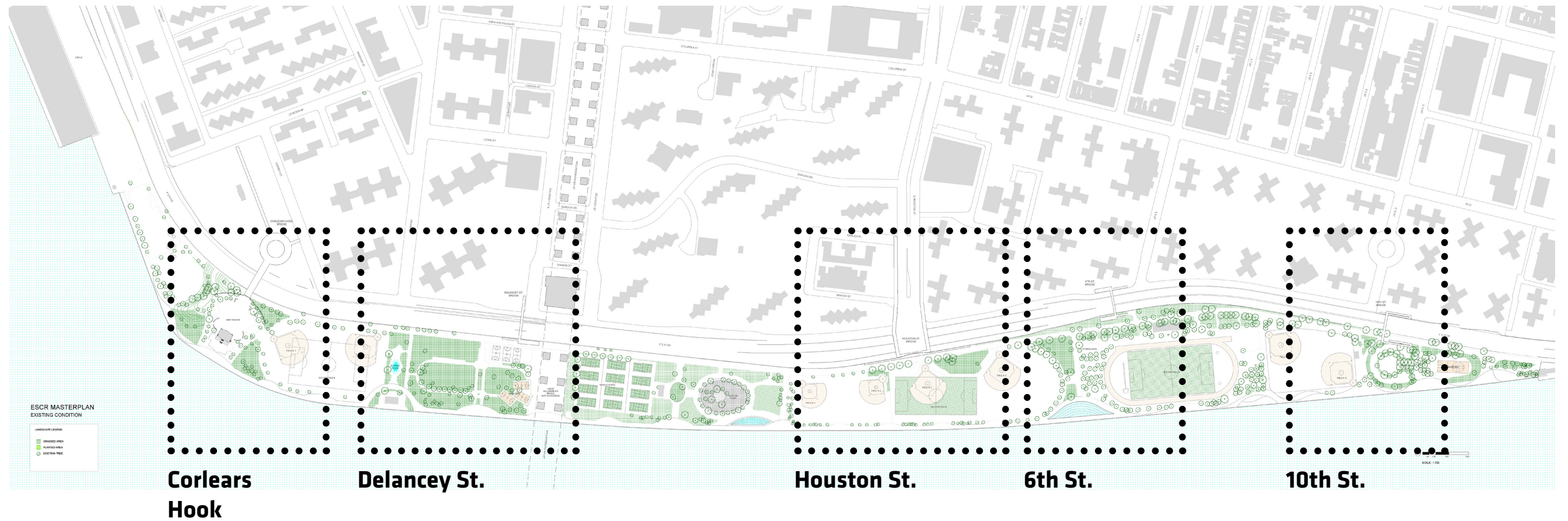
ACCESS TO EAST RIVER PARK

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



MAY WORKSHOPS

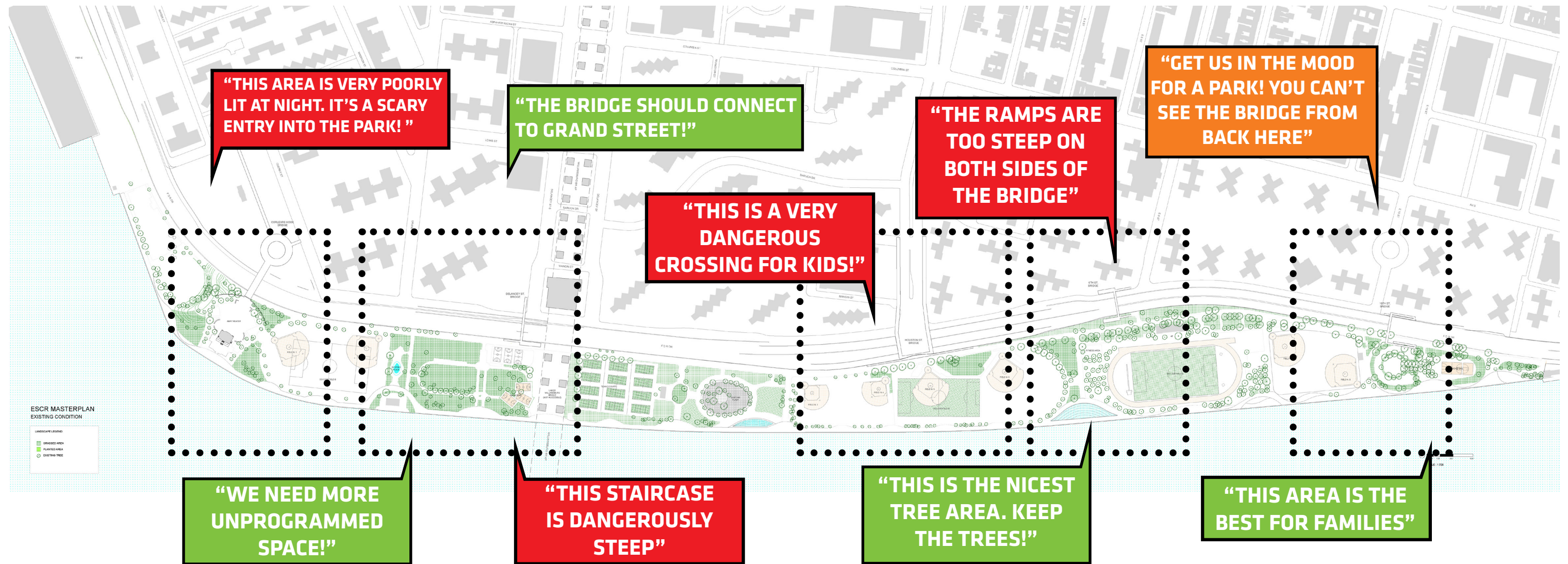
Five connection points were discussed during May design workshops:



ACCESS POINTS

COMMUNITY FEEDBACK

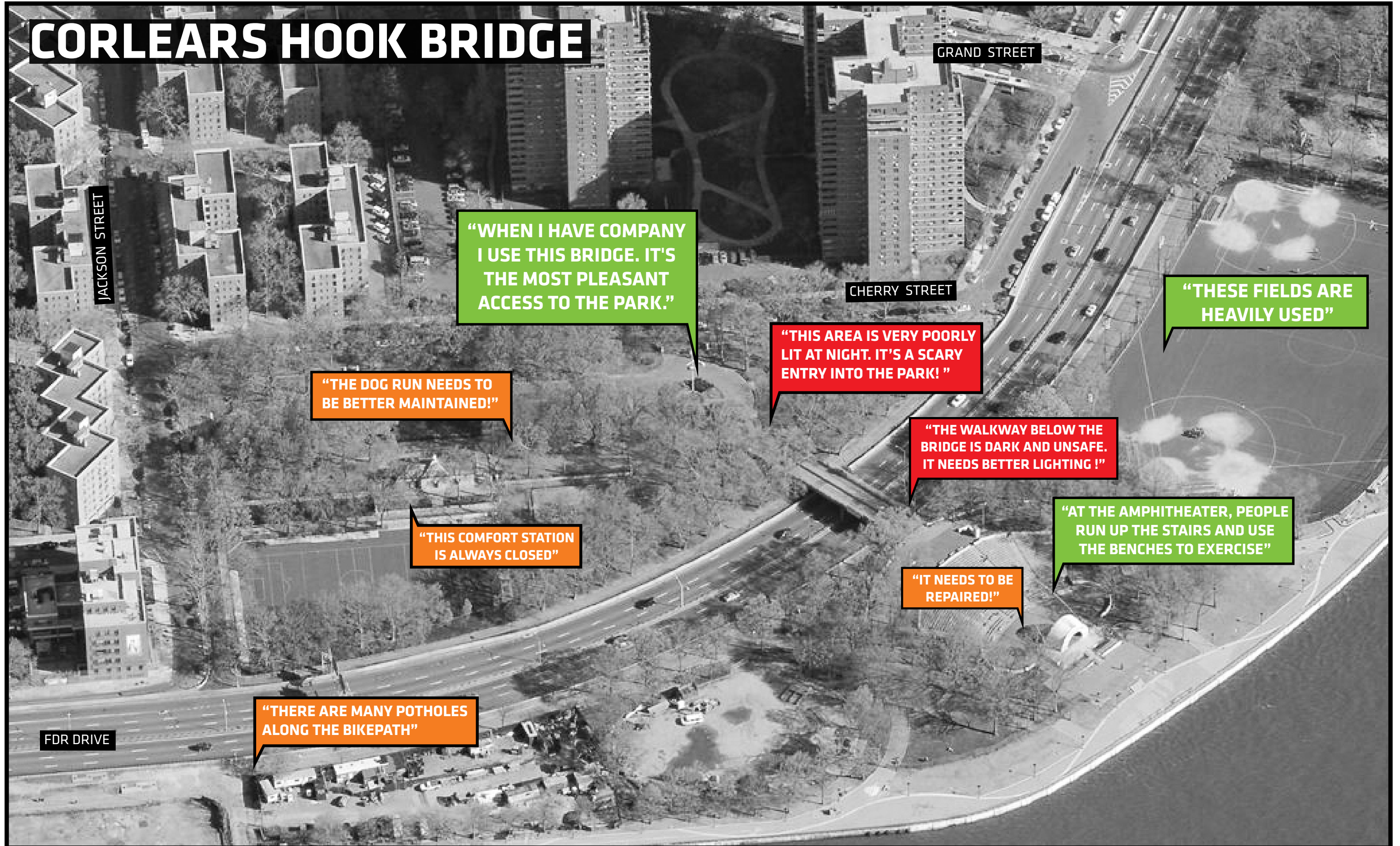
Concerns, likes, and dislikes were voiced about existing conditions in these areas of the park:



COMMUNITY FEEDBACK

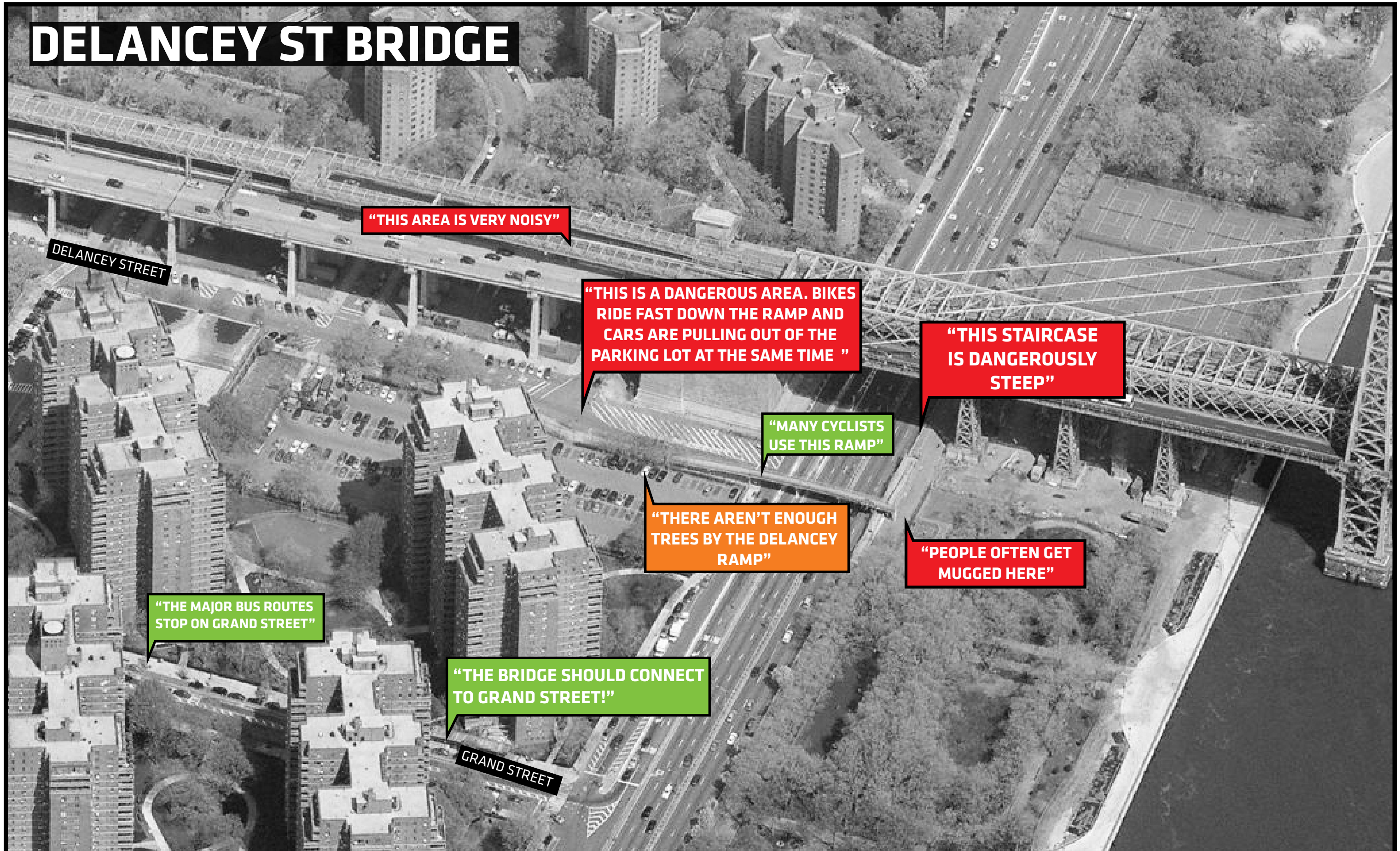
ACCESS TO EAST RIVER PARK

Community feedback on the Corlears Hook bridge



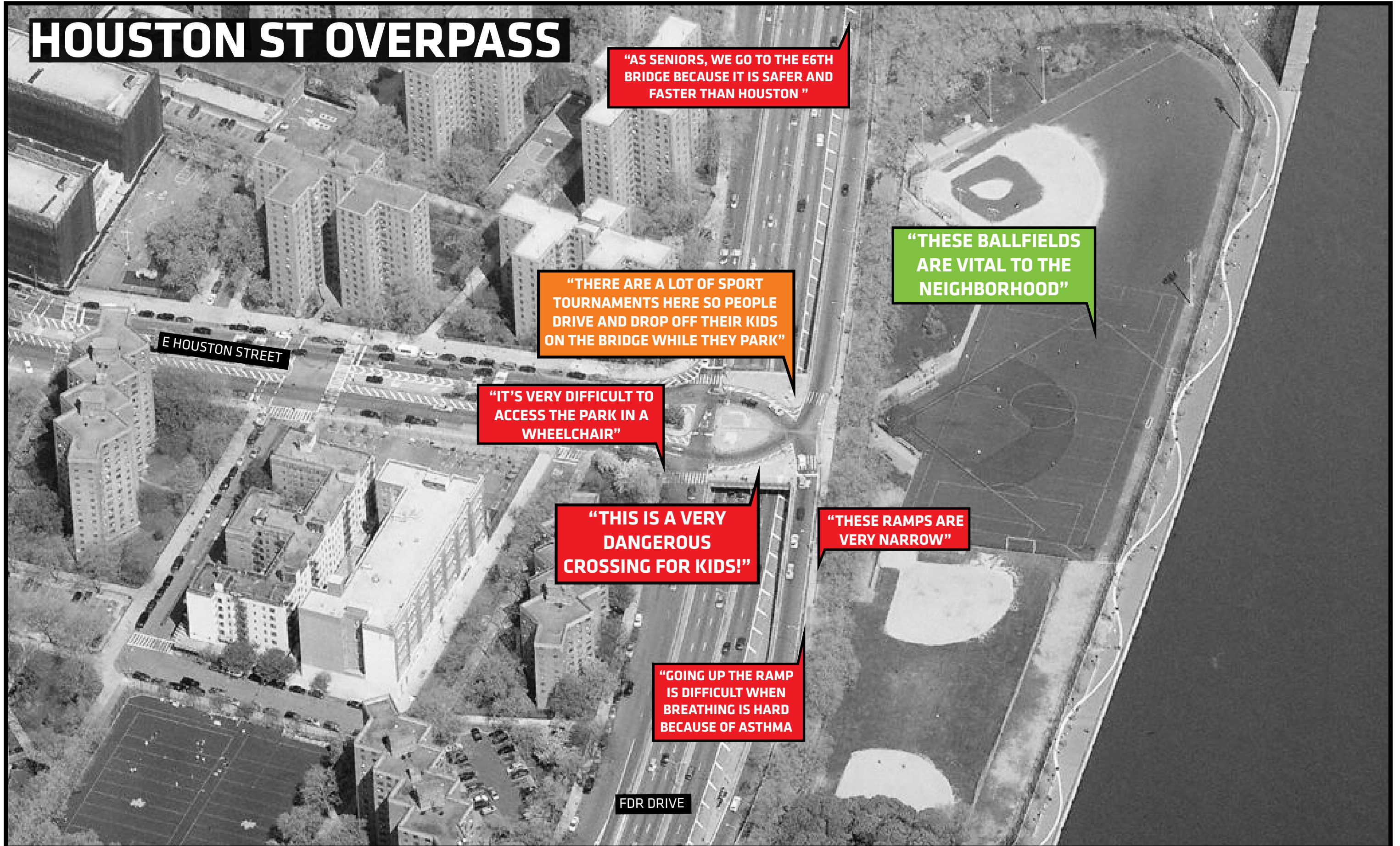
ACCESS TO EAST RIVER PARK

Community feedback on the Delancey St. Bridge



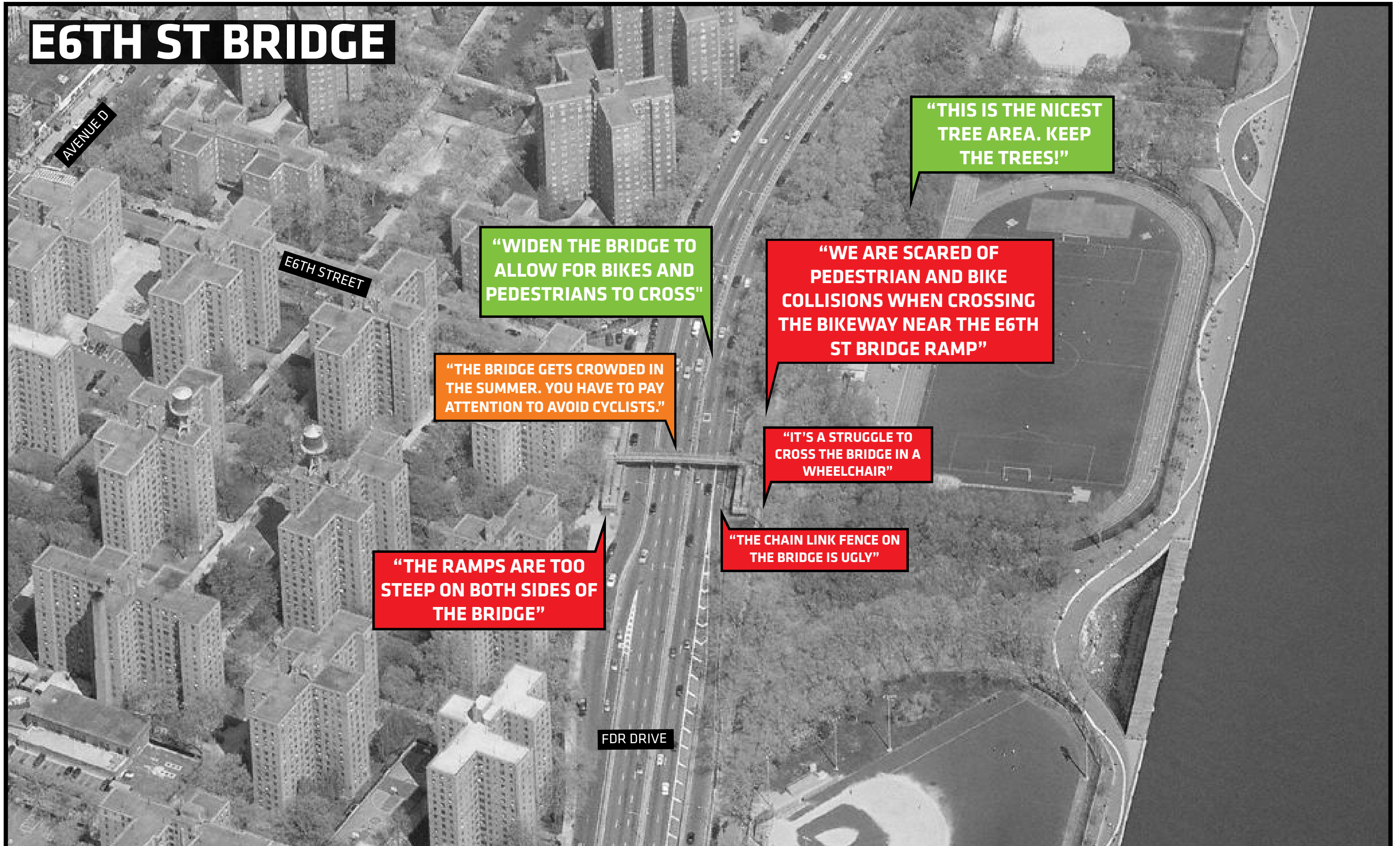
ACCESS TO EAST RIVER PARK

Community feedback on the Houston St. overpass



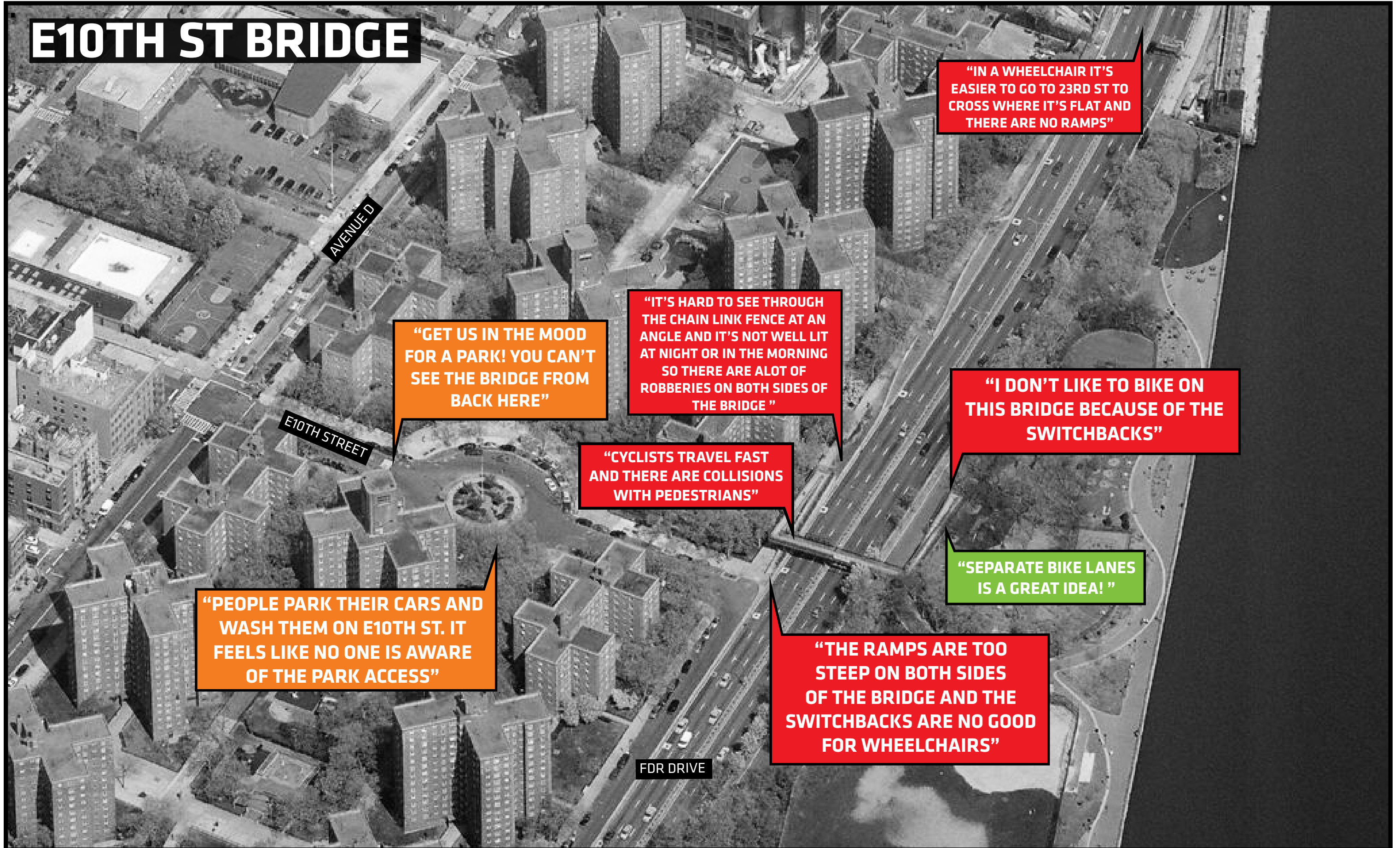
ACCESS TO EAST RIVER PARK

Community feedback on the E. 6th St. Bridge



ACCESS TO EAST RIVER PARK

Community feedback on the E. 10th St. Bridge



ACCESS TO EAST RIVER PARK

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



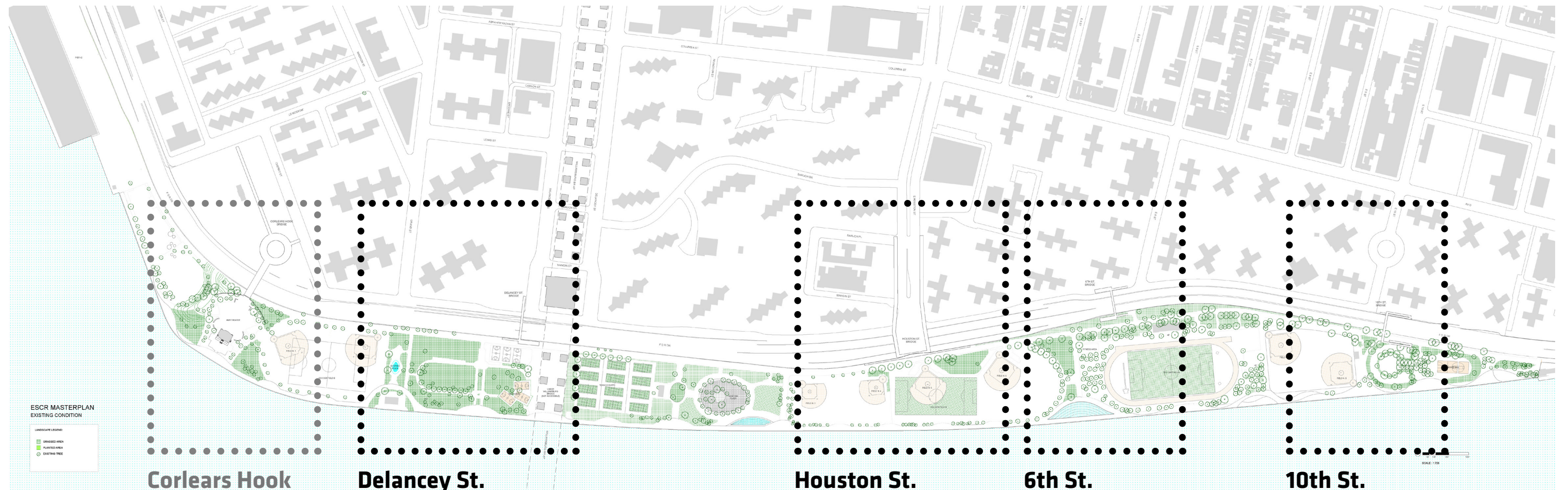
5) INCORPORATE SIGNAGE



6) CONSIDER PROGRAMMING AT ACCESS POINTS

DESIGN OPTIONS

What are the options to integrate better access and open spaces with the flood protection?



WORKSHOP ACTIVITY

DESIGN OPTIONS DISCUSSION

DESIGN OPTIONS

What are the options to integrate better access and open spaces with the flood protection?



WORKSHOP ACTIVITY

DESIGN OPTIONS DISCUSSION

EXAMPLE - 10TH STREET

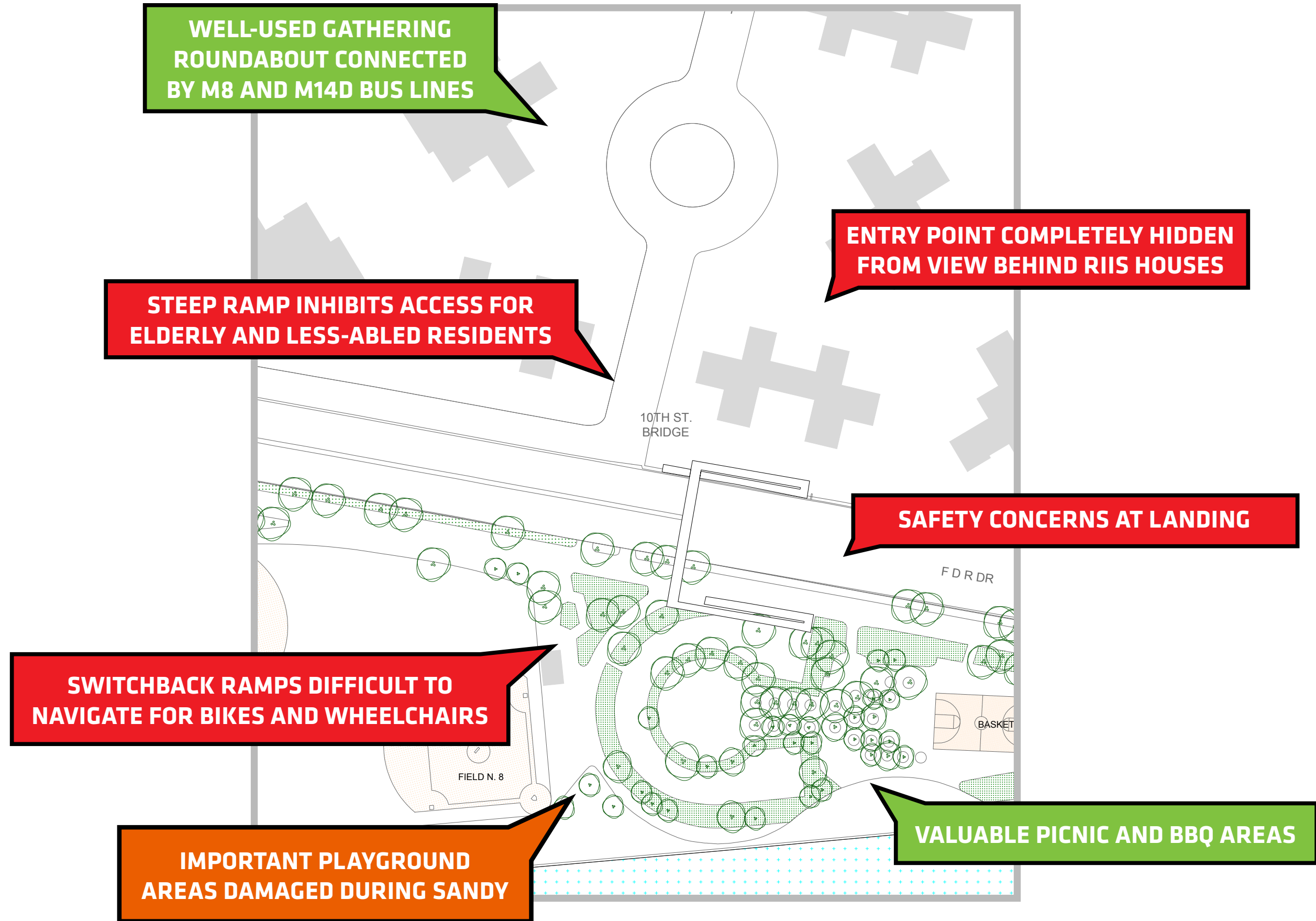
EXISTING CONDITIONS



10TH STREET BRIDGE

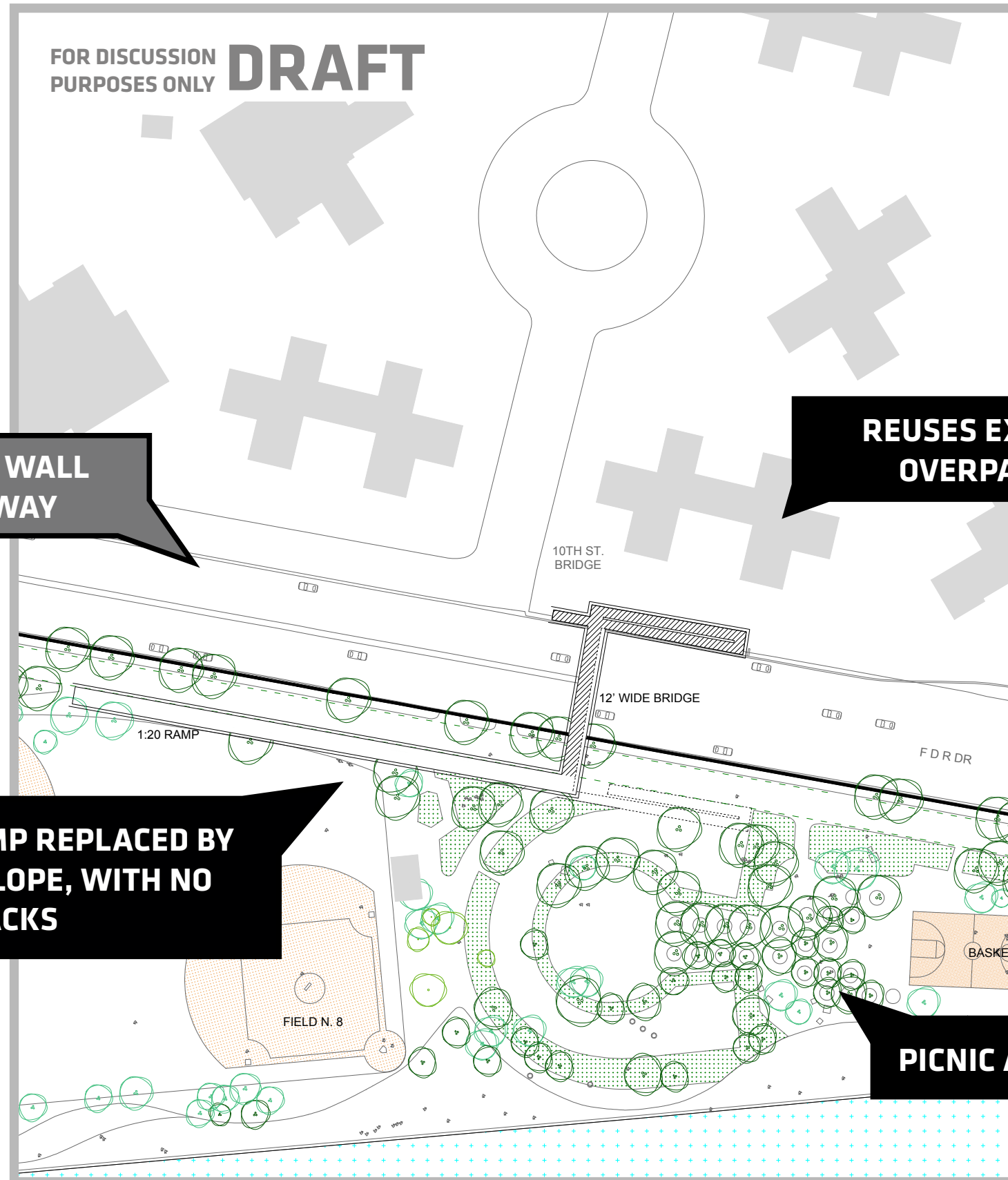
EXAMPLE - 10TH STREET

COMMUNITY FEEDBACK



EXAMPLE - 10TH STREET - ALTERNATIVE 1

BASELINE FLOOD PROTECTION



**SIMPLE FLOOD-PROTECTION WALL
PLACED ALONGSIDE HIGHWAY**

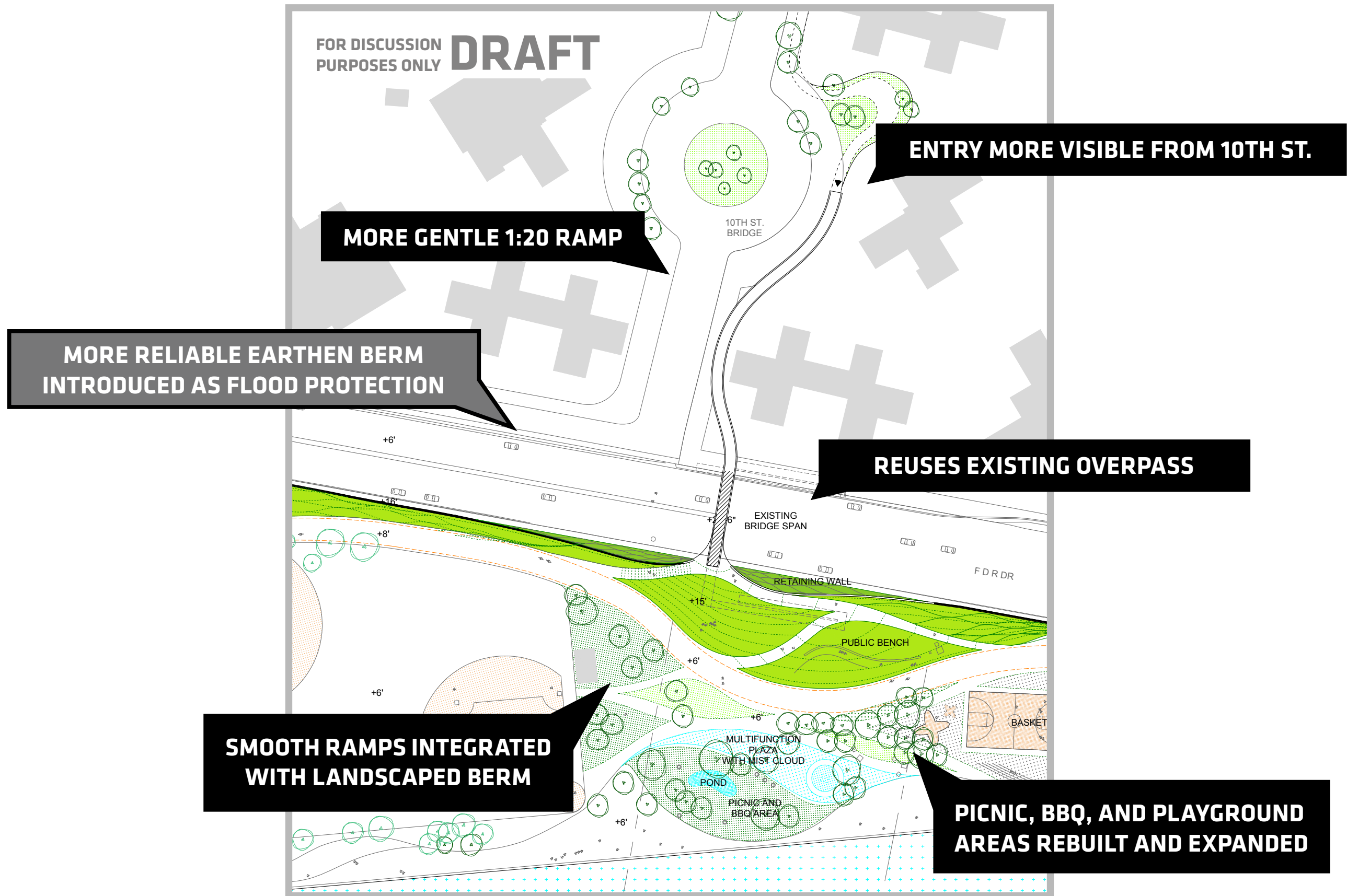
**REUSES EXISTING RAMP AND
OVERPASS ON CITY-SIDE**

**PARK-SIDE ENTRY RAMP REPLACED BY
MORE GENTLE 1:20 SLOPE, WITH NO
SWITCHBACKS**

PICNIC AND BBQ AREAS MAINTAINED

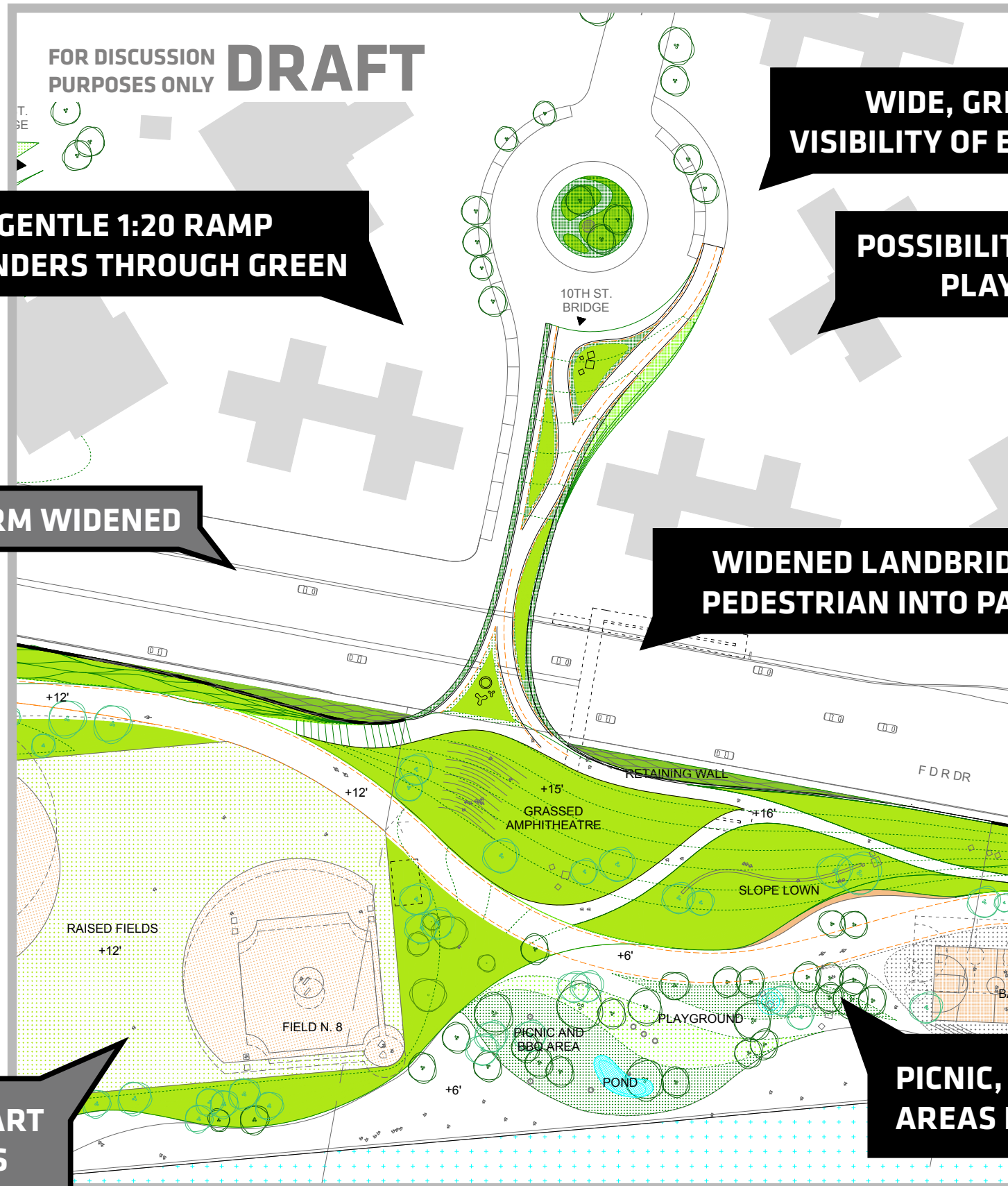
EXAMPLE - 10TH STREET - ALTERNATIVE 2

LEVEL 1 ACCESS AND OPEN SPACE IMPROVEMENTS



EXAMPLE - 10TH STREET - ALTERNATIVE 3

LEVEL 2 ACCESS AND OPEN SPACE IMPROVEMENTS



GENTLE 1:20 RAMP MEANDERS THROUGH GREEN

WIDE, GREEN SLOPE INCREASES VISIBILITY OF ENTRY RAMP FROM 10TH ST.

POSSIBILITY FOR COMMUNITY GARDEN OR PLAYGROUND SPACE AT ENTRY

EARTHEN BERM WIDENED

WIDENED LANDBRIDGE CARRIES BIKES AND PEDESTRIAN INTO PARK IN SEPARATE LANES

FIELDS ELEVATED 3-4 FT. AS PART OF BERM TO SOFTEN SLOPES

PICNIC, BBQ, AND PLAYGROUND AREAS REBUILT AND EXPANDED

THE AIM OF THIS EXERCISE IS TO:

GAIN FEEDBACK ABOUT THE COMMUNITY'S PRIORITIES, IN THE CONTEXT OF OVERALL PROJECT BUDGET

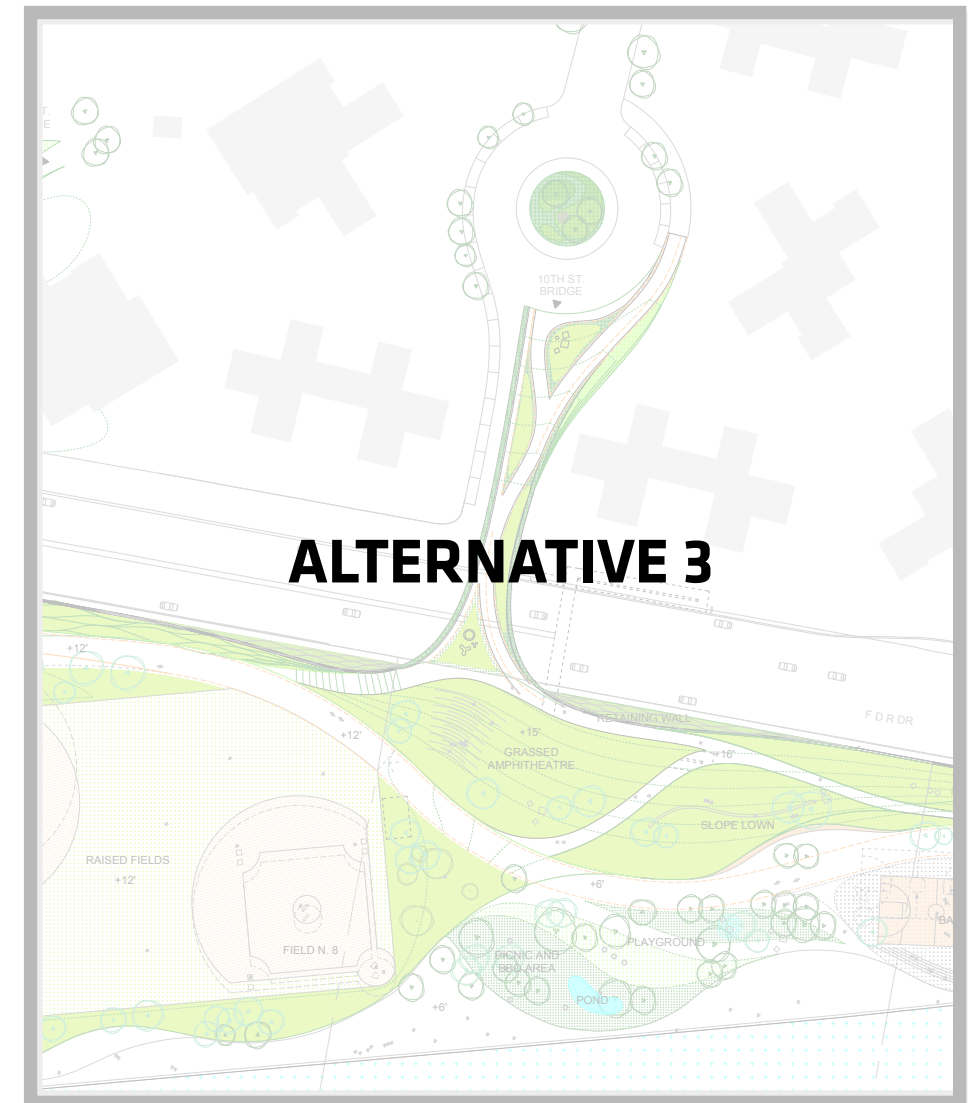
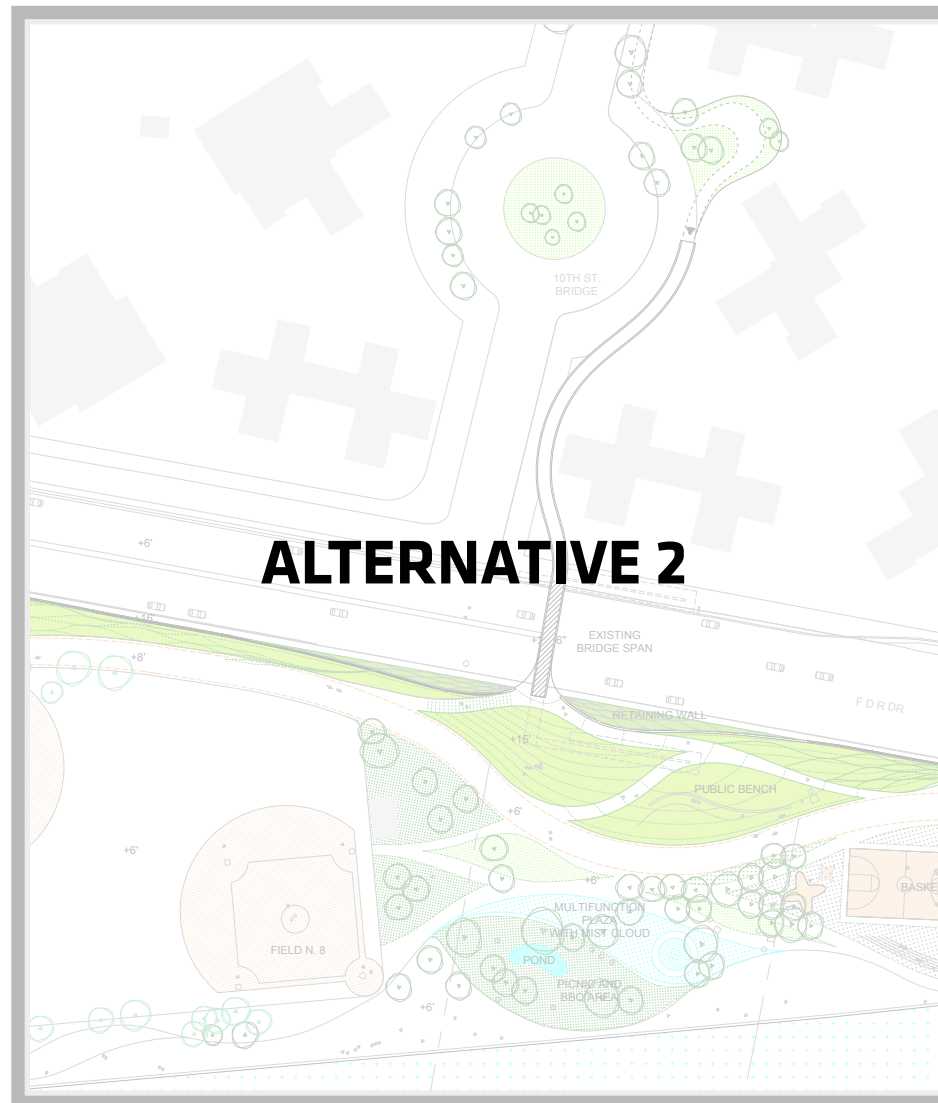
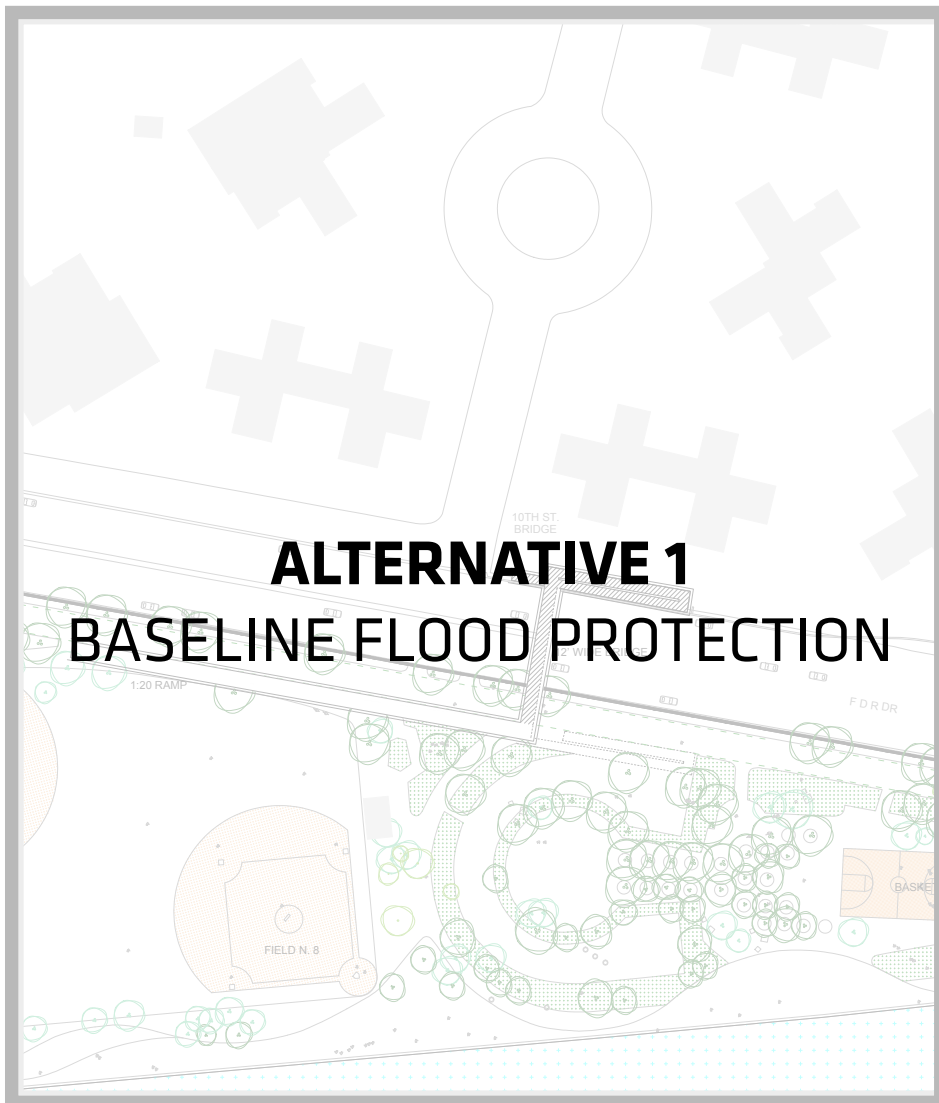
I.E., WHICH OF THESE IMPROVEMENTS WOULD BE THE MOST MEANINGFUL CHANGES TO THE PARK?

-DUE TO LIMITED PROJECT RESOURCES, IT IS ANTICIPATED THAT NOT ALL AREAS WILL BE ABLE TO UNDERGO HIGH OR MID-COST OPEN SPACE/ACCESS IMPROVEMENTS

-COSTS ARE STILL IN DEVELOPMENT, AND WILL BE SHARED WITH THE PUBLIC AT THE NEXT PUBLIC MEETINGS

-BASED ON FEEDBACK RECEIVED HERE, ALTERNATIVES FOR OVERALL PROJECT AREA WILL BE DEVELOPED, FOR FINAL FEEDBACK IN OCTOBER

EVALUATING THE ALTERNATIVES

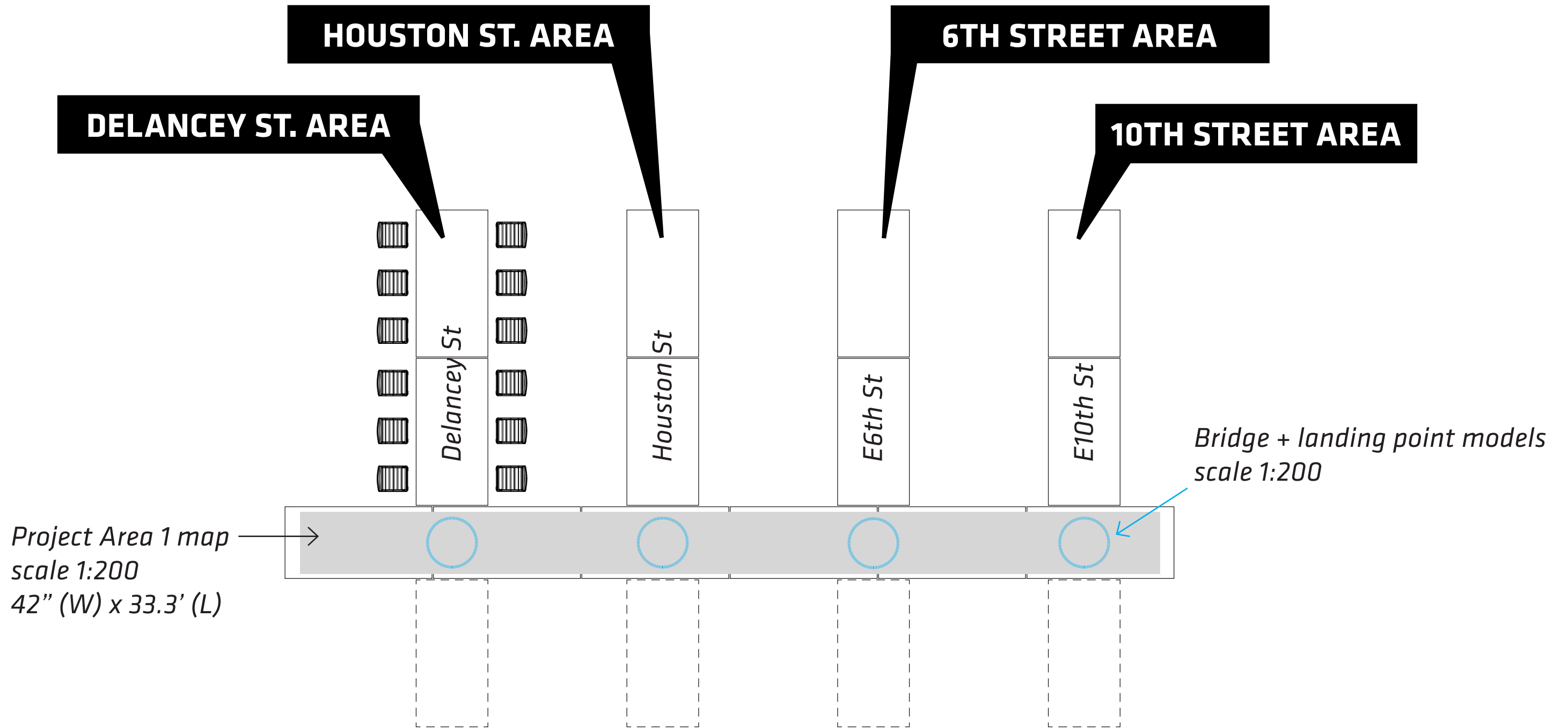


FOR EACH ACCESS POINT, WE WILL DISCUSS THE FOLLOWING QUESTIONS ABOUT THE OPTIONS:

- WHAT DO YOU LIKE AND DISLIKE ABOUT THIS OPTION?
- HOW WOULD THIS OPTION IMPACT YOUR USE OF THE PARK?
- IF YOU COULD ADD OR CHANGE ANYTHING ABOUT THIS OPTION WHAT WOULD IT BE?
- HOW BIG A PRIORITY SHOULD THIS OPTION BE WITHIN THE CONTEXT OF THE ENTIRE PROJECT, AND LIMITED RESOURCES?

TONIGHT'S ACTIVITY

Table Set-Up



TONIGHT WE WILL BE DISCUSSING THE OPTIONS BY AREA

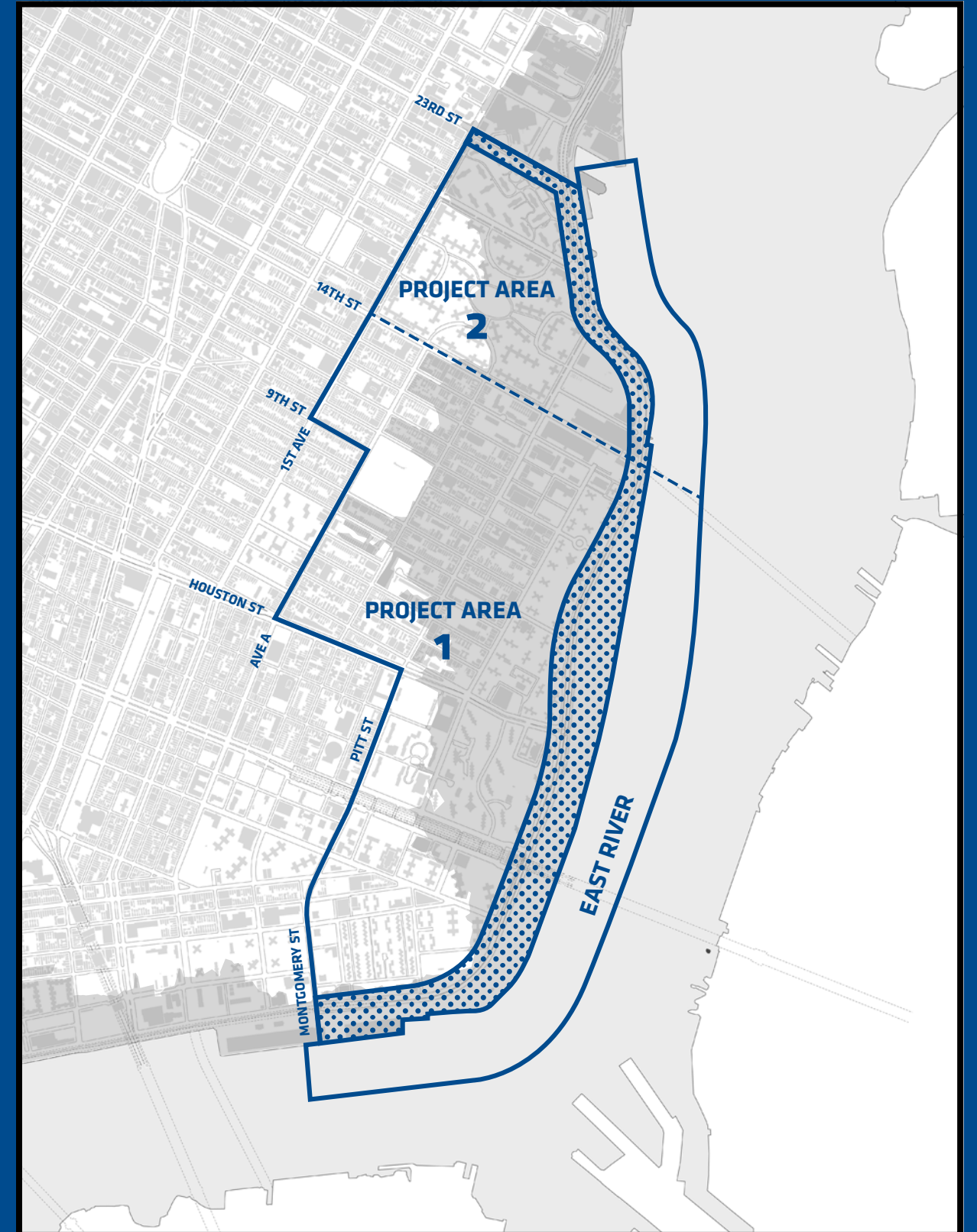
NEXT STEPS

NEXT STEPS

STAKEHOLDER ENGAGEMENT

THE NEXT WORKSHOP FOR PROJECT AREA 1,
SOUTH WILL BE HELD TOMORROW:

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



#ONENYC

nyc.gov/resiliency

QUESTIONS/DISCUSSION

E: nycresiliency@cityhall.nyc.gov

Twitter: [@NYClimate](https://twitter.com/NYClimate)

FAQ'S

HOW LONG IS CONSTRUCTION EXPECTED TO LAST?

WILL THE ENTIRE PARK/AREA BE UNDER CONSTRUCTION ALL AT ONCE?

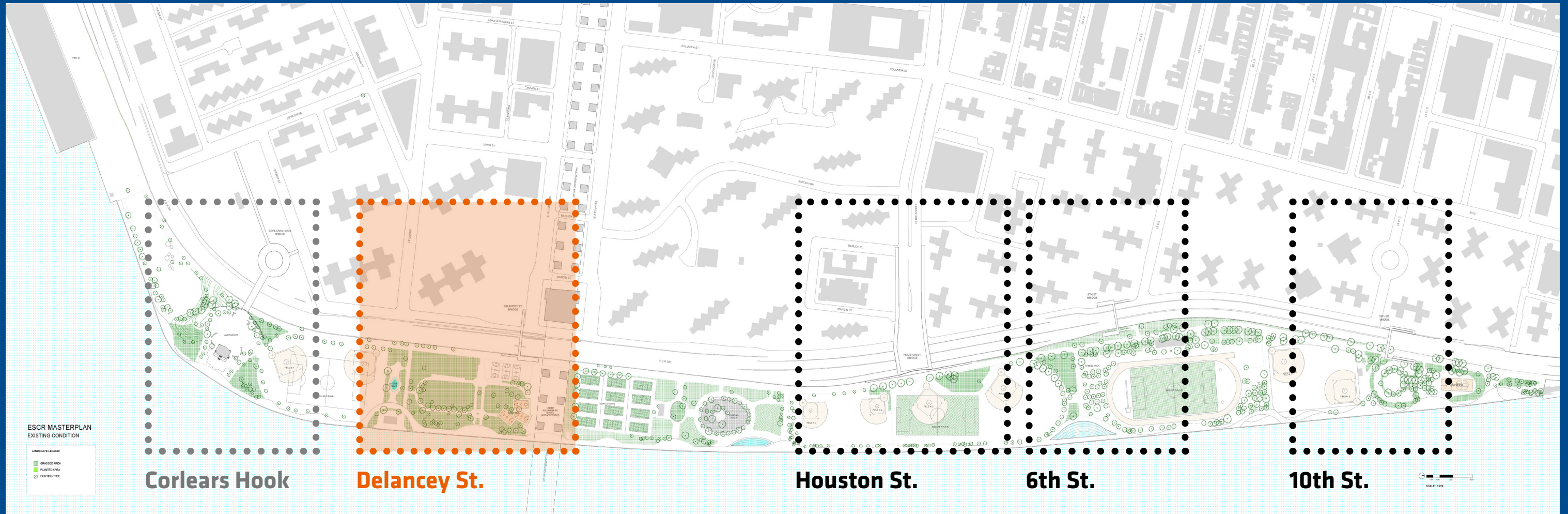
WHEN WILL THE ENVIRONMENTAL IMPACT STATEMENT BE PREPARED?

WILL THE PUBLIC BE ABLE TO CONTINUE TO BE INVOLVED AND PROVIDE COMMENTS/SUGGESTIONS AS THE PROJECT MOVES FORWARD?

REPORT BACK

REPORT BACK

DESIGN ALTERNATIVES



DELANCEY STREET

REPORT BACK

DESIGN ALTERNATIVES



ALTERNATIVE 1
BASELINE FLOOD PROTECTION

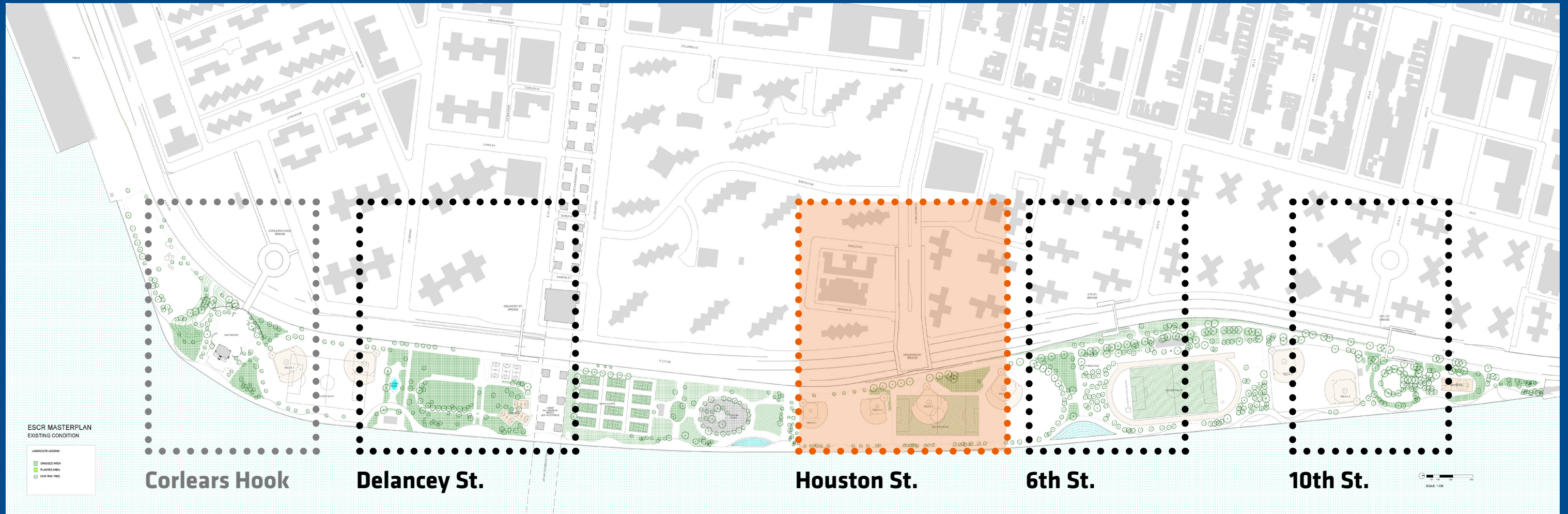
ALTERNATIVE 2

ALTERNATIVE 3

DELANCEY STREET

REPORT BACK

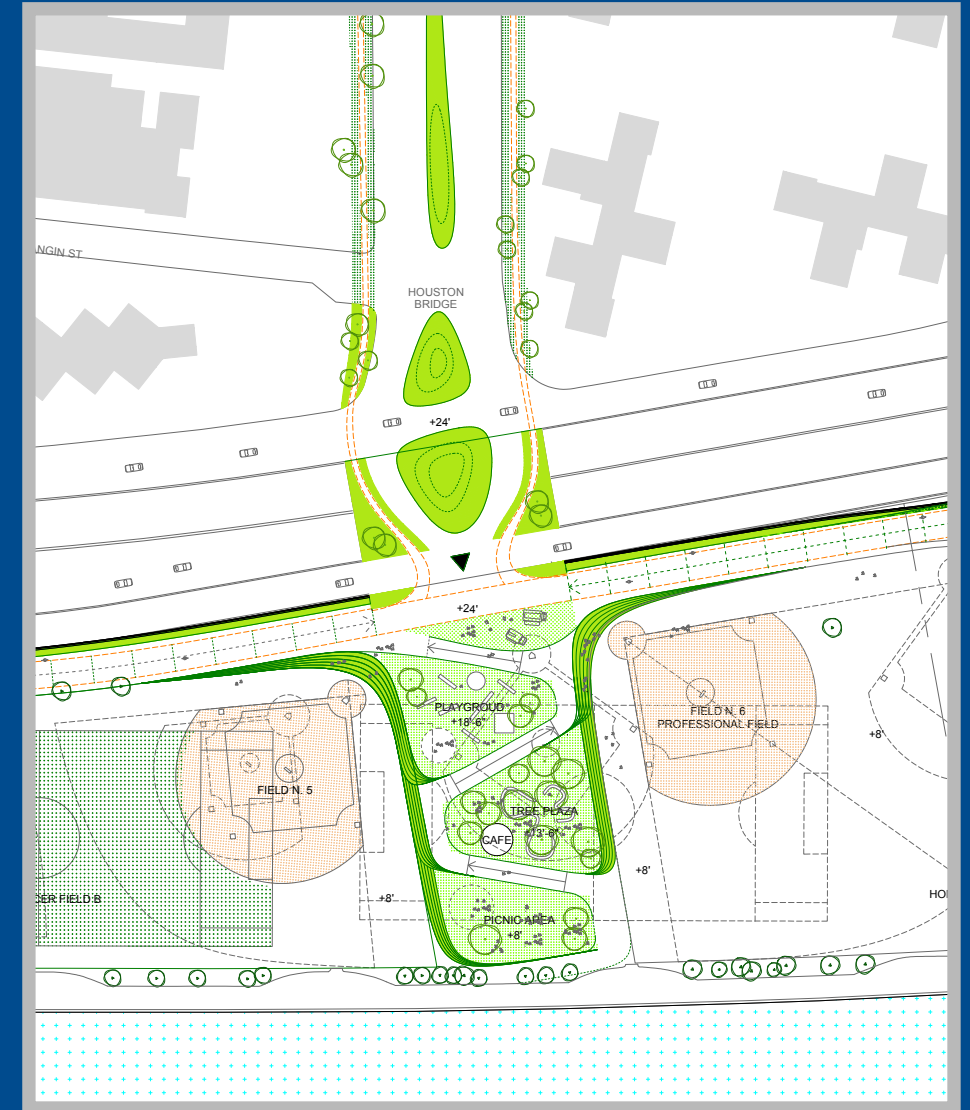
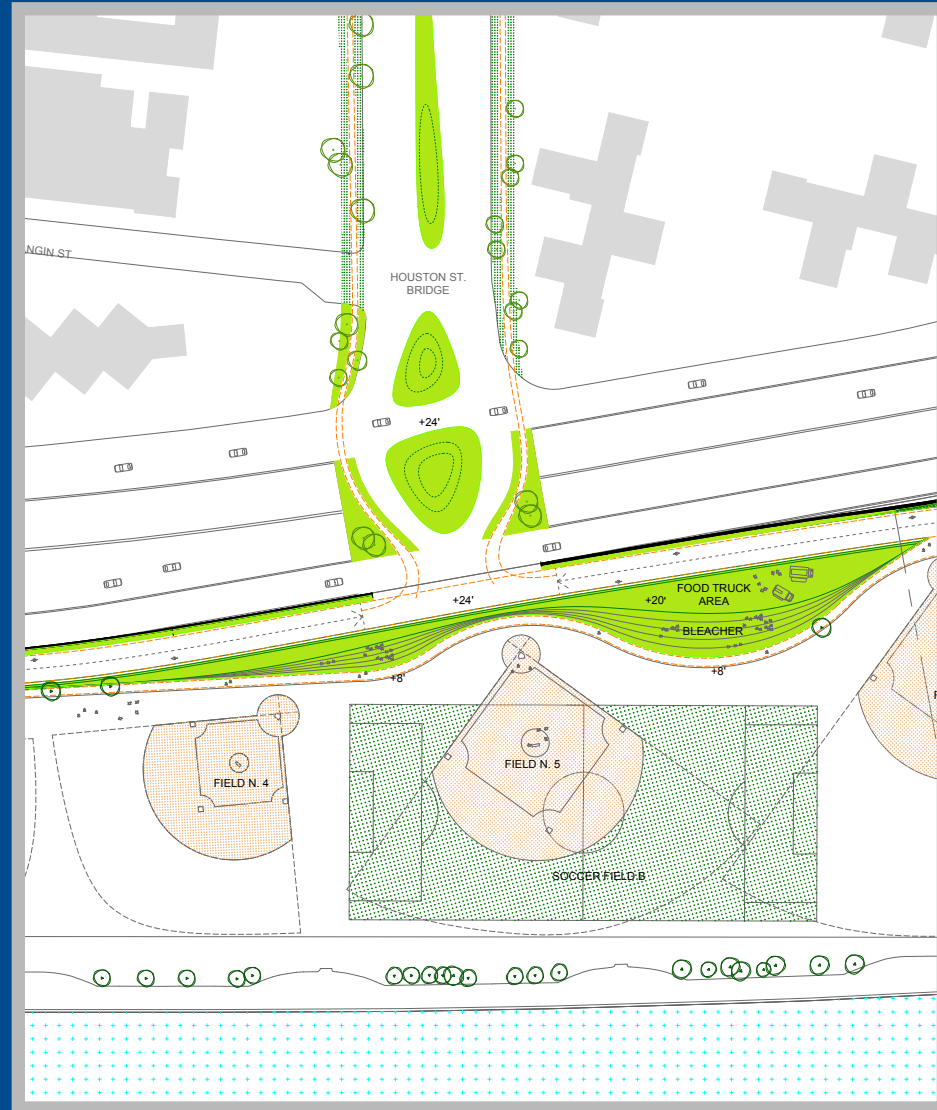
DESIGN ALTERNATIVES



HOUSTON STREET

REPORT BACK

DESIGN ALTERNATIVES



ALTERNATIVE 1
BASELINE FLOOD PROTECTION

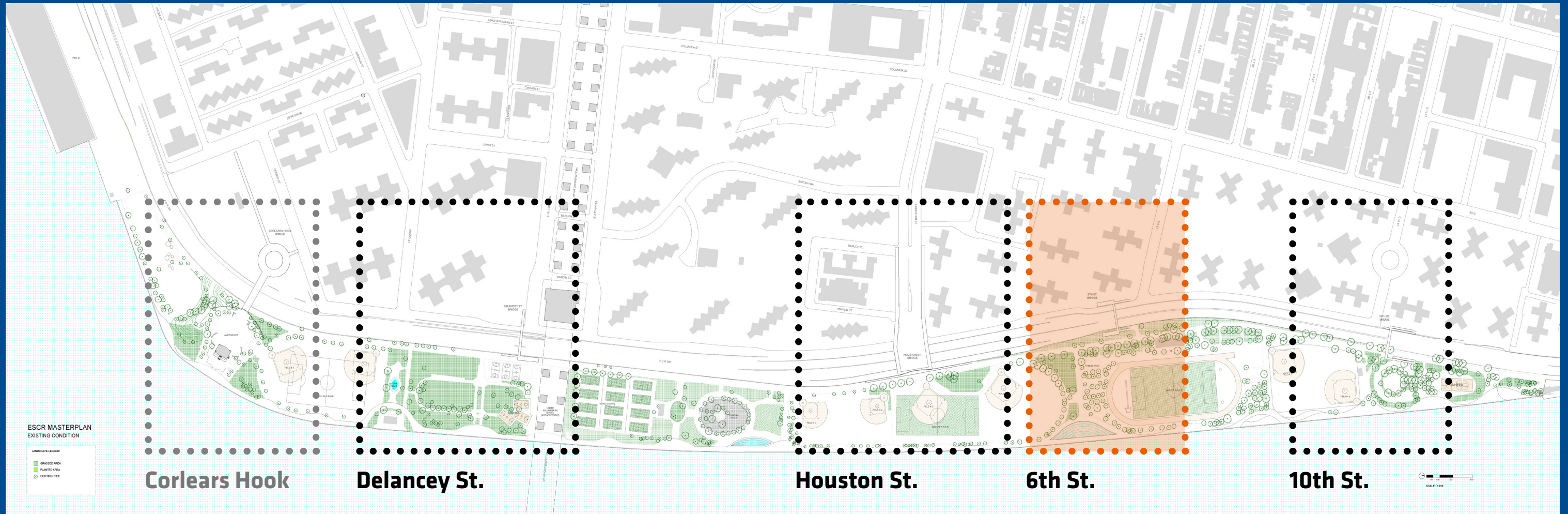
ALTERNATIVE 2

ALTERNATIVE 3

HOUSTON STREET

REPORT BACK

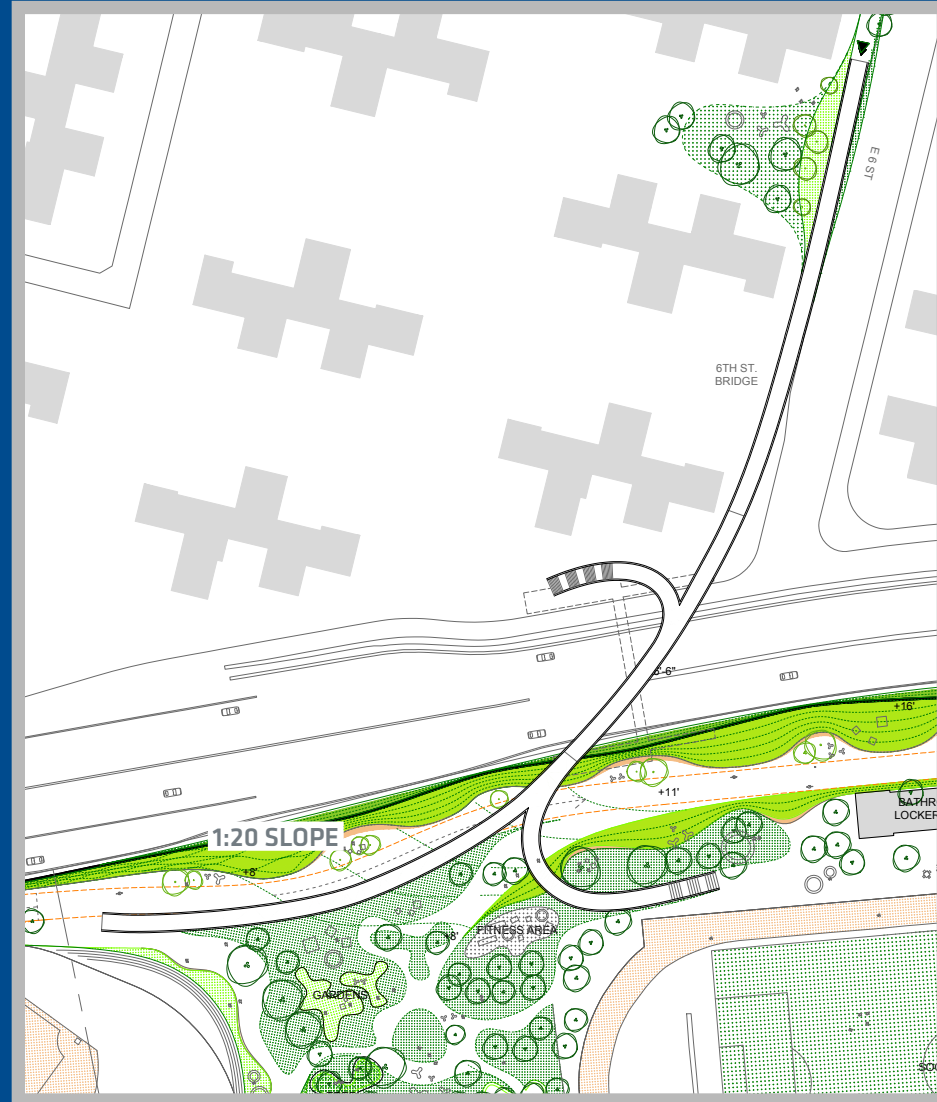
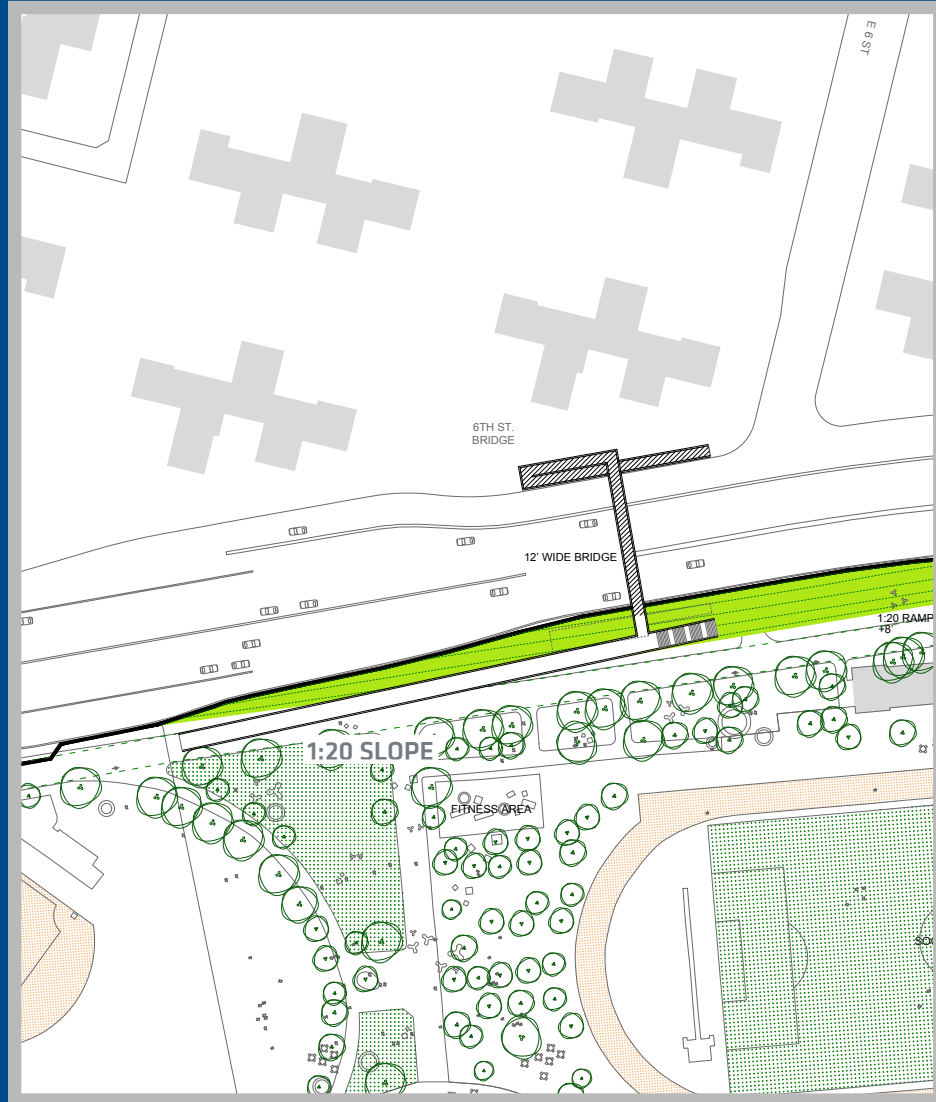
DESIGN ALTERNATIVES



6TH STREET

REPORT BACK

DESIGN ALTERNATIVES



ALTERNATIVE 1
BASELINE FLOOD PROTECTION

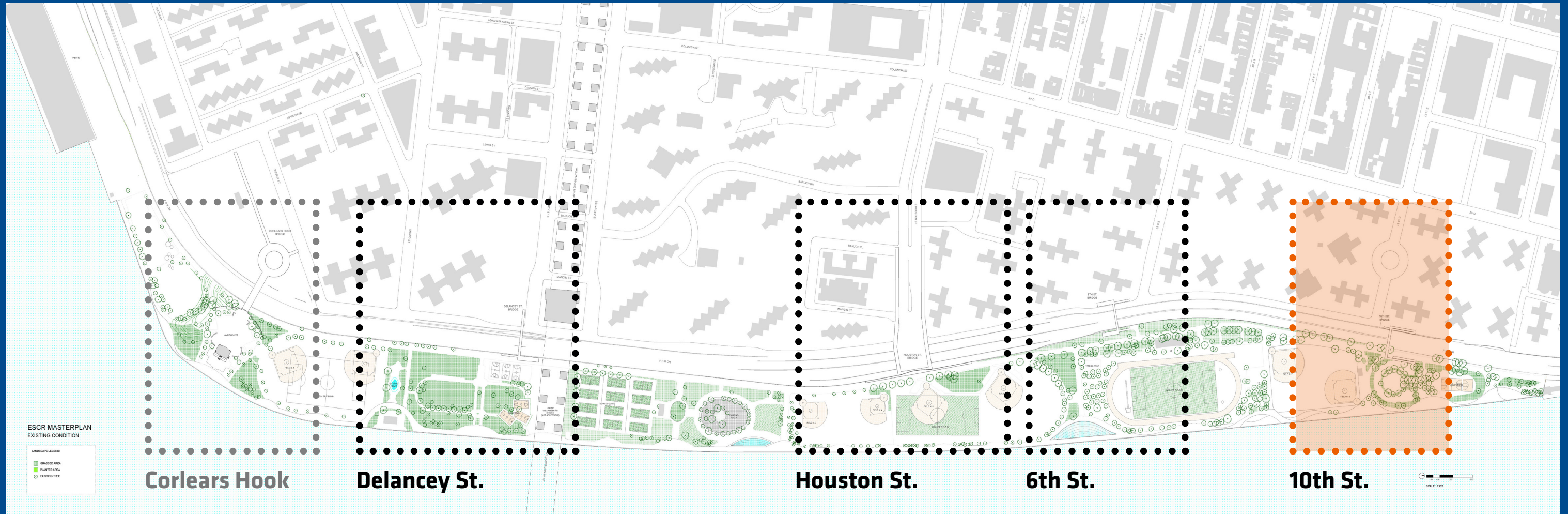
ALTERNATIVE 2

ALTERNATIVE 3

6TH STREET

REPORT BACK

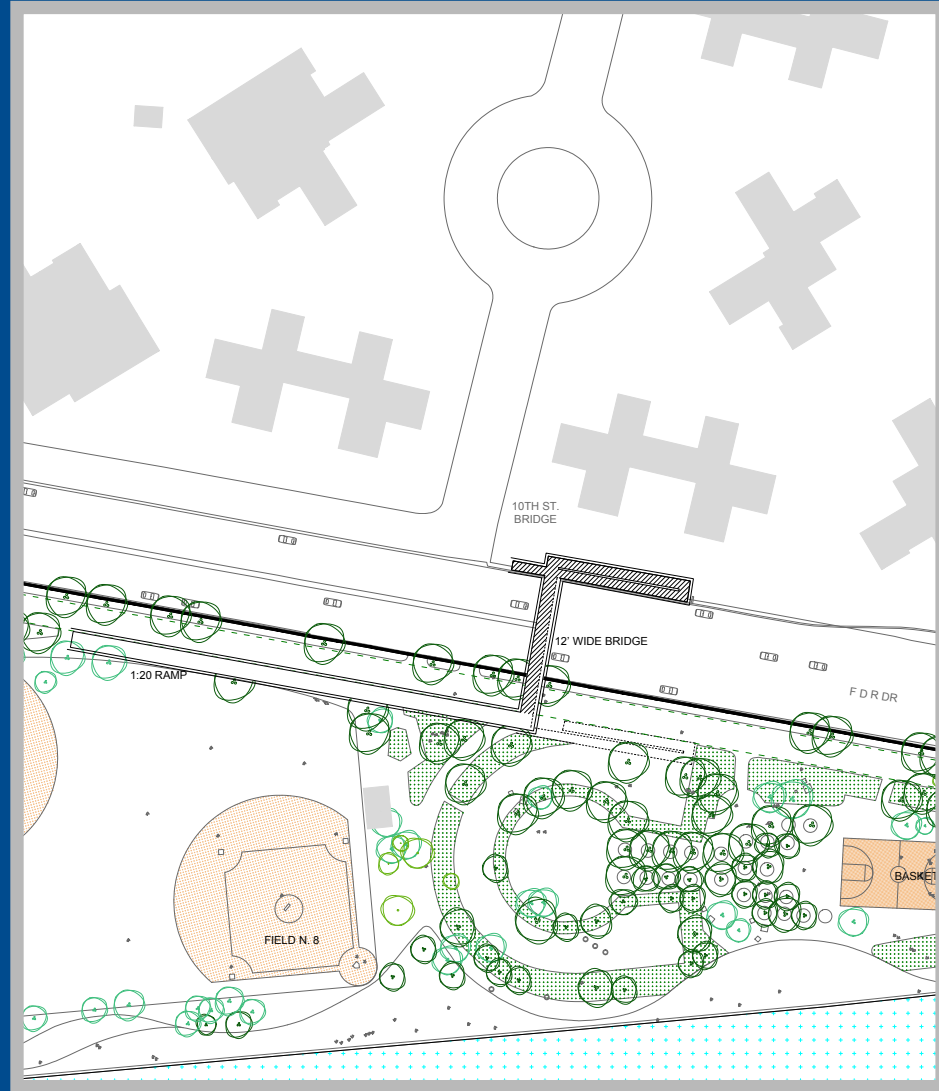
DESIGN ALTERNATIVES



10TH STREET

REPORT BACK

DESIGN ALTERNATIVES



ALTERNATIVE 1
BASELINE FLOOD PROTECTION

ALTERNATIVE 2

ALTERNATIVE 3

10TH STREET