

SOUTH BATTERY PARK CITY RESILIENCY

CB1 UPDATE

MARCH 21, 2022

AGENDA

1. INTERIOR DRAINAGE

2. CONSTRUCTION STAGING

3. PDC - DESIGN UPDATES

THE BATTERY & ALBERTI MARKER

PIER A PLAZA

EXPOSED FLOODWALL

BATTERY PLACE

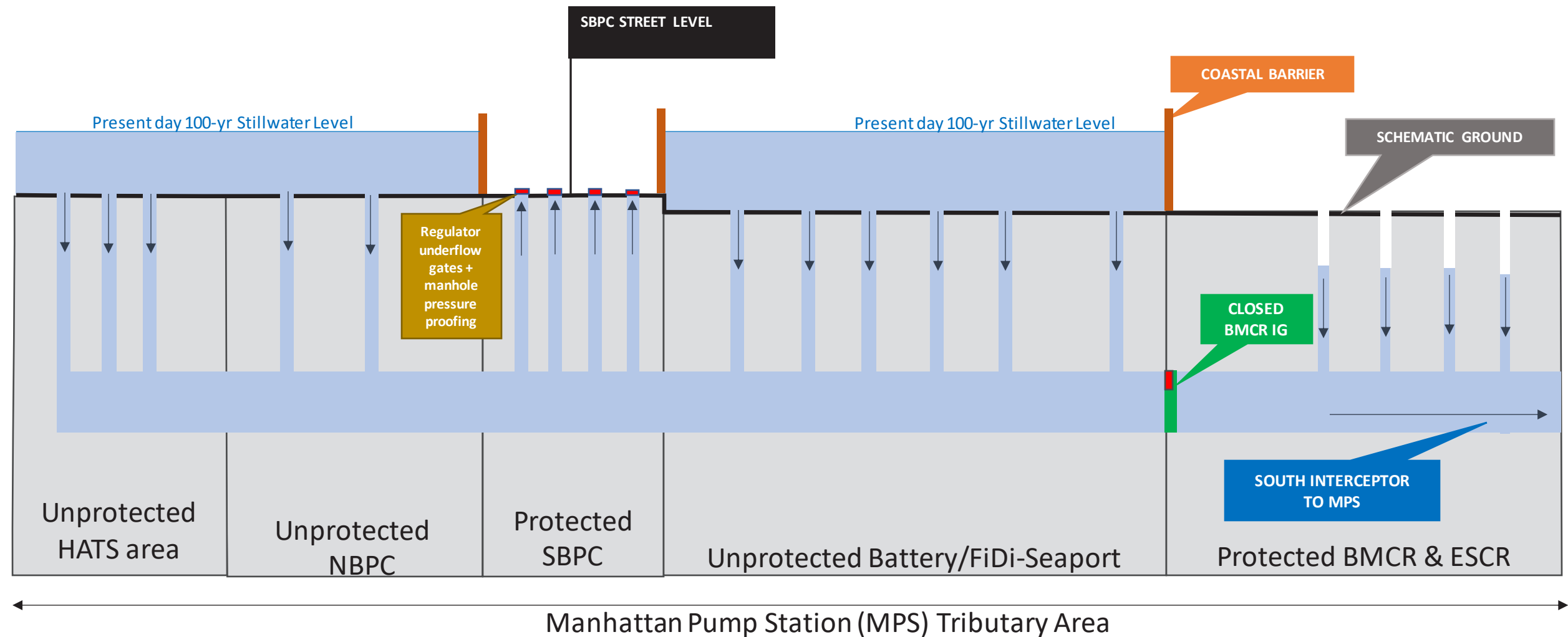
4. PAVILION SERVICE ENTRANCE

INTERIOR DRAINAGE

INTERIOR DRAINAGE | UPDATE – NEAR SURFACE ISOLATION

- Coordination with NYCDEP led to adoption of Near-Surface Isolation (NSI) instead of Interceptor Isolation Gates (IG)

What is NSI?

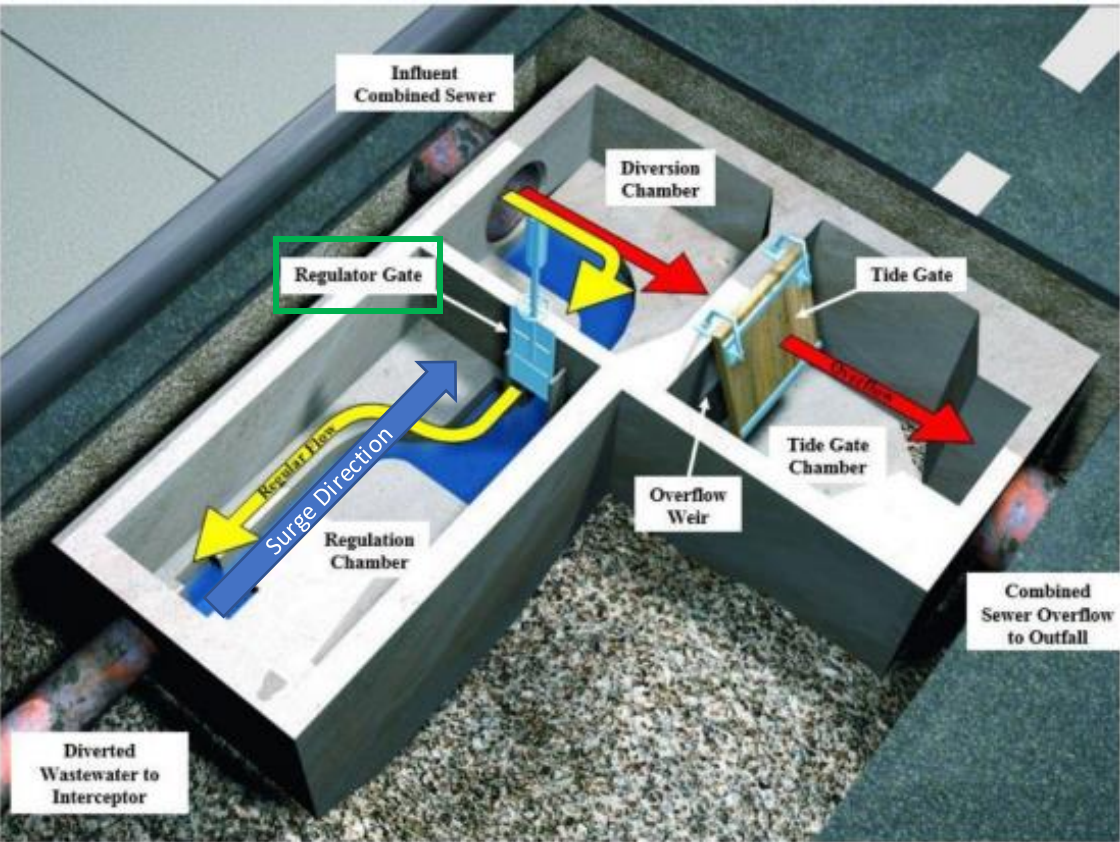


Stops the surge from flooding the streets by isolating the interceptor closer to street level

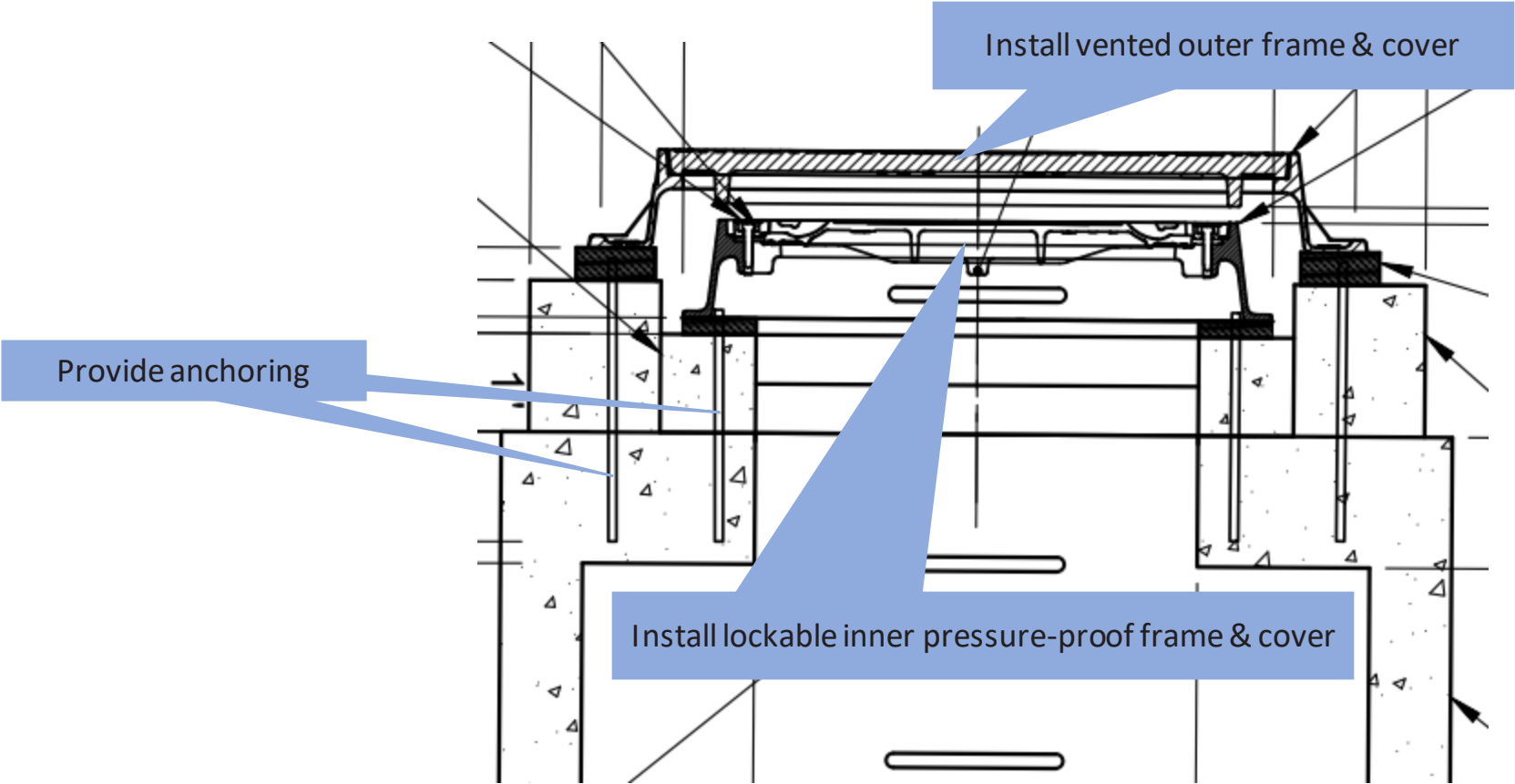
Interceptor isolation gates (IG) would isolate the interceptor at a deeper level (interceptor level)

INTERIOR DRAINAGE | UPDATE – NEAR SURFACE ISOLATION

NSI Elements



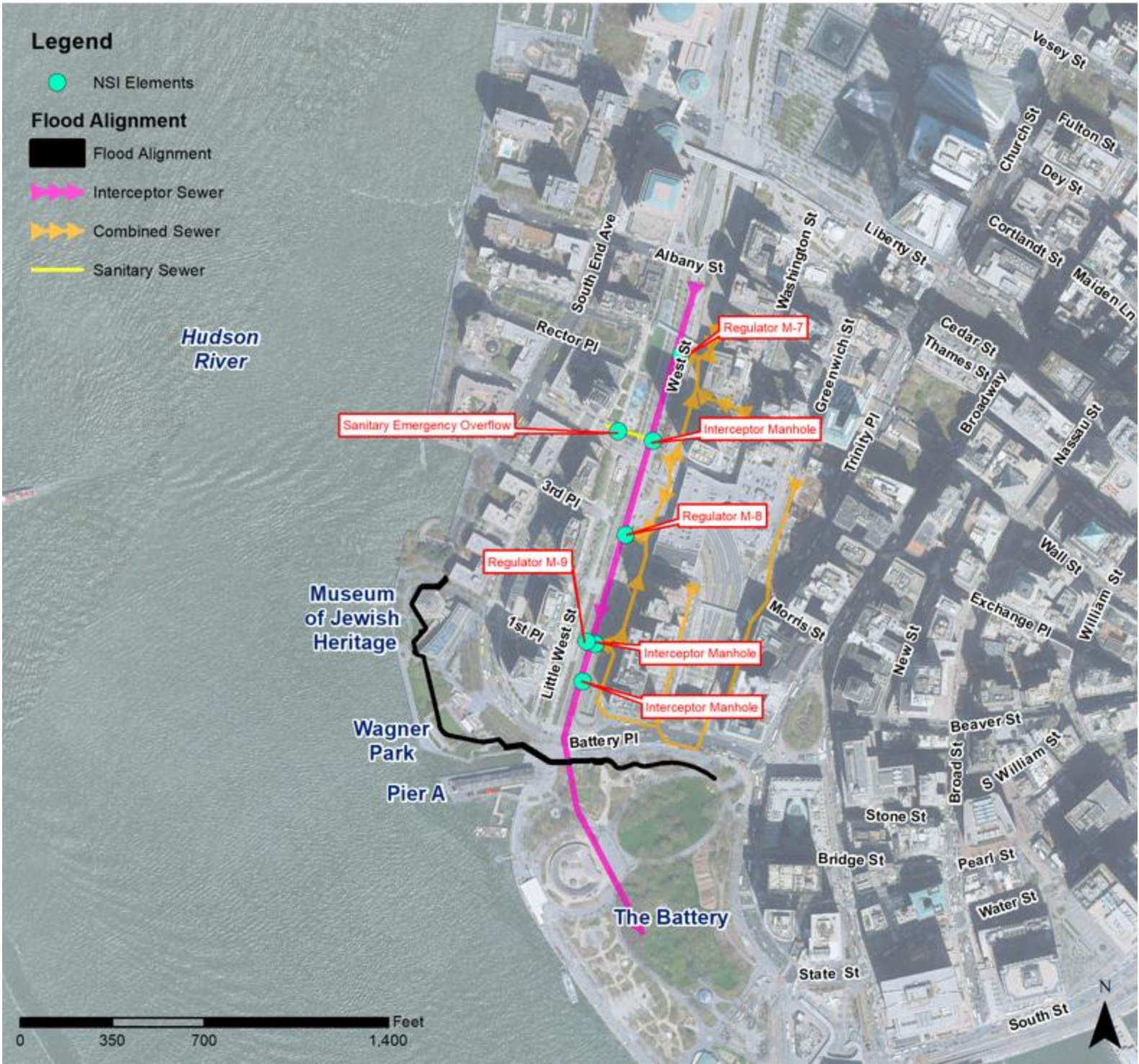
Regulator Gates at Existing Regulator Structures



Pressure-proof Existing Manholes

INTERIOR DRAINAGE | UPDATE – NEAR SURFACE ISOLATION

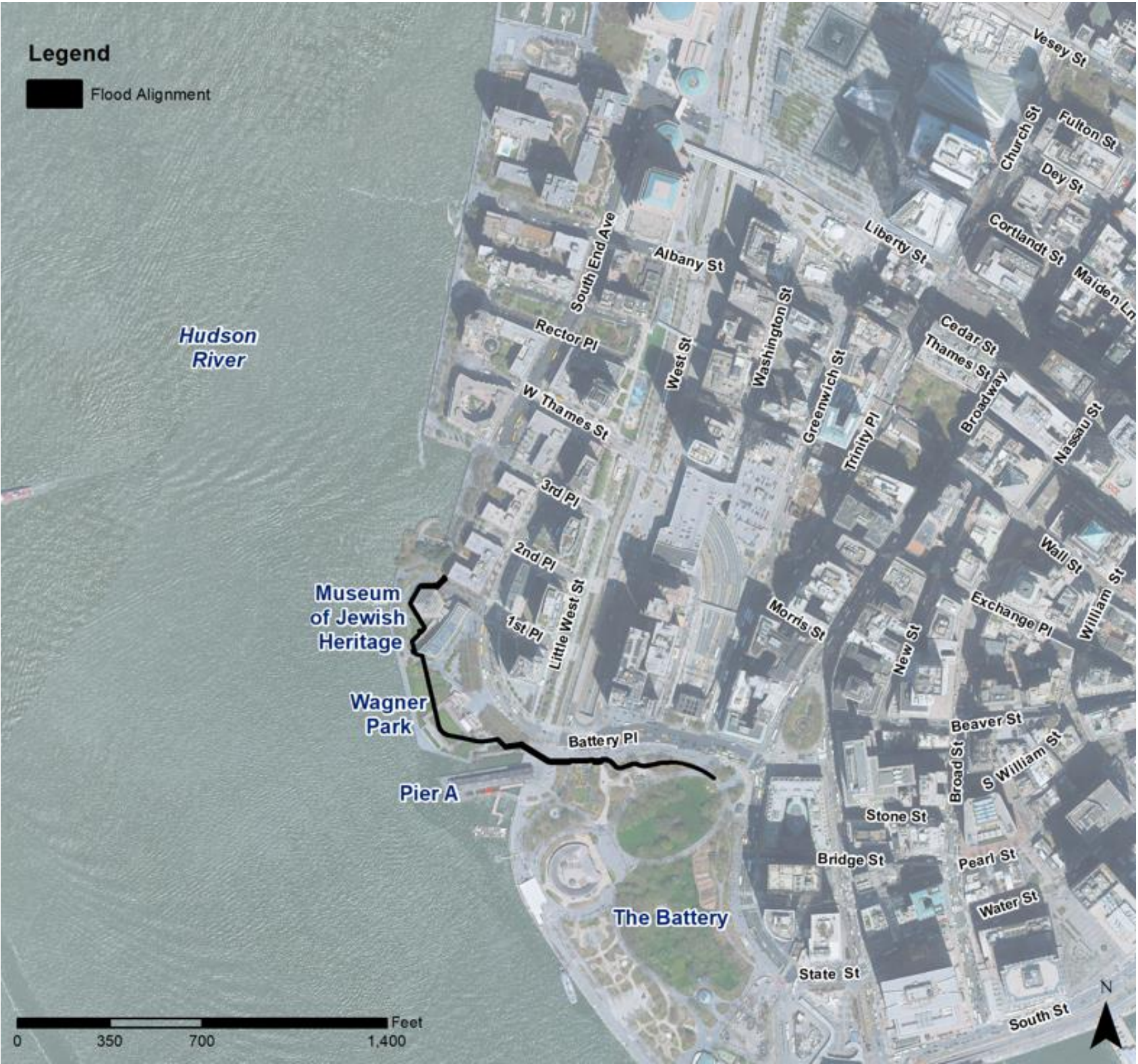
NSI Locations



INTERIOR DRAINAGE | UPDATE – NEAR SURFACE ISOLATION

NSI Street Flooding Reduction

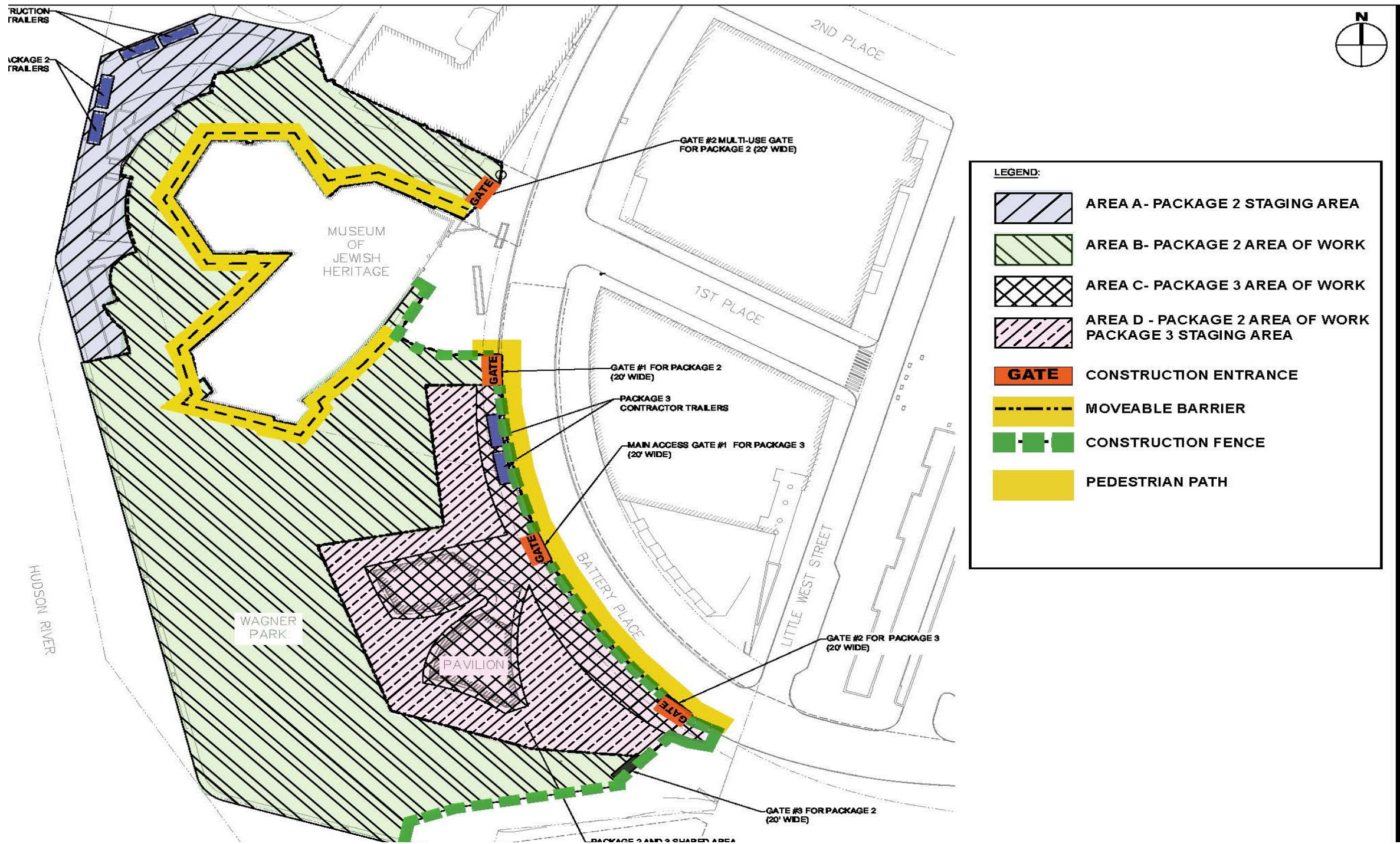
All street flooding pooling areas are less than 1 ft average depth within SBPCR.



NSI results in NO mappable flooding within SBPCR area in LOMR

CONSTRUCTION STAGING

SITE LOGISTICS DURING CONSTRUCTION: MJH AND WAGNER PARK



SITE SIGNAGE DURING CONSTRUCTION

Site Signage:

- DOB Required Signage
 - Placed at key site access points
 - Project Informational Panel
 - Permits & Safety Signage
- Project Specific Informational Signage
 - Placed along Battery Place fence frontage
 - Placed along northern site boundary
 - Content yet to be defined, but will target a resiliency and informational theme



SITE SIGNAGE DURING CONSTRUCTION



GENERAL CONSTRUCTION INFORMATION

Anticipated Project Duration:

- MJH, Wagner Park and Wagner Park Pavilion: July 2022-July 2024

Typical Days/Hours of Work:

- Mon-Fri; 7:00-3:30pm
- Sat; 8:00-4:00pm
- Shifts may be extended
- Work activities such as road resurfacing and utility work may be done off hours to minimize traffic/stakeholder impact

Flaggers will be present for all construction deliveries to ensure pedestrian and cyclist safety

A protected pedestrian path will be provided in the street adjacent to the sidewalk closure on the west side of Battery Place during the reconstruction of Wagner Park.

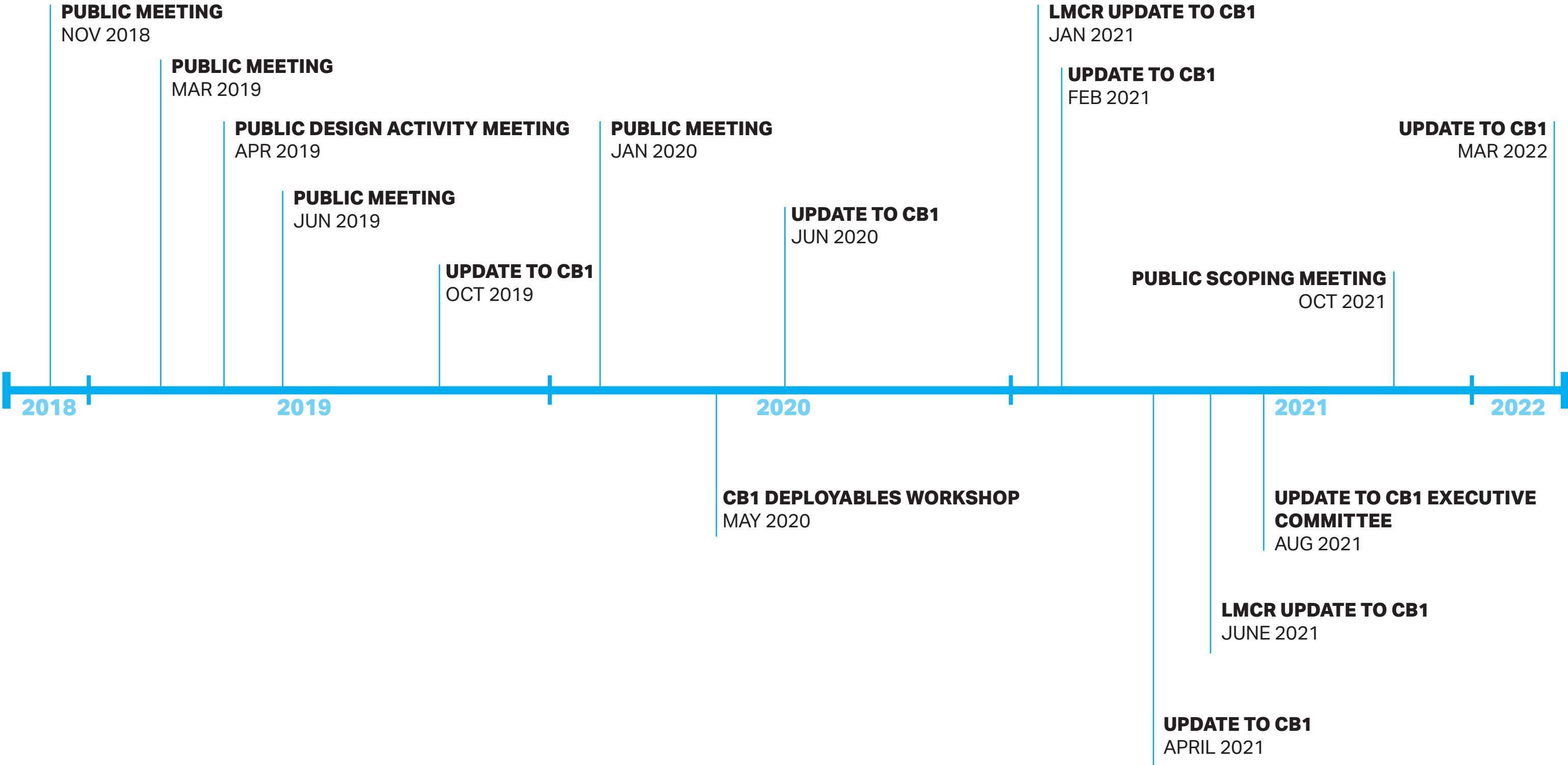
Affected bus stop will be shifted to accommodate construction in coordination with MTA Buses

PDC - DESIGN UPDATES

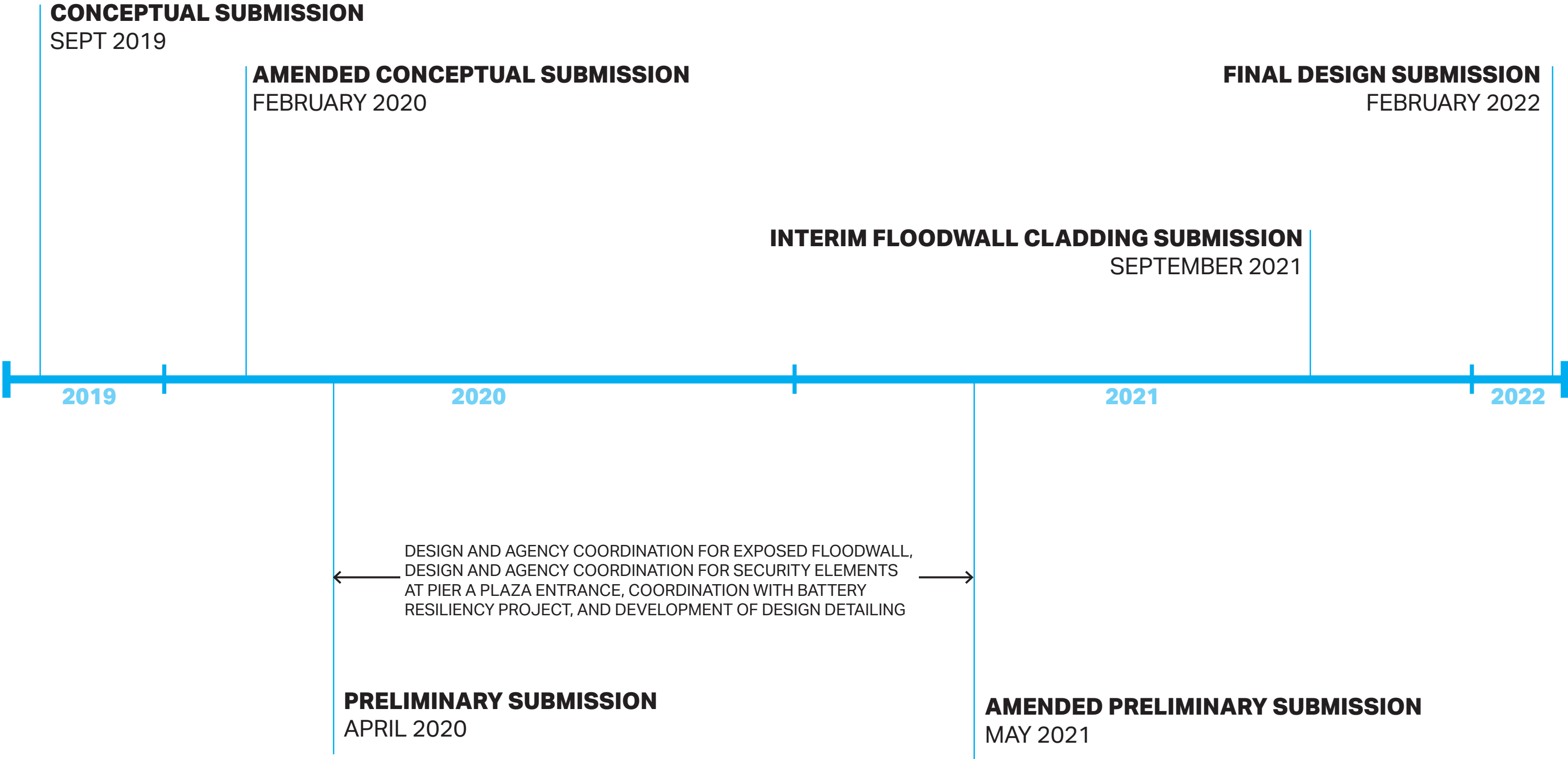
THE SITE



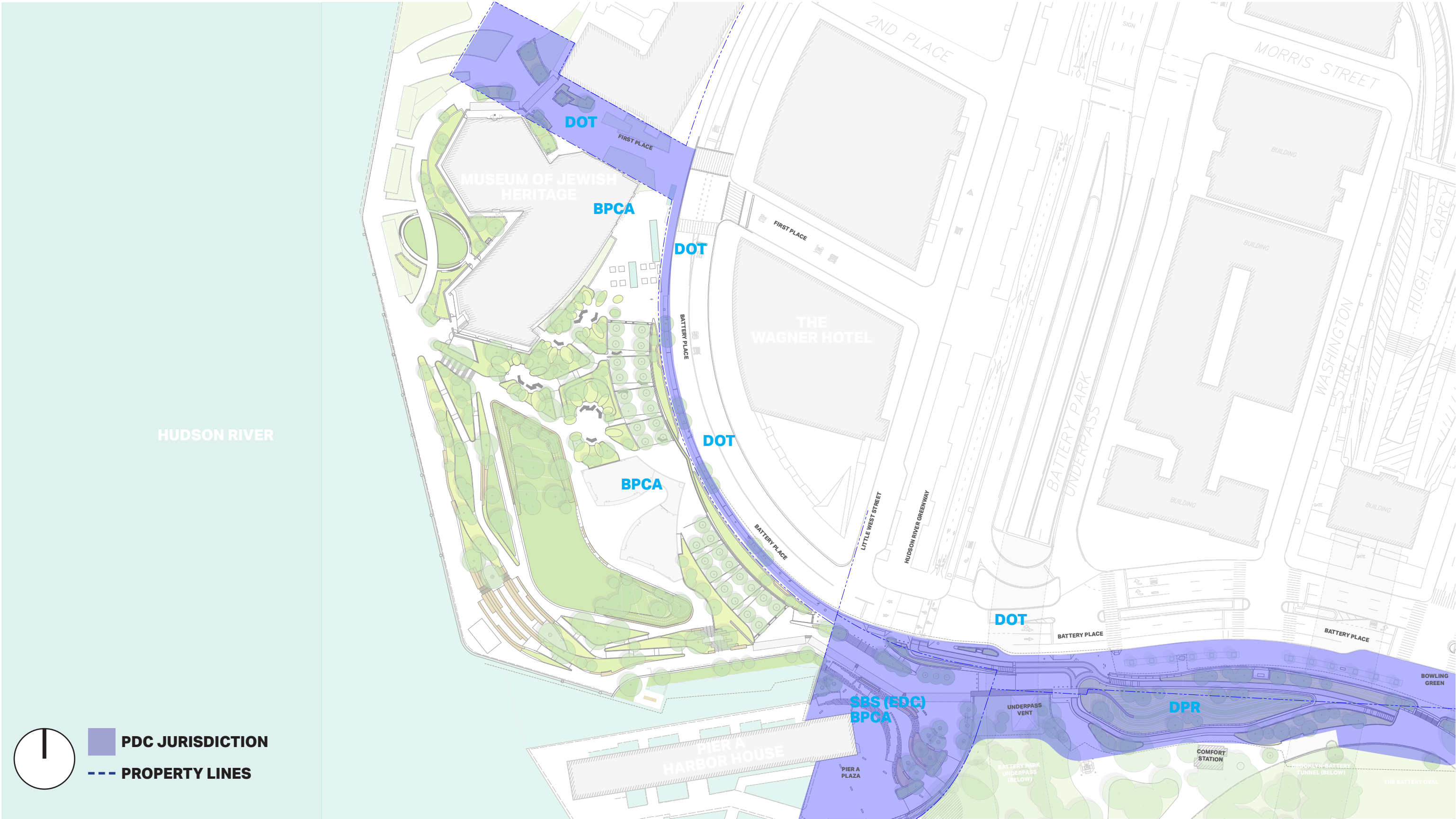
COMMUNITY ENGAGEMENT TIMELINE



PDC SUBMISSION HISTORY



THE SITE



PDC FEEDBACK - PRELIMINARY SUBMISSION | MAY 2020, CERTIFICATE #27504

Pier A Plaza:

- Revise arrangement of bollards, hydraulic power units, and planting to enlarge the planted buffer and minimize bollards along bikeway
- Continue to study the detailing and durability of the wooden seating elements at Pier A plaza
- Reconsider the ground lighting under the benches within Pier A plaza and along the floodwall
- Maximize use of solar lighting
- Provide details on the stone cladding at the flood walls
- Provide details on the engineering and functionality of the deployable gates

Battery Pl:

- Study allowing direct pedestrian access to pavilion from Battery Place
- Provide details on the sidewalk and pavilion entrance
- Clarify the planting in front of the Pavilion and how it relates to the design

The Battery:

- Explain the necessity of removing mature trees and explore ways to add more trees to the proposal
- Provide additional details for the planted berm

PDC FEEDBACK- AMENDED PRELIMINARY SUBMISSION | MAY 2021

Exposed Floodwall:

- Expressed concern about the design and constructibility of the of the floodwall, and that the constructibility will detract from the legibility of the design metaphor
- Provide detailed construction and fabrication documents of the stone units, jointing, stone cap, and where the flip up gates interact with the wall
- Questioned whether the concept would be intuitively understood on the elevation of the wall

PDC FEEDBACK - EXPOSED FLOODWALL SUBMISSION | SEPT 2021

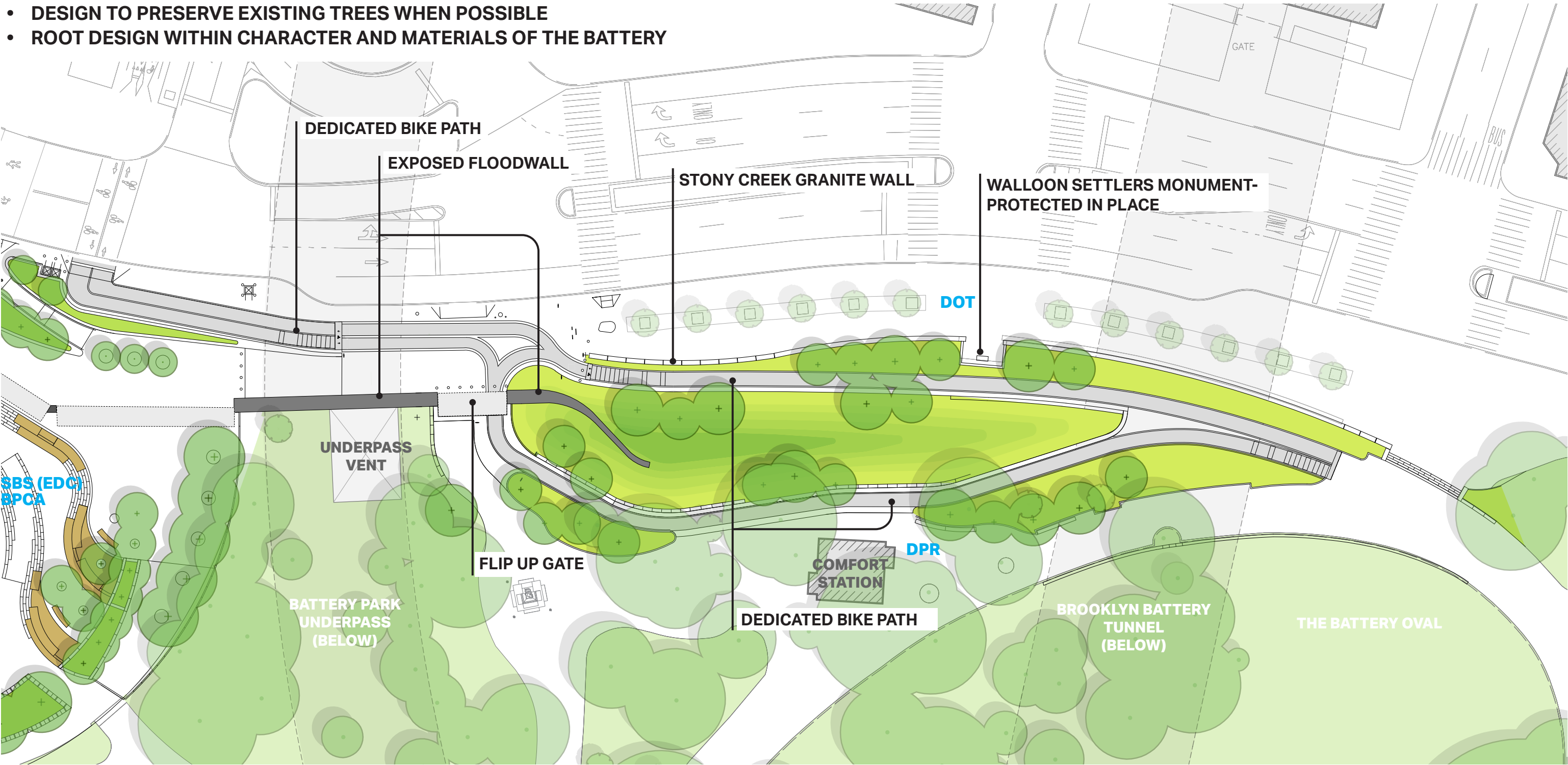
Exposed Floodwall:

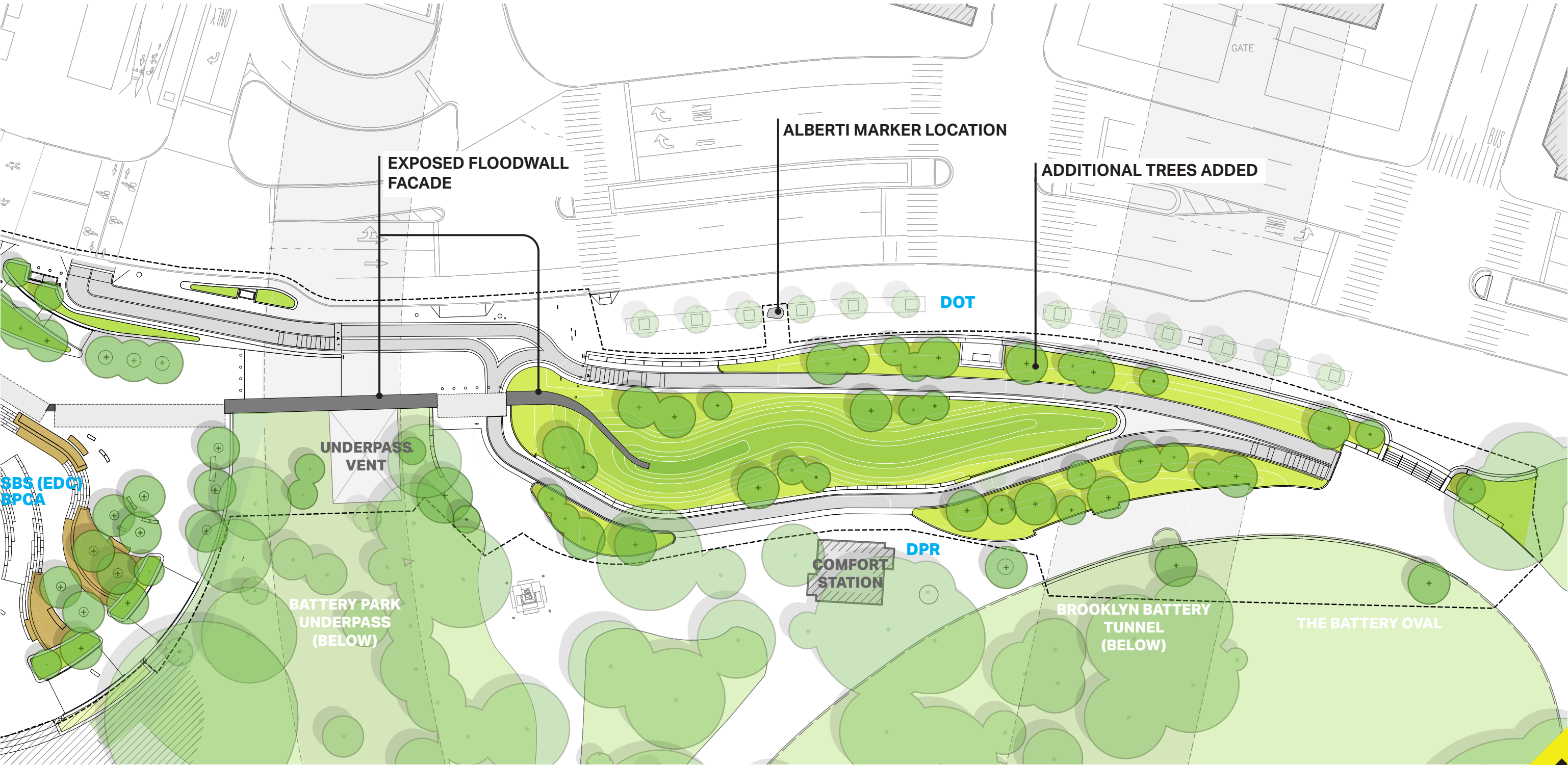
- Expressed that the “abstract expressions” of land and water are not legible as the utilization of two different stones reinforces the decorative nature of the stone-facing rather than acknowledging, celebrating, and creating a cohesive language across the infrastructure
- Requested that the Stony Creek be removed from the stone facing so that the wall is expressed with only the Pearl Gray stone
 - Will allow the existing Stony Creek on-site to be more visually prominent in the pedestrian foreground
 - Reinforces the pedestrian scale of the Stony Creek in-situ
 - Pearl Gray is a beautiful stone with inherent variation which will create visual interest
 - Designing the wall in the singular stone palette will celebrate both the material of the cladding and the function of the wall
- Revise coping design so that the schist reference is applied across the full stretch of the wall and detailing be studied to remove threat of water infiltration
- Requested a scale model to help understand the visual impact of the stone module sizes proposed, how they are legible across the wall

PDC DESIGN UPDATES THE BATTERY & ALBERTI MARKER

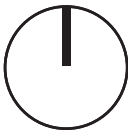
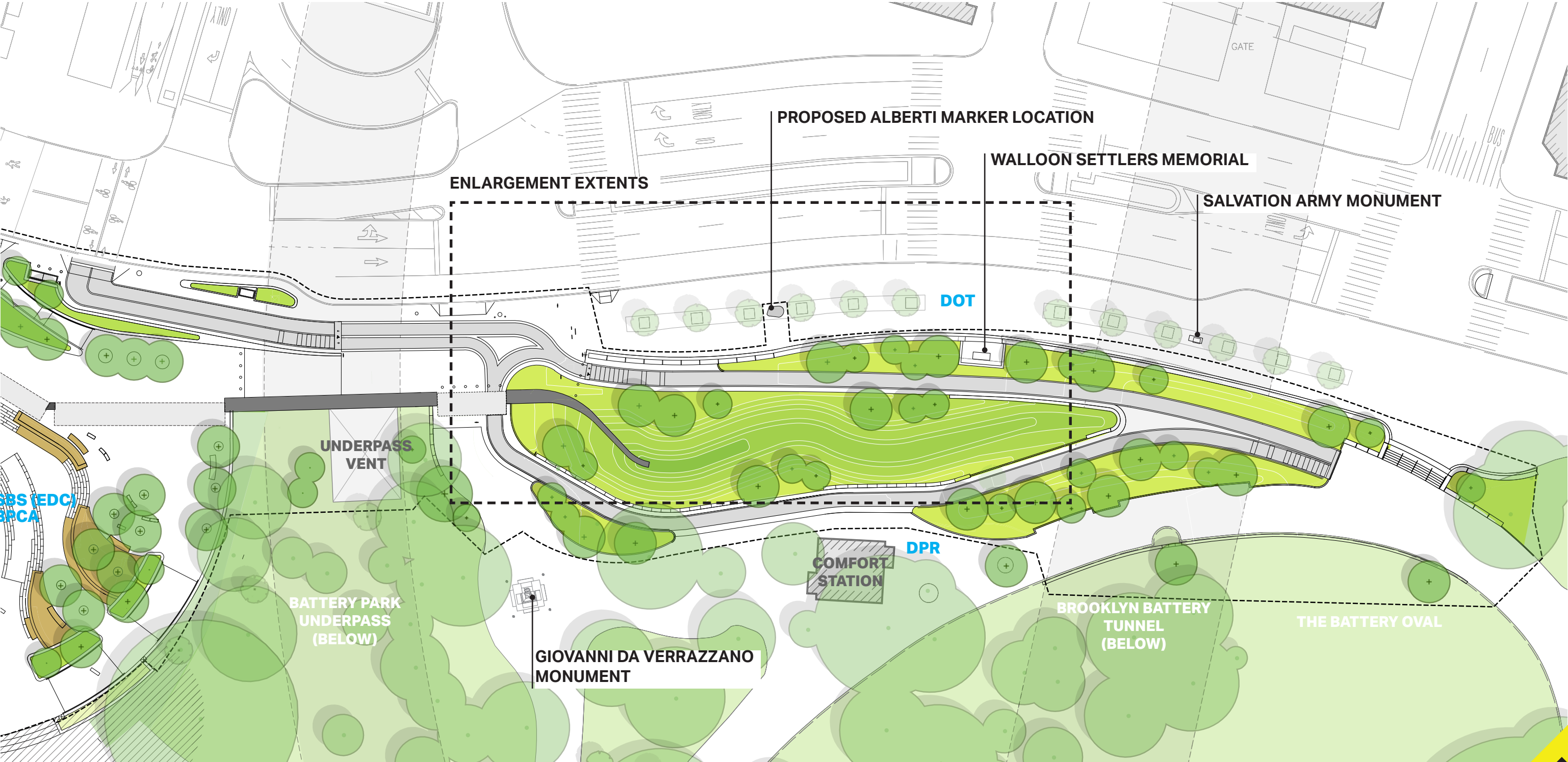
COMMUNITY REQUESTS & DESIGN DRIVERS:

- DESIGN TO MAXIMIZE PLANTED AREAS AND TREES
- DESIGN TO PRESERVE EXISTING TREES WHEN POSSIBLE
- ROOT DESIGN WITHIN CHARACTER AND MATERIALS OF THE BATTERY

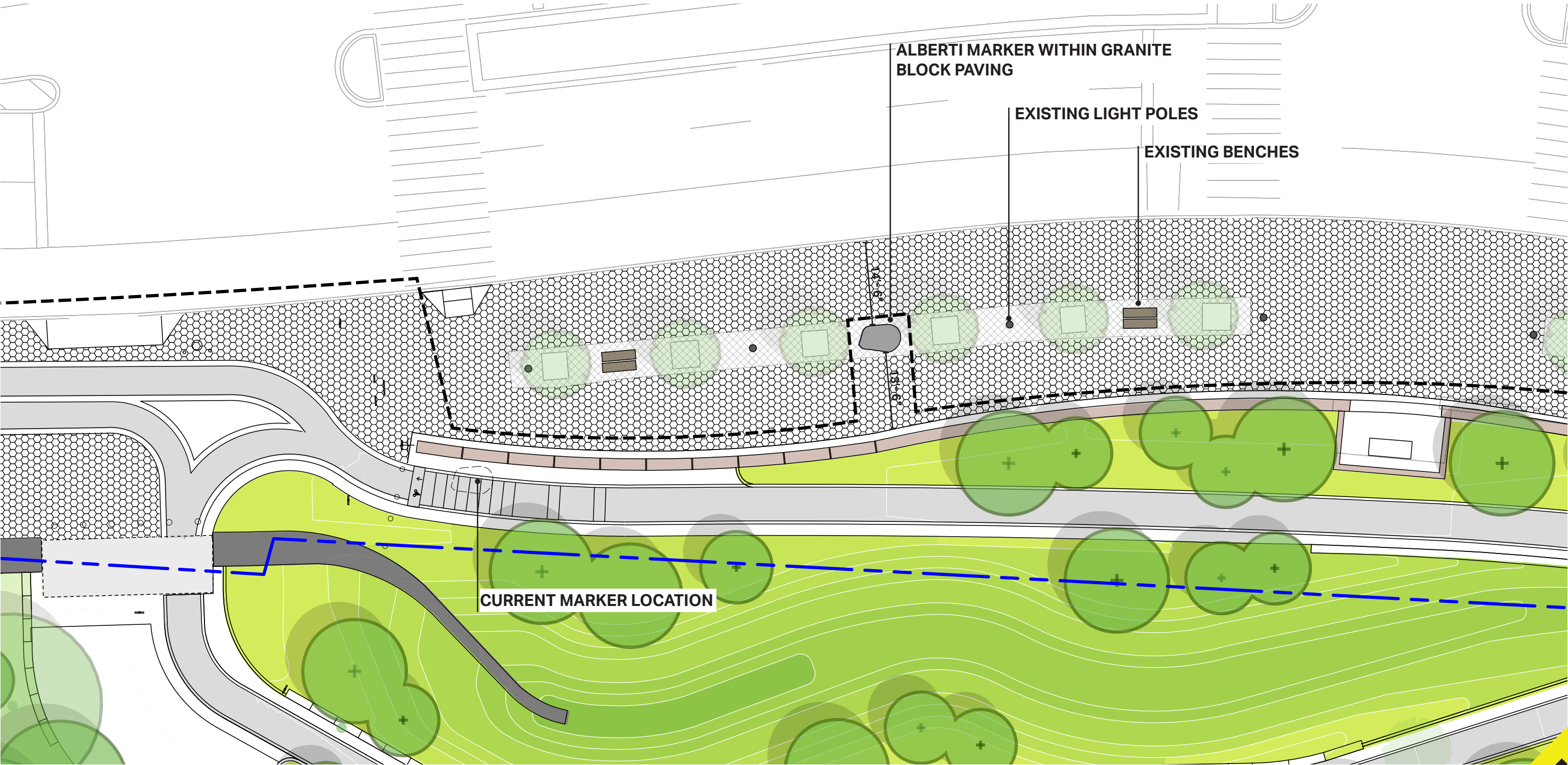




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----- LIMIT OF WORK

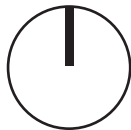
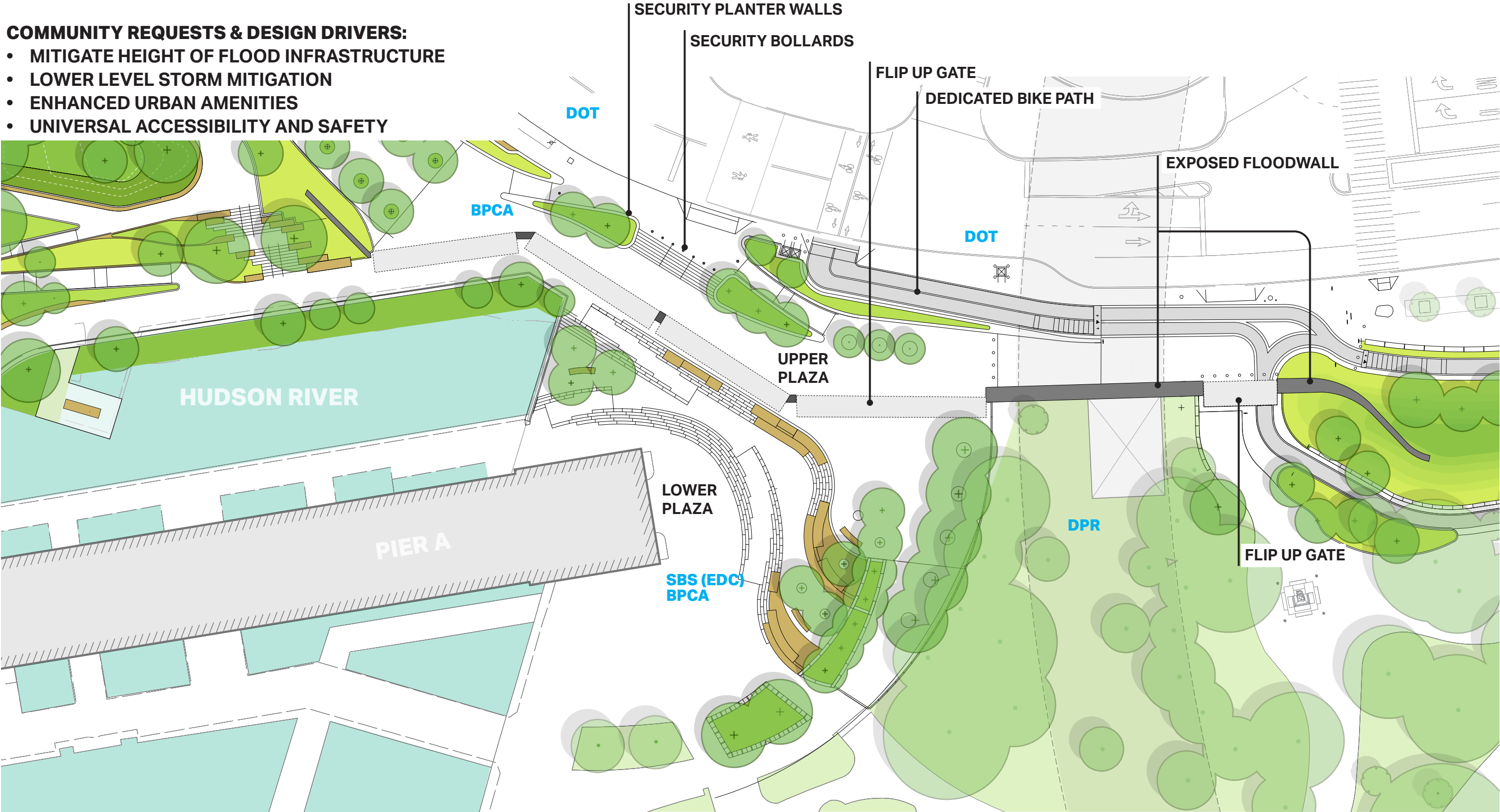


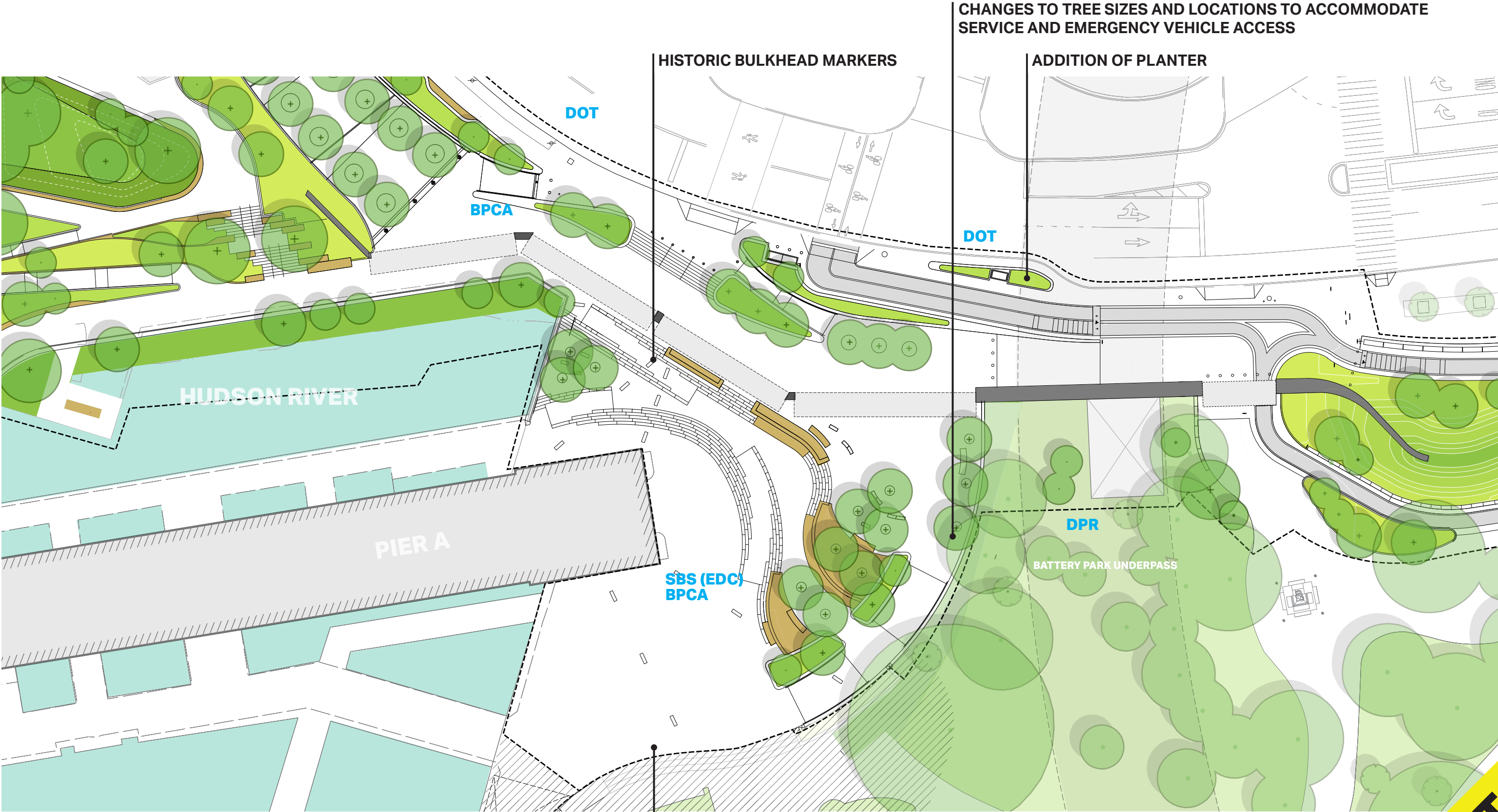
PDC DESIGN UPDATES PIER A PLAZA

PIER A PLAZA | PREVIOUS DESIGN

APRIL 2021

- COMMUNITY REQUESTS & DESIGN DRIVERS:**
- MITIGATE HEIGHT OF FLOOD INFRASTRUCTURE
 - LOWER LEVEL STORM MITIGATION
 - ENHANCED URBAN AMENITIES
 - UNIVERSAL ACCESSIBILITY AND SAFETY





CHANGES TO TREE SIZES AND LOCATIONS TO ACCOMMODATE SERVICE AND EMERGENCY VEHICLE ACCESS

HISTORIC BULKHEAD MARKERS

ADDITION OF PLANTER

HUDSON RIVER

PIER A

SBS (EDC)
BPCA

DPR

BATTERY PARK UNDERPASS

CHANGE IN PLANTER ARRANGEMENT DUE TO BATTERY RESILIENCY EXTENTS & AND ACCESS FOR DEP SERVICE VEHICLE & EMERGENCY VEHICLE



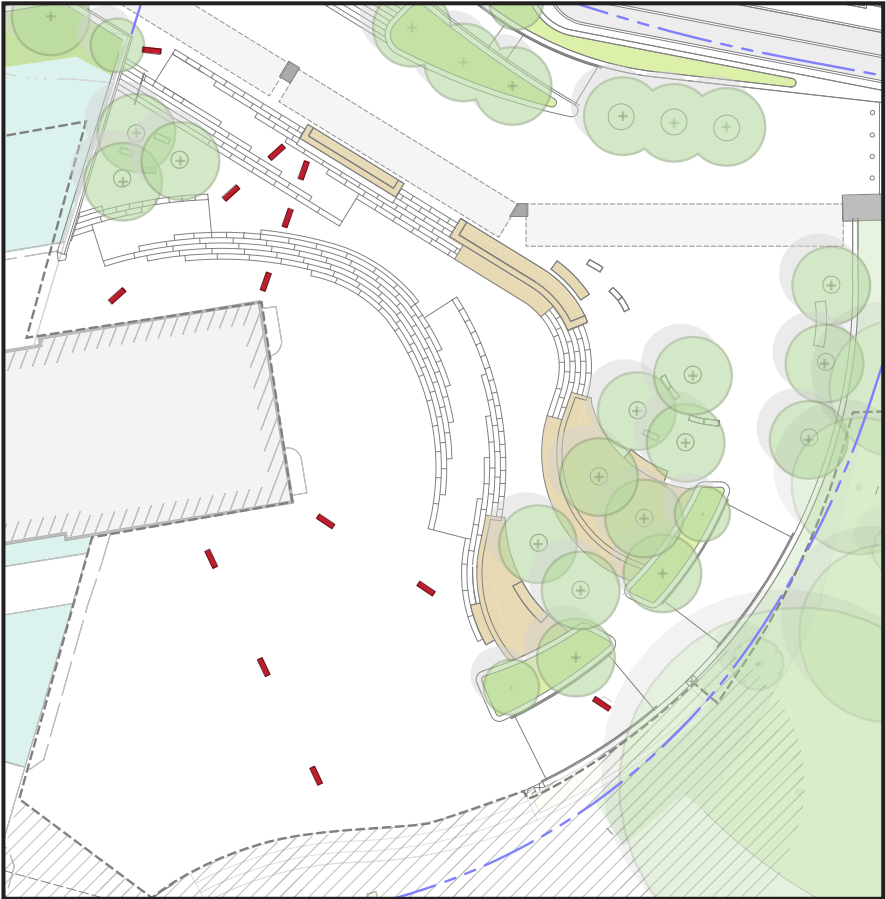
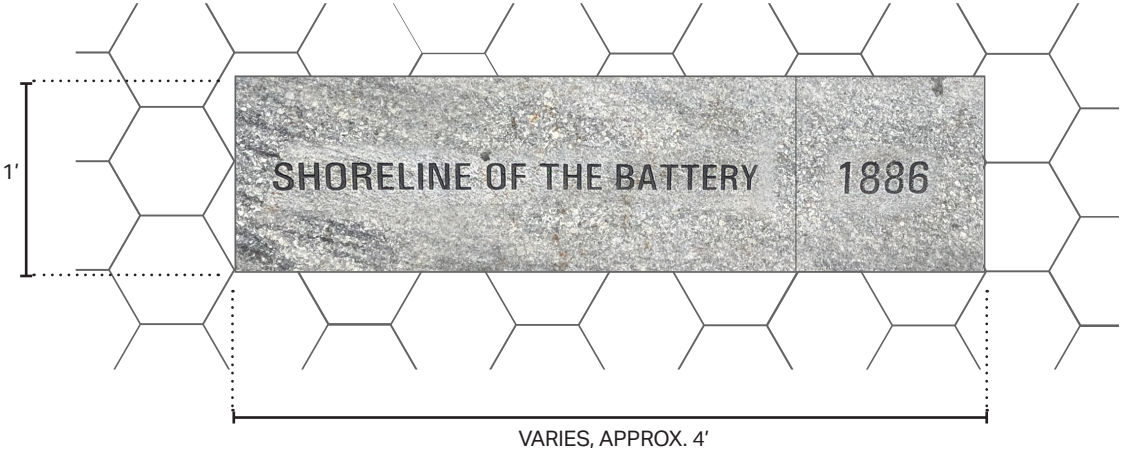
----- LIMIT OF WORK
////// LMCR BATTERY RESILIENCY

- EXISTING STONE MARKERS TO BE SALVAGED AND PLACED ALONG HISTORIC BULKHEAD LINES WITHIN HEX PAVERS
- ADDITIONAL MARKERS CREATED USING SAME SALVAGED STONE AND TO BE INCISED WITH MATCHING TEXT
- MARKERS TO OCCUR ON EACH LEVEL OF THE PLAZA

EXISTING



PROPOSED

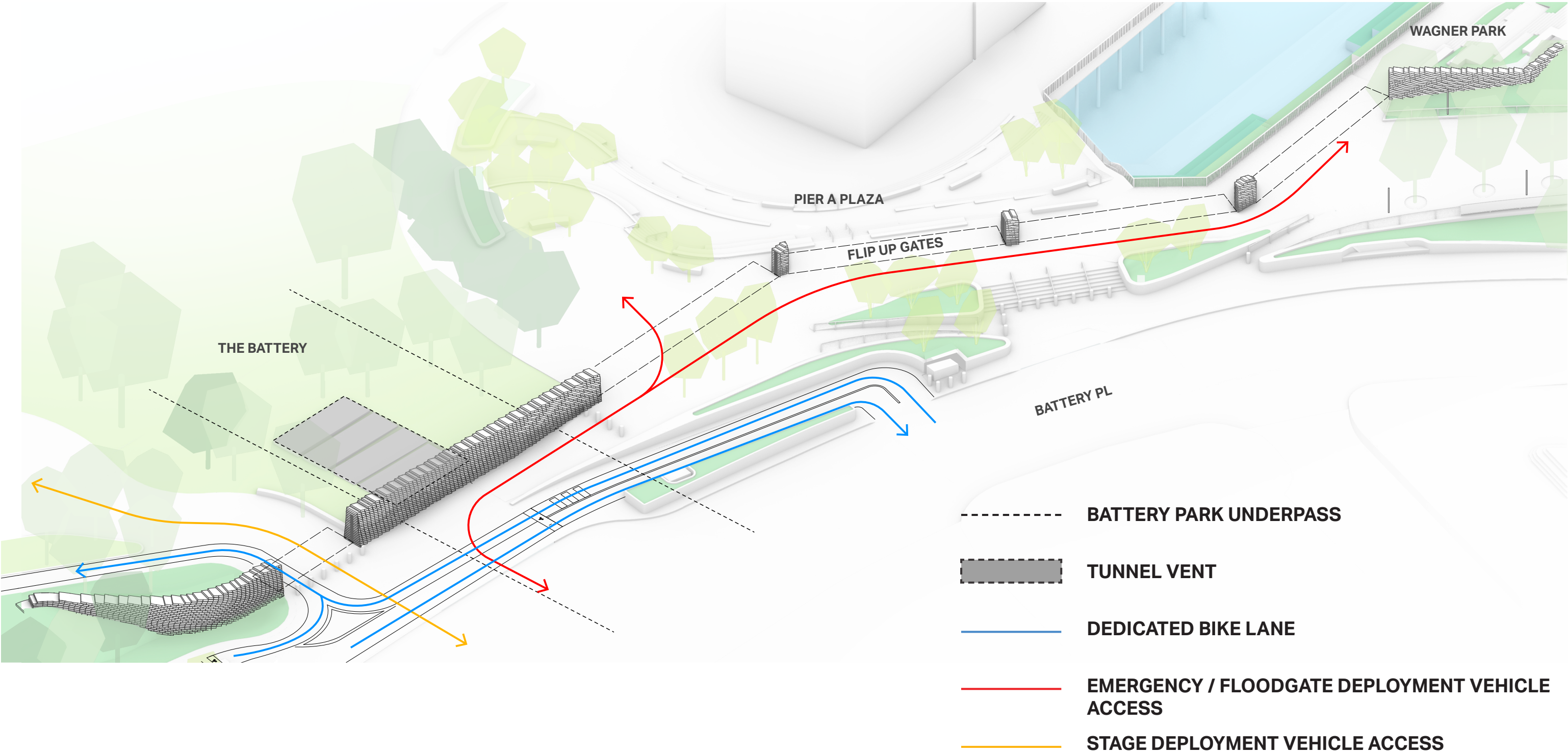




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PDC DESIGN UPDATES EXPOSED FLOODWALL

EXPOSED FLOODWALL DESIGN DRIVERS



PEARL GREY WATERJET



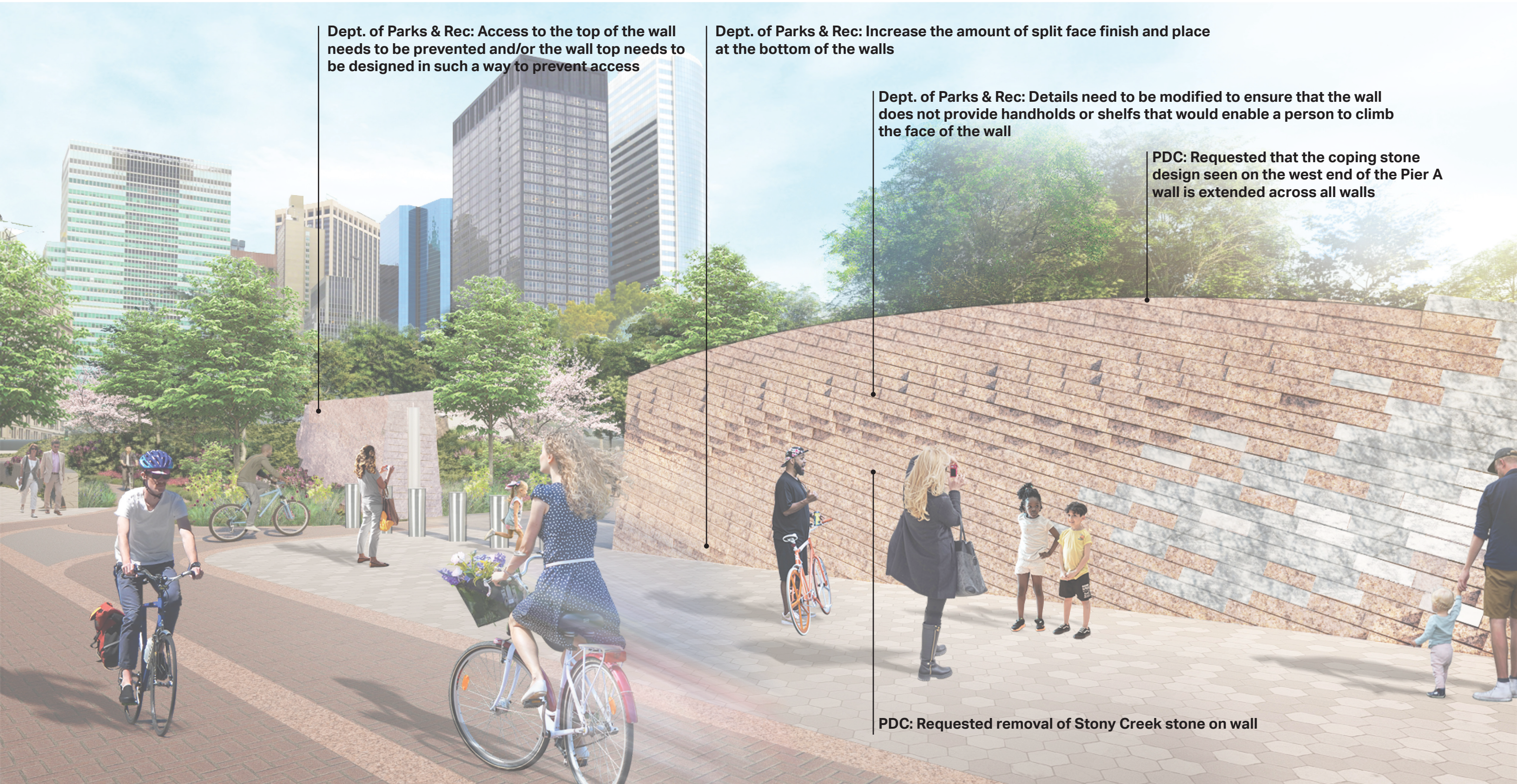
STONY CREEK SPLIT FACE



PEARL GREY SPLIT FACE







Dept. of Parks & Rec: Access to the top of the wall needs to be prevented and/or the wall top needs to be designed in such a way to prevent access

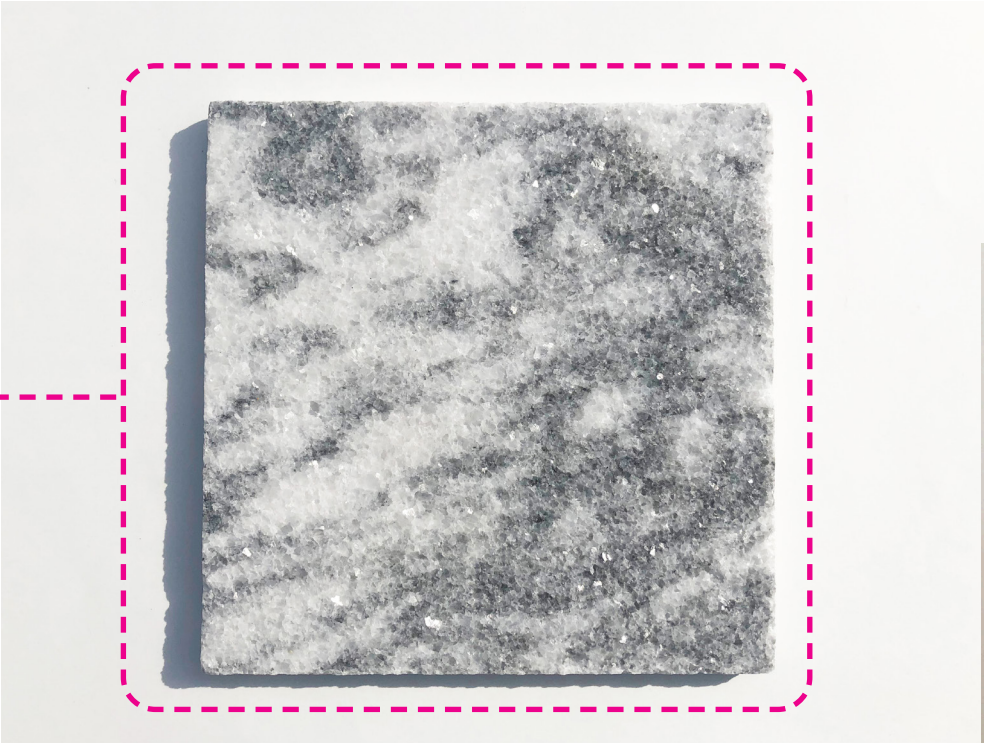
Dept. of Parks & Rec: Increase the amount of split face finish and place at the bottom of the walls

Dept. of Parks & Rec: Details need to be modified to ensure that the wall does not provide handholds or shelves that would enable a person to climb the face of the wall

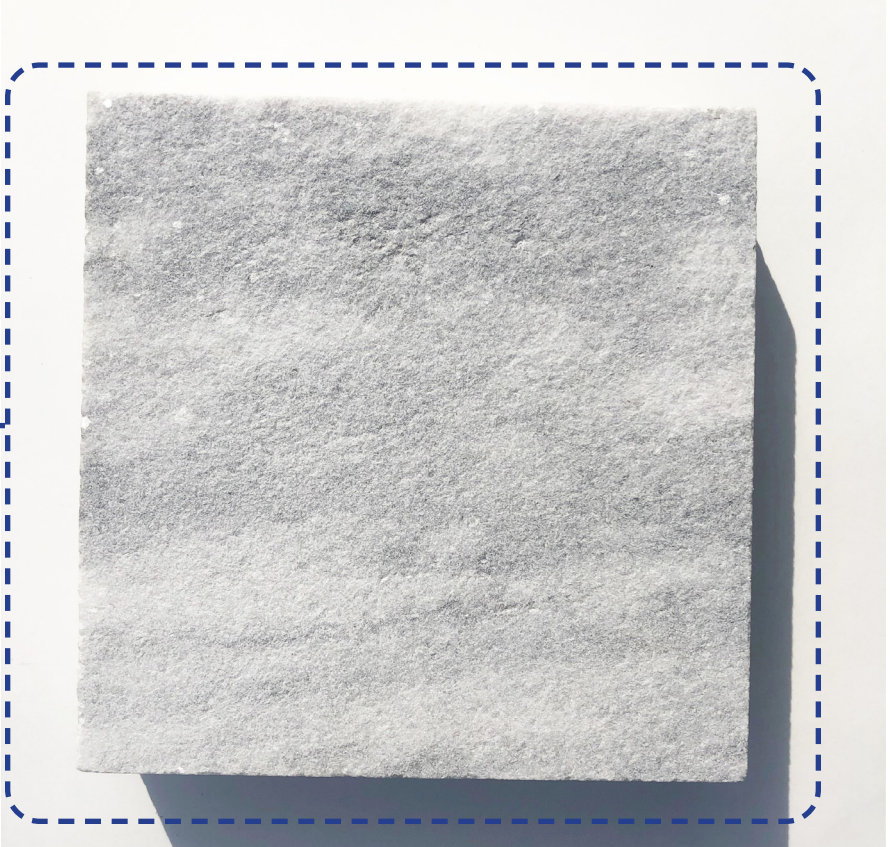
PDC: Requested that the coping stone design seen on the west end of the Pier A wall is extended across all walls

PDC: Requested removal of Stony Creek stone on wall

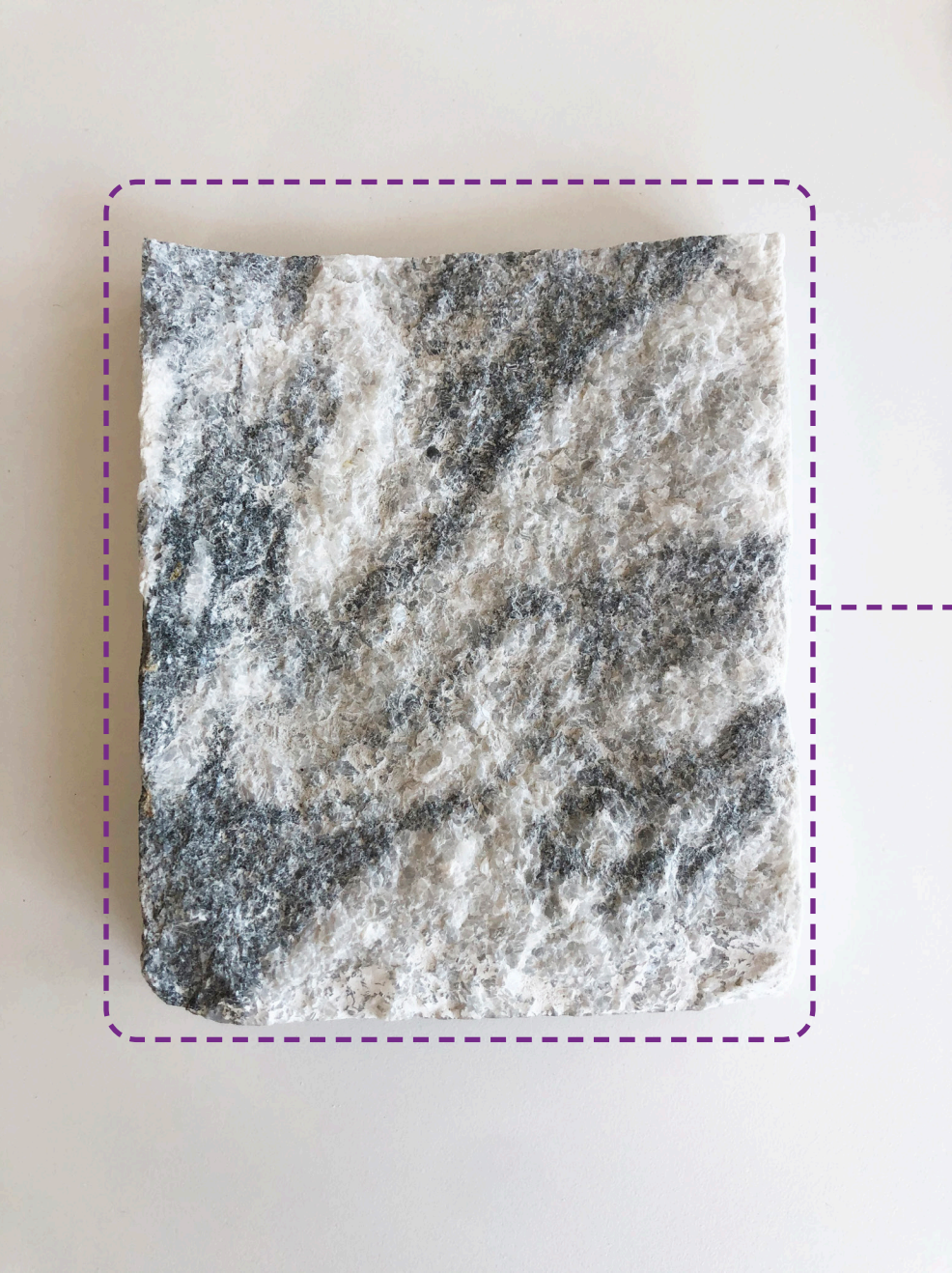
PEARL GREY WATERJET



PEARL GREY SANDBLASTED



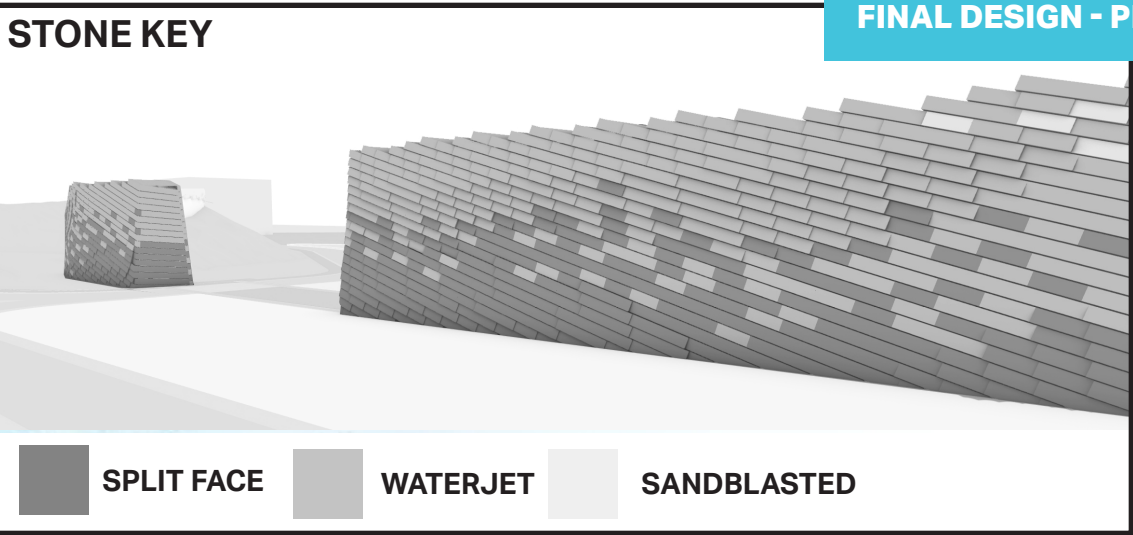
PEARL GREY SPLIT FACE



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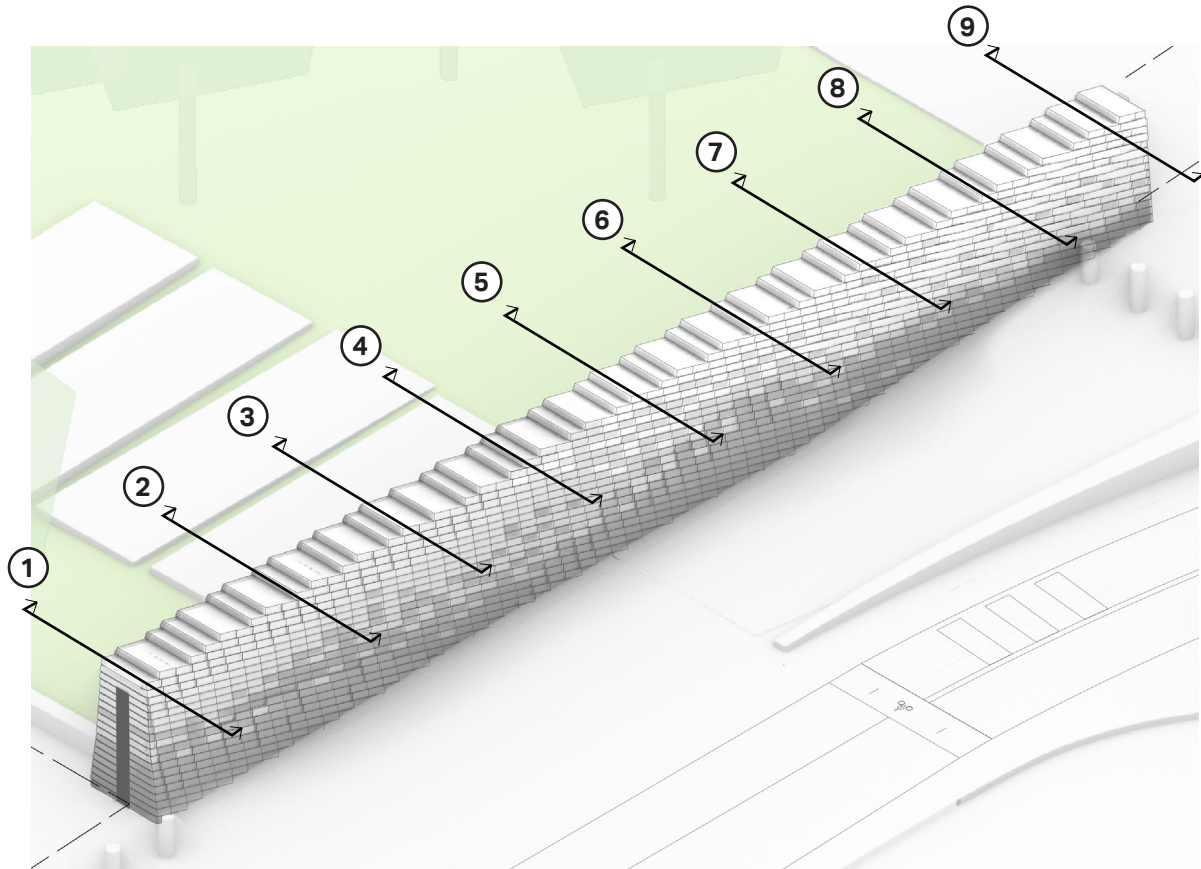
EXPOSED FLOODWALL | BATTERY ENTRANCE

FINAL DESIGN - PDC



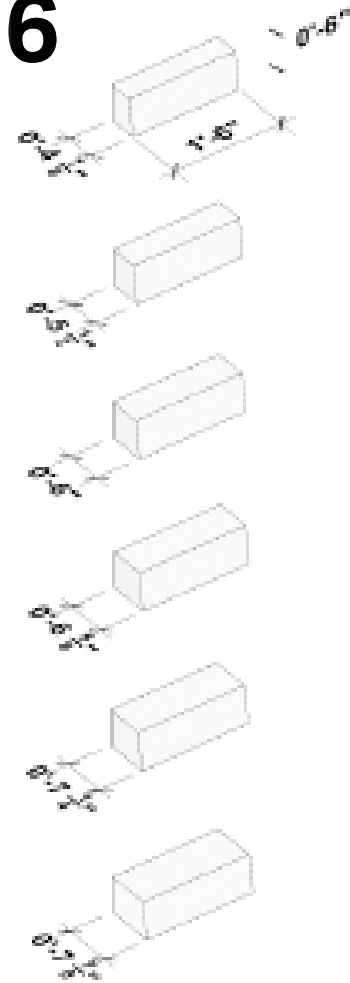
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EXPOSED FLOODWALL | STONE UNIT TYPES + SECTIONAL QUALITIES



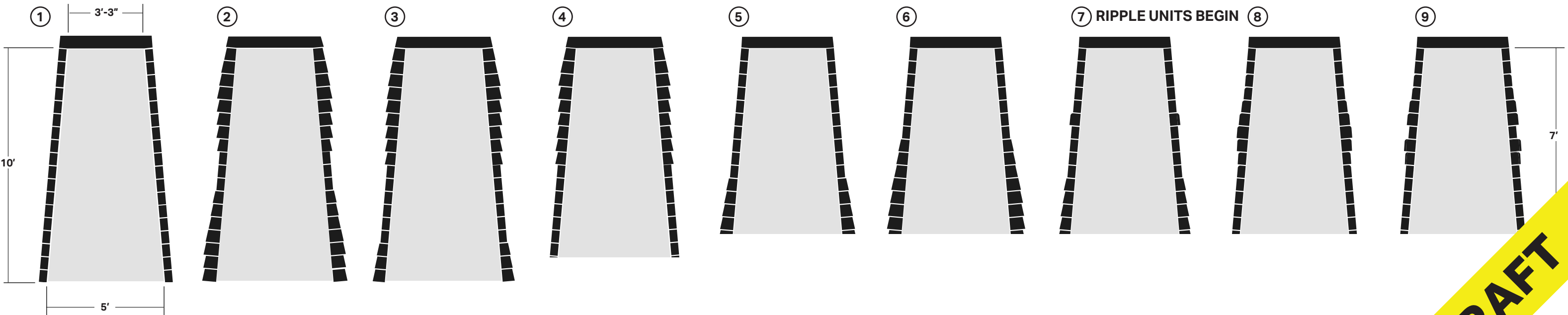
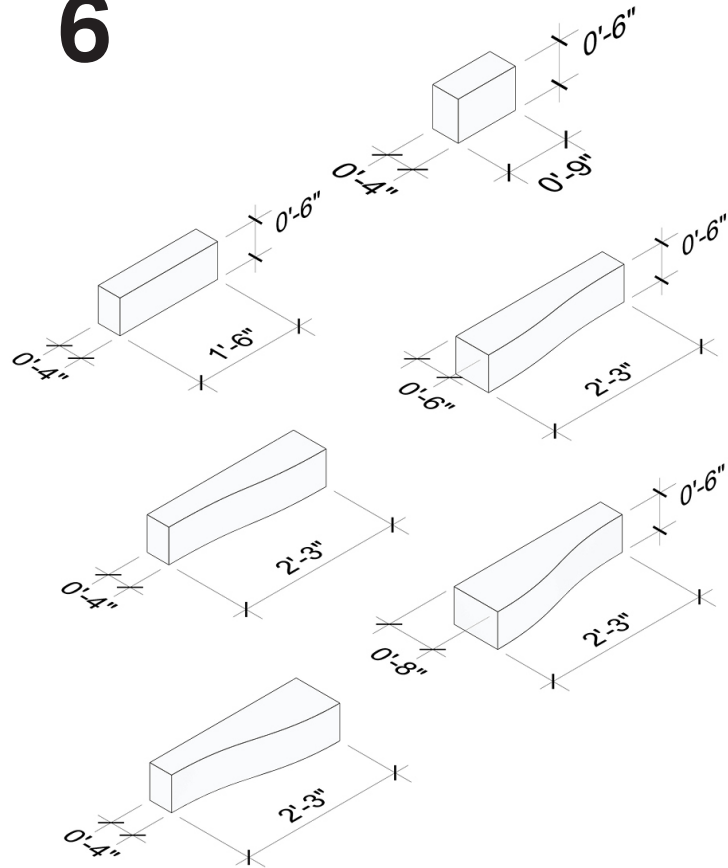
SINGLE WIDTH UNITS:

6



RIPPLE UNITS:

6

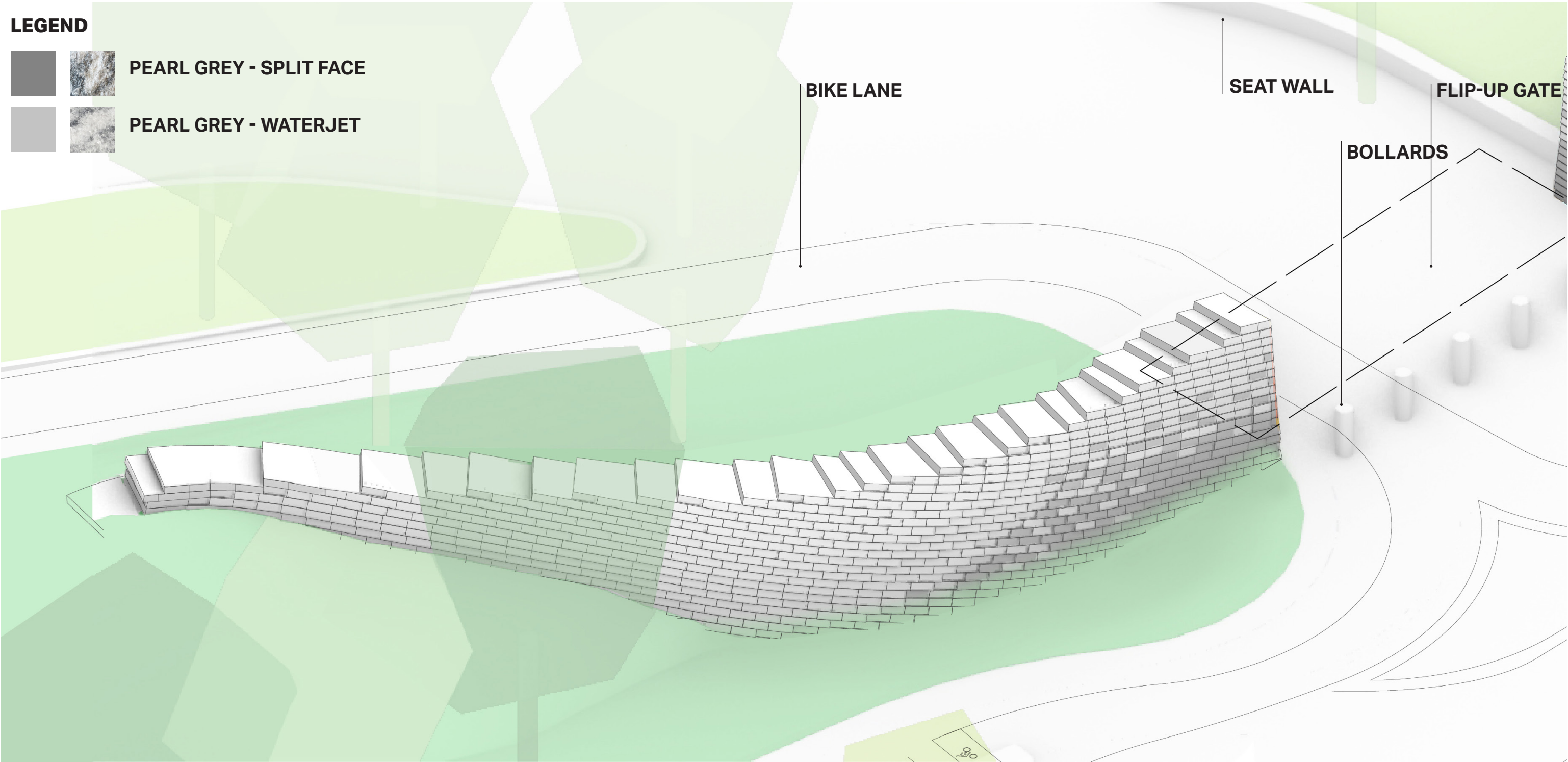


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EXPOSED FLOODWALL | THE BATTERY ENTRANCE

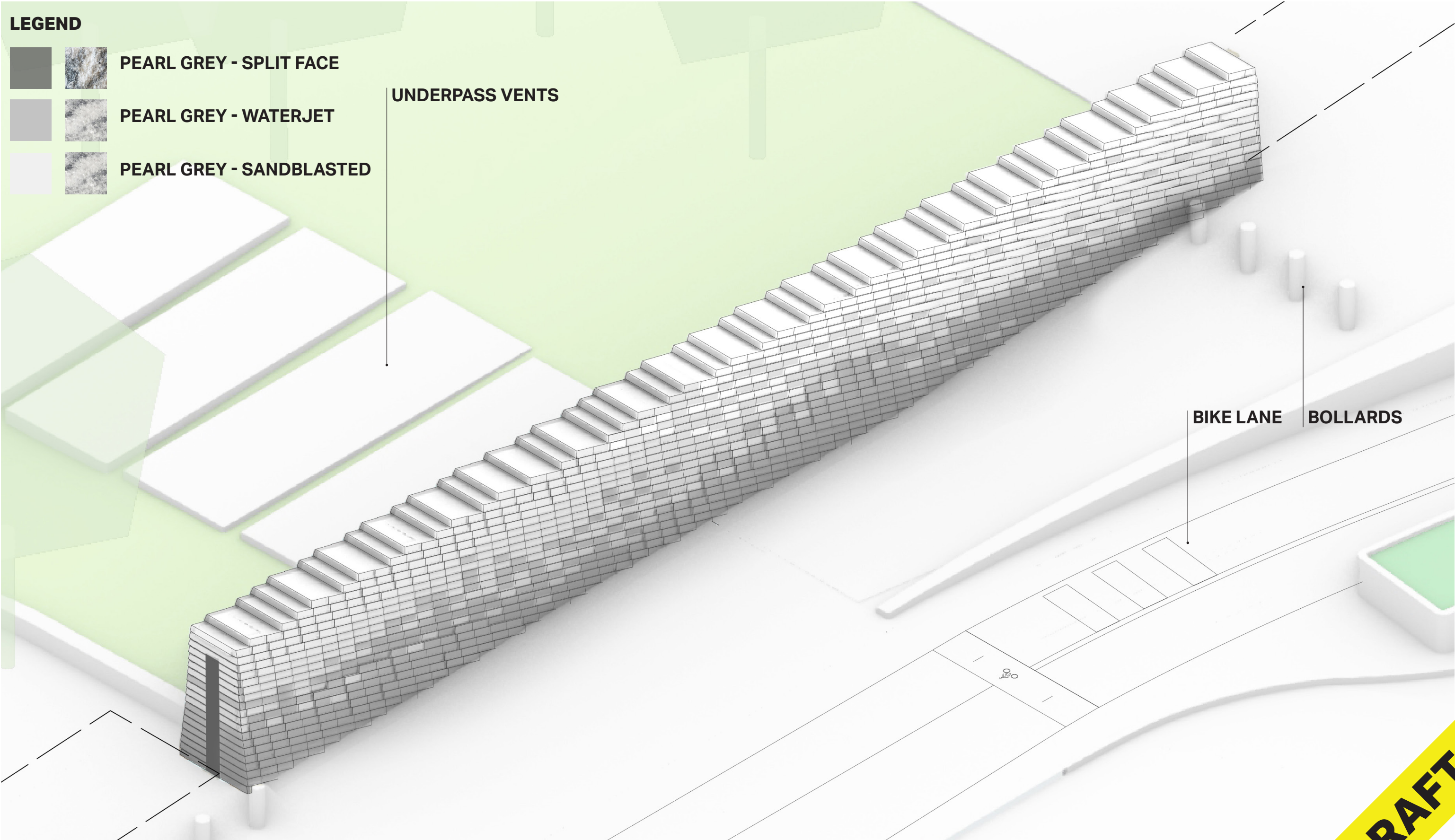
LEGEND

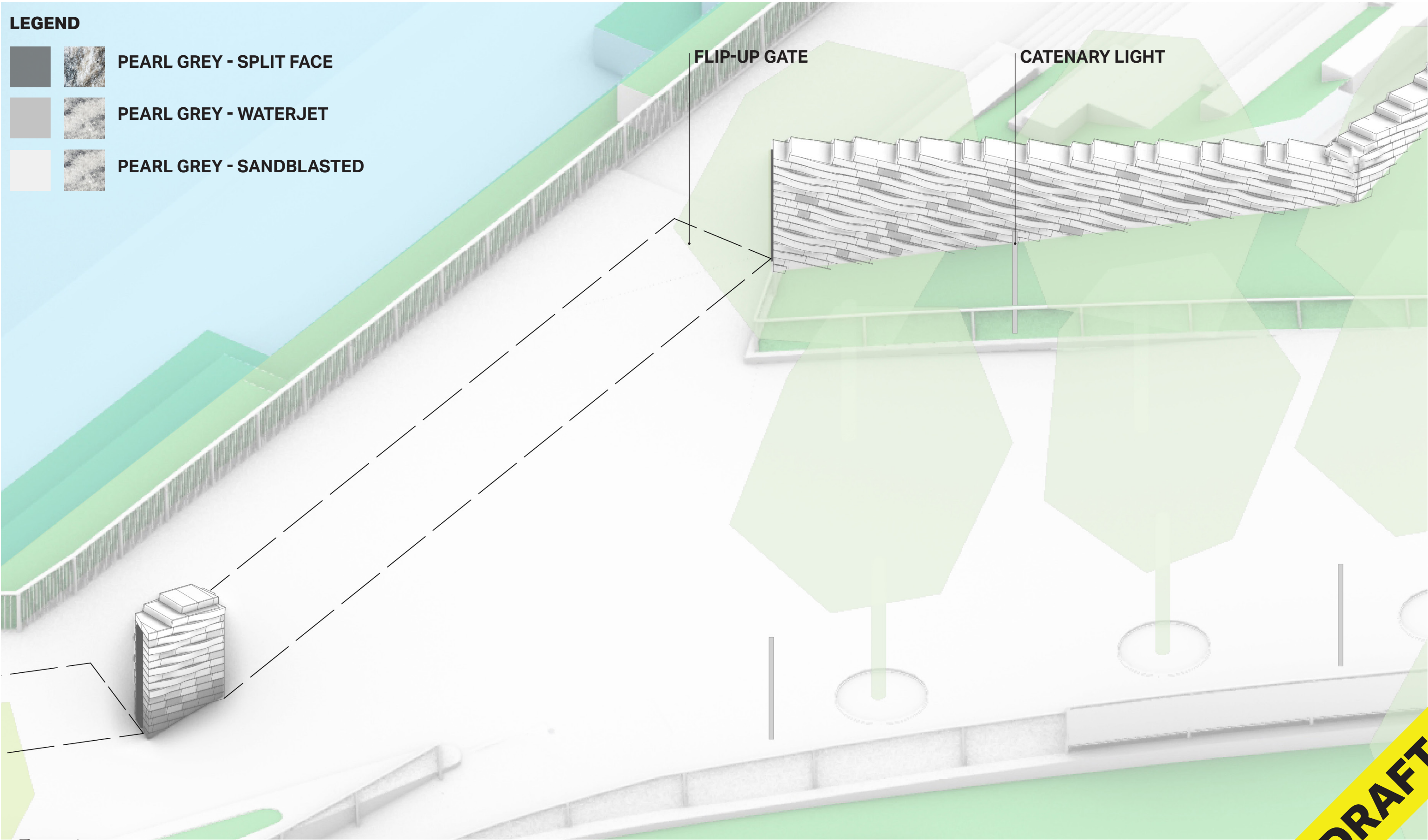
- PEARL GREY - SPLIT FACE
- PEARL GREY - WATERJET



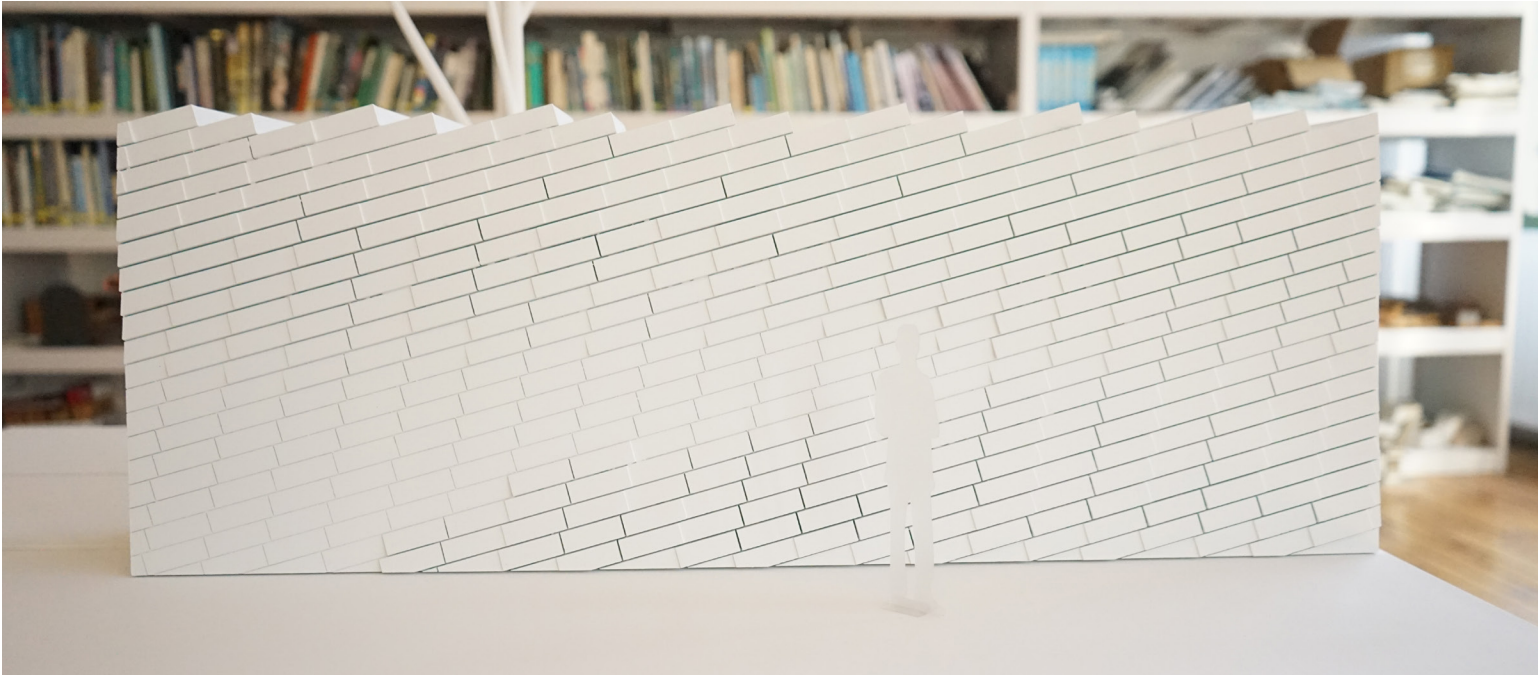
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EXPOSED FLOODWALL | PIER A PLAZA



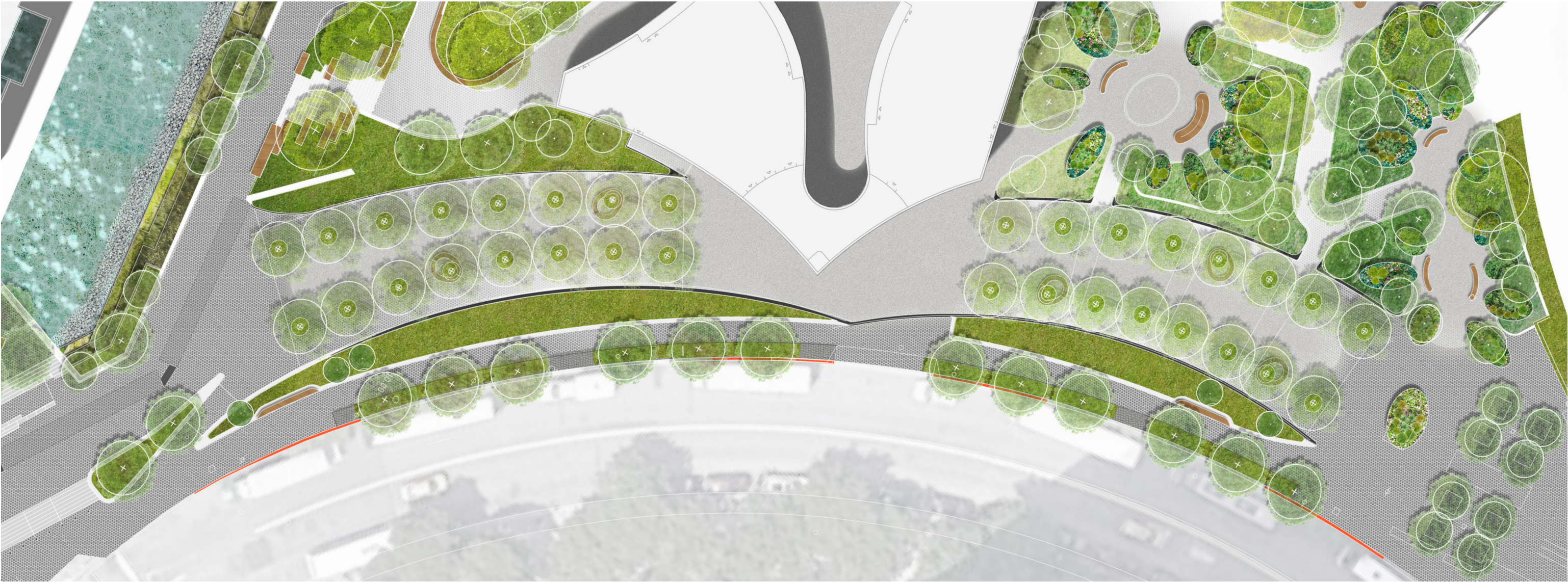


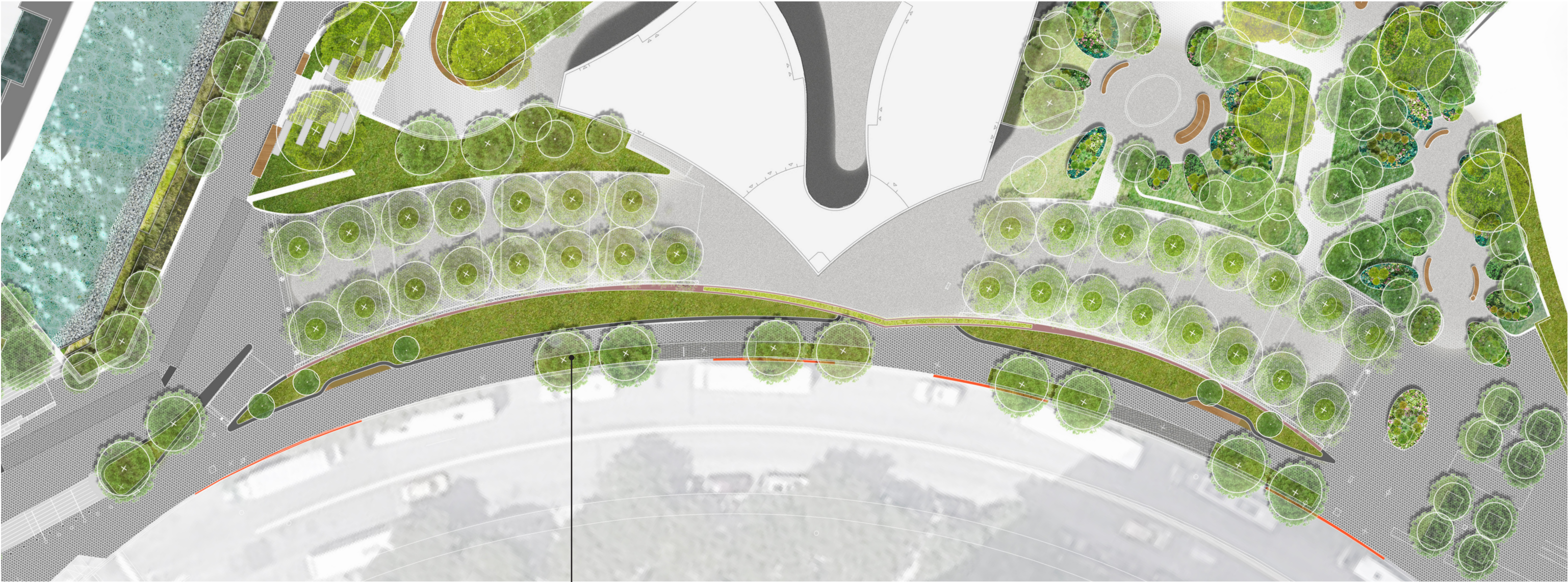
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PDC DESIGN UPDATES BATTERY PLACE





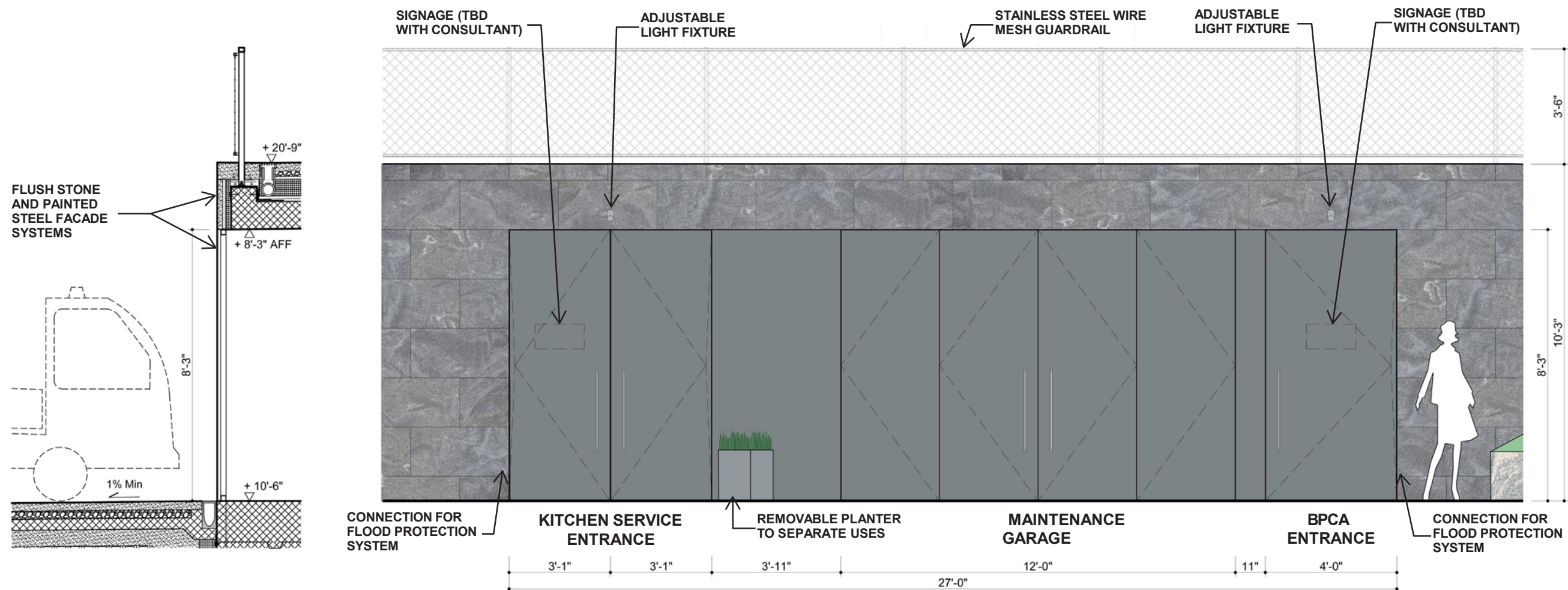
Number of street trees altered due to utilities, street lights, and signage offsets; DOT standards; existing bus stop; and charter bus drop off

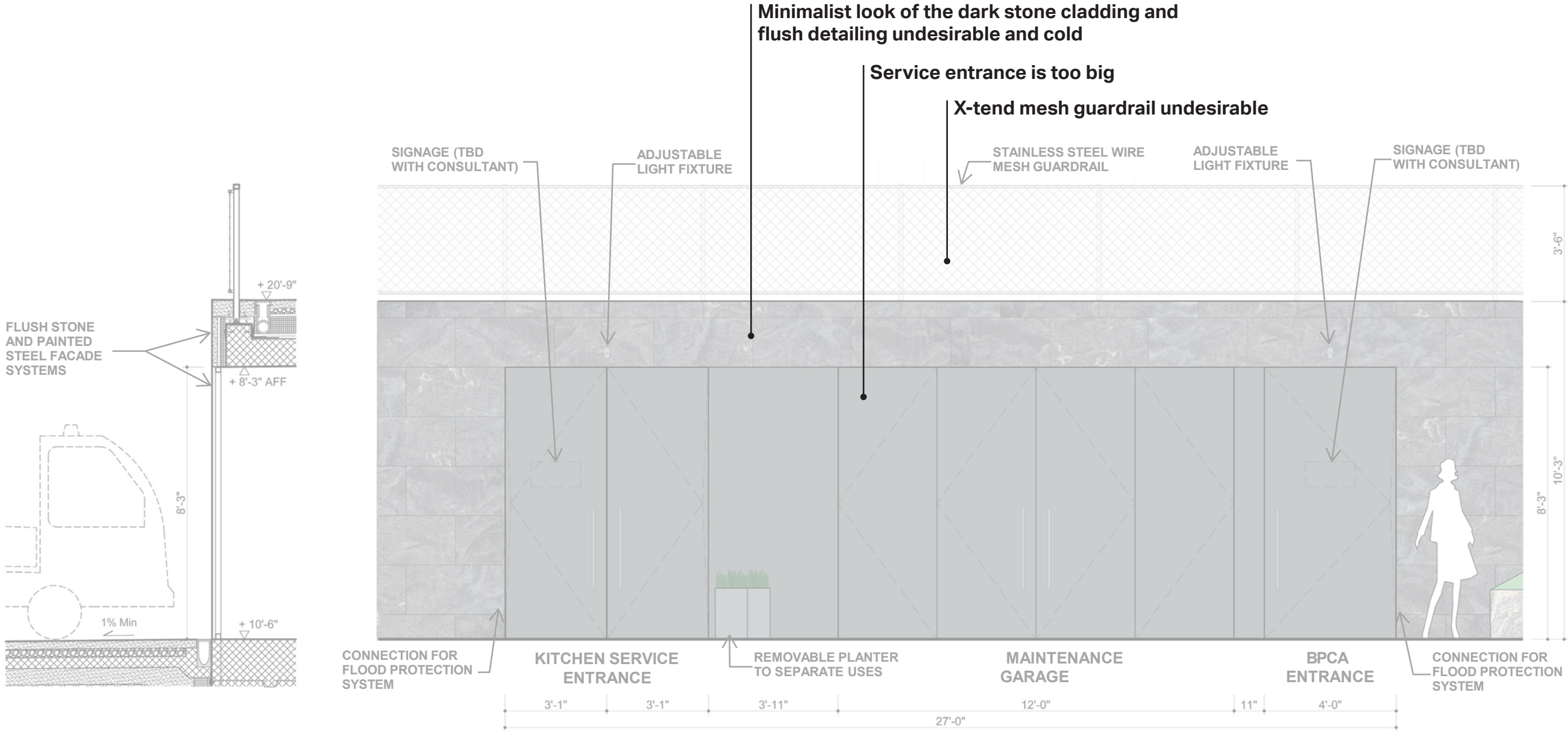


BATTERY PLACE DESIGN | FINAL DESIGN UPDATES



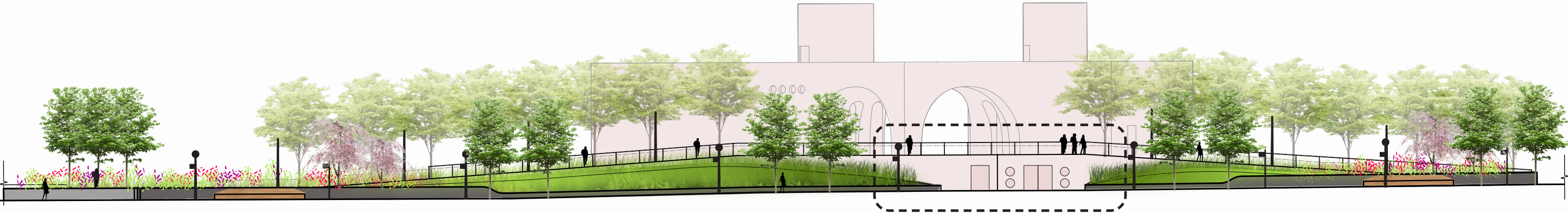
PAVILION SERVICE ENTRANCE



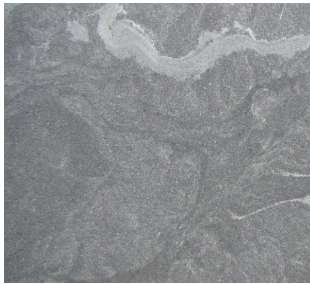








PLANTER



JET MIST
THERMAL

WALL



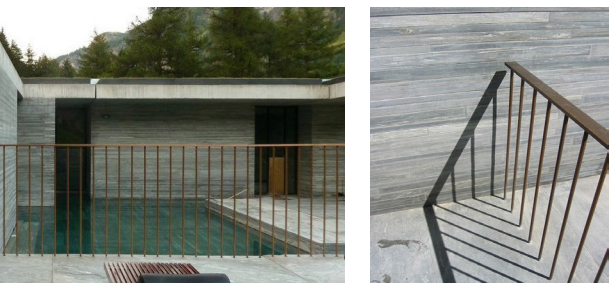
CUSTOM WARM
RED CONCRETE TO
MATCH PAVILION

DOORS



CUSTOM WARM
RED PAINTED
METAL PANEL DOOR

GUARDRAIL



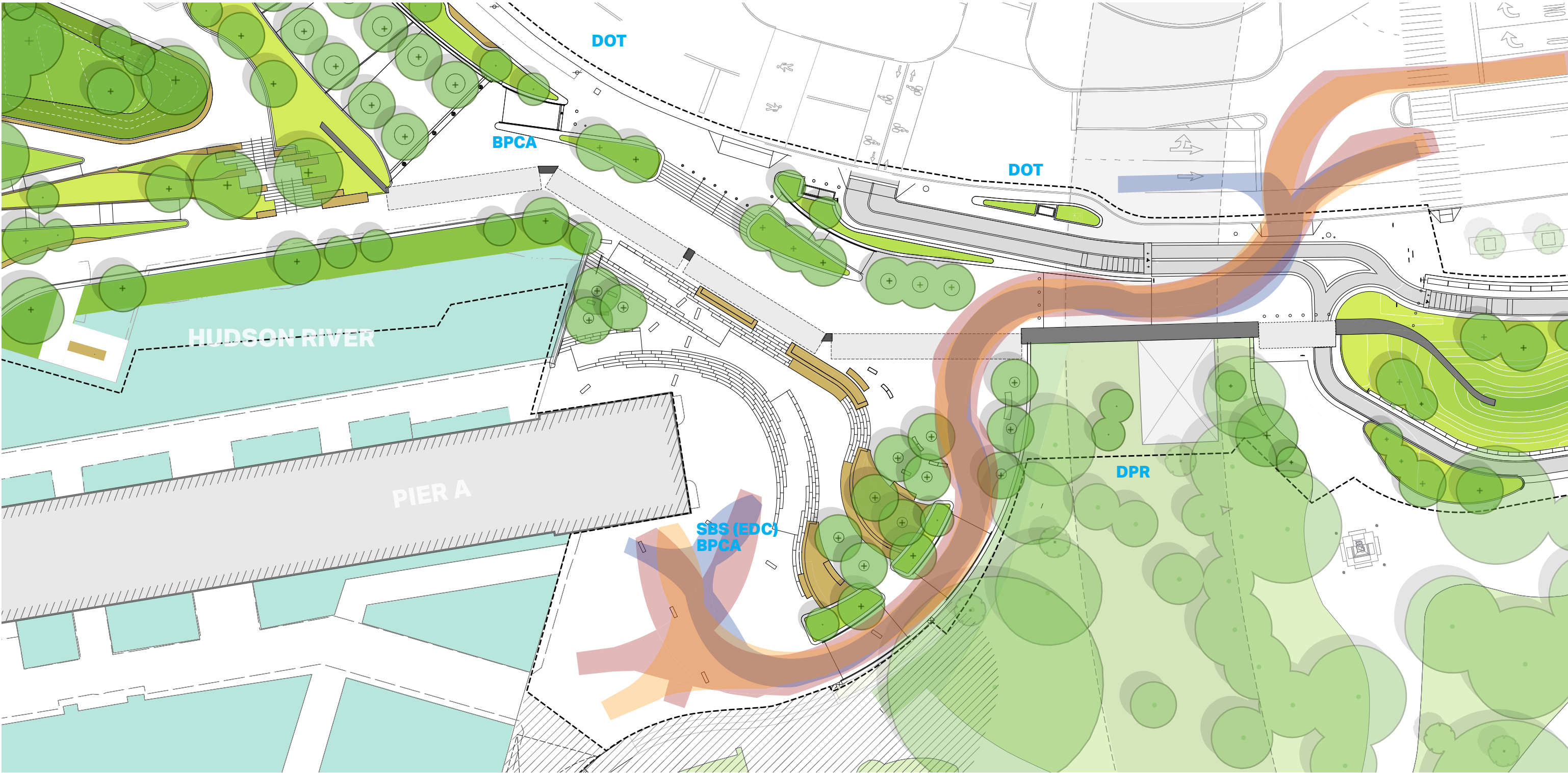
STAINLESS STEEL
PICKET

-
- A detailed cross-section diagram of a retaining wall. The wall is shown in a light brown color with a vertical line indicating a joint. To the left of the joint is a large rectangular structure labeled '4' with a dashed diamond shape inside, representing a service entry. To the right of the joint is another large rectangular structure labeled '7' with a dashed diamond shape inside, representing a garage door opening. Between these two structures are two circular openings labeled '5'. The wall is topped with a green grassy area and a black line representing the ground surface. The base of the wall is shown in a dark grey color. Dimensions are provided at the bottom: 6'-1" Service Entry, 2'-3", 3'-9", 4'-5", 8'-8" Garage Door Opening, 3'-10 1/2", and 4'-10 1/2". The diagram is divided into sections by vertical lines, with some sections labeled with numbers in circles: 1, 2, 3, 4, 5, 6, 7.

THANK YOU

APPENDIX

PIER A PLAZA | APPROXIMATE AUTO TURN MOVEMENTS



----- LIMIT OF WORK

////// LMCR BATTERY RESILIENCY

DEP VACTOR TRUCK

DEP MAINTENANCE TRUCK

FDNY AMBULANCE