

SOUTH BATTERY PARK CITY RESILIENCY

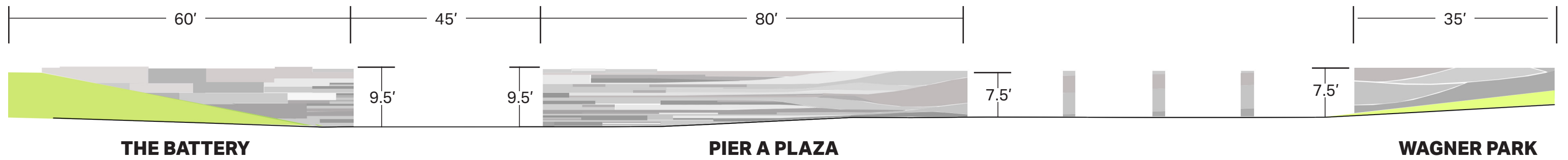
CB1 UPDATE

APRIL 19, 2021 rev 1

AGENDA

- 1. FLOODWALL UPDATE**
- 2. PAVILION UPDATE**
- 3. PAVILION DESIGN STUDIES + ACCESSIBILITY**
- 4. PAVILION SUSTAINABILITY UPDATE**

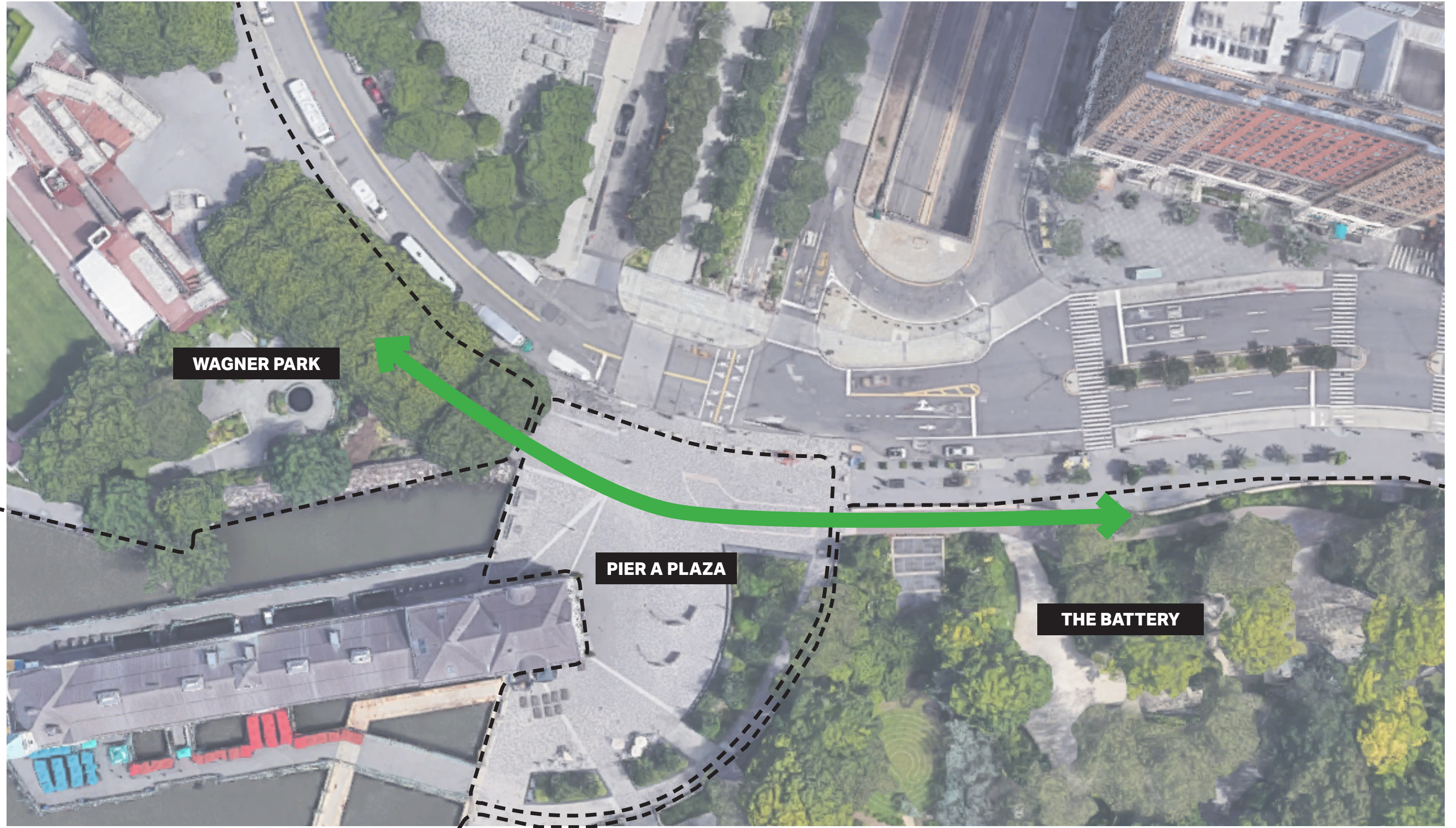
EXPOSED FLOODWALL | PRELIMINARY PDC SUBMISSION DESIGN



*DIAGRAM NOT TO SCALE. X AND Y AXIS HAS BEEN DISTORTED FOR CLARITY



EXPOSED FLOODWALL | CONNECTING THE SPACES

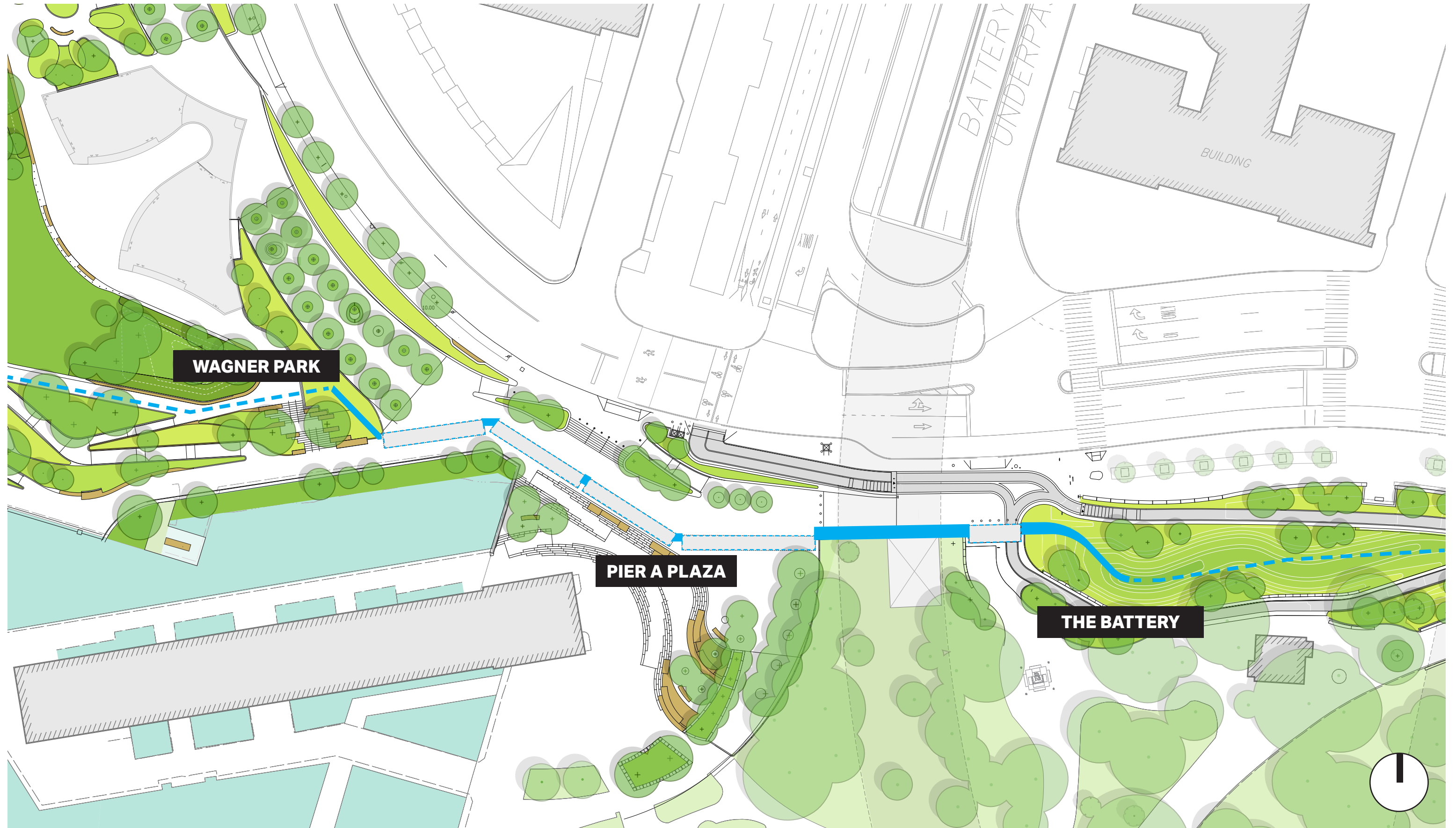


WAGNER PARK

PIER A PLAZA

THE BATTERY

EXPOSED FLOODWALL | FLOOD ALIGNMENT



WAGNER PARK

PIER A PLAZA

THE BATTERY

BATTERY UNDERPASS

BUILDING



EXPOSED FLOODWALL | MATERIAL CONNECTION + TRANSITION

WARM + SATURATED

COOL + LIGHT

STONY CREEK



- Pink base color
- Black and grey speckles
- Used in The Battery

SAINT SEBASTIAN (NEWLY PROPOSED)



- Warm grey base color
- Fine black and grey speckles
- Complementary to other stones

STANSTEAD GREY



- Cool grey base color
- Fine black and grey speckles
- Quartz sparkles in sunlight

PEARL GREY



- Light grey/white base color
- Distinctive linear veining pattern
- Quartz sparkles in sunlight

CONCEPT 1 | INSPIRATION

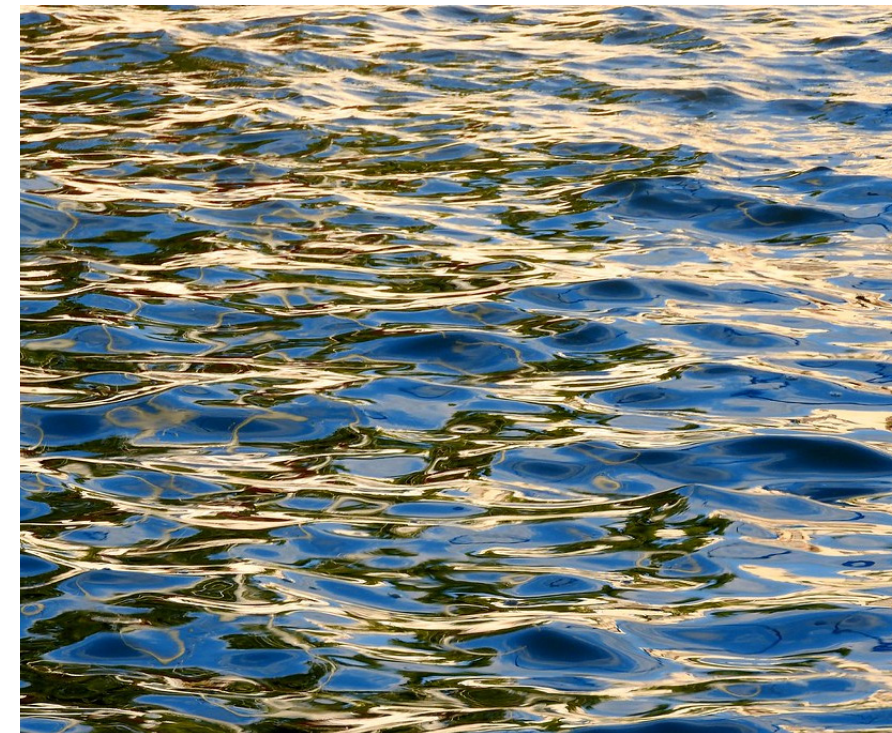
STACKED WALLS OF THE BATTERY



CASTLE CLINTON

+

FLUIDITY OF THE HUDSON



CONCEPT 1 | CONCEPT

STACKED WALLS OF THE BATTERY

FLUIDITY OF THE HUDSON



CONCEPT 1 | CONCEPT

STACKED STONE

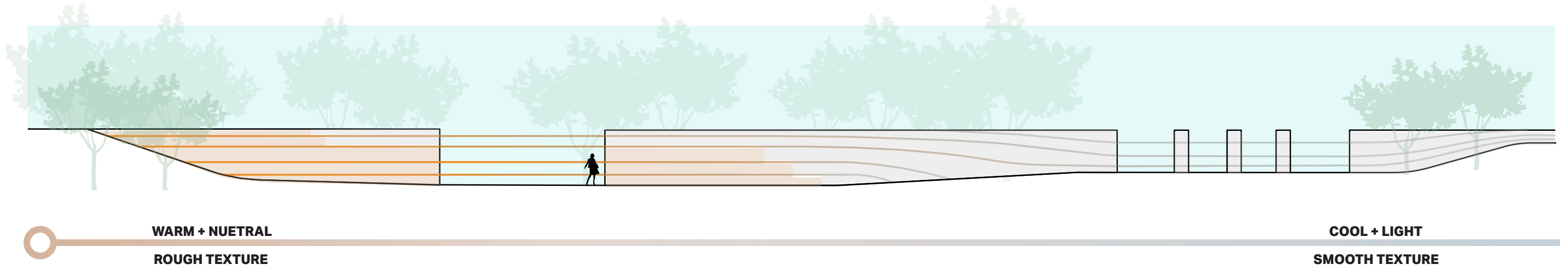
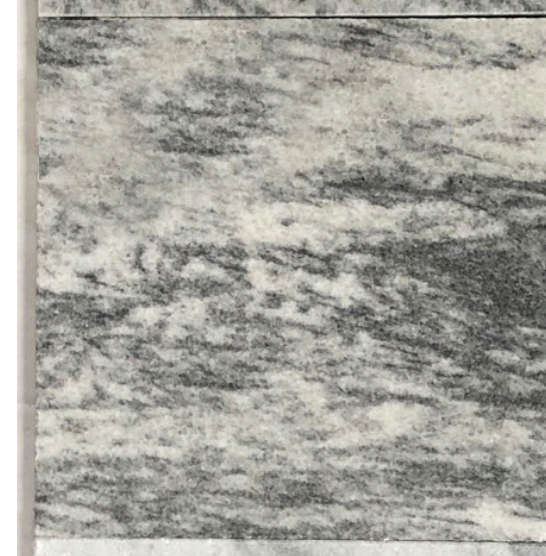
STONE CREEK

SAINT SEBASTIAN



HUDSON

PEARL GREY



*DIAGRAM NOT TO SCALE. X AND Y AXIS HAS BEEN DISTORTED FOR CLARITY

EXPOSED FLOODWALL | THE BATTERY + PIER A PLAZA + WAGNER PARK



BATTERY BERM

BATTERY ENTRANCE

SLOPE TO PIER A PLAZA

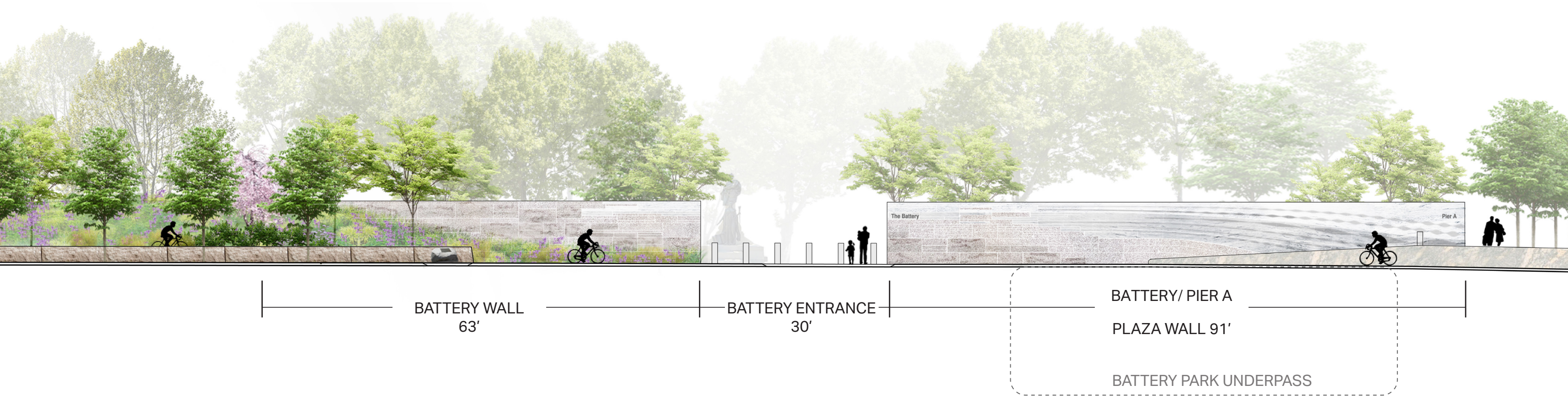
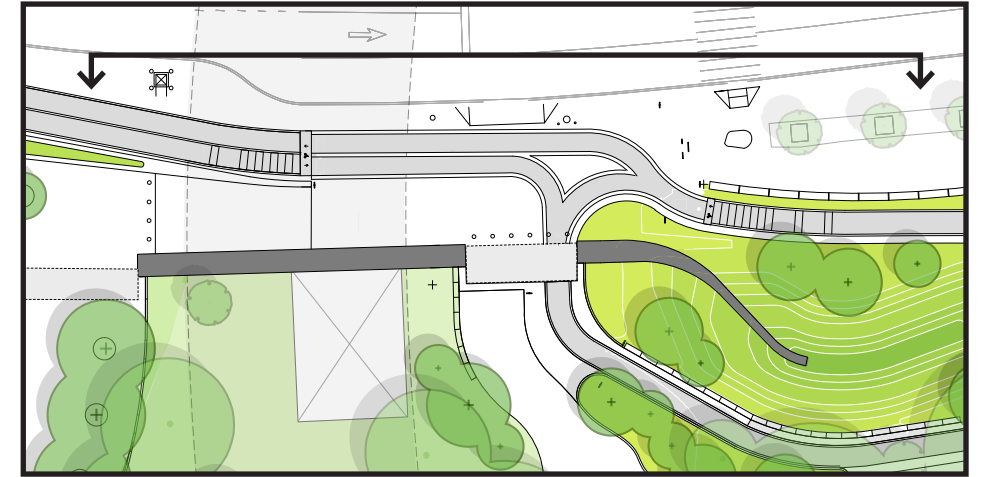
RAISED PLAZA

PIER A PLAZA ENTRANCE

WAGNER PARK

CONCEPT 1 | THE BATTERY + PIER A PLAZA

THIS CONCEPT STRENGTHENS THE RELATIONSHIP WITH THE ADJACENT STONY CREEK BLOCKS BY USING THE STONE SAINT SEBASTIAN, WHICH BRINGS A SUBTLE WARMTH TO THE WALL.

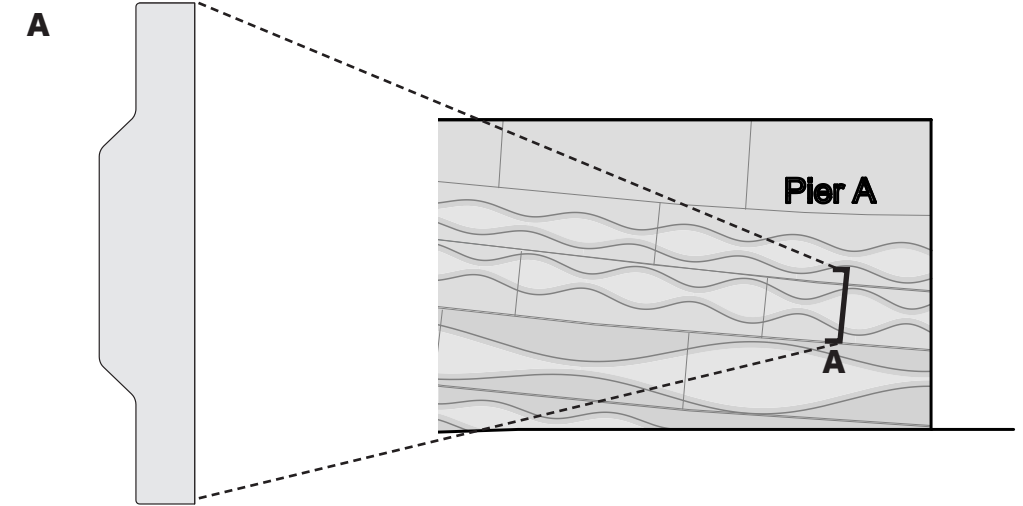


CONCEPT 1 | THE BATTERY + PIER A PLAZA

RIPPLES AS EXTRUSIONS

SECTION

ELEVATION



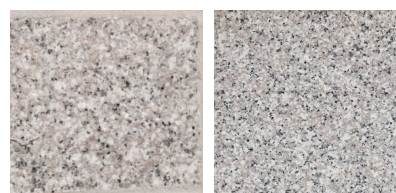
STONE TYPES

STONY CREEK



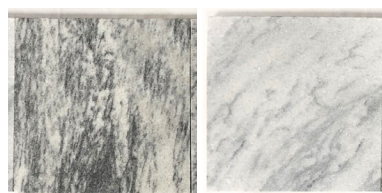
EXISTING SITE WALL

● ● SAINT SEBASTIAN



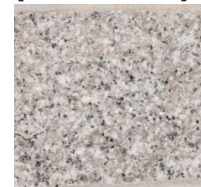
FLOODWALL

● ● PEARL GREY

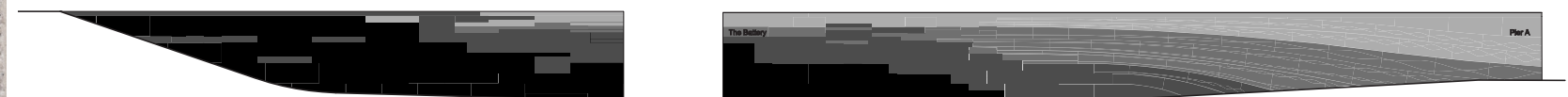


STONE KEY PLAN

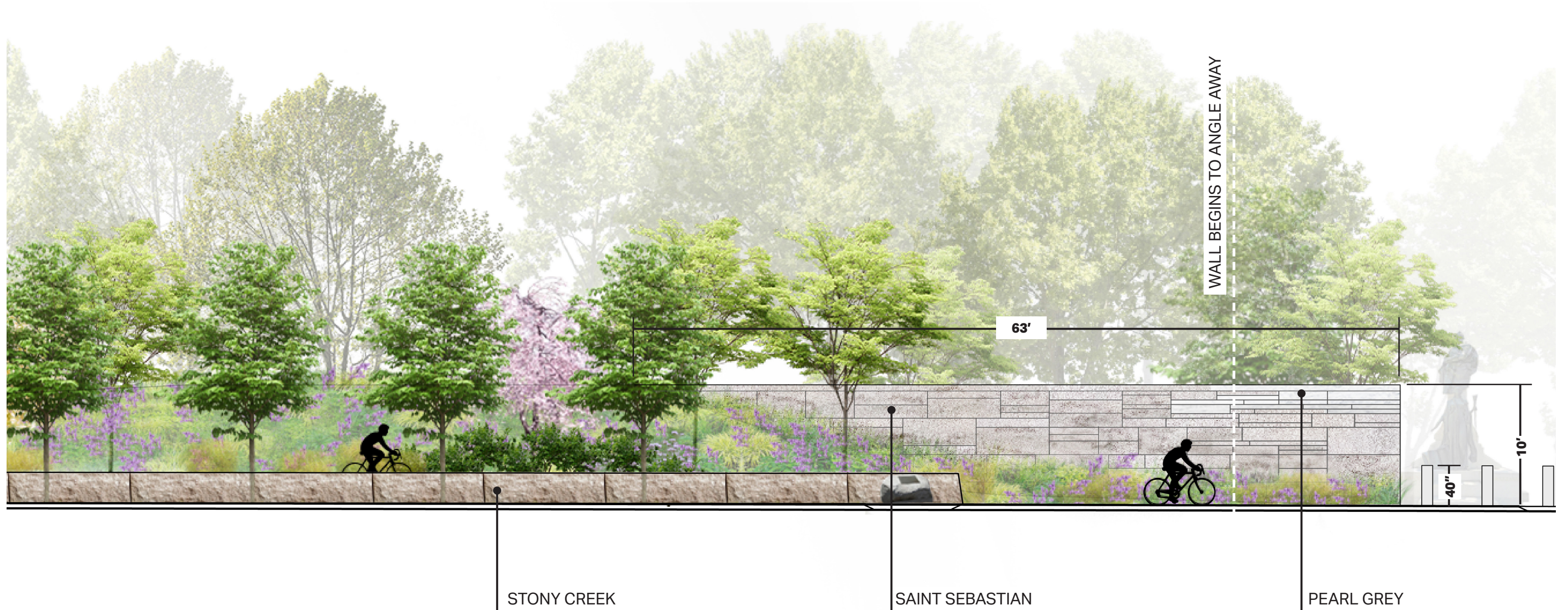
SAINT SEBASTIAN (OR SIMILAR)



SITE SECURITY WALLS



CONCEPT 1 | THE BATTERY ENLARGEMENT



SCALE: 1" = 8'



NEW YORK
STATE OF
OPPORTUNITY.

Battery Park
City Authority

AECOM

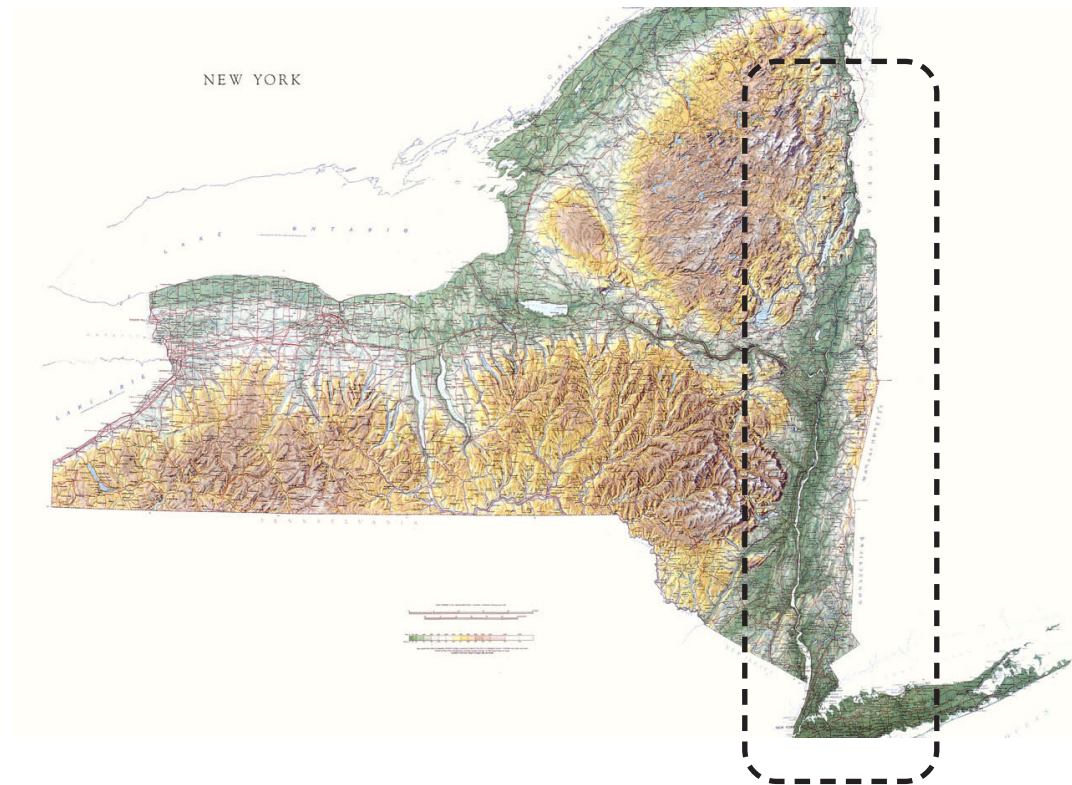


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City Authority

AECOM

CONCEPT 2 | INSPIRATION

HUDSON RIVER VALLEY TOPOGRAPHY

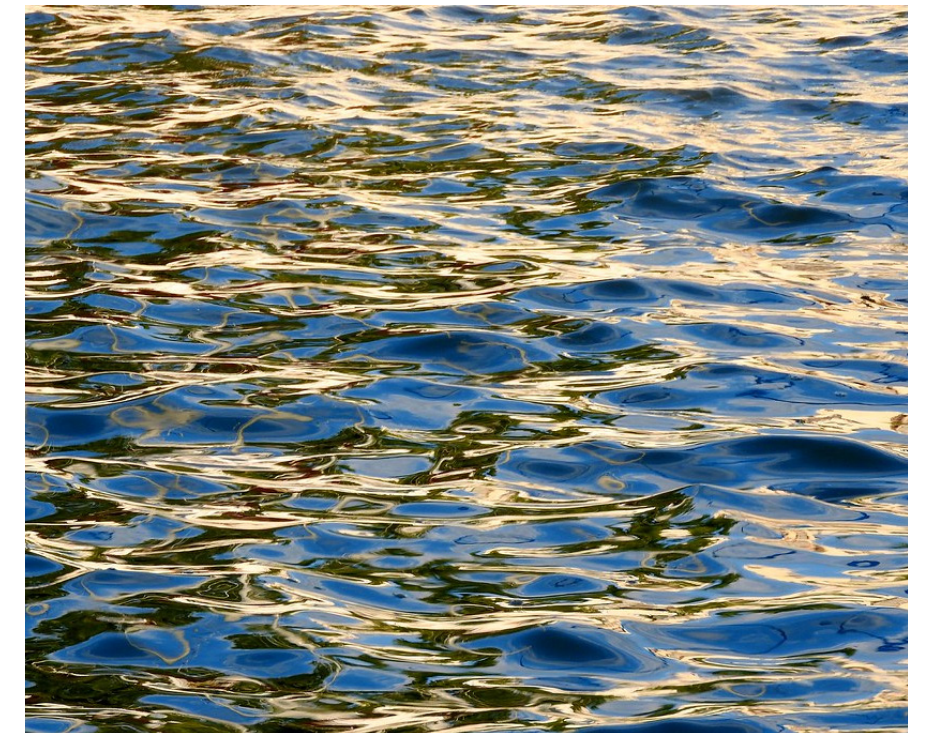


THE HUDSON BECOMING THE NEW YORK HARBOR



+

FLUIDITY OF THE HUDSON

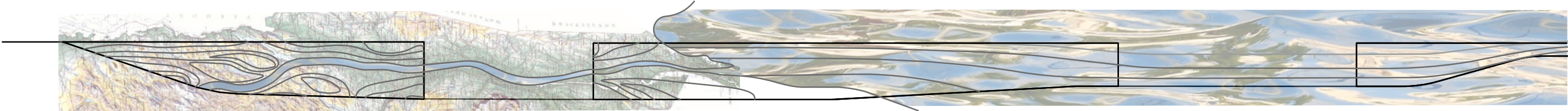


CONCEPT 2 | CONCEPT

HUDSON RIVER VALLEY TOPOGRAPHY

THE HUDSON BECOMING THE NEW YORK HARBOR

FLUIDITY OF THE HUDSON



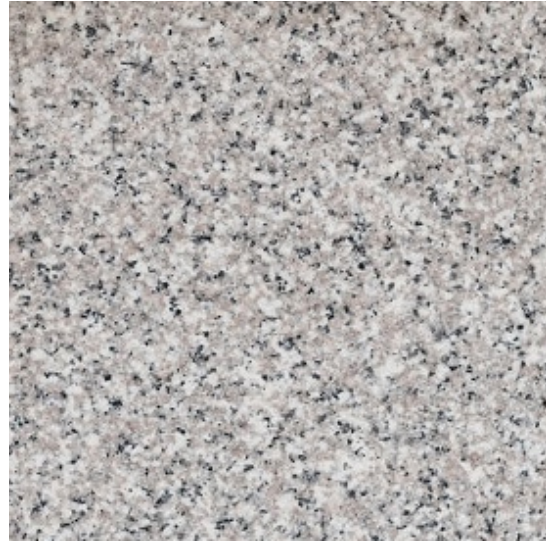
CONCEPT 2 | CONCEPT

TOPOGRAPHY

STONY CREEK



SAINT SEBASTIAN

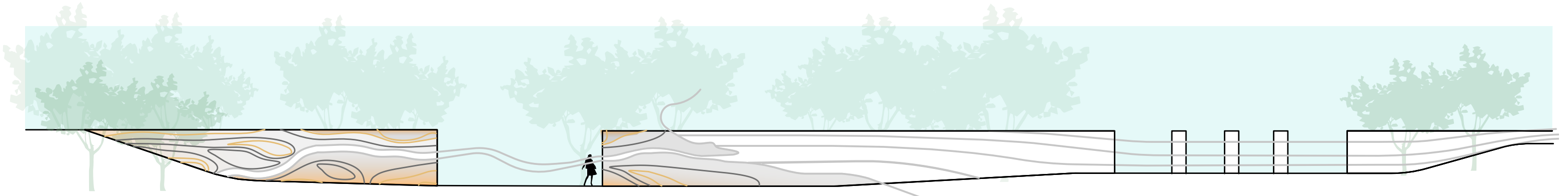


PEARL GREY



HUDSON

PEARL GREY



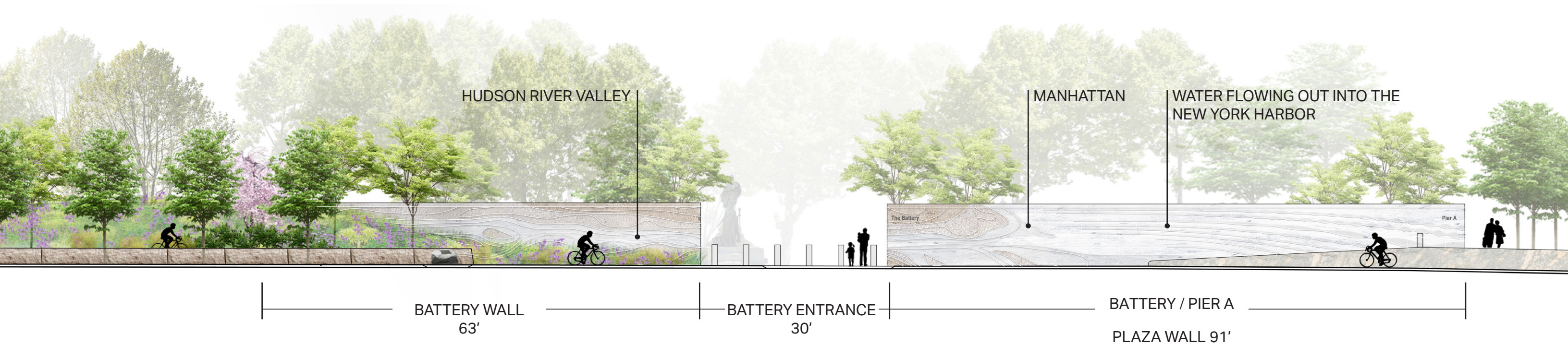
WARM + LIGHT
ROUGH TEXTURE

COOL + LIGHT
SMOOTH TEXTURE

*DIAGRAM NOT TO SCALE. X AND Y AXIS HAS BEEN DISTORTED FOR CLARITY

CONCEPT 2 | THE BATTERY + PIER A PLAZA

THIS PROPOSAL STRENGTHENS THE RELATIONSHIP WITH THE ADJACENT STONY CREEK BLOCKS BY TRANSITIONING FROM WARMER, MORE TEXTURED FINISHES IN THE BATTERY, TO LIGHTER FINISHES IN PIER A AND WAGNER PARK.

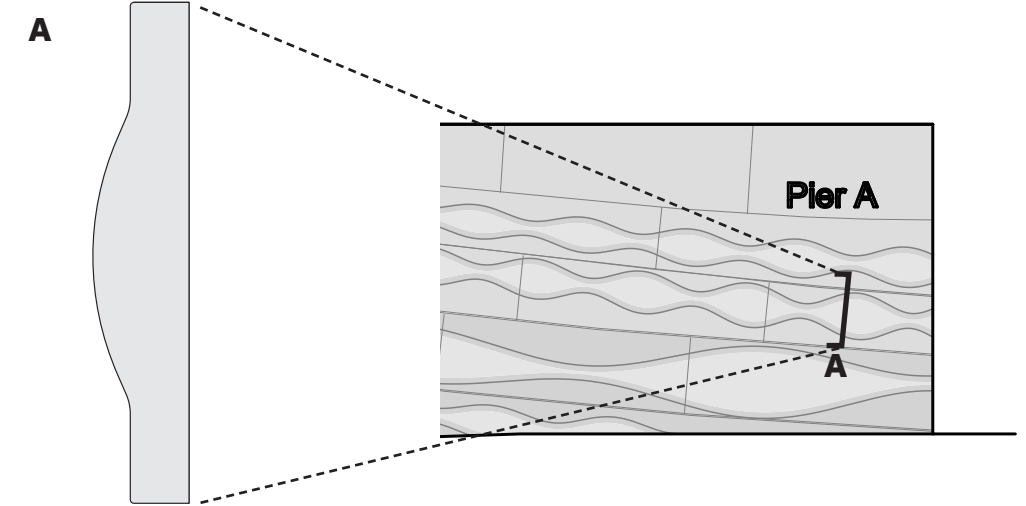


CONCEPT 2 | THE BATTERY + PIER A PLAZA

LAND AS LAYERS



RIPPLES AS SOFT EXTRUSIONS
SECTION ELEVATION



STONE TYPES

● STONY CREEK

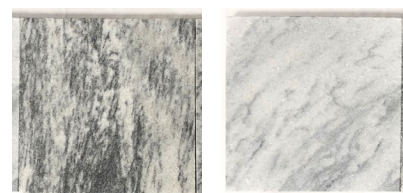


FLOODWALL

● SAINT SEBASTIAN



● PEARL GREY



SAINT SEBASTIAN (OR SIMILAR)

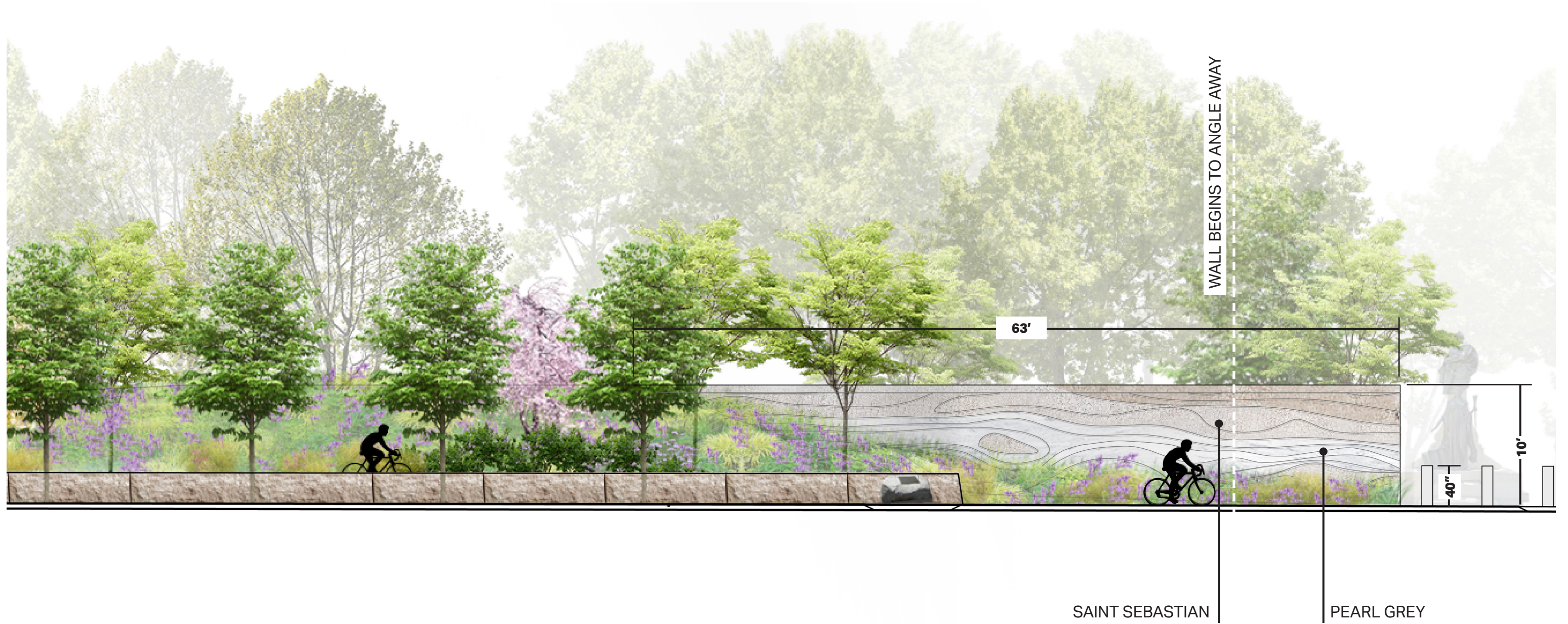


SITE SECURITY WALLS

STONE KEY PLAN

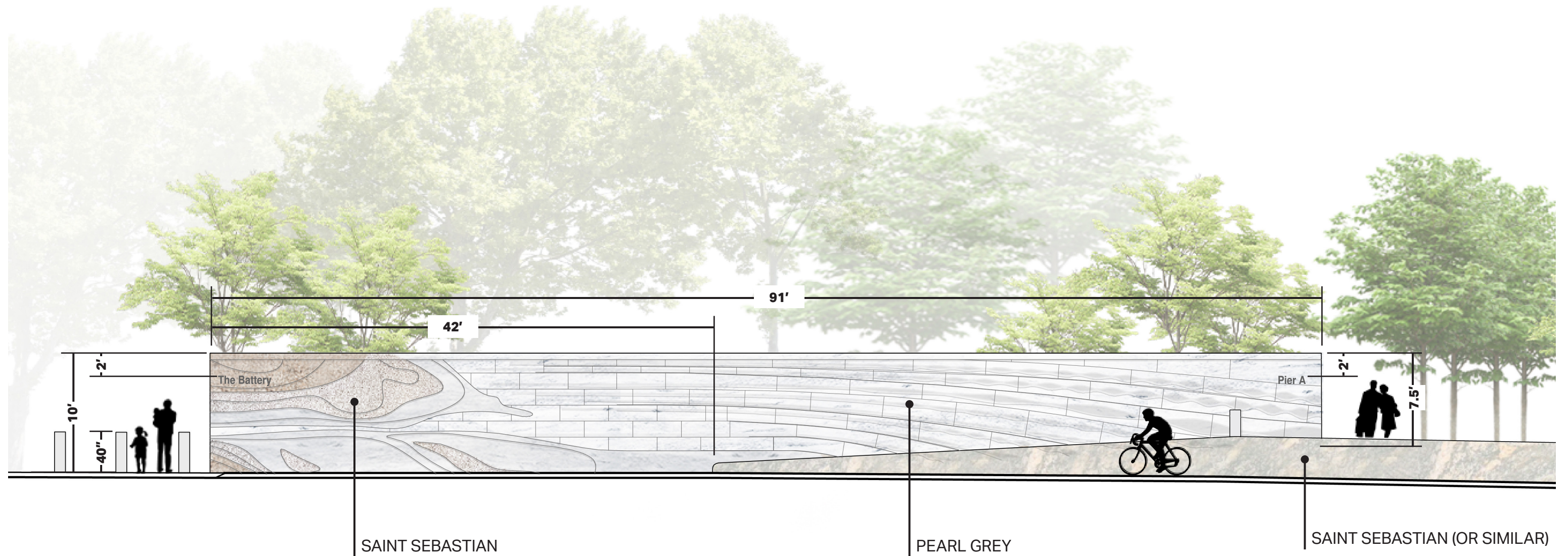


CONCEPT 2 | THE BATTERY ENLARGEMENT



SCALE: 1" = 8'

CONCEPT 2 | PIER A PLAZA ENLARGEMENT



SCALE: 1" = 8'



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EXPOSED FLOODWALL | THE BATTERY + PIER A PLAZA



EXPOSED FLOODWALL | PIER A PLAZA + WAGNER PARK



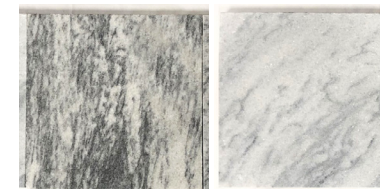
STONE TYPES

SAINT SEBASTIAN
(OR SIMILAR)



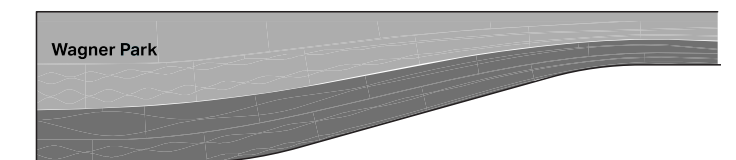
SITE SECURITY WALLS

● ● PEARL GREY



FLOODWALL

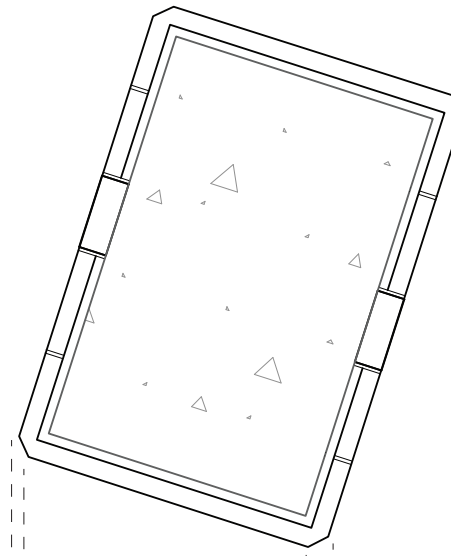
STONE KEY PLAN



EXPOSED FLOODWALL | COLUMNS



PLAN



ELEVATION

PEARL GREY
SANDBLASTED FINISH

PEARL GREY
HONED FINISH



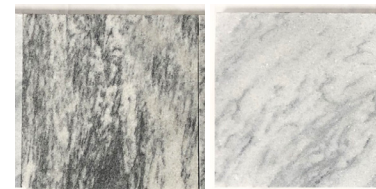
STONE TYPES

SAINT SEBASTIAN
(OR SIMILAR)



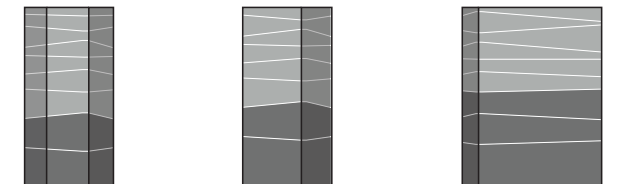
SITE SECURITY WALLS

● PEARL GREY



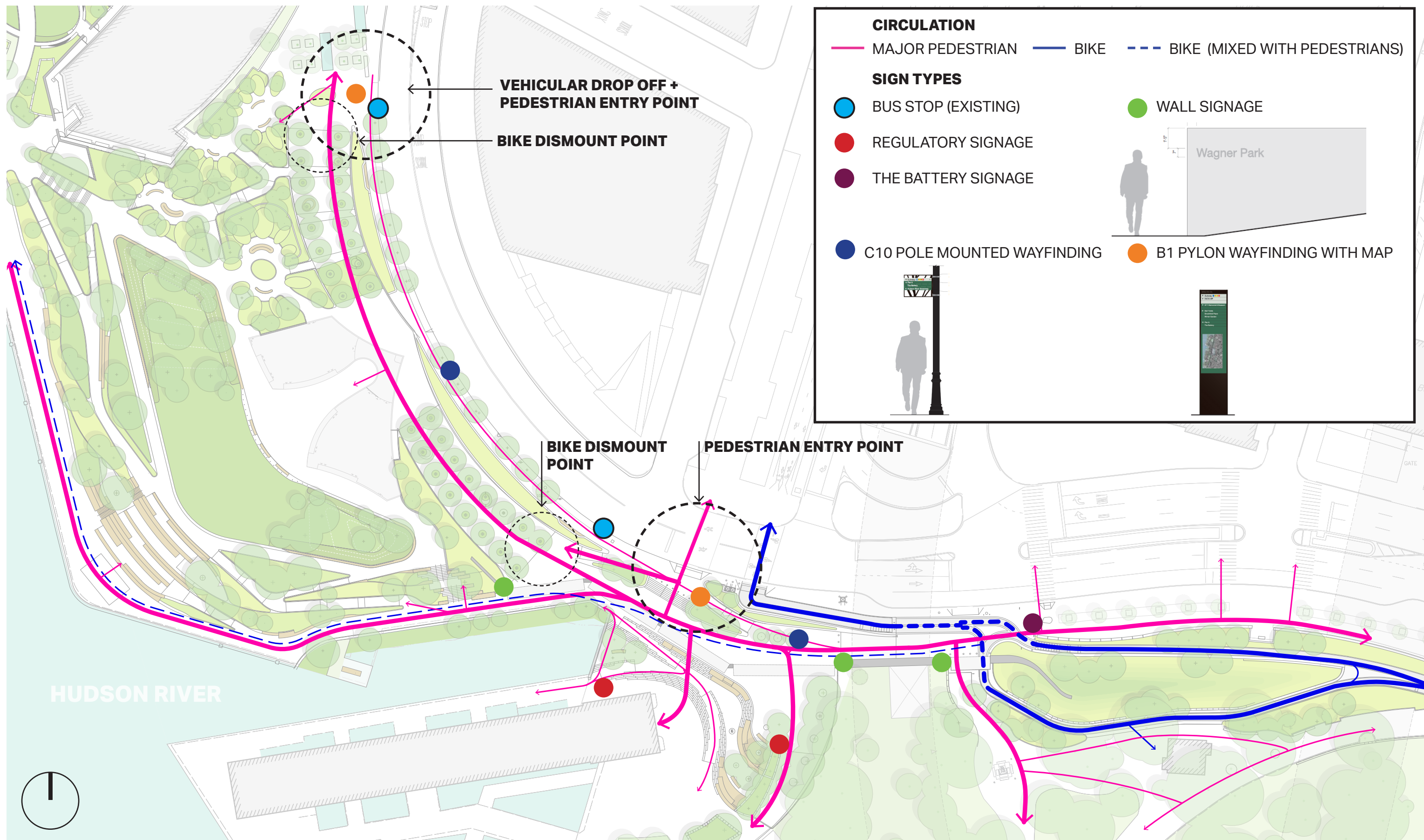
COLUMNS

STONE KEY PLAN



WAGNER PARK PAVILION BUILDING UPDATE

PIER A PLAZA + BATTERY PL | CIRCULATION + WAYFINDING



SITE PLANNING CORE VALUES

- Elevate the site to maximize protected area
- Organize site around central lawn + axis to Statue of Liberty
- Move building closer to street to maximize continuous park area
- Align building and approach with allees + establish central connector space
- Provide universal accessibility throughout park
- Frame views to the Statue of Liberty

HUDSON RIVER

MUSEUM OF JEWISH HERITAGE

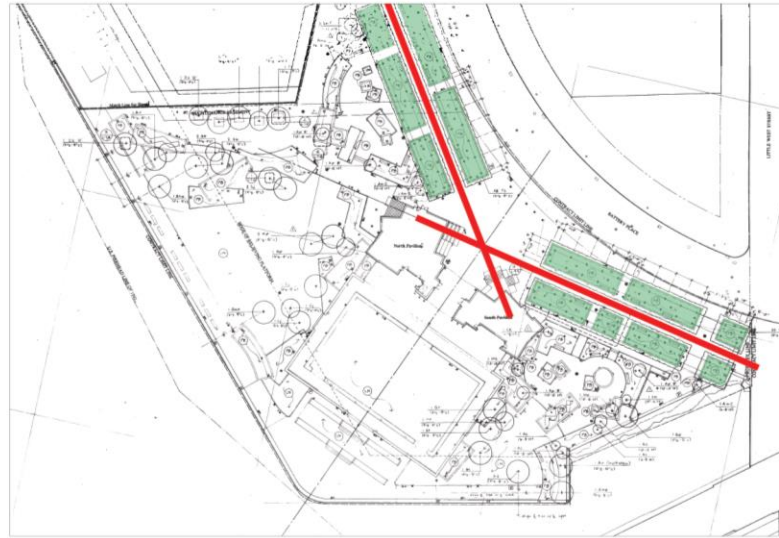
PAVILION PLANNING

- Services at Street Level
- Public Areas At Park Level

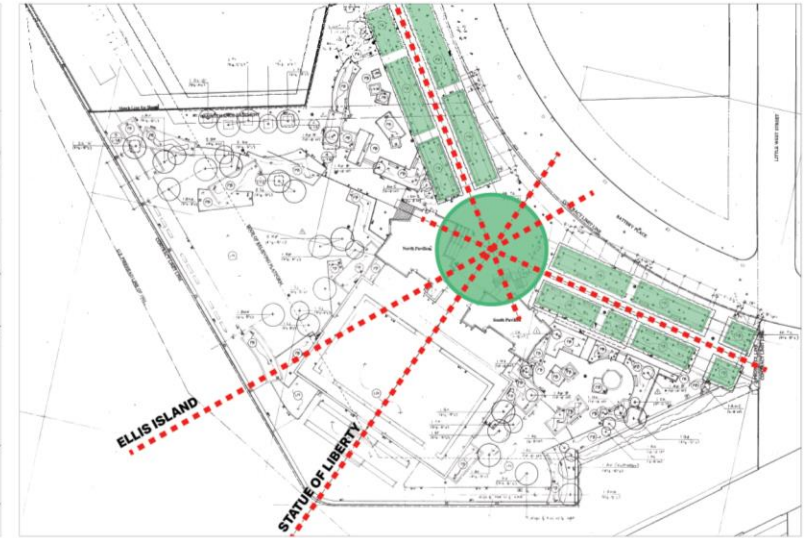
DESIGN LEGACY | PAVILION CORE VALUES



1. FRAME VIEW TO STATUE OF LIBERTY



2. ALIGN APPROACH AXES WITH TREE ALLÉES + PRESERVE TREES



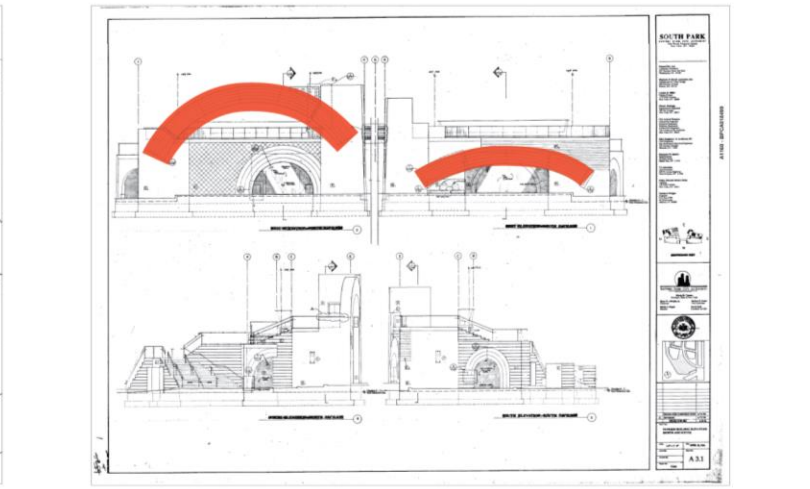
3. ESTABLISH CENTRAL GATHERING SPACE



4. MAXIMIZE PROTECTED GREEN SPACE



5. ENHANCE PROCESSION FROM STREET TO PARK LEVEL



6. RECALL VAULTING OF EXISTING PAVILION



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BATTERY PLACE ELEVATION STUDY | CB1 UPDATE



BATTERY PLACE ELEVATION STUDY | CB1 UPDATE



BATTERY PLACE ELEVATION STUDY | CB1 UPDATE



BATTERY PLACE ELEVATION STUDY | CB1 UPDATE



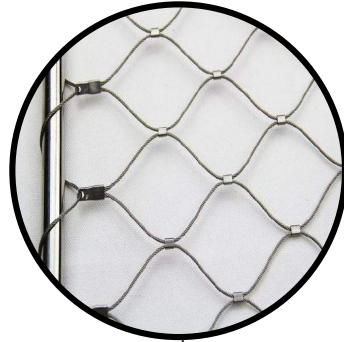
CB1 Meeting | 22nd February 2021

BATTERY PLACE ELEVATION STUDY | CB1 UPDATE

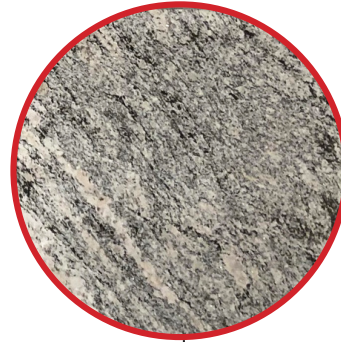
THERMALLY MODIFIED ASH
SEATING ELEMENTS



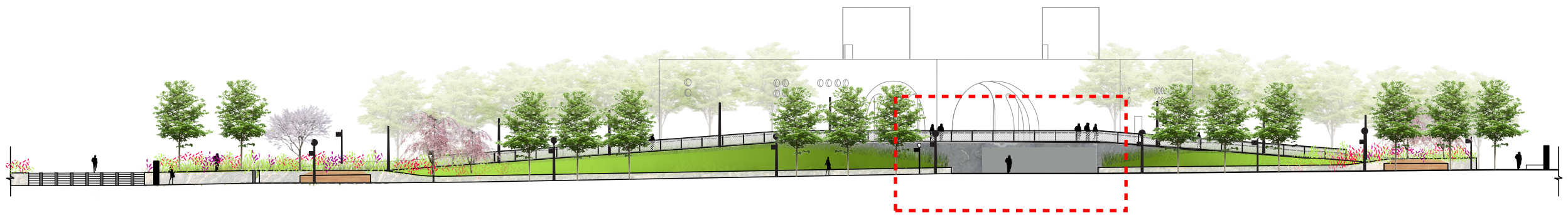
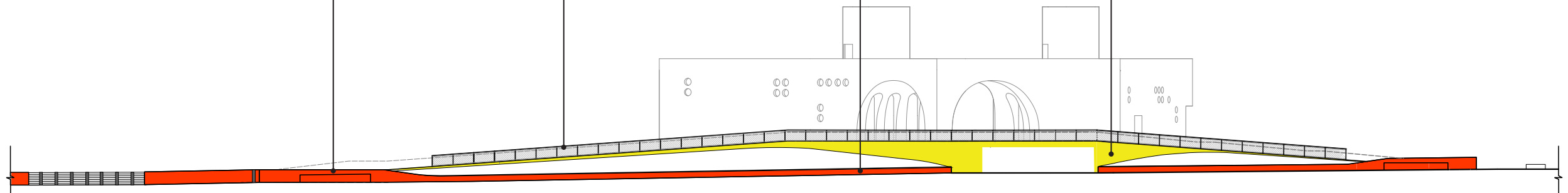
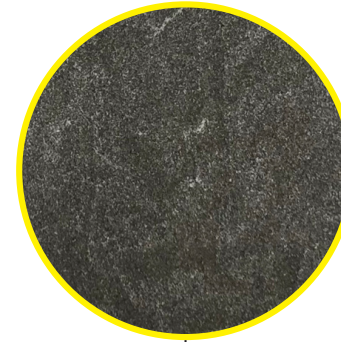
STAINLESS STEEL W/ XTEND MESH
GUARDRAIL



TAPESTRY STONE
SIDEWALK SITE WALL

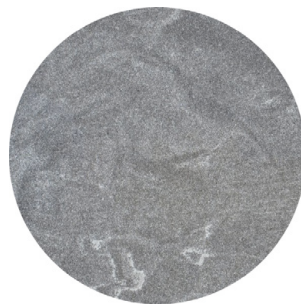
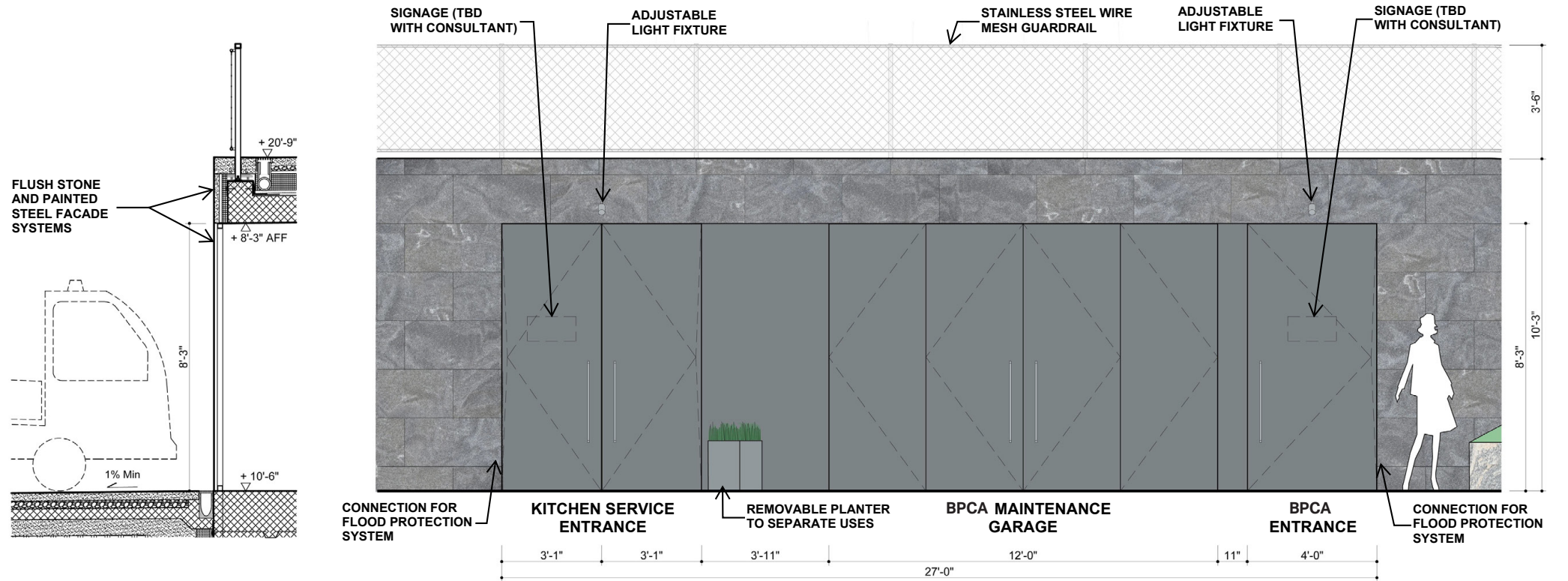


JET MIST STONE
BERM WALL



CB1 Meeting | 22nd February 2021

BATTERY PLACE ELEVATION STUDY | CB1 UPDATE



JET MIST GRANITE



RAL 7011 PAINTED STEEL WITH SIGNAGE (TBD)



DEPLOYABLE FLOOD PROTECTION SYSTEM



ADJUSTABLE LIGHT FIXTURES



STAINLESS STEEL WIRE DOOR PULLS



TOURNESOL RECTANGULAR PLANTERS

CB1 Meeting | 22nd February 2021



Wagner Park



Battery Park
City Authority

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Battery Park
City Authority

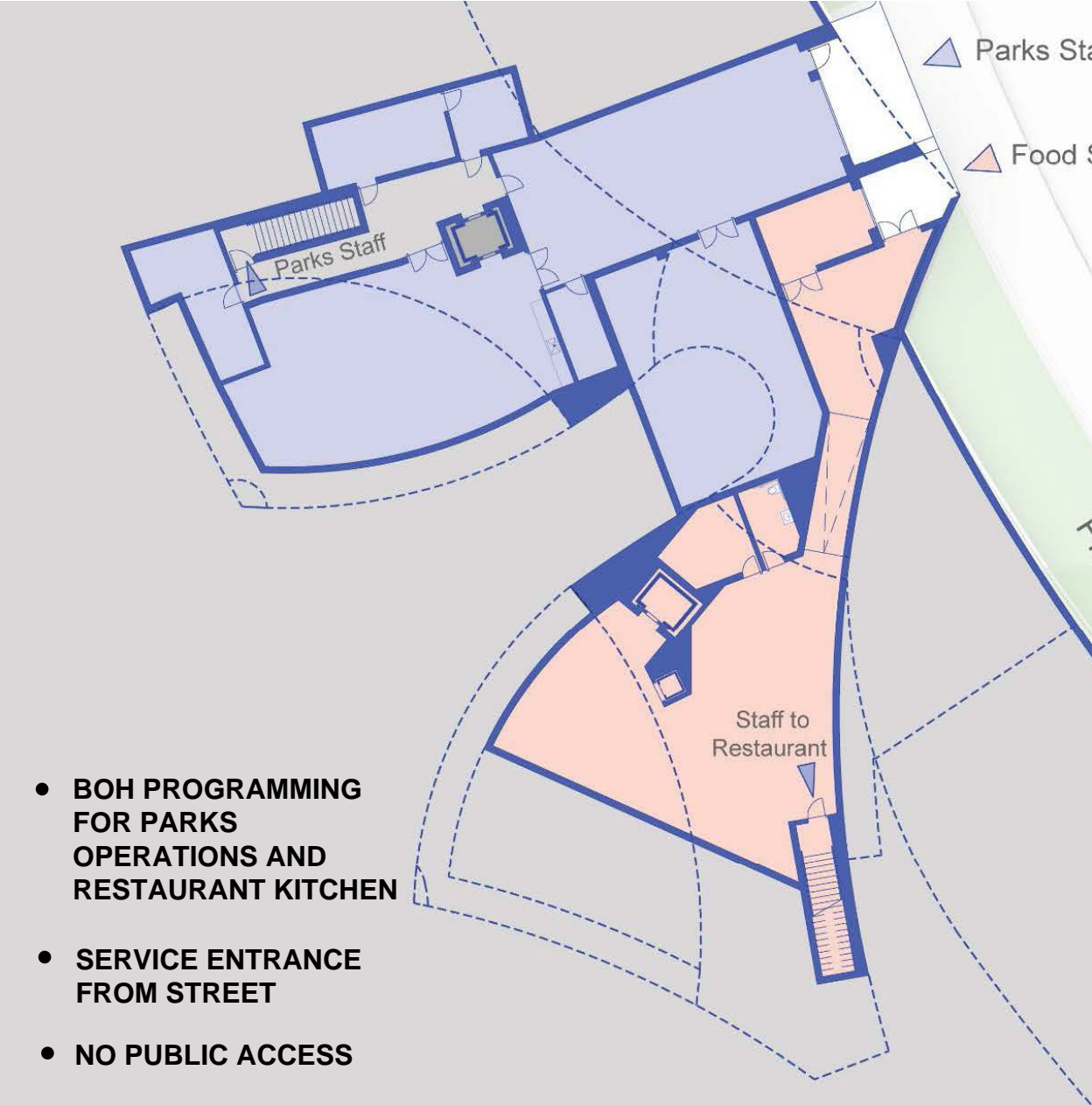
AECOM



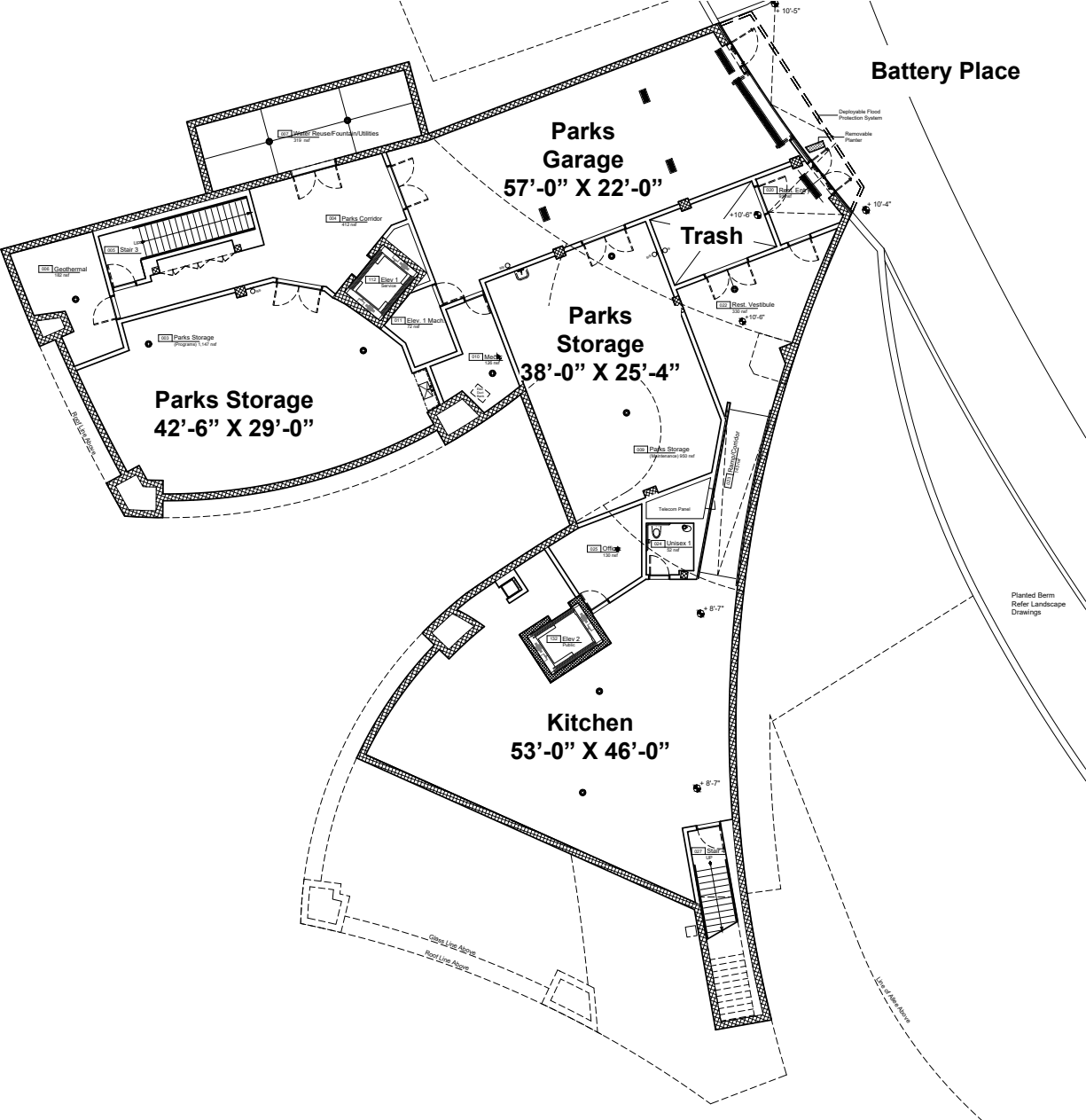
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BATTERY PLACE LEVEL PLAN

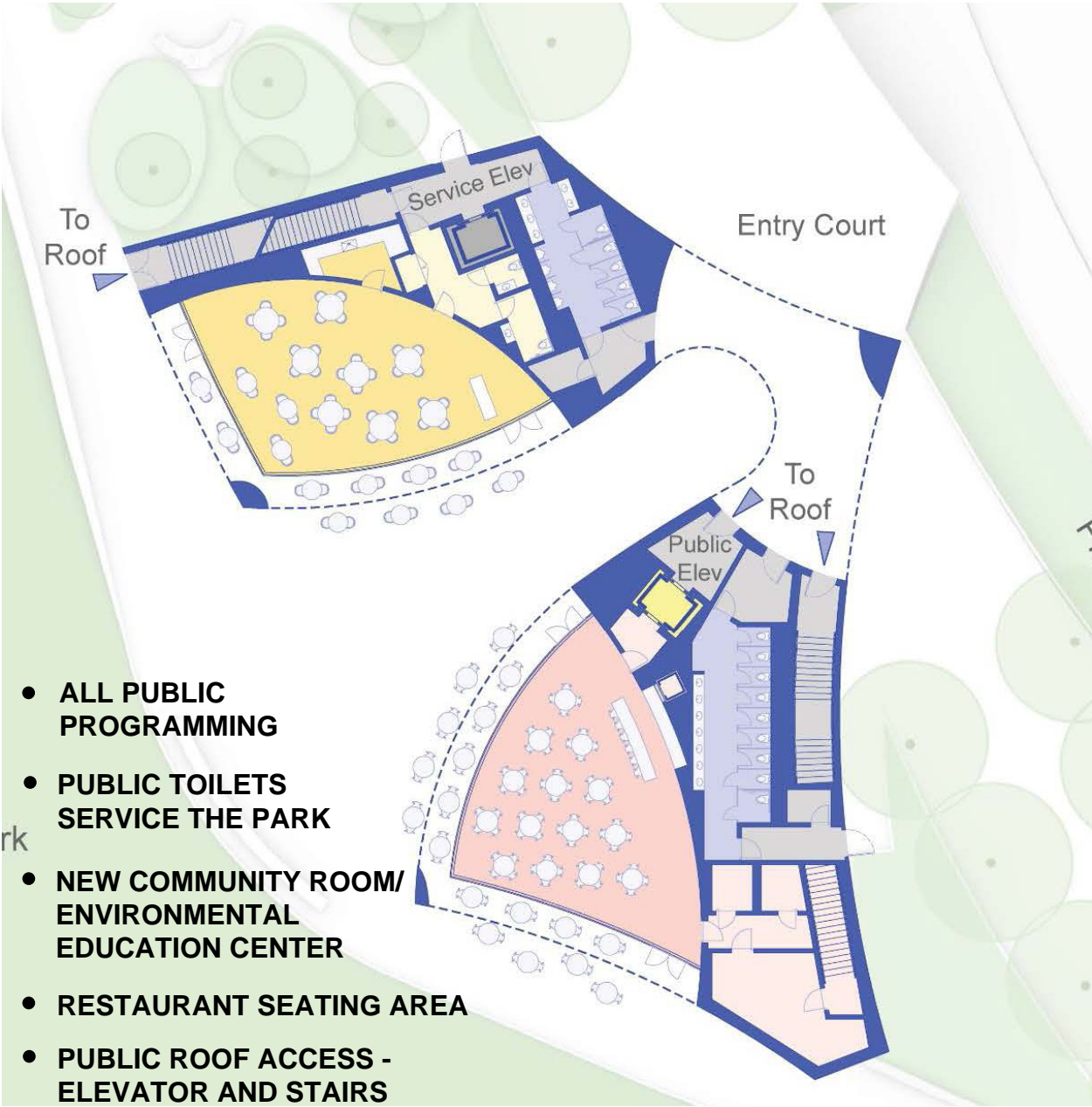


Public Presentation | January 15th 2020



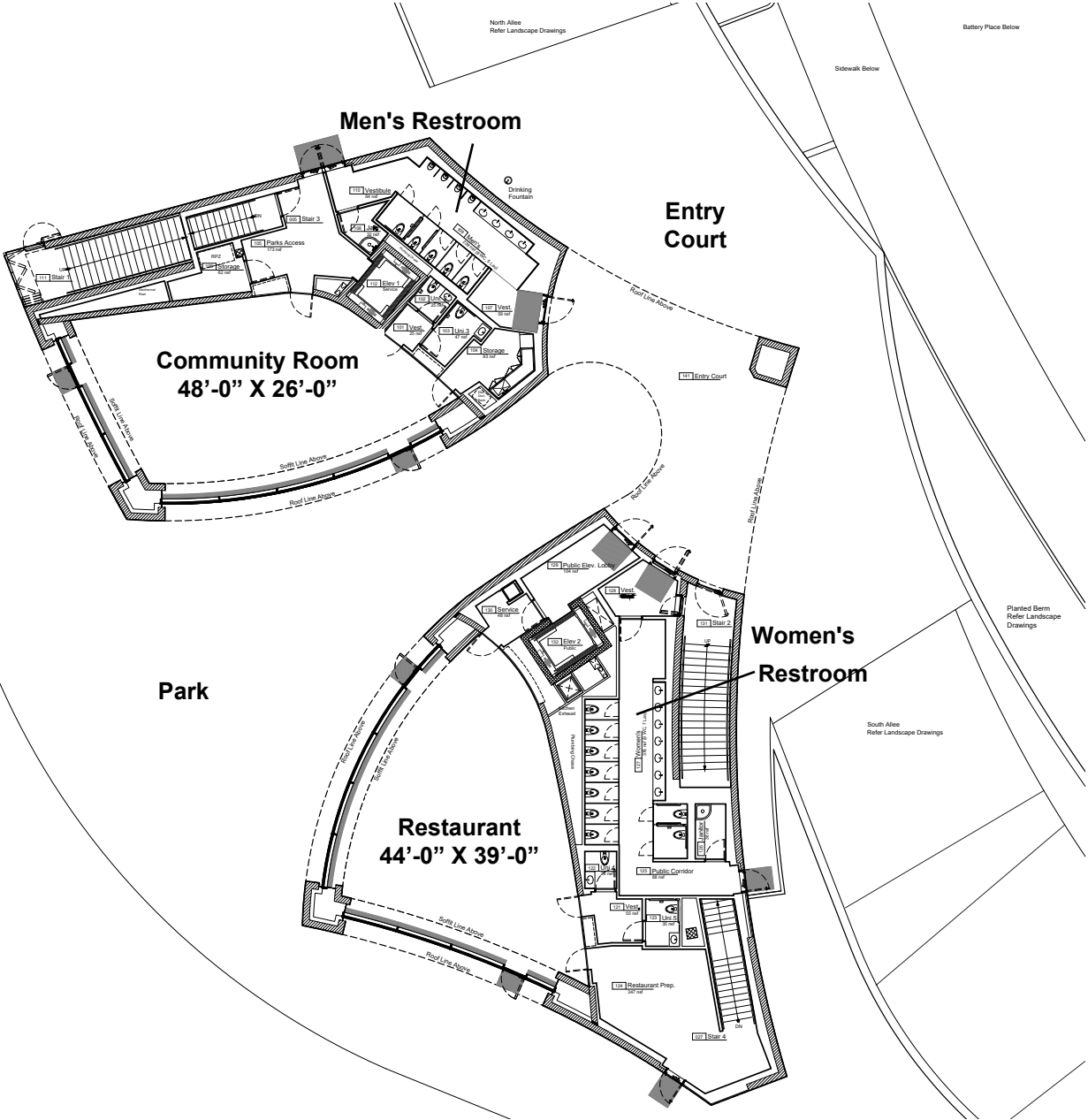
95% Construction Documents | March 12th 2021

PARK LEVEL PLAN



- ALL PUBLIC PROGRAMMING
- PUBLIC TOILETS SERVICE THE PARK
- NEW COMMUNITY ROOM/ ENVIRONMENTAL EDUCATION CENTER
- RESTAURANT SEATING AREA
- PUBLIC ROOF ACCESS - ELEVATOR AND STAIRS

Public Presentation | January 15th 2020

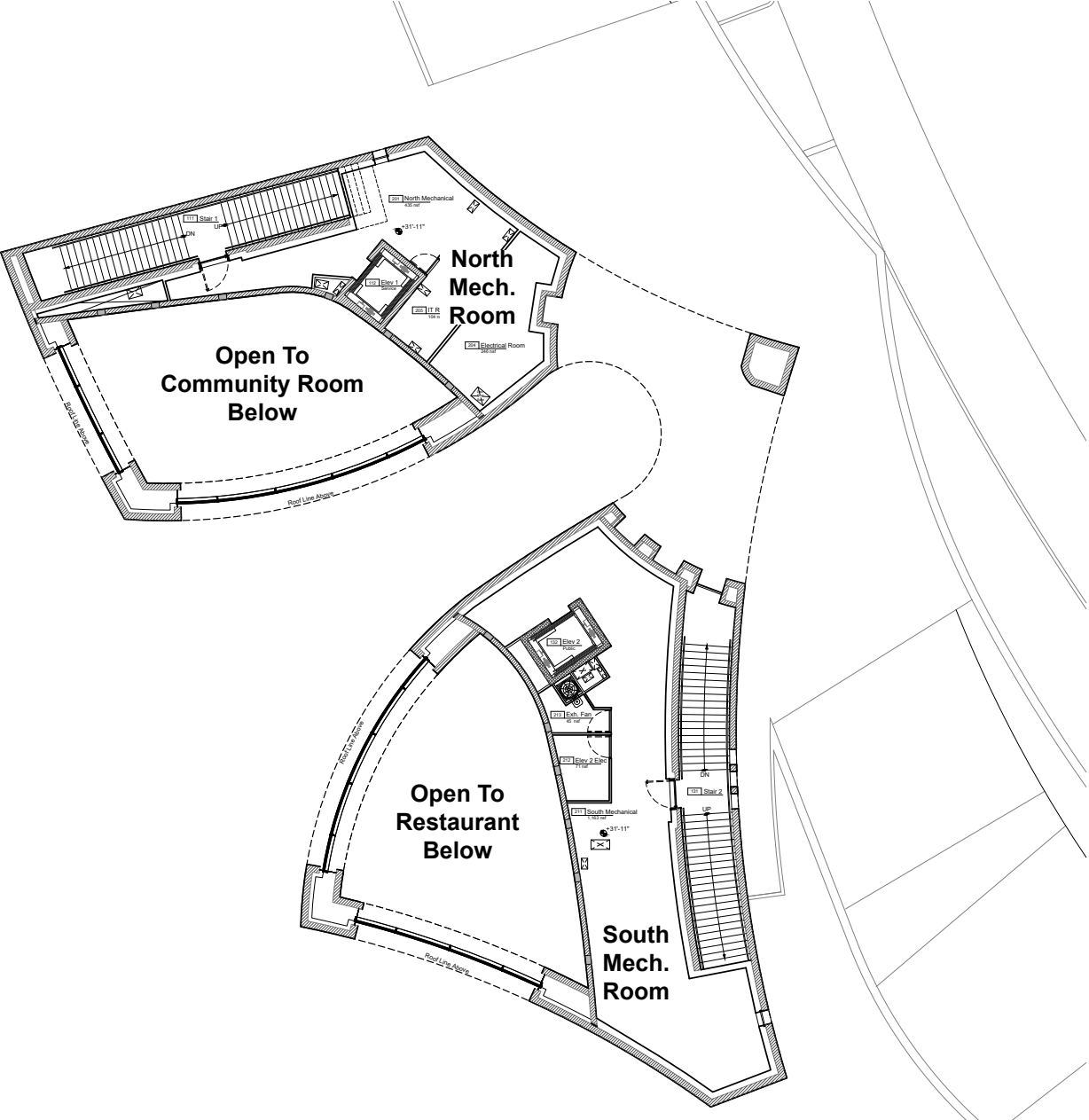


95% Construction Documents | March 12th 2021

MECHANICAL LEVEL PLAN

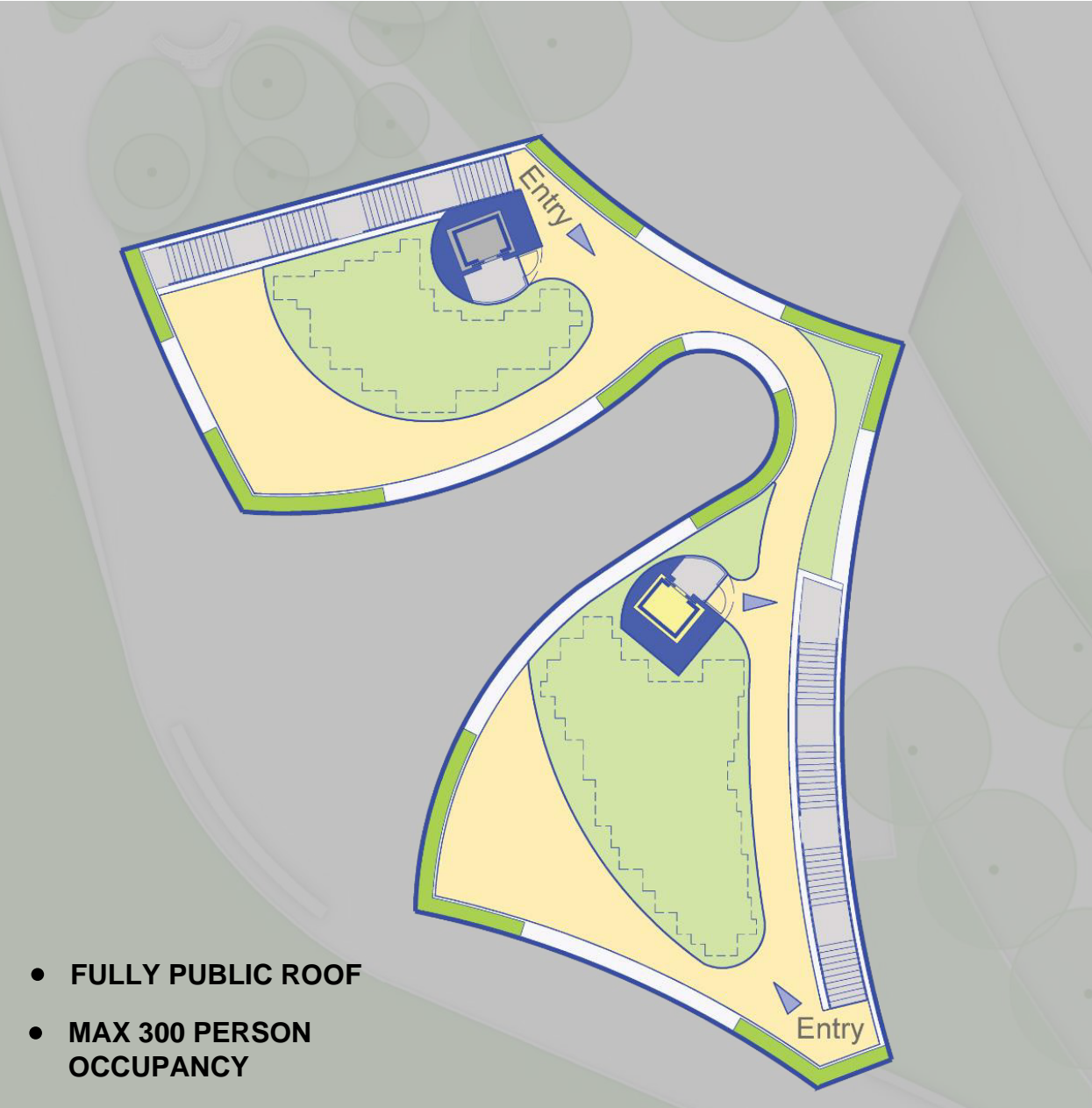


Public Presentation | January 15th 2020

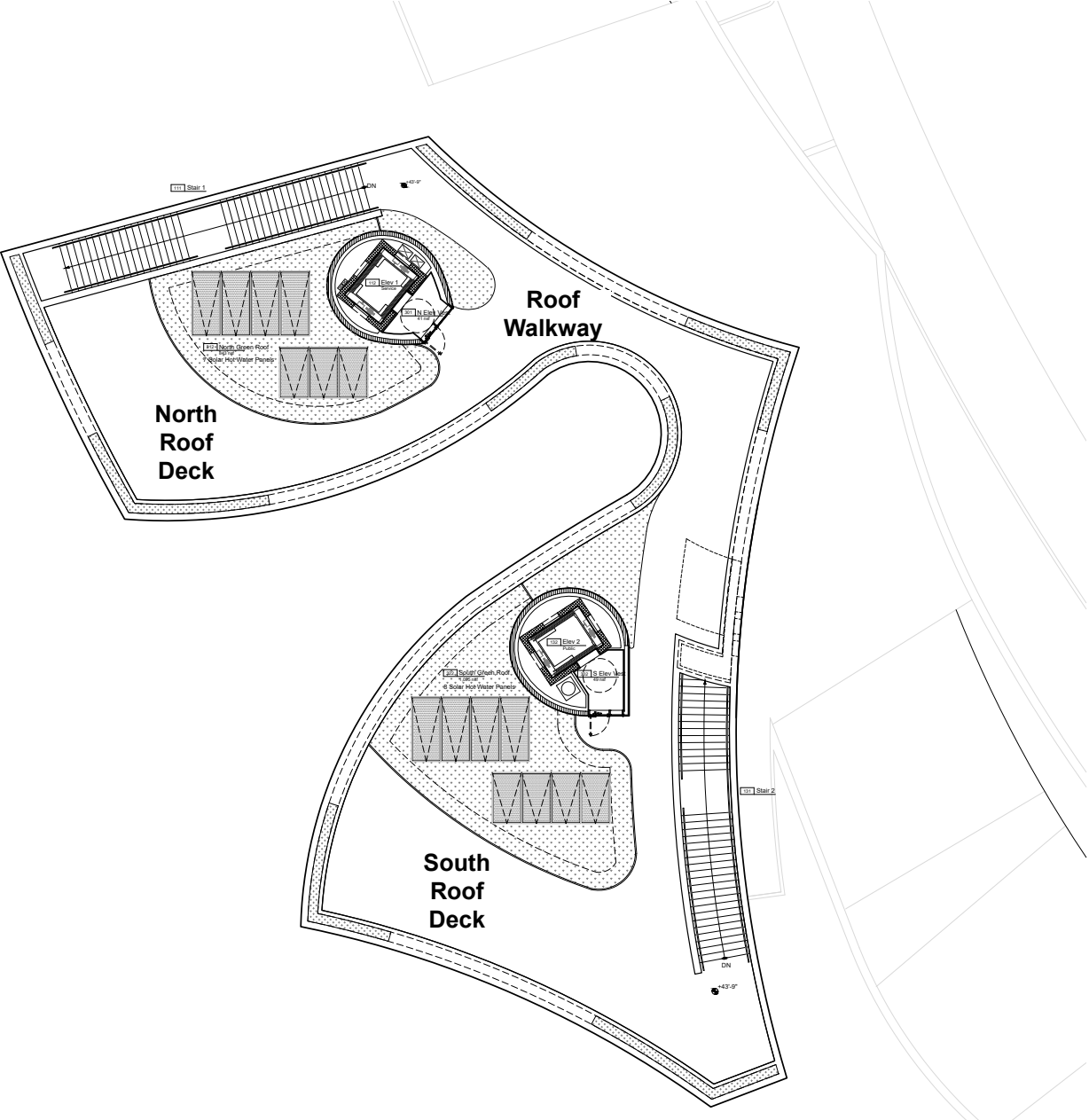


95% Construction Documents | March 12th 2021

ROOF LEVEL PLAN



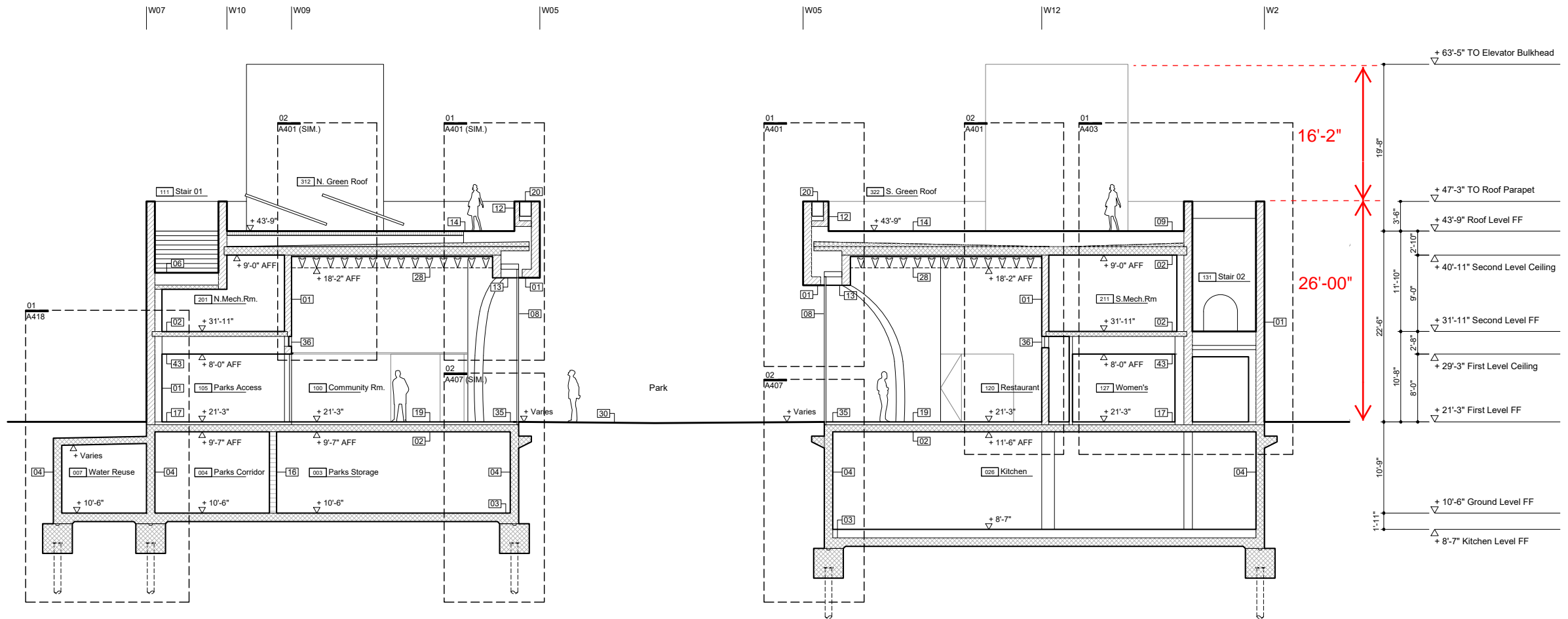
Public Presentation | January 15th 2020



95% Construction Documents | March 12th 2021

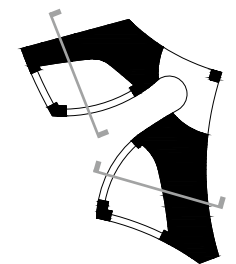
SECTIONS

Design Development | March 12th 2021

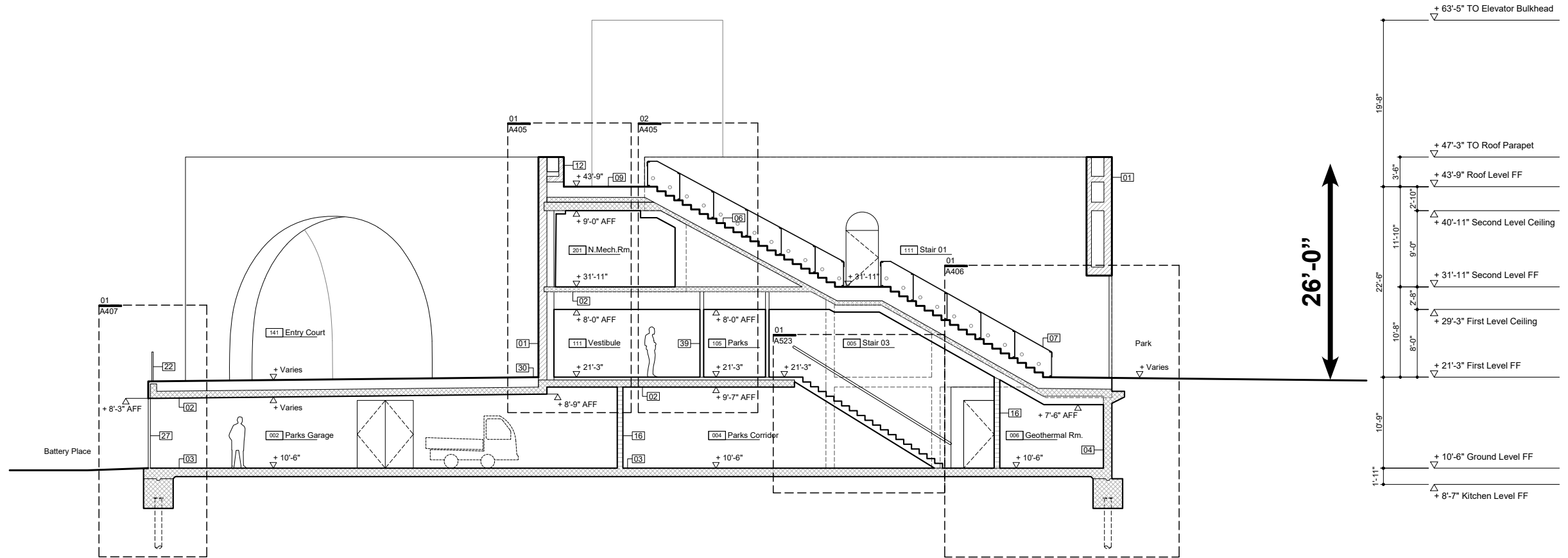


Section Through Community Room

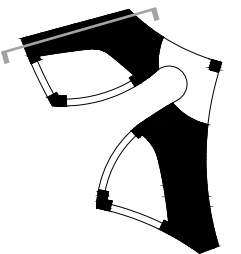
Section Through Restaurant



SECTIONS



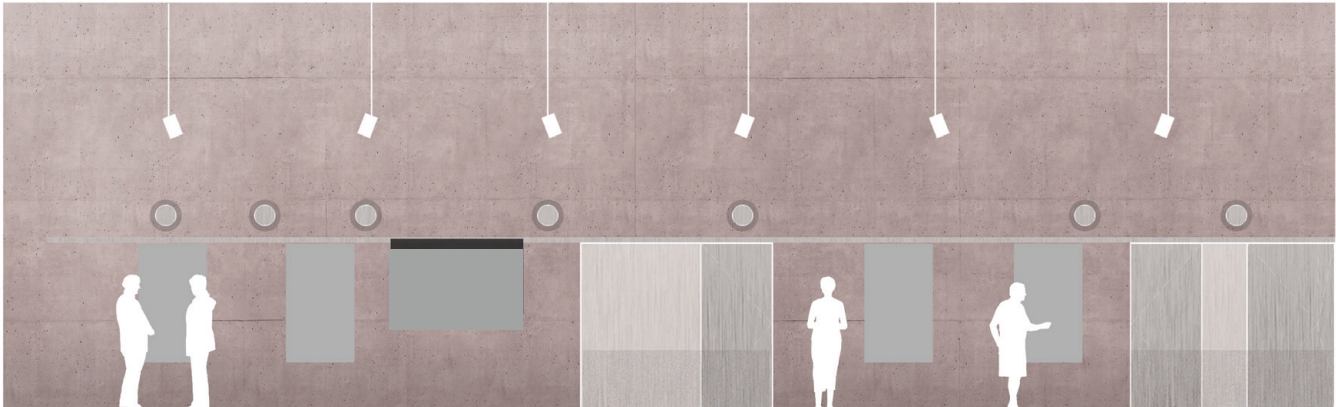
Section Through North Stair



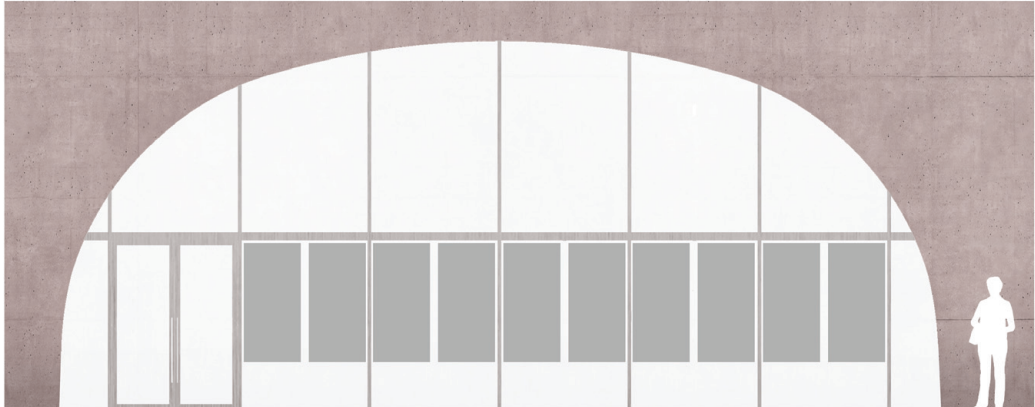
COMMUNITY ROOM | INTERIOR ELEVATIONS



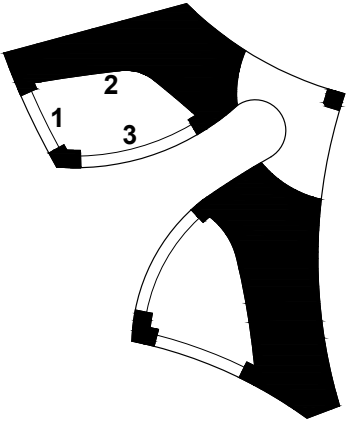
Elevation 01



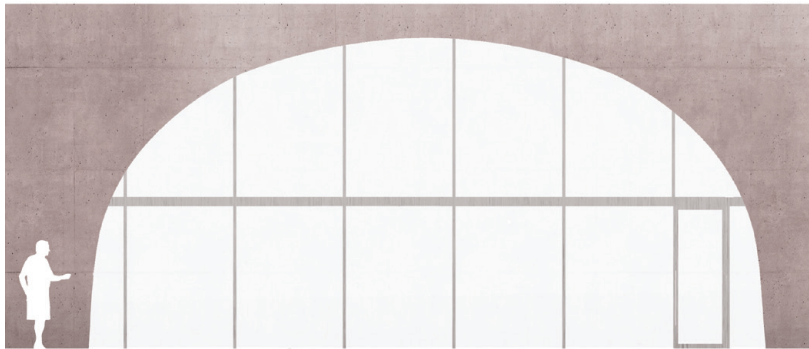
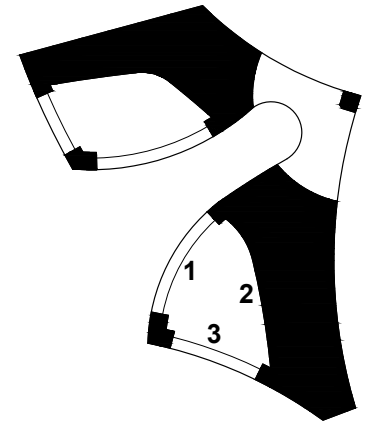
Elevation 02



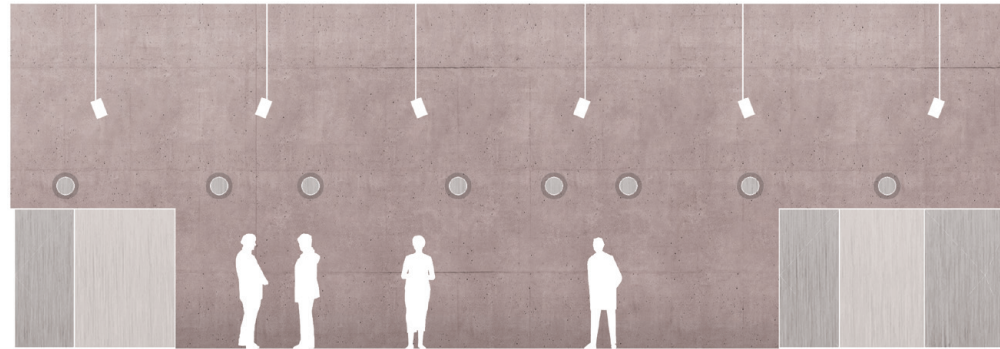
Elevation 03



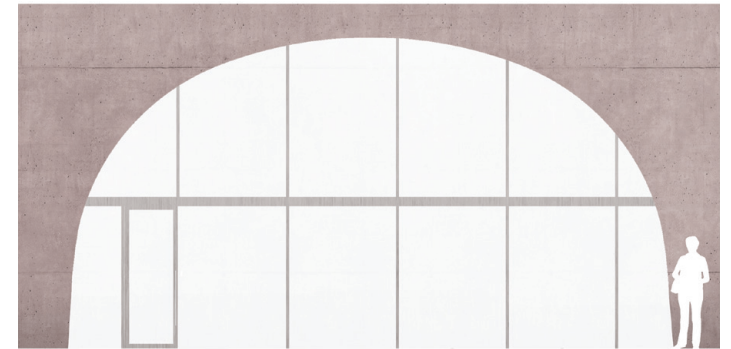
RESTAURANT | INTERIOR ELEVATIONS



Elevation 01



Elevation 02



Elevation 03

WAGNER PARK PAVILION
DESIGN STUDIES + ACCESSIBILITY



Battery Park
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PLANNING

- The Pavilion is surrounded by public spaces, therefore there is no 'rear elevation'
- Back-Of-House functions for both BPCA Parks and Restaurant require service access from the street
- The raising of the park created an opportunity to naturally separate out the service areas from the public areas
- The street level program is BOH only, the lawn level program is public
- The Pavilion is a stand alone structure which can be experienced from all sides at lawn level

HUDSON RIVER



CONCEPTUAL DESIGN | PUBLIC MEETING 3

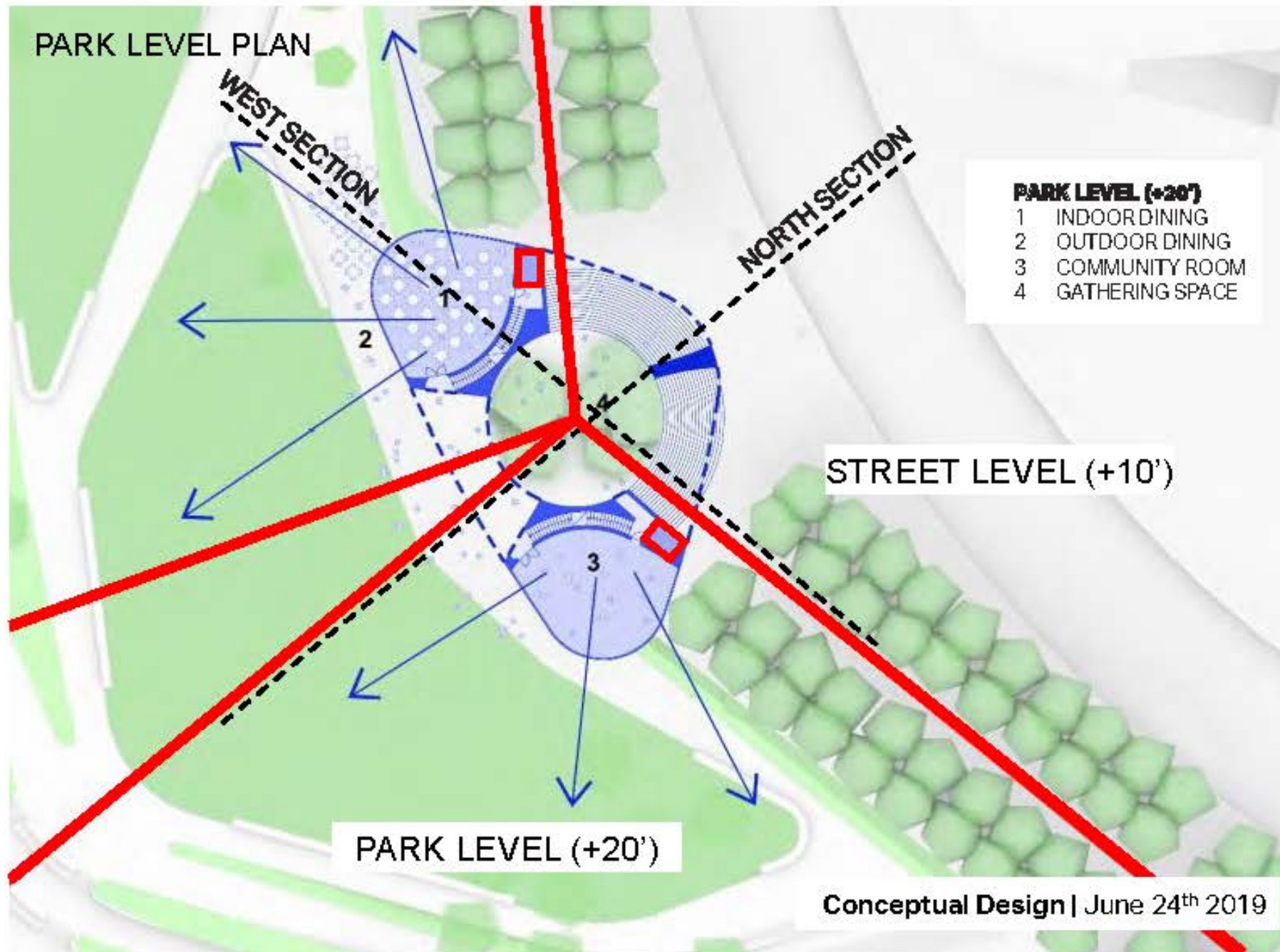
JUNE 2019 CONCEPT DESIGN

CONSIDERATIONS:

- Site planning commemorates original planning axis along allees with courtyard at junction at street level
- Original allee trees
- Grand Stair from Street level up to Park level
- Elevator included for ADA access

FEEDBACK:

- Adjust for universal access
- Maintenance concerns with elevators
- Ramp preferred in addition to an elevator



CONCEPTUAL DESIGN | PUBLIC MEETING 3

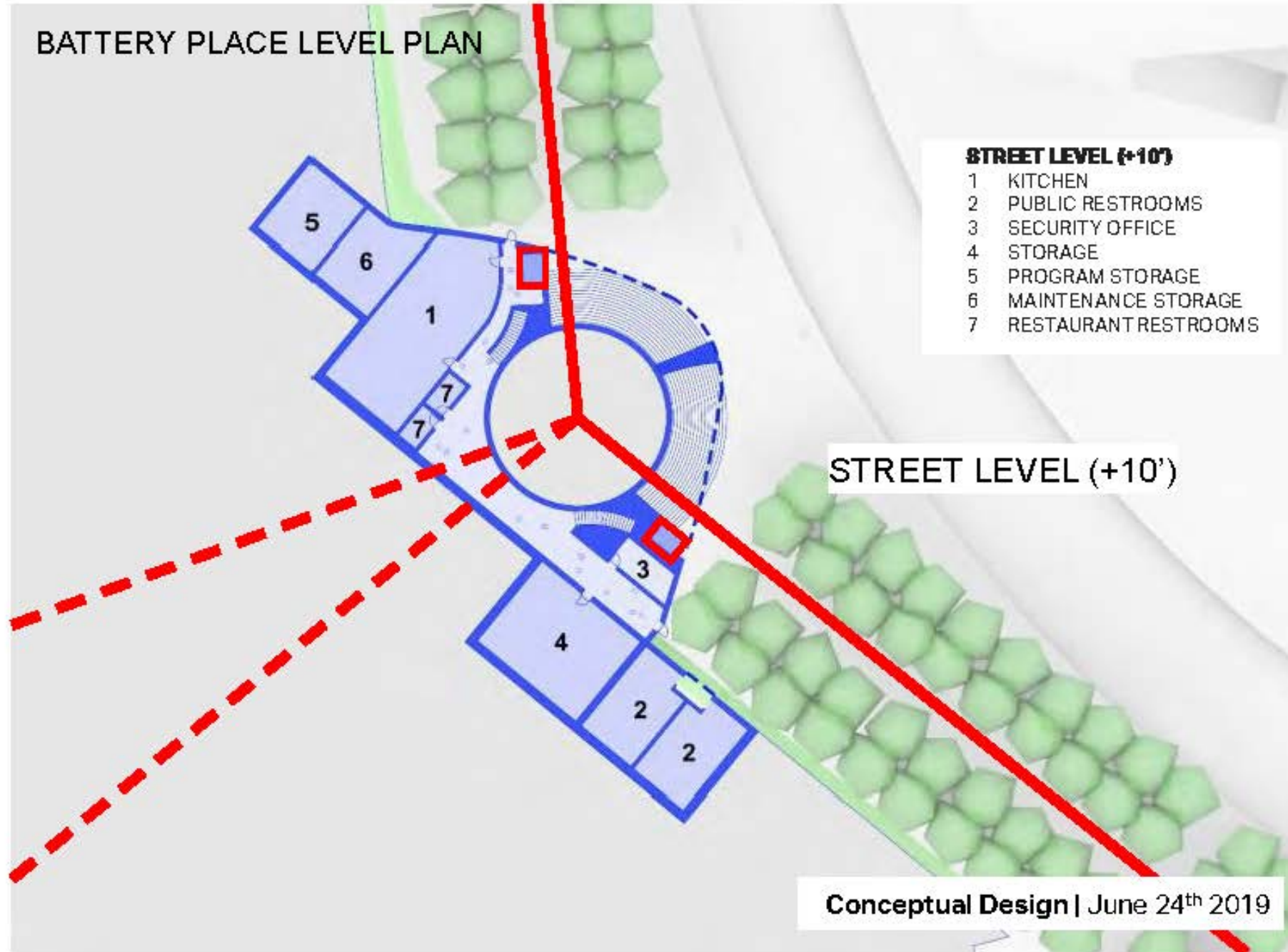
JUNE 2019 CONCEPT DESIGN

CONSIDERATIONS:

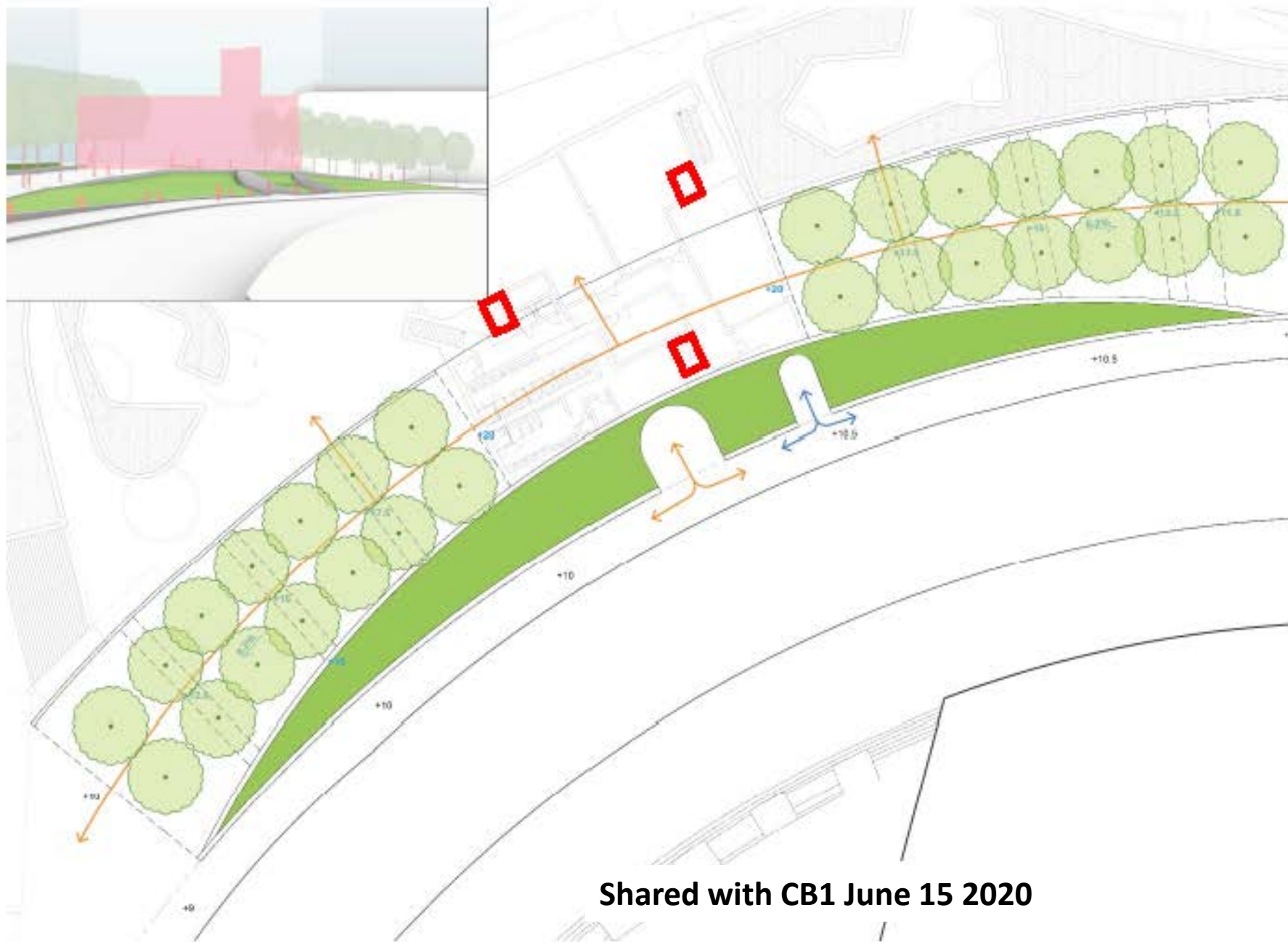
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FEEDBACK:

- Adjust for universal access
- Maintenance concerns with elevators
- Ramp preferred in addition to an elevator



RAMP ACCESS STUDIES



Shared with CB1 June 15 2020

CONSIDERATIONS

- Primary site arrival always considered as through allees
- Allee trees identified as at end of life
- Ramp integrated into new allees for universal access and to respect the original arrival sequence
- Separate elevators identified as required for public and BPCA operations
- Public elevator lobby located at street level adjacent to footpath and public toilets
- Safety concern at lobby afterhours and with interaction between public and BPCA carts
- Cost of maintaining 3 elevators

Added height and mass of elevator at street edge (total height including overrun 57')

RAMP ACCESS STUDIES

CONSIDERATIONS

- Concern with difficulty accessing public toilets at street from the park level during a large programming event (ie Swedish festival)
- Potential for stair and ramp access from centrally located point along Battery Place studied.
- Ultimately rejected due to lack of significant advantage over allee ramp and concern with overcrowding at street level.

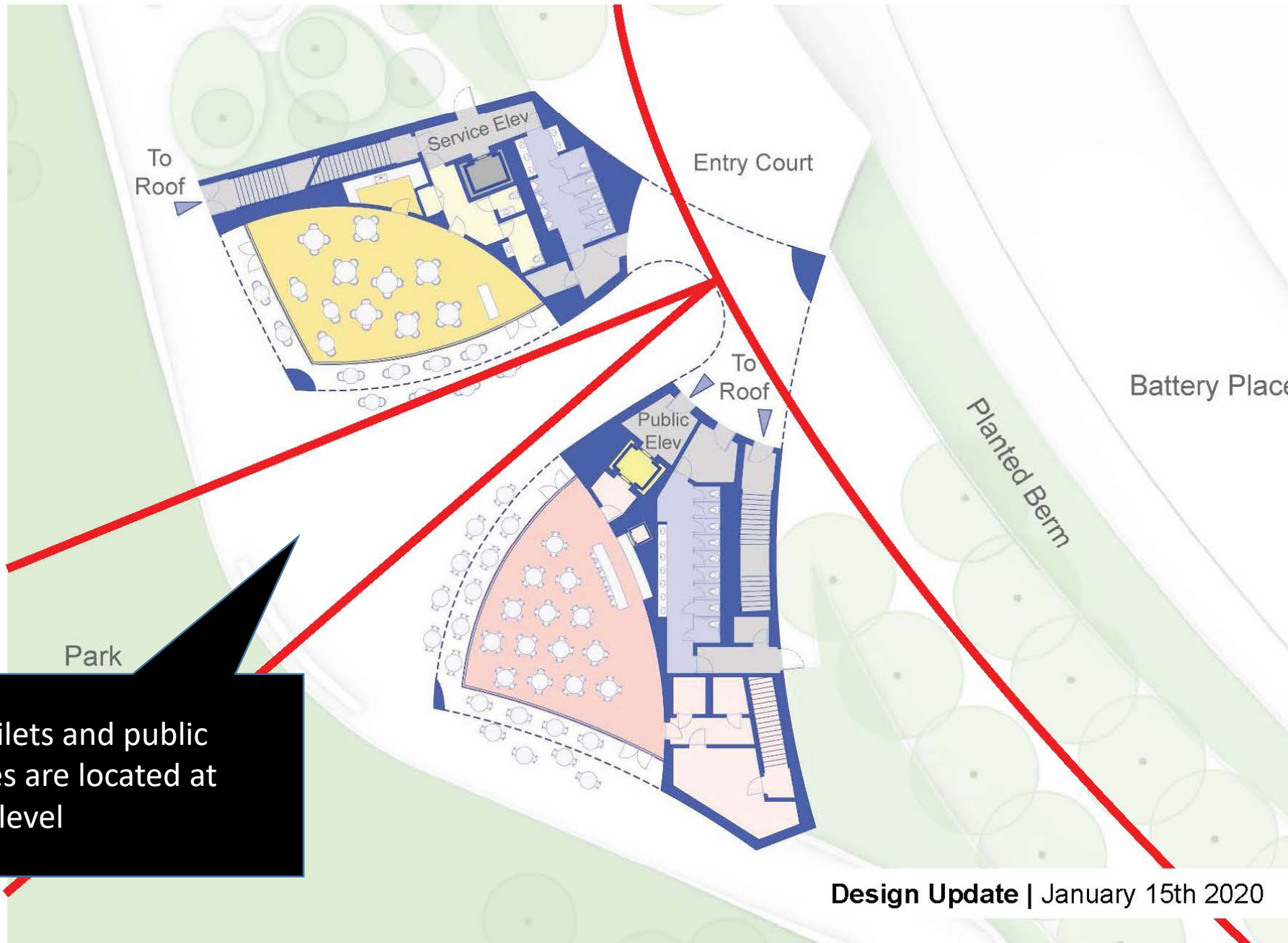


Shared with CB1 June 15 2020

DESIGN UPDATE | PUBLIC MEETING 4

CONSIDERATIONS

- All toilets and public spaces relocated to lawn level to service the public
- Only Back-Of-House program now at Battery Place Level
- Eliminated isolated elevator for safety reasons. Also eliminates added maintenance
- Reviewed Universal Access with Mayor's Office for People with Disabilities (MOPD)
- MOPD determined elevator is not required with ramped allees
- Complied with ADA in letter and spirit
- Section 103 Equivalent Facilitation.
- Section 206.3 accessible routes coincide with general circulation paths.



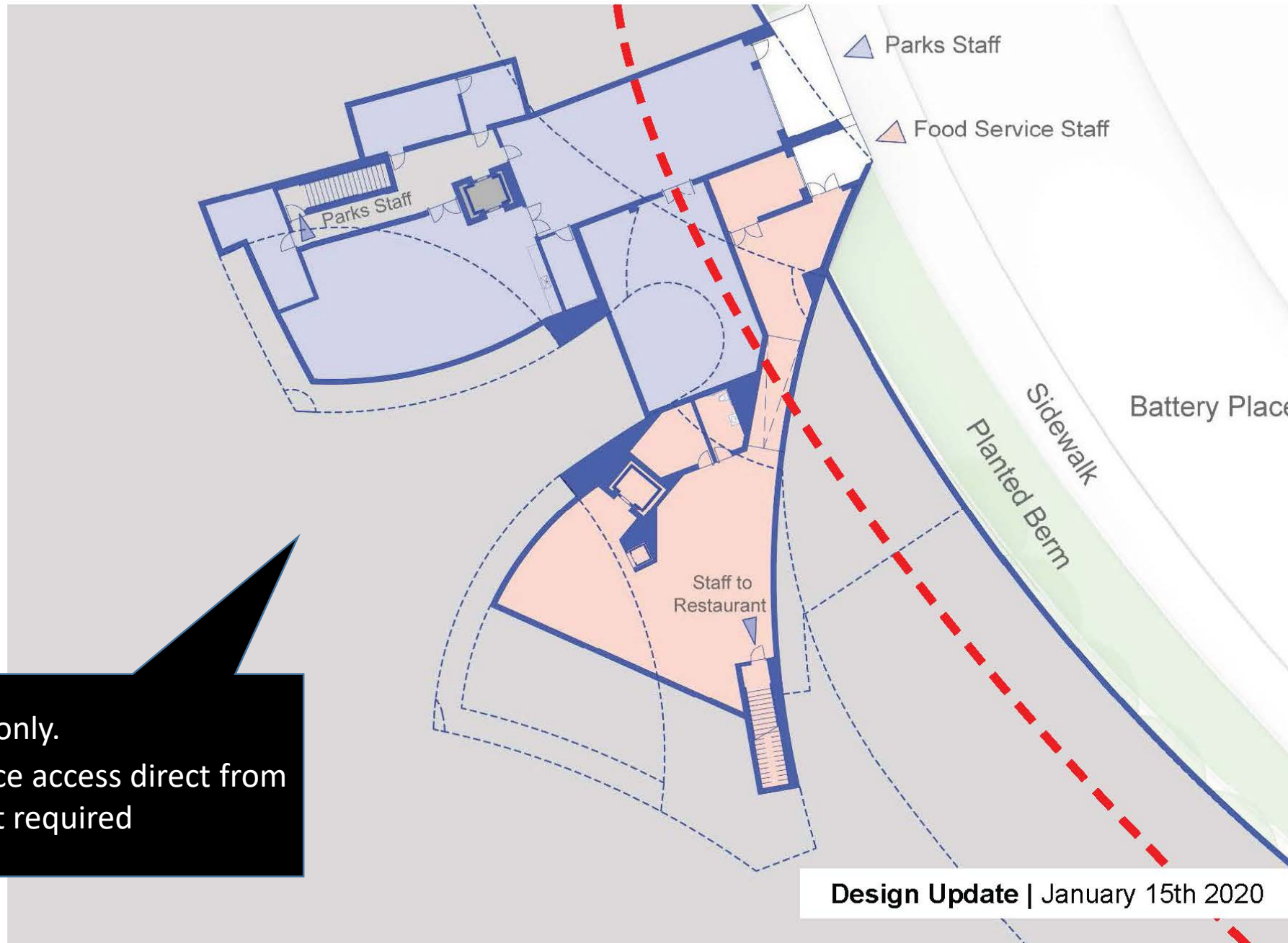
All toilets and public spaces are located at lawn level

Design Update | January 15th 2020

DESIGN UPDATE | PUBLIC MEETING 4

CONSIDERATIONS

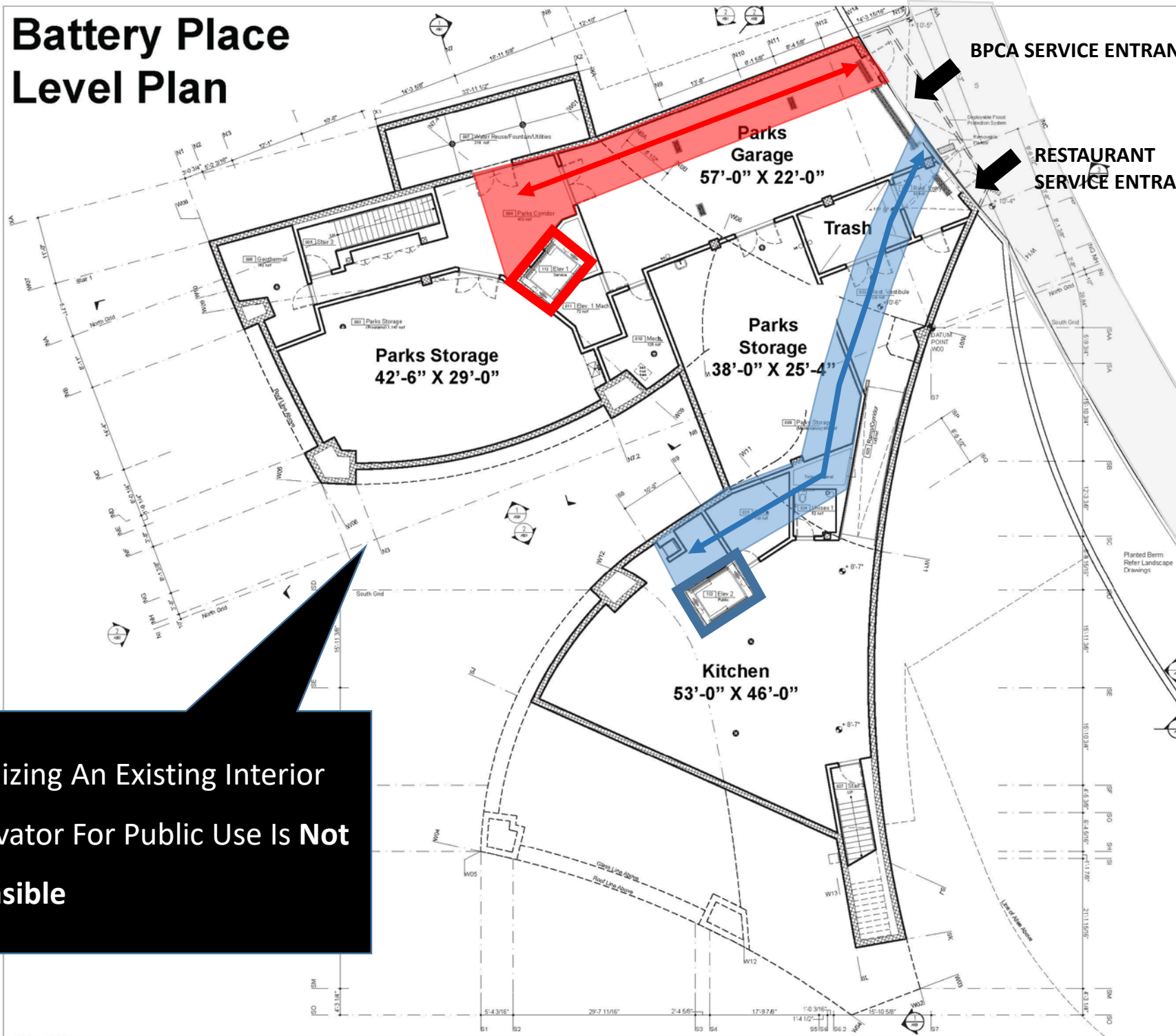
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BOH only.
Service access direct from street required

Design Update | January 15th 2020

Battery Place Level Plan



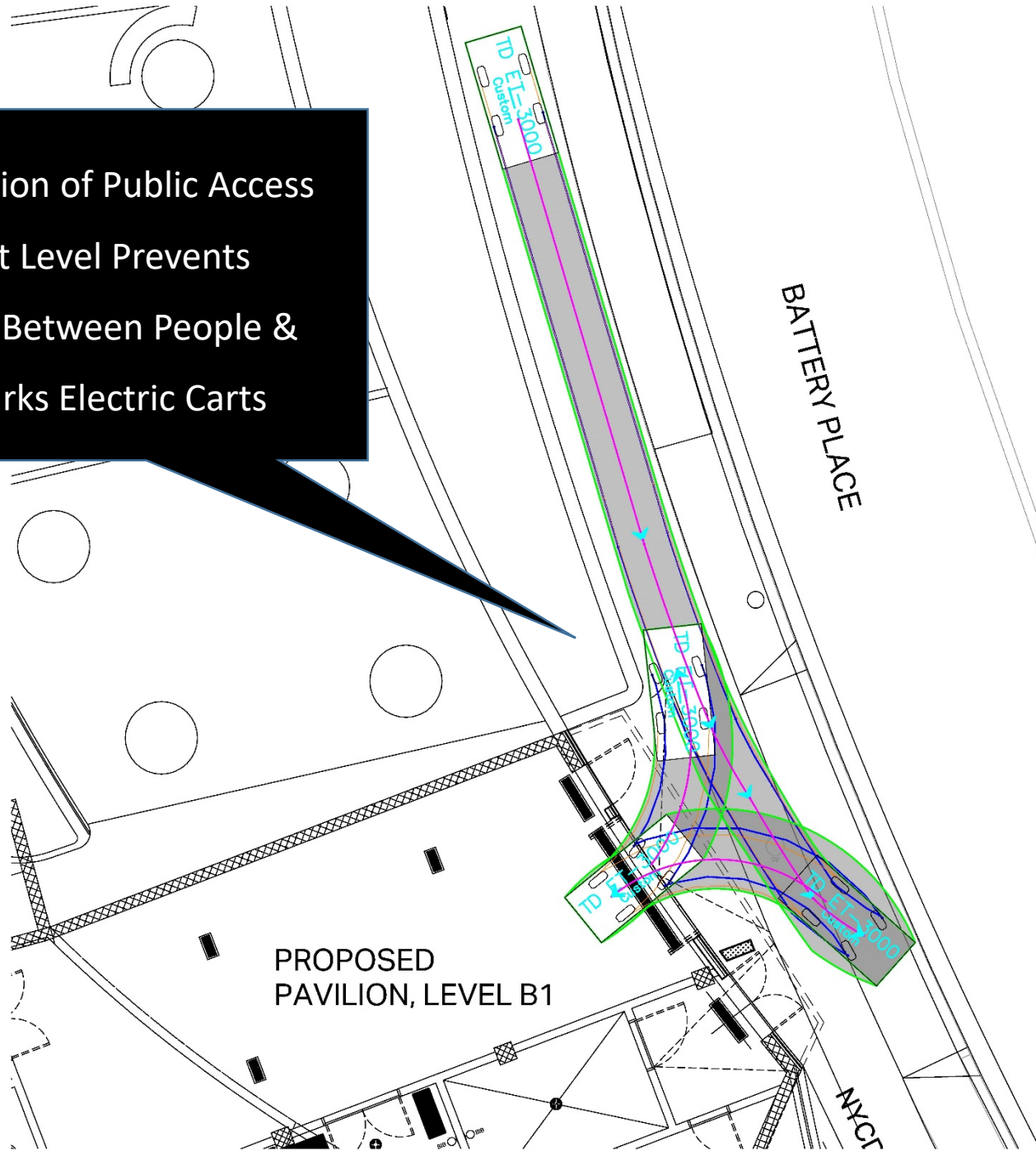
Utilizing An Existing Interior Elevator For Public Use Is Not Feasible

CONSIDERATIONS

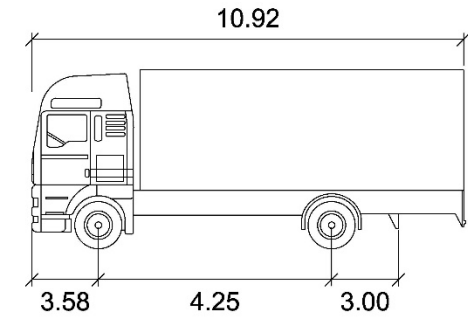
- Existing elevators located in areas not accessible to public.
- If including dedicated public access corridors, would introduce long travel distances (70+’) from street.
- Safety and security concerns in long public corridors
- Inconvenient and un-intuitive wayfinding.
- Likely no access after BPCA staff hours which wouldn’t accommodate late evening access.
- Large impacts to required program and square footage of BPCA and/or restaurant BOH areas.

**SOUTH BATTERY PARK RESILIENCY PROJECT
AUTOTURN MOVEMENTS THROUGH PROPOSED SITE**

Elimination of Public Access
At Street Level Prevents
Conflict Between People &
BPCA Parks Electric Carts



**ET-3000
MOVEMENT INTO B1
PAVILION GARAGE**

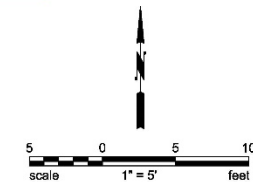


TD ET-3000

| | feet |
|-------------------|--------|
| Truck Width | : 4.83 |
| Truck Track | : 4.25 |
| Lock to Lock Time | : 6.0 |
| Steering Angle | : 20.6 |

LEGEND

- CENTERLINE OF VEHICLE PATH
- VEHICLE BODY
- FRONT TIRES
- REAR TIRES
- TRAVELED VEHICLE AREA



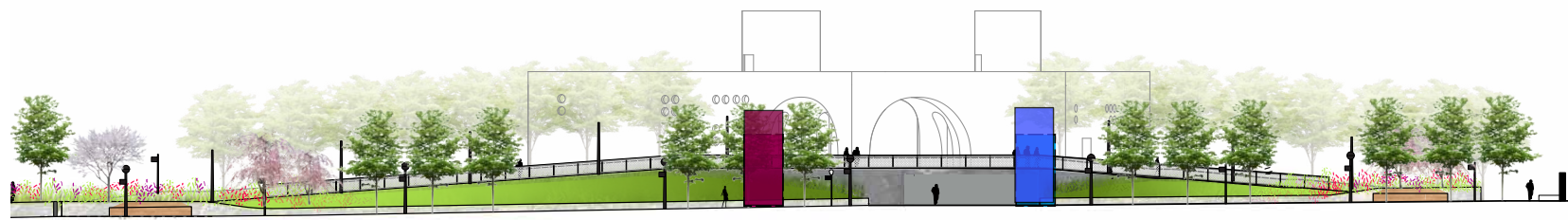
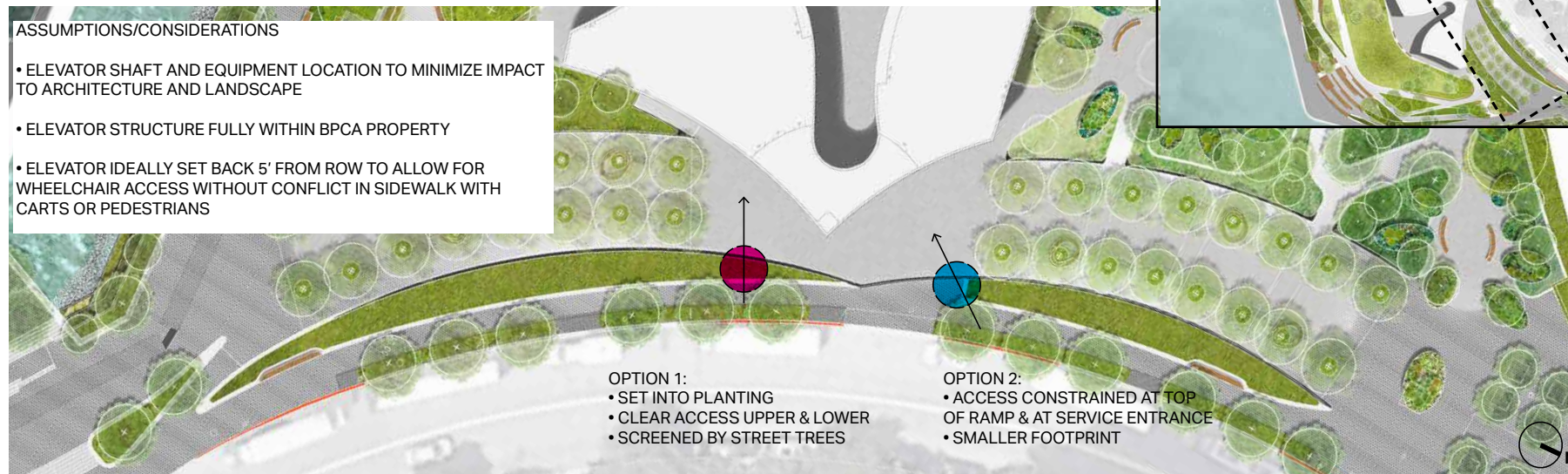
3/29/2021

INTERNAL COORDINATION **AECOM**

INTERNAL DESIGN STUDY | MARCH 2021

CONSIDERATIONS

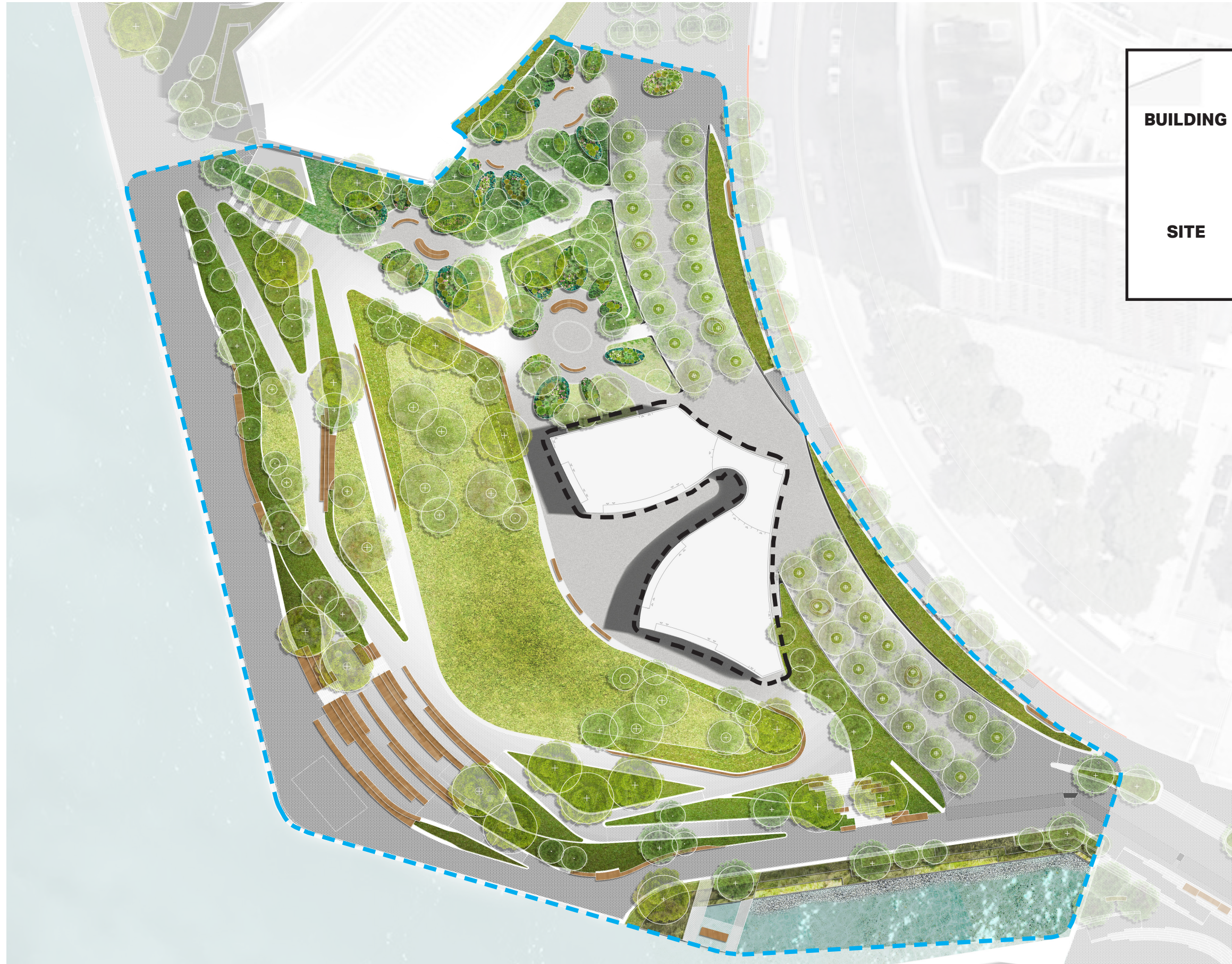
- Highly visible on Battery Place
- Undesirable massing and aesthetic impact
- Placement doesn't align with broader wayfinding strategies
- Circulation impact with BPCA electric carts at service entrance
- Additional project cost
- Redesign efforts and additional construction scope
- Increased operation and maintenance



Design Study | March 19th 2021

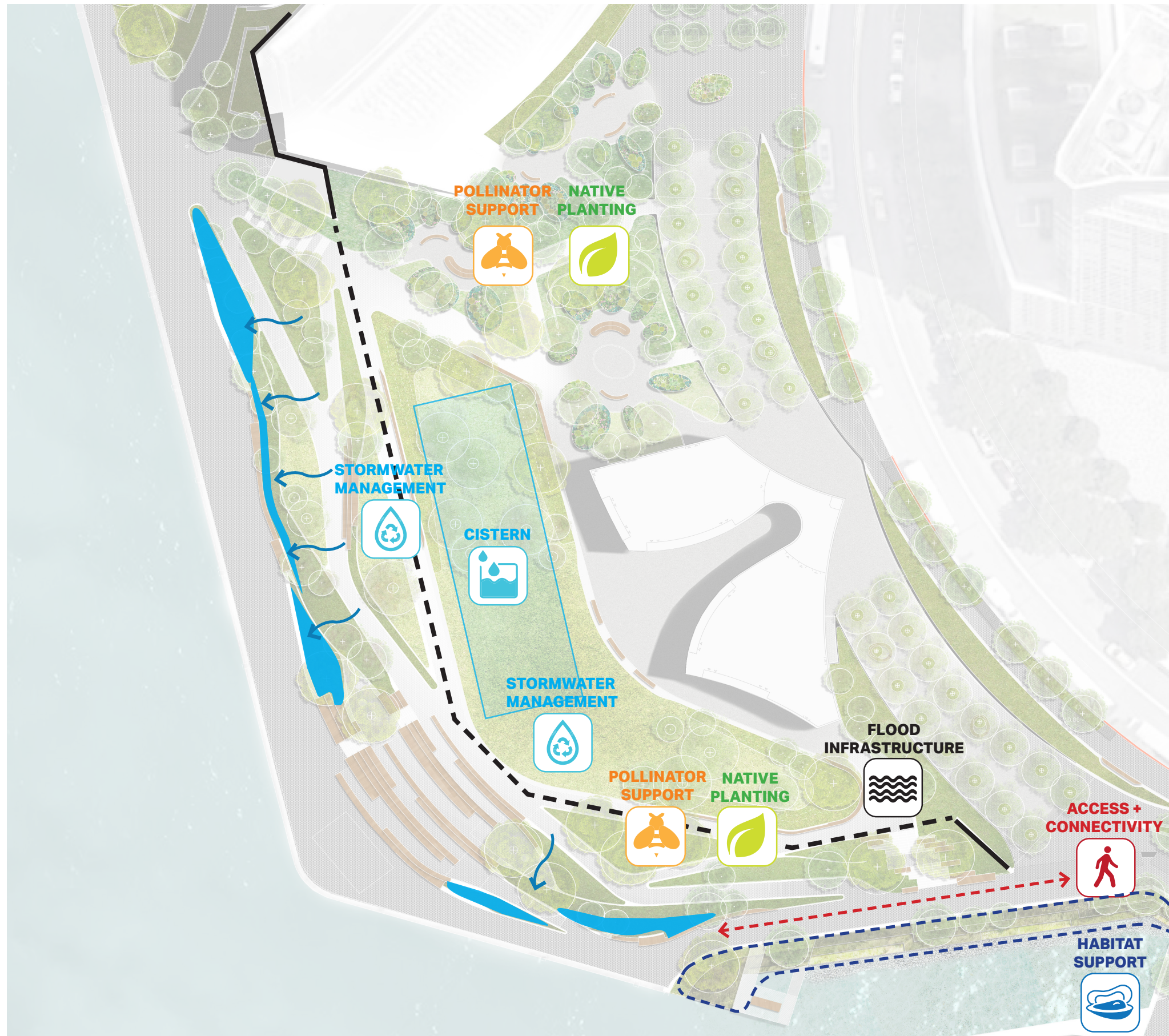
WAGNER PARK PAVILION SUSTAINABILITY UPDATE

SUSTAINABILITY | CERTIFICATIONS



| | | |
|-----------------|---|--|
| BUILDING |  | ZERO CARBON CERTIFICATION |
| SITE |  | WEDG Waterfront Edge Design Guidelines |

SUSTAINABILITY | MEASURES



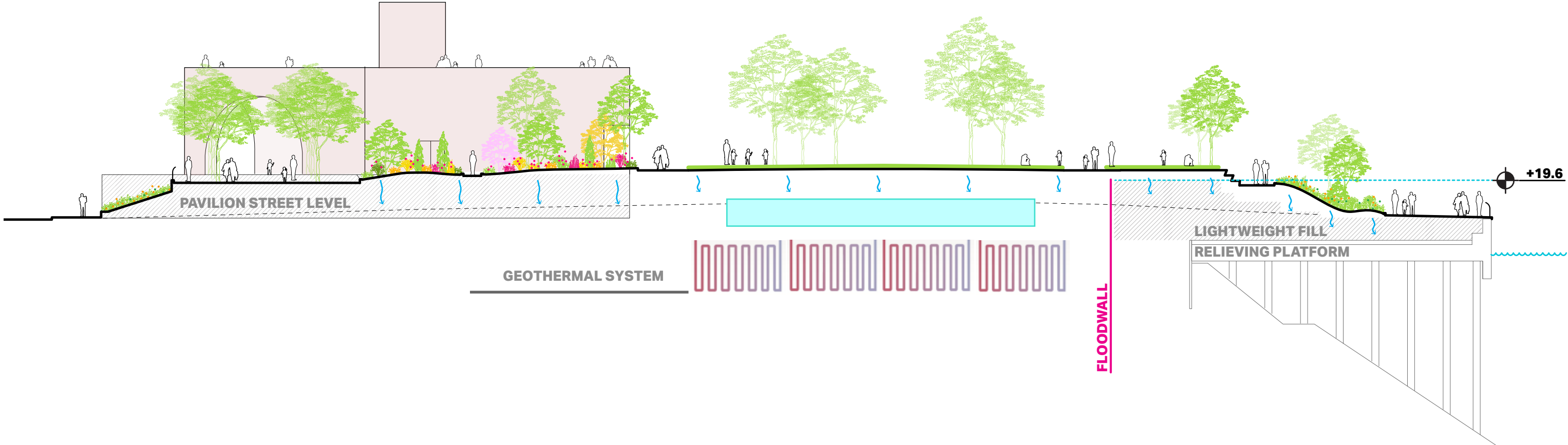
SITE STRATEGIES:

- Flood resilient, elevated park design
- Enhanced visual and physical access to water
- Increased waterfront pathway and greenway connectivity
- Stormwater management using infiltration and underground cistern
- Reduction of water consumption through subsurface irrigation at the lawn areas
- Upland riparian zone habitat and pollinator support
- Lowland and in-water habitat support at Pier A inlet
- 85% Native Planting
- Urban heat island mitigation - average pavement SRI above 29
- Environmentally-responsible construction
- Solar lighting for resilient energy sources
- Low carbon concrete
- Site salvage (plants and materials)
- Educational programming
- Community engagement + site assessments

BUILDING STRATEGIES:

- Bird collision deterrence
- Geothermal
- Rooftop solar thermal panels
- Green roof
- Triple pane, low e-glazing
- High reflectance pavement
- Low carbon concrete and interior materials
- Healthy and low-emitting materials
- Rainwater collection + reuse
- Efficient potable water fixtures
- Energy efficient lighting
- Highly insulated building envelope
- Energy recovery ventilation
- Ground source heat pump technology significantly increases building energy efficiency
- Energy efficiency building systems include energy recovery ventilation, demand control ventilation, and variable speed supply fans
- All-electric building, including restaurant and kitchen equipment

SUSTAINABILITY | WAGNER SECTION



ILFI ZERO CARBON CERTIFICATION | REQUIREMENTS

FIRST PERFORMANCE-BASED CARBON STANDARD ADDRESSING BOTH EMBODIED AND OPERATIONAL CARBON.



OPERATIONAL CARBON:

- Net zero energy including onsite & offsite measures
- No combustion
- Achieve **25% EUI REDUCTION** from ASHRAE equivalent building
- Offset all energy use with renewable energy

CURRENT DESIGN:

- Exceeding target, anticipating **38% EUI REDUCTION.**

EMBODIED CARBON:

- Embodied carbon of primary foundation, structure and enclosure must be **reduced by 10%**
- Project total embodied carbon should be <500 kg CO2e/m2
- Disclose and offset the remainder of embodied carbon

CURRENT DESIGN:

- Exceeding target, anticipating **37% REDUCTION.**

Table 1. Applicable Building Materials

| | | | | |
|-------------------------------|--|------------------------------------|--|---|
| EMBODIED CARBON OFFSET | 10% REDUCTION | PRIMARY MATERIAL ASSEMBLIES | Foundation | Footings Retaining Walls |
| | | | Structure | Framing Reinforcement Slabs + Decking |
| | | | Enclosure | Cladding Fenestration Insulation Roofing |
| | INTERIOR MATERIAL ASSEMBLIES | Finishes | Ceilings Floors Walls + Partitions | |
| | | Partitions | Fenestration Framing Insulation | |
| | ADDITIONAL ASSEMBLIES (OPTIONAL TO INCLUDE) | Interior Furnishings | Equipment Fixtures Furniture | |
| | | Building Systems | Electrical Mechanical Plumbing + Fire Protection | |
| | | Site Work | Excavation Exterior Paving Shoring + Formwork | |

ILFI ZERO CARBON CERTIFICATION | LIFE CYCLE ASSESSMENT

EMBODIED CARBON:

THE SUM OF ALL GREENHOUSE GAS EMISSIONS RESULTING FROM THE MINING, HARVESTING, PROCESSING, MANUFACTURING, TRANSPORTATION, AND INSTALLATION OF BUILDING MATERIALS.

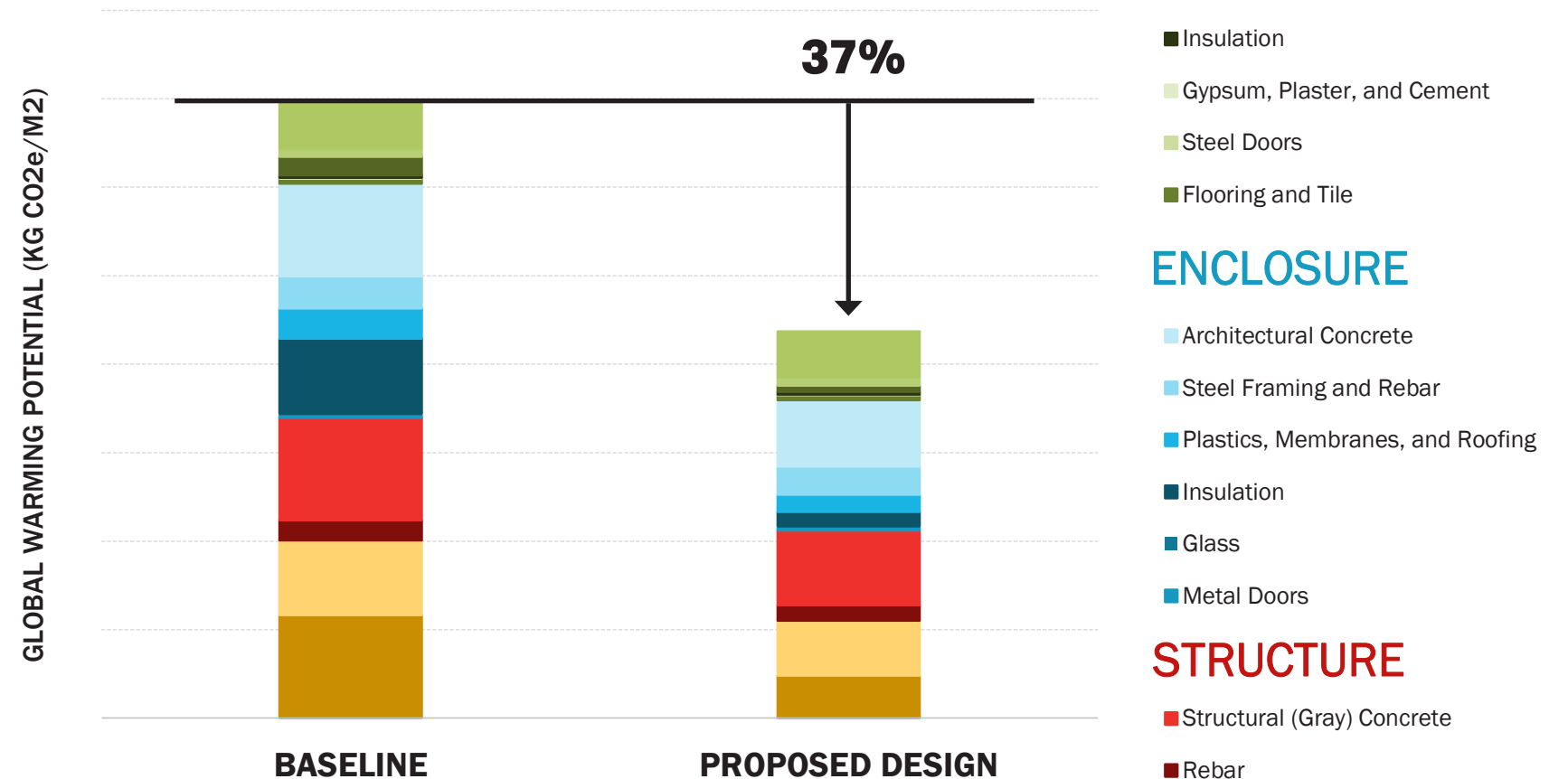
- The project is completing a **Whole Building Life Cycle Assessment** to quantify the embodied carbon associated with the building's materials and construction
- Currently targeting a **37% REDUCTION** in embodied carbon of building materials
- The remainder of embodied carbon will be offset.

KEY STRATEGIES:

- Cement replacement in concrete applications
- Exploration of low carbon concrete technologies
- High recycled content in structural steel and rebar
- Low impact insulation substitution
- Low carbon interior finishes

GWP/M2 REDUCTION COMPARISON

SOUTH BATTERY PARK RESILIENCY



INTERIORS

- CMUs, Topping Slab, Cement Board
- Steel Framing
- Paints and Finishes
- Insulation
- Gypsum, Plaster, and Cement
- Steel Doors
- Flooring and Tile

ENCLOSURE

- Architectural Concrete
- Steel Framing and Rebar
- Plastics, Membranes, and Roofing
- Insulation
- Glass
- Metal Doors

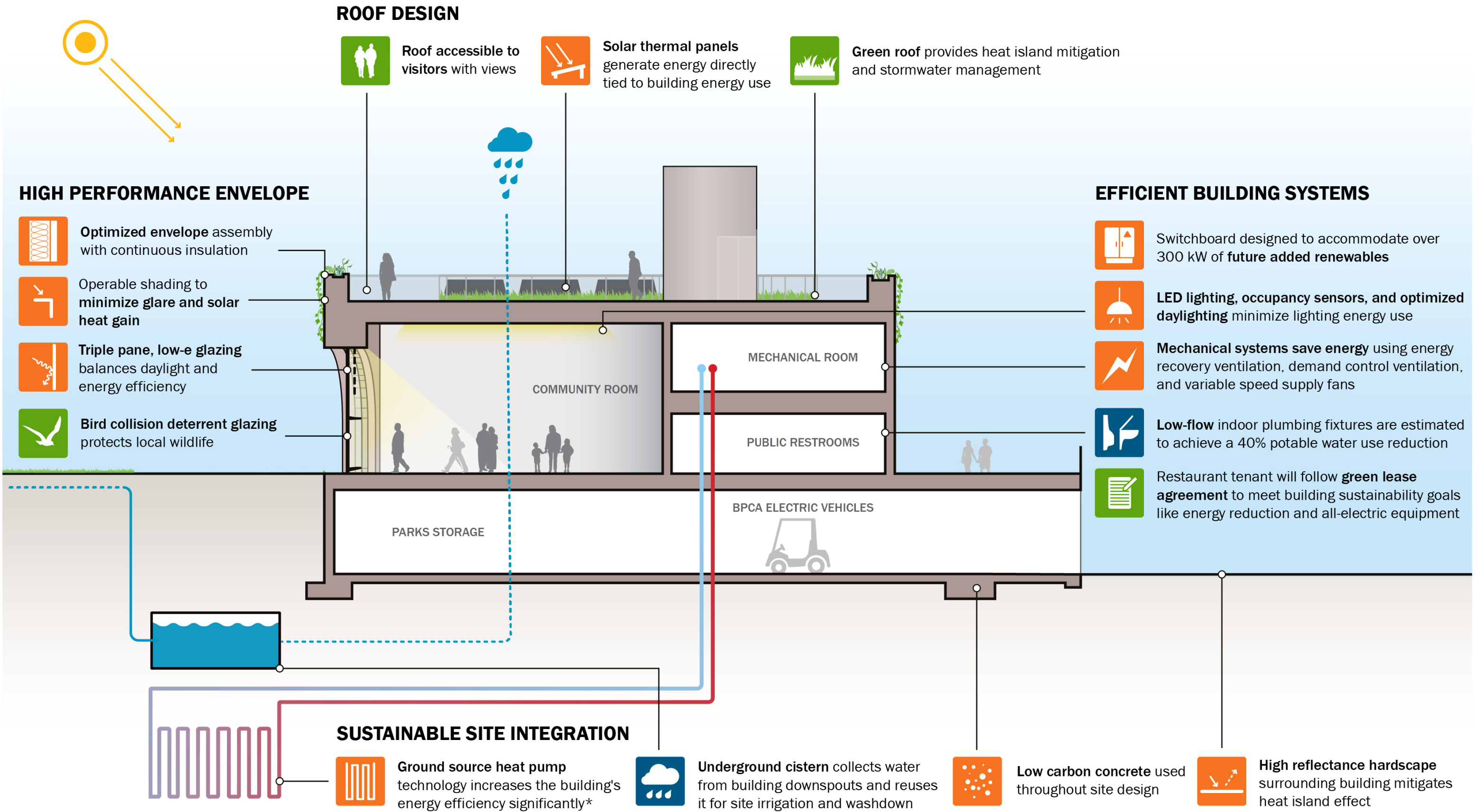
STRUCTURE

- Structural (Gray) Concrete
- Rebar

FOUNDATION

- Foundational (Gray) Concrete
- Rebar and Piles

SUSTAINABILITY | PAVILION



* Geothermal location is diagrammatic, and will be located under Wagner Park site

APPENDIX

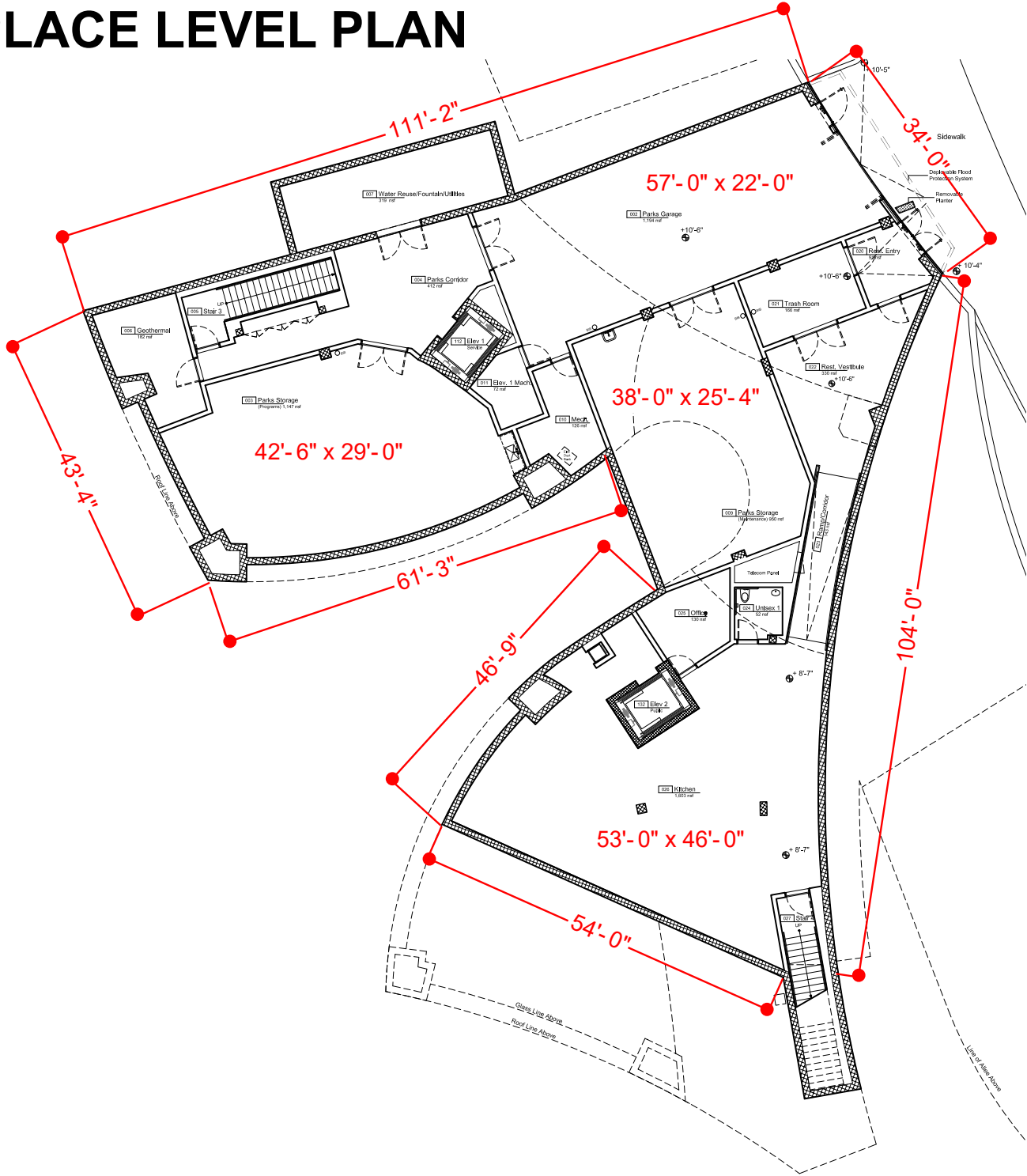


NEW YORK
STATE OF
OPPORTUNITY.

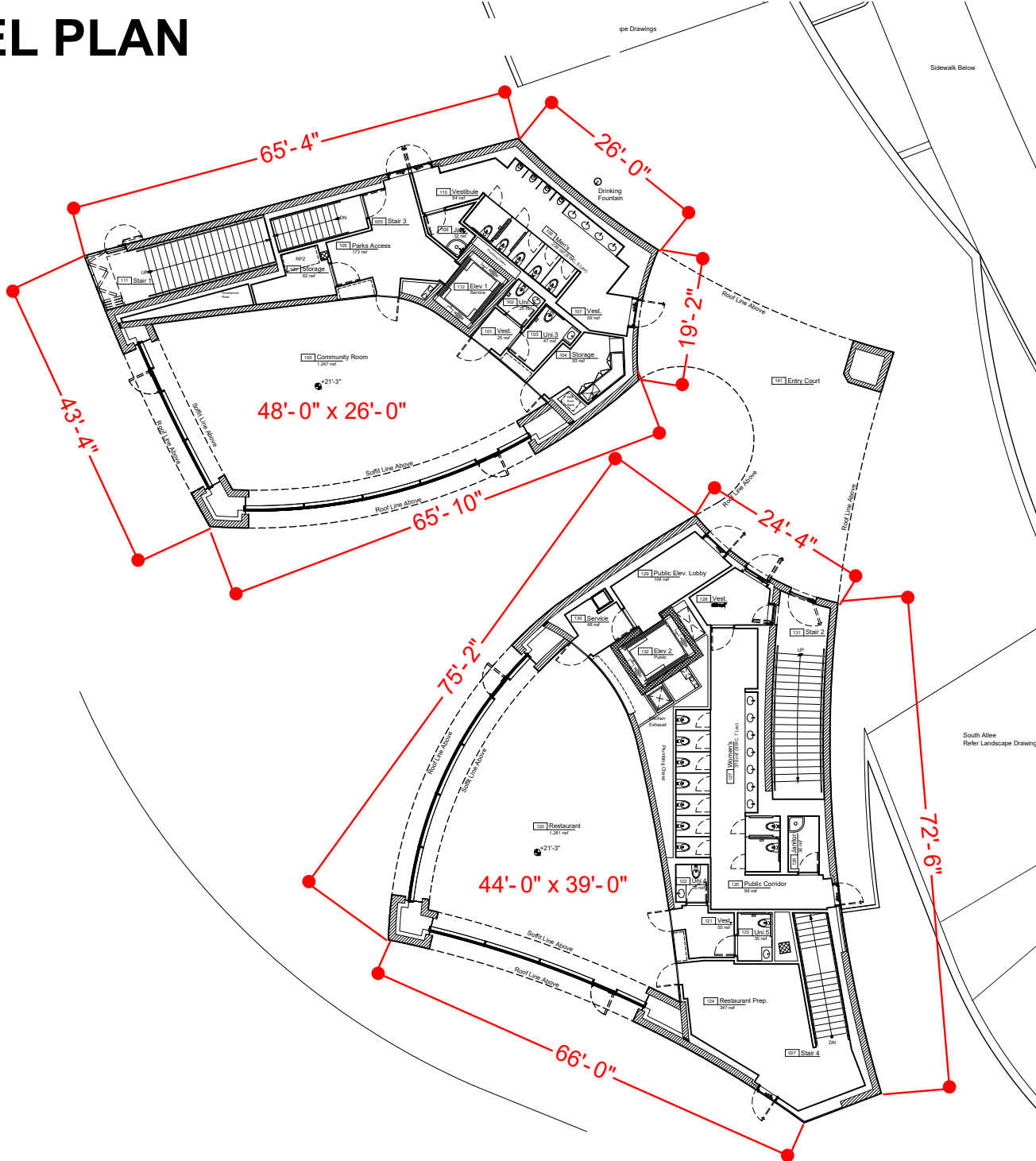
Battery Park
City Authority

AECOM

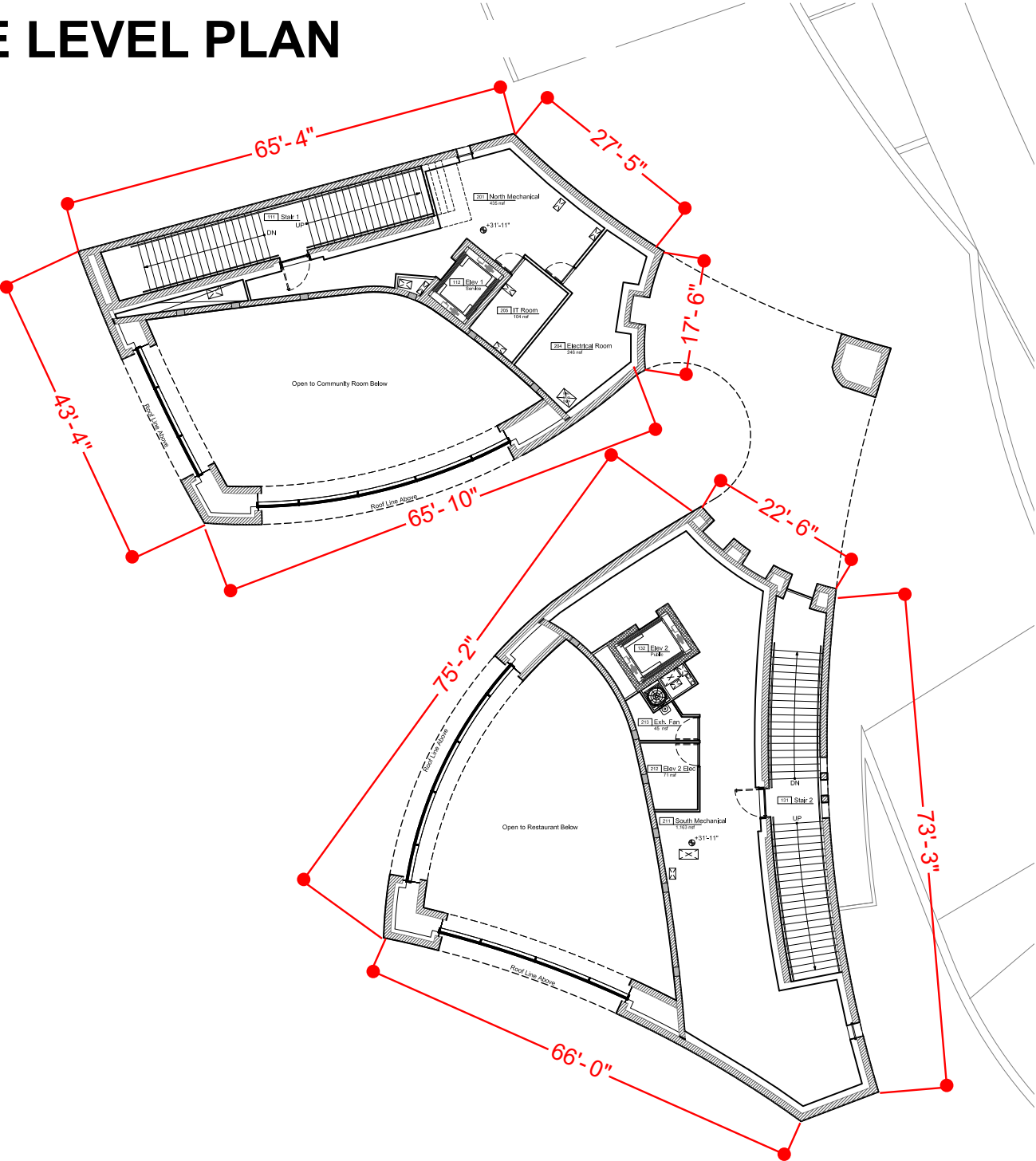
BATTERY PLACE LEVEL PLAN



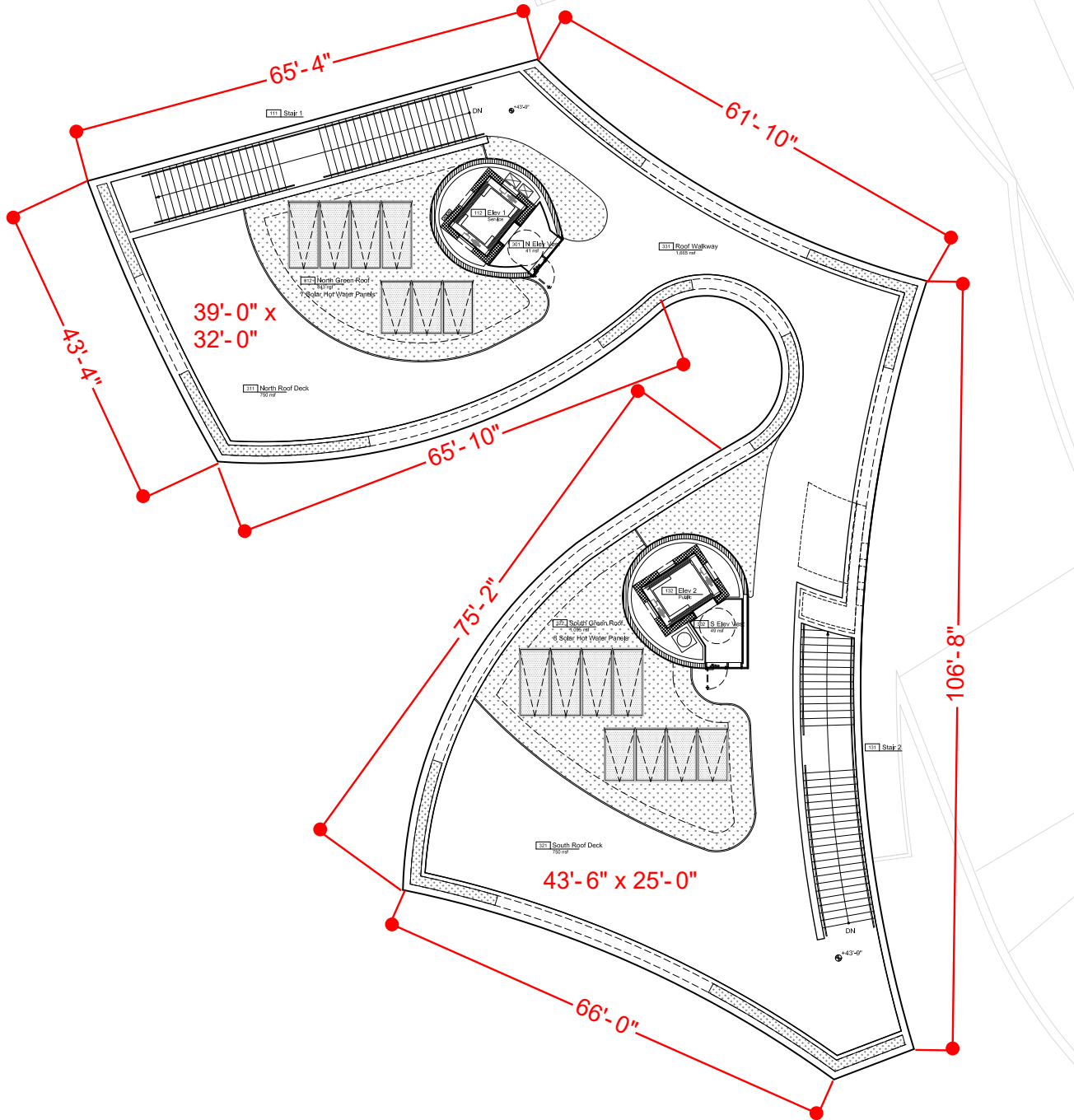
PARK LEVEL PLAN



MEZZANINE LEVEL PLAN



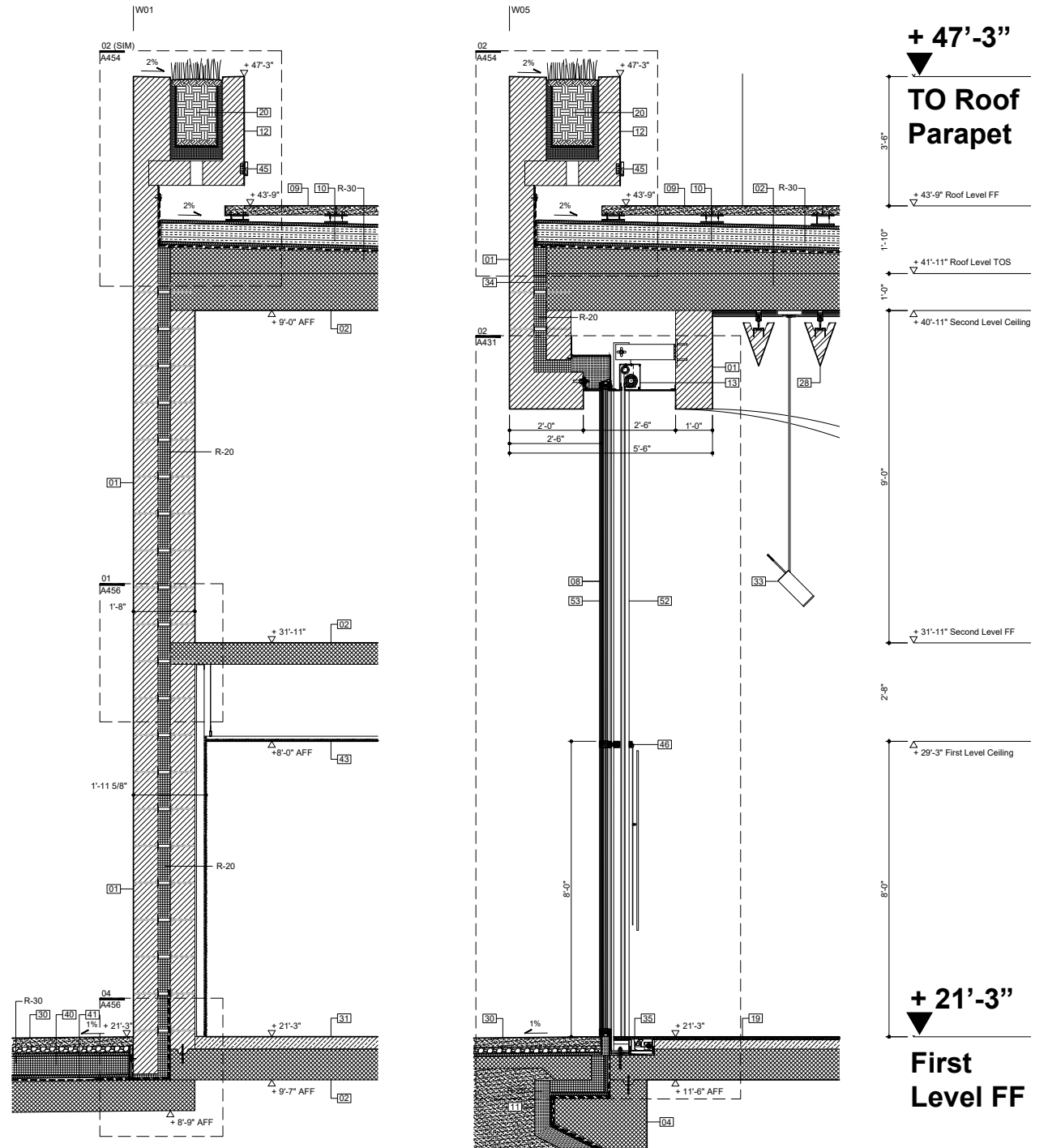
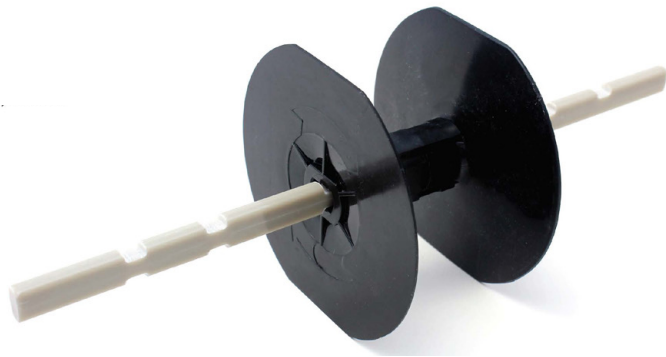
ROOF LEVEL PLAN

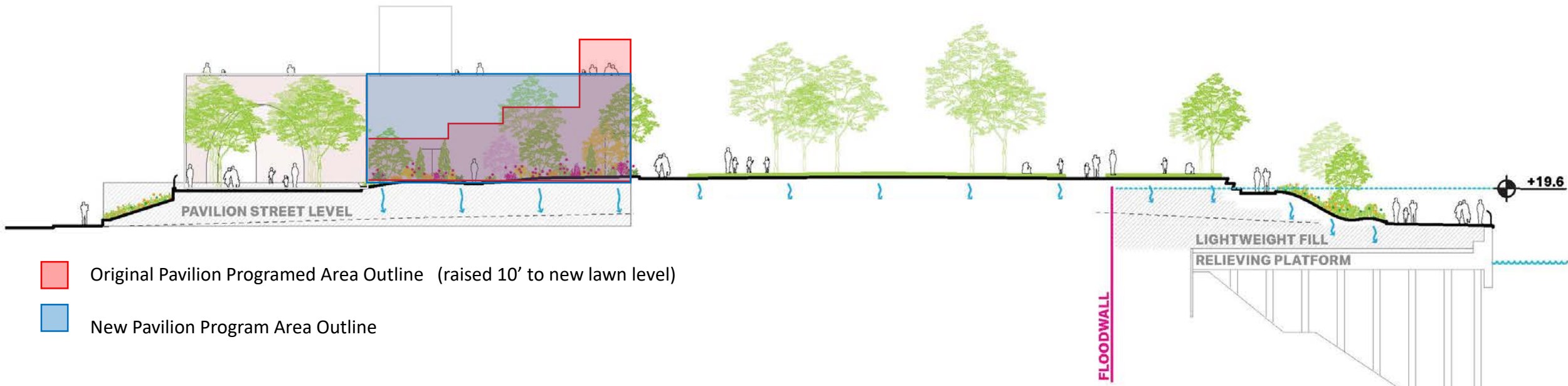


CONSTRUCTION DETAILS

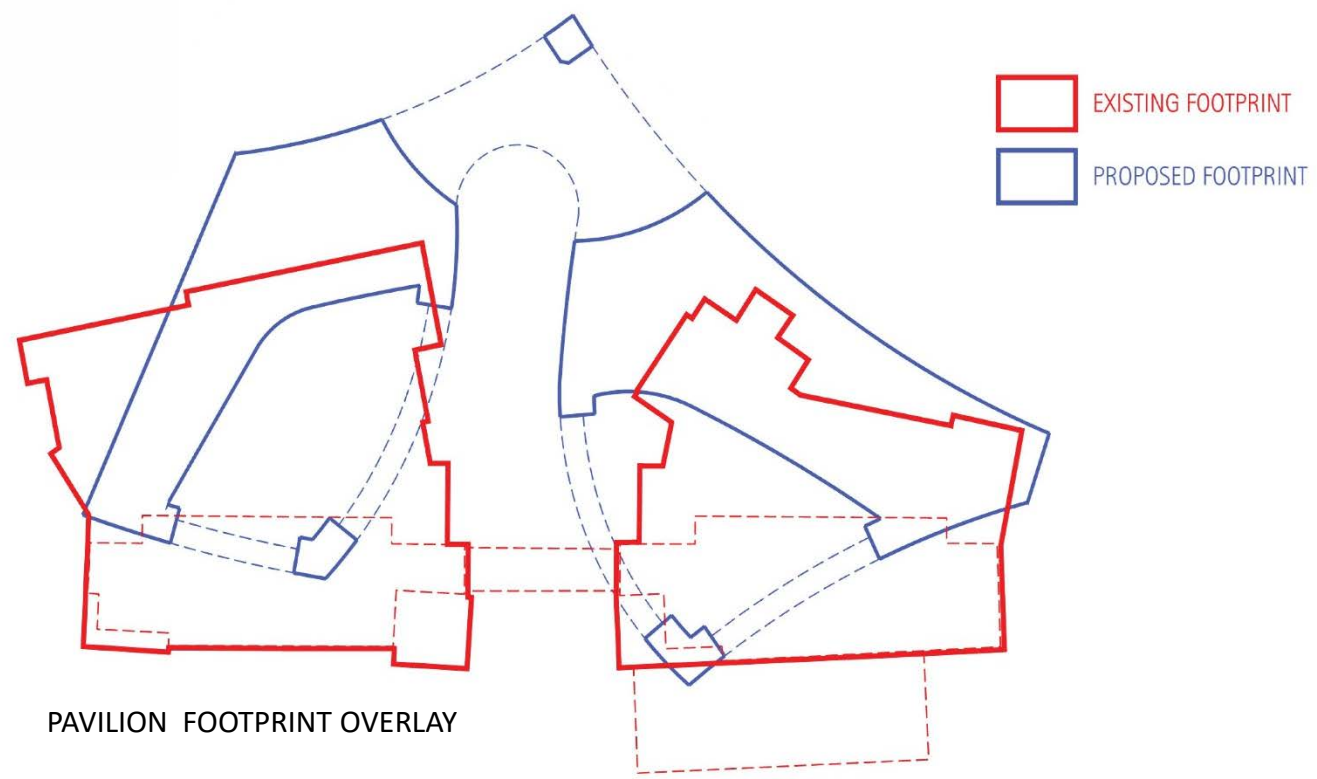


Thermomass System CIP





- Original Pavilion Programmed Area Outline (raised 10' to new lawn level)
- New Pavilion Program Area Outline



PAVILION FOOTPRINT OVERLAY

| | Existing | New |
|-----------------------------|----------|----------|
| Park Level Footprint | 8,090 sf | 7,990 sf |

Street Level Program

| | | |
|----------------|---------|---------|
| BPCA BOH | 770 sf | 3703 sf |
| Restaurant BOH | 1240 sf | 2424 sf |

Park Level Program

| | | | |
|----------------------|---------|---------|---------------------------|
| Public Toilets | 1060 sf | 963 sf | |
| Elevator Lobbies | 95 sf | 152 sf | <i>Elevator lobbies</i> |
| Stairs and Elevators | 4170 sf | 816 sf | <i>Total Roof Level</i> |
| Community Room | 0 sf | 1247 sf | |
| Restaurant | 775 sf | 1744 sf | <i>Indoor Dining Area</i> |
| BPCA BOH | 0 sf | 235 sf | |

Mezzanine

| | |
|------|---------|
| 0 sf | 3471 sf |
|------|---------|

Roof Level

| | | |
|------------------|---------|---------|
| Walkable Terrace | 2625 sf | 3428 sf |
| Green Roof | 0sf | 1833 sf |

| | | | |
|--------------|----------------|------------------|----------------------------|
| TOTAL | 5415 sf | 19,204 sf | <i>Total Interior Area</i> |
|--------------|----------------|------------------|----------------------------|

WEDG CERTIFICATION | KEY STRATEGIES

ENHANCING PUBLIC BENEFIT OF WATERFRONT DEVELOPMENTS THROUGH A FOCUS ON RESILIENCE, ECOLOGY, AND ACCESS.

KEY STRATEGIES:

Site Assessment & Planning

- MULTI-DISCIPLINARY DESIGN TEAM
- SITE-WIDE VULNERABILITY AND ECOLOGICAL CONTEXT ASSESSMENTS
- EQUITABLE COMMUNITY ENGAGEMENT

Responsible Siting & Coastal Risk Reduction

- FLOOD-RESILIENT DESIGN ELEMENTS
- RESPONSIBLE SITING OF DESIGN STRUCTURES
- IMPROVED SENSORY CONNECTIONS TO WATER

Community Access & Connections

- QUALITY PUBLIC ACCESS AREAS
- DIVERSE PROGRAMMING AND EDUCATIONAL FEATURES
- INCREASED WATERFRONT PATHWAY AND GREENWAY CONNECTIVITY

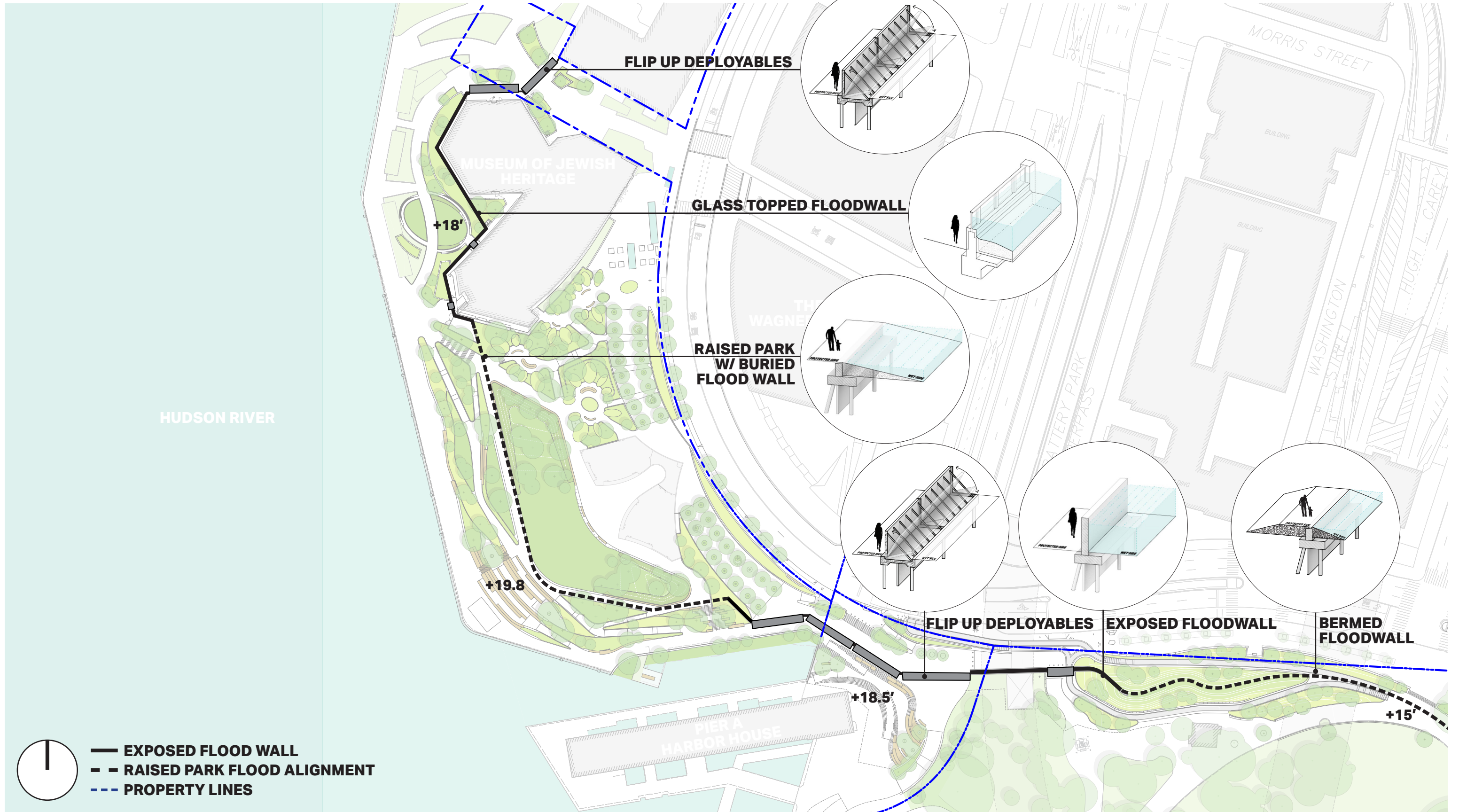
Edge Resilience

- WATERFRONT EDGE SOFTENING
- NATURAL SHORELINE AT PIER A INLET

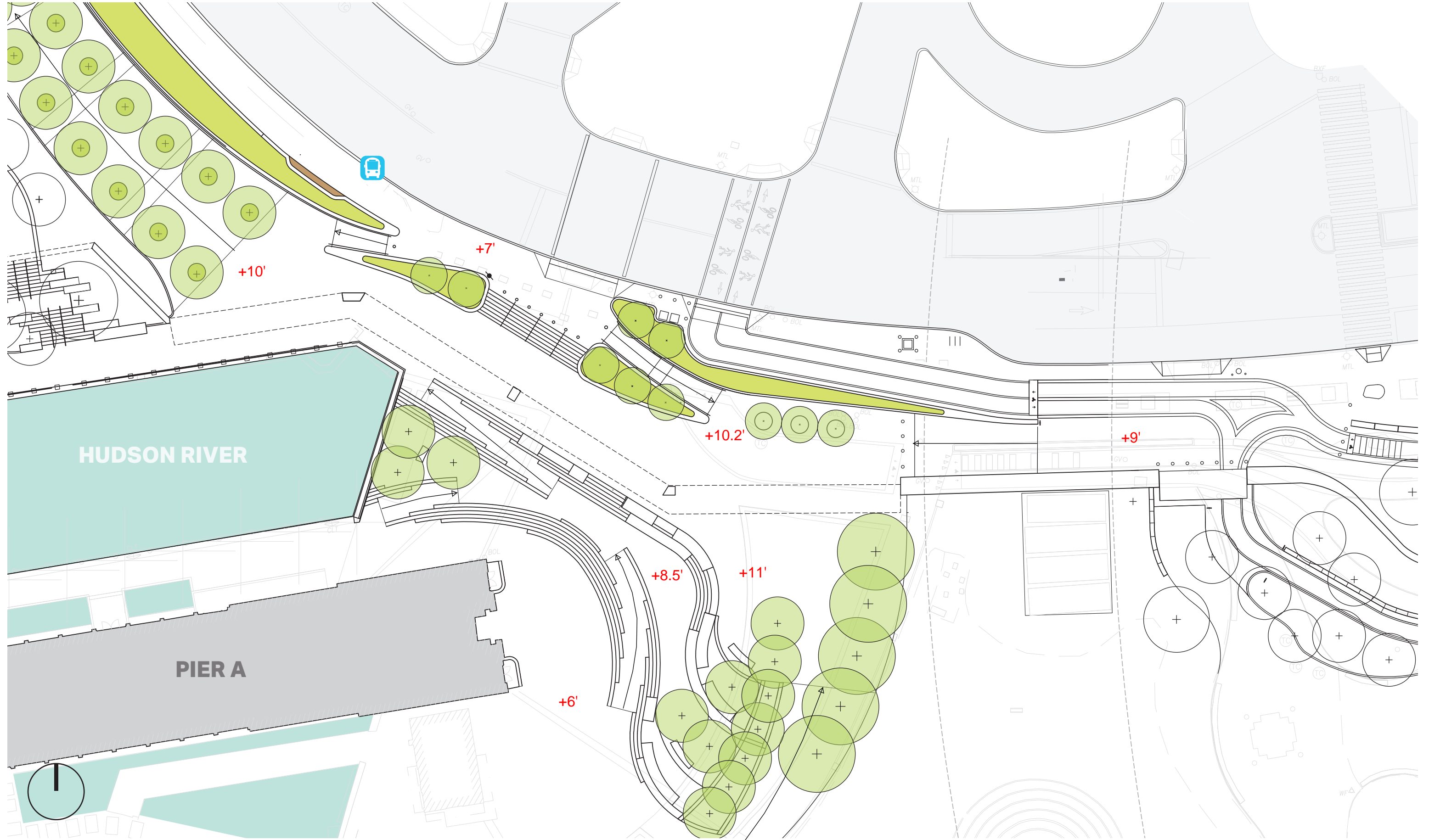
Natural Resources

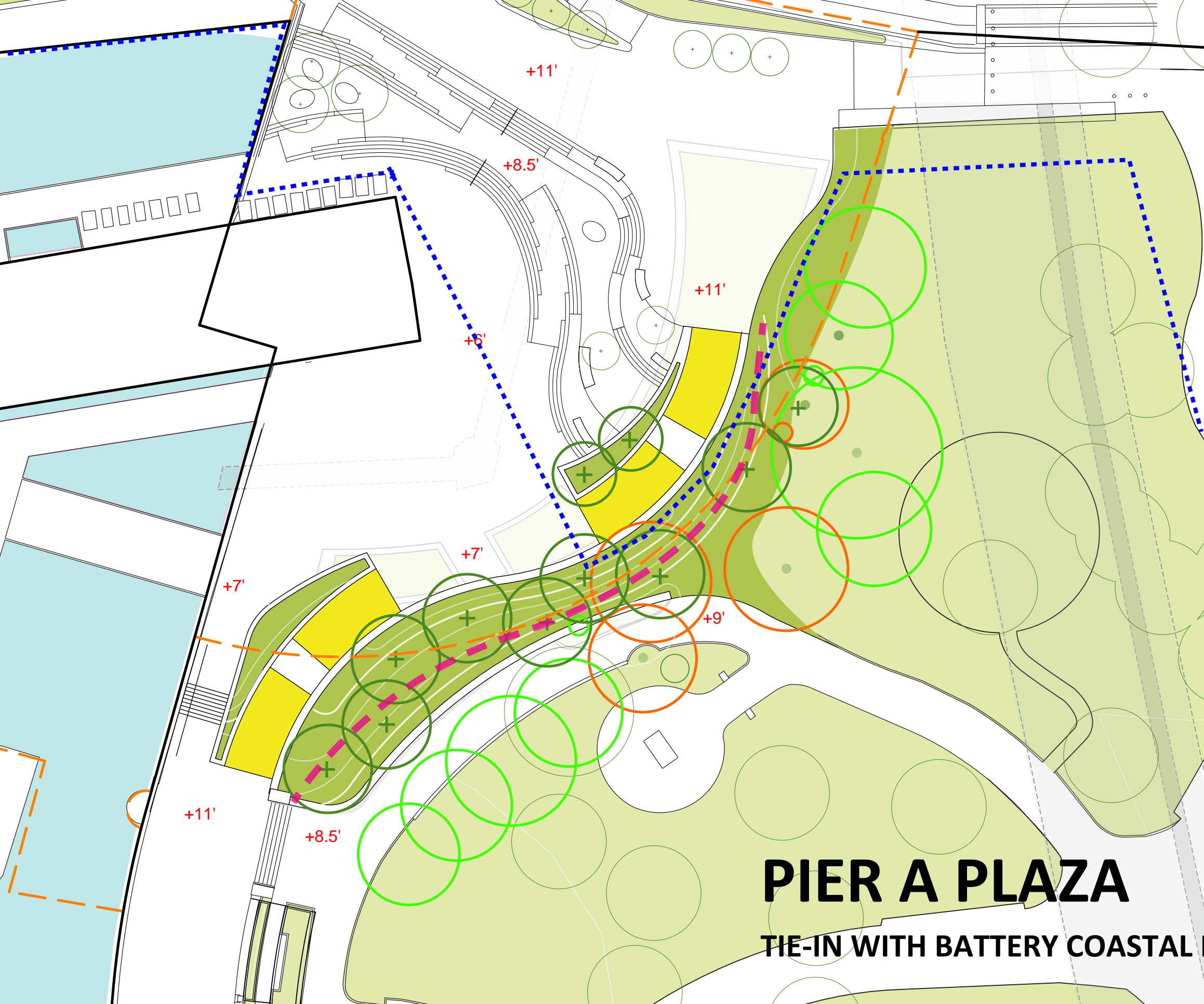
- SUSTAINABLE SITE FILL AND SOIL MANAGEMENT
- ENVIRONMENTALLY-RESPONSIBLE CONSTRUCTION PRACTICES
- SIGNIFICANT STORMWATER MANAGEMENT IN QUANTITY AND QUALITY
- REDUCED WATER USAGE
- URBAN HEAT ISLAND MITIGATION

THE SITE | FLOOD RISK MEASURES + DFE



PIER A PLAZA





LEGEND

- - - PROPERTY LINE
- EXISTING TREE IN <82% CONDITION
- EXISTING TREE IN >82% CONDITION
- - - ALIGNMENT OF +11
- + PROPOSED TREE
- - - SBPCR PROJECT BOUNDARY

PIER A PLAZA

TIE-IN WITH BATTERY COASTAL RESILIENCY PROJECT