

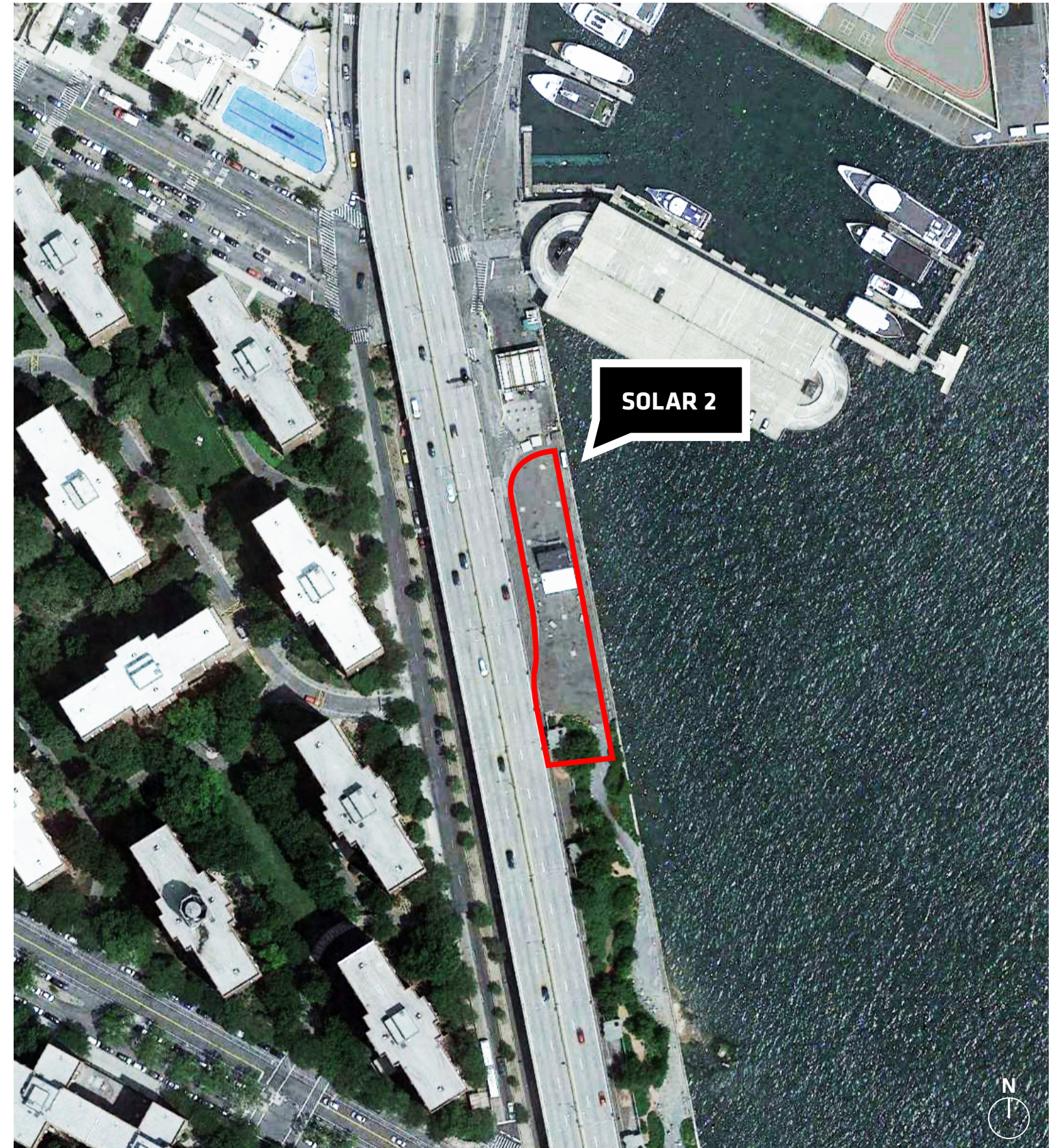
# SOLAR 2

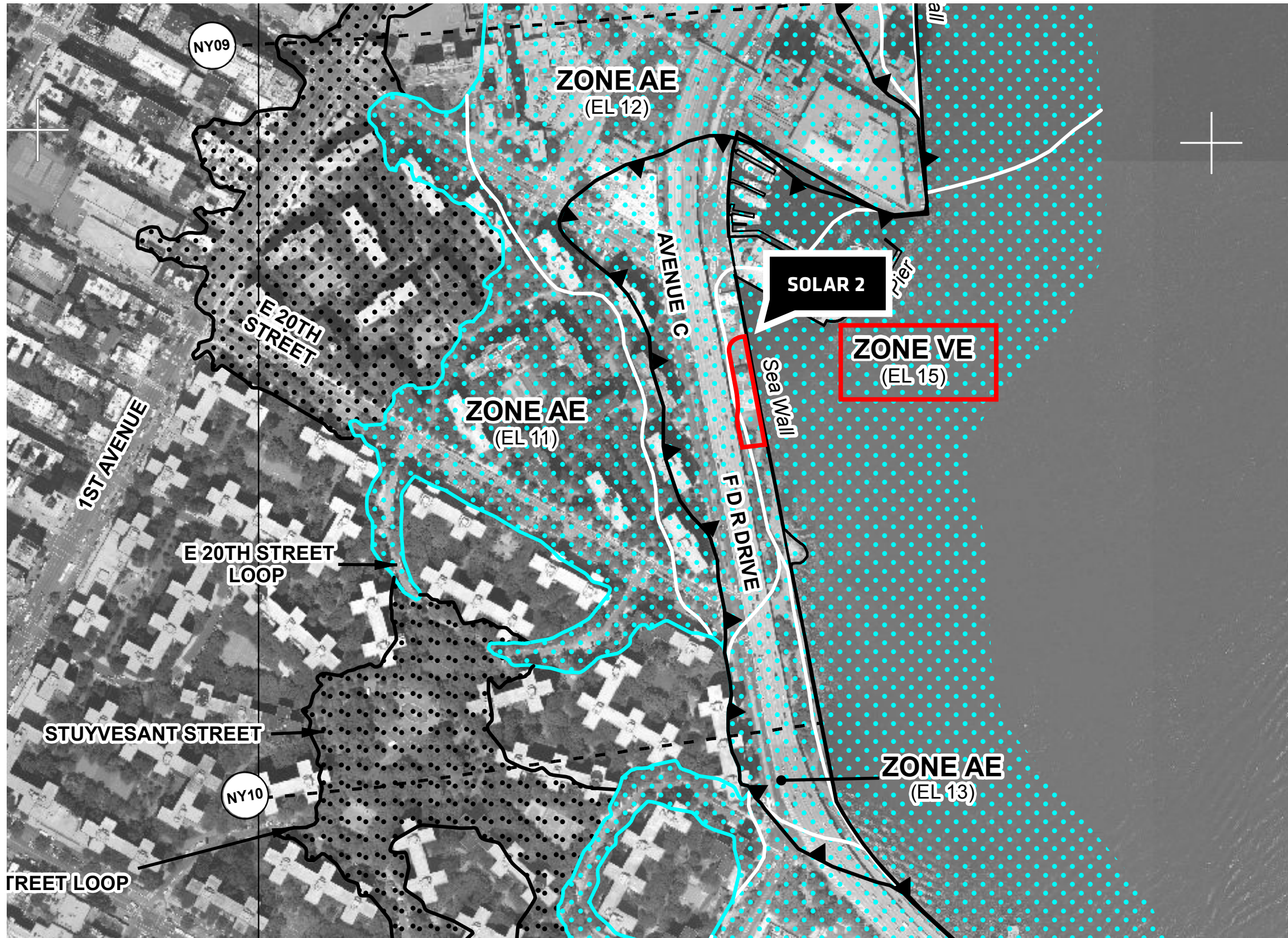
# ENVIRONMENTAL EDUCATION CENTER

**PUBLIC DESIGN COMMISSION  
PRELIMINARY PRESENTATION**

NOVEMBER 7TH, 2022

# **SITE CONDITIONS**





JOINS PANEL 0202

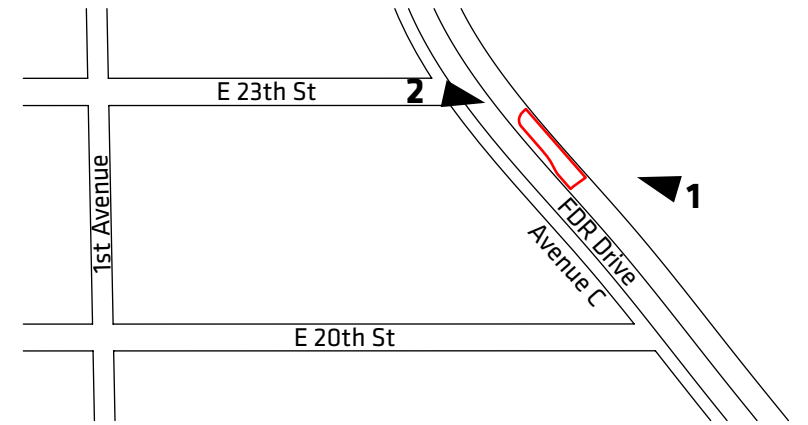
**LEGEND**

- SPECIAL FLOOD HAZARD AREAS SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD**  
The 1% annual flood (100-year flood), also known as the base flood, is the flood that has a 1% chance of being equaled or exceeded in any given year. The Special Flood Hazard Area is the area subject to flooding by the 1% annual chance flood. Areas of Special Flood Hazard include Zones A, AE, AH, AO, AR, A99, V, and VE. The Base Flood Elevation is the water-surface elevation of the 1% annual chance flood.
- ZONE A** No Base Flood Elevations determined.
- ZONE AE** Base Flood Elevations determined.
- ZONE AH** Flood depths of 1 to 3 feet (usually areas of ponding); Base Flood Elevations determined.
- ZONE AO** Flood depths of 1 to 3 feet (usually sheet flow on sloping terrain); average depths determined. For areas of alluvial fan flooding, velocities also determined.
- ZONE AR** Special Flood Hazard Area formerly protected from the 1% annual chance flood by a flood control system that was subsequently decertified. Zone AR indicates that the former flood control system is being restored to provide protection from the 1% annual chance or greater flood.
- ZONE A99** Area to be protected from 1% annual chance flood by a Federal flood protection system under construction; no Base Flood Elevations determined.
- ZONE V** Coastal flood zone with velocity hazard (wave action); no Base Flood Elevations determined.
- ZONE VE** Coastal flood zone with velocity hazard (wave action); Base Flood Elevations determined.
- FLOODWAY AREAS IN ZONE AE**  
The floodway is the channel of a stream plus any adjacent floodplain areas that must be kept free of encroachment so that the 1% annual chance flood can be carried without substantial increases in flood heights.
- OTHER FLOOD AREAS**  
**ZONE X** Areas of 0.2% annual chance flood; areas of 1% annual chance flood with average depths of less than 1 foot or with drainage areas less than 1 square mile; and areas protected by levees from 1% annual chance flood.
- OTHER AREAS**  
**ZONE X** Areas determined to be outside the 0.2% annual chance floodplain.  
**ZONE D** Areas in which flood hazards are undetermined, but possible.
- COASTAL BARRIER RESOURCES SYSTEM (CBRS) AREAS**
- OTHERWISE PROTECTED AREAS (OPAs)**  
CBRS areas and OPAs are normally located within or adjacent to Special Flood Hazard Areas.
- 1% annual chance floodplain boundary
- 0.2% annual chance floodplain boundary
- Floodway boundary
- Zone D boundary
- CBRS and OPA boundary
- Boundary dividing Special Flood Hazard Area Zones and boundary dividing Special Flood Hazard Areas of different Base Flood Elevations, flood depths or flood velocities.
- Limit of Moderate Wave Action
- Base Flood Elevation line and value; elevation in feet\*  
(EL 987)  
Base Flood Elevation value where uniform within zone; elevation in feet\*
- \* Referenced to the North American Vertical Datum of 1988
- Cross section line
- Transect line
- Culvert, Flume, Penstock or Aqueduct
- Road or Railroad Bridge
- Footbridge
- Geographic coordinates referenced to the North American Datum of 1983 (NAD 83), Western Hemisphere
- 1000-meter Universal Transverse Mercator grid values, zone 18
- 5000-foot grid values: New York State Plane coordinate system, Long Island zone (FIPSZONE 3104), Lambert Conformal Conic projection
- Bench mark (see explanation in Notes to Users section of this FIRM panel)
- River Mile
- MAP REPOSITORY**  
Refer to listing of Map Repositories on Map Index
- INITIAL NFIP MAP DATE**  
June 28, 1974
- FLOOD HAZARD BOUNDARY MAP REVISIONS**  
June 11, 1976
- FLOOD INSURANCE RATE MAP EFFECTIVE**  
November 16, 1983
- FLOOD INSURANCE RATE MAP REVISIONS**

For descriptions of revisions see Notice to Users page in the Flood Insurance Study report.

To determine if flood insurance is available in this community, contact your Insurance agent or call the National Flood Insurance Program at 1-800-638-6620.

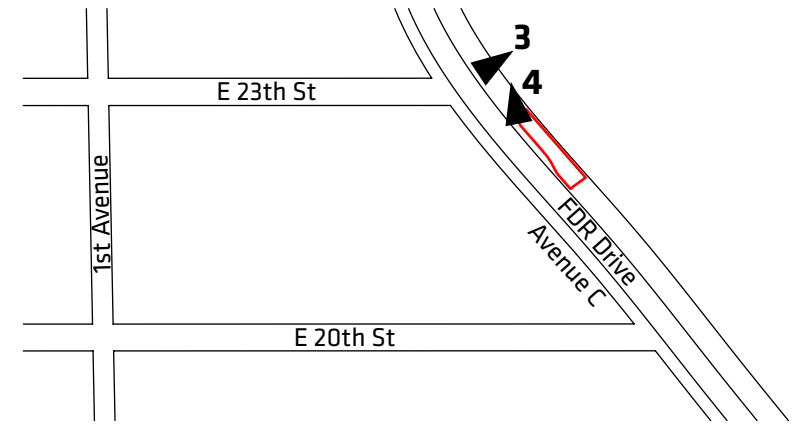




1 AERIAL OF SITE



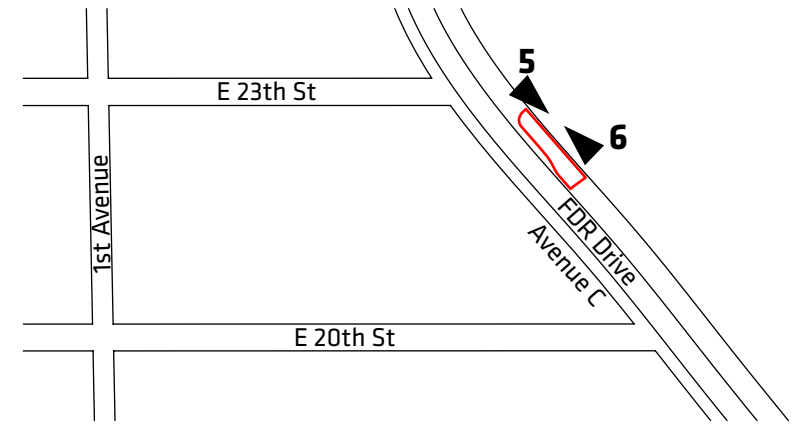
2 FDR DRIVE AND 23RD ST.



3 SP+ PARKING GARAGE



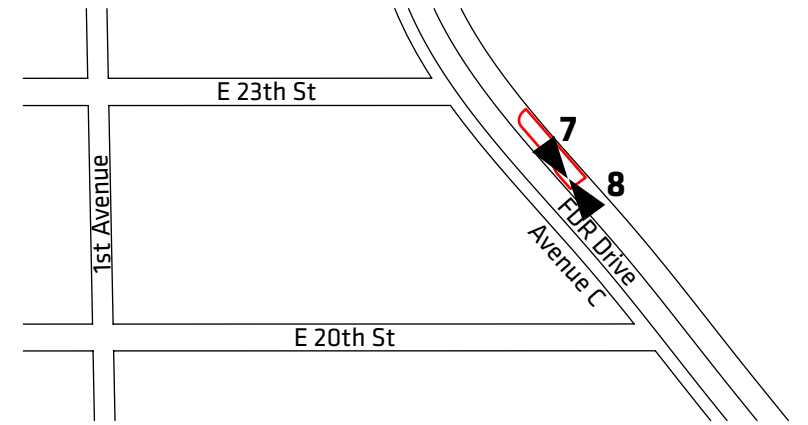
4 BP GAS STATION



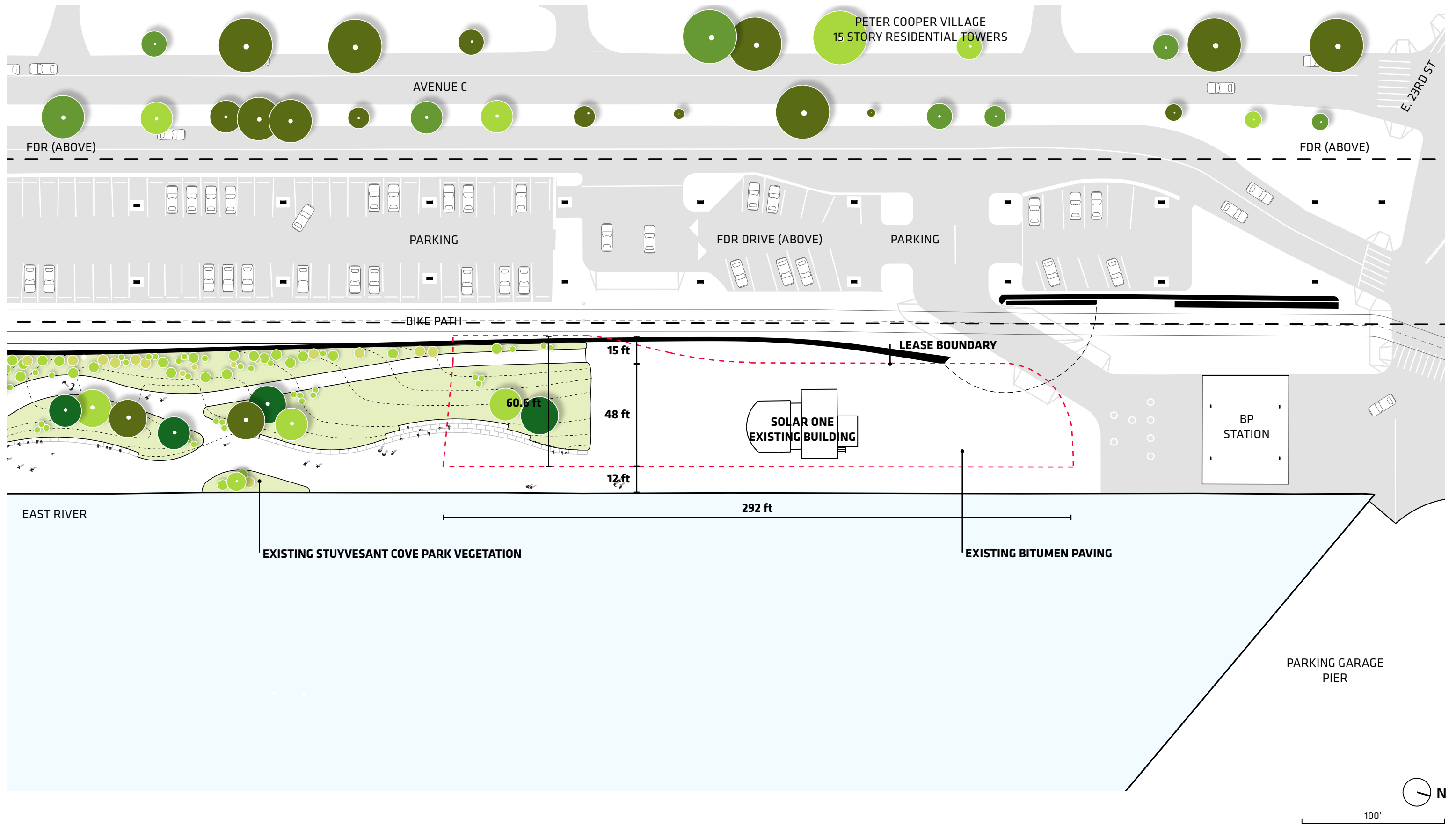
5 LOOKING SOUTH

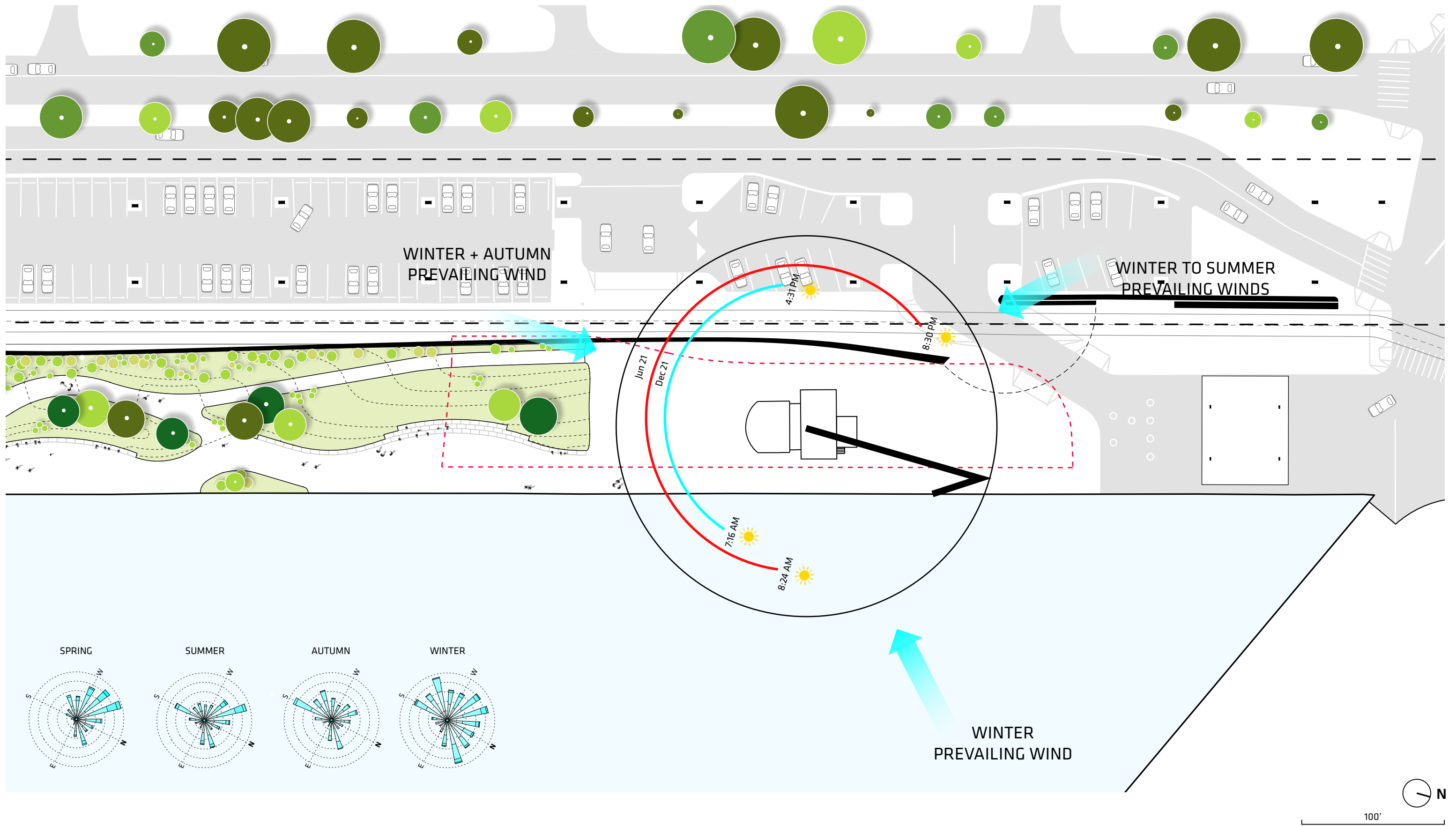


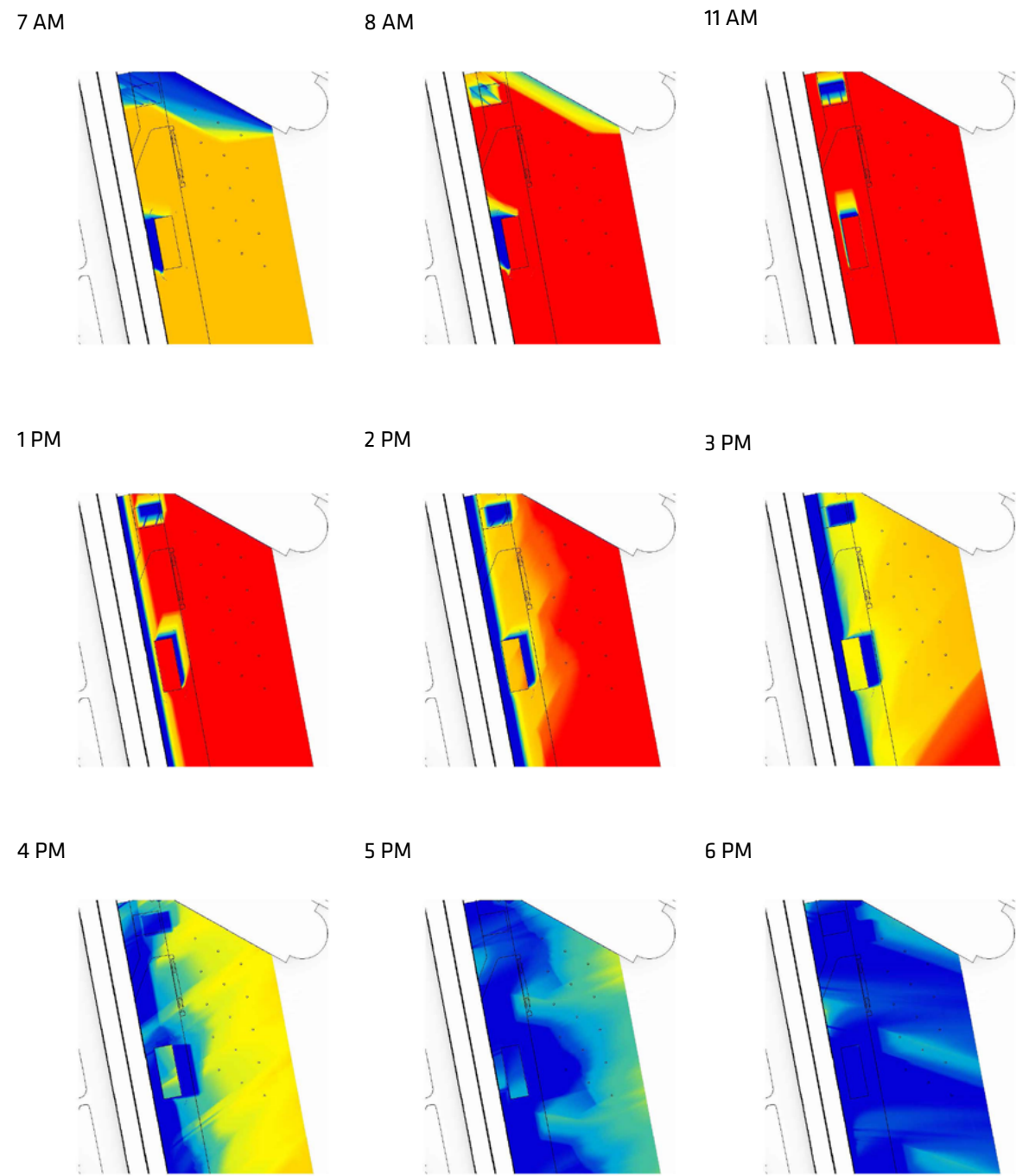
6 LOOKING NORTH





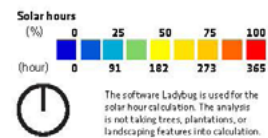




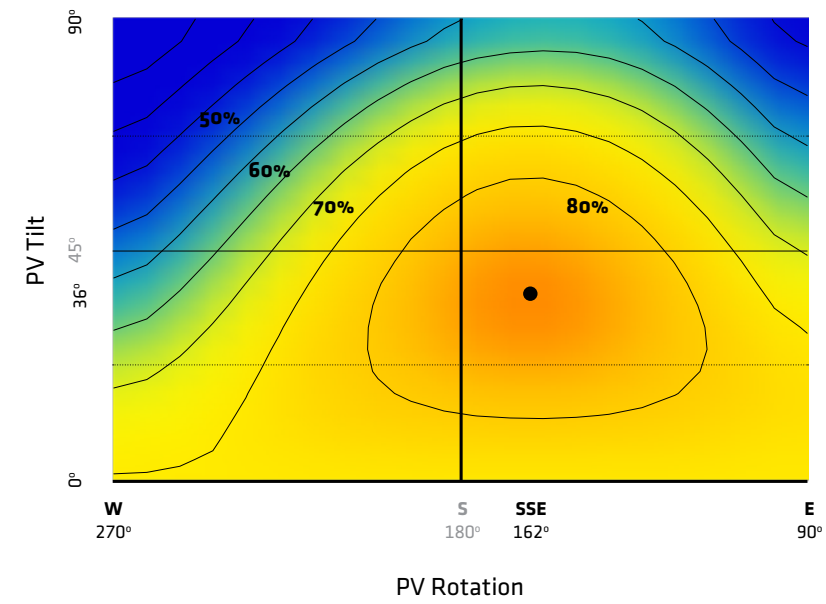


**BUILDING SOLAR EXPOSURE**

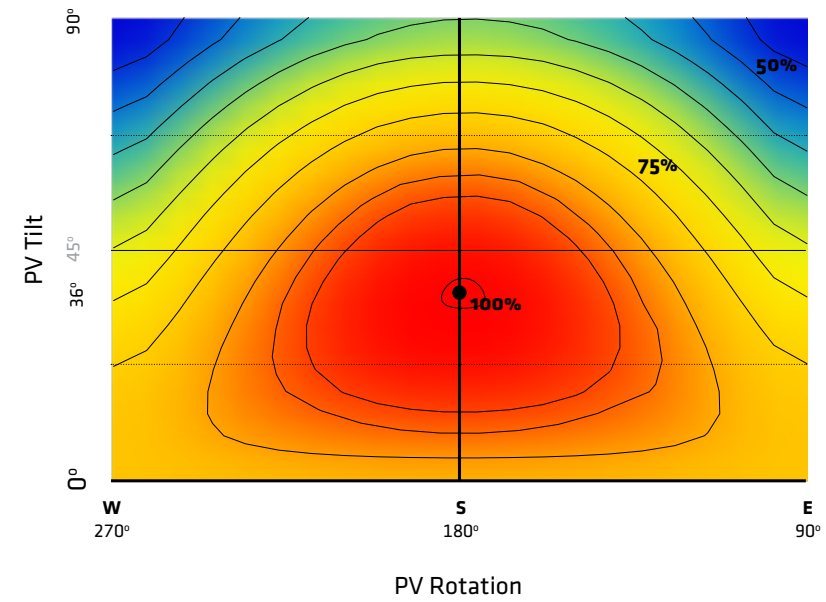
Annual average of building solar exposure - accounting for shading from residential towers and FDR to the west



**WITH BUILDING CONTEXT**

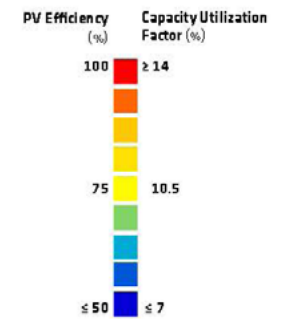


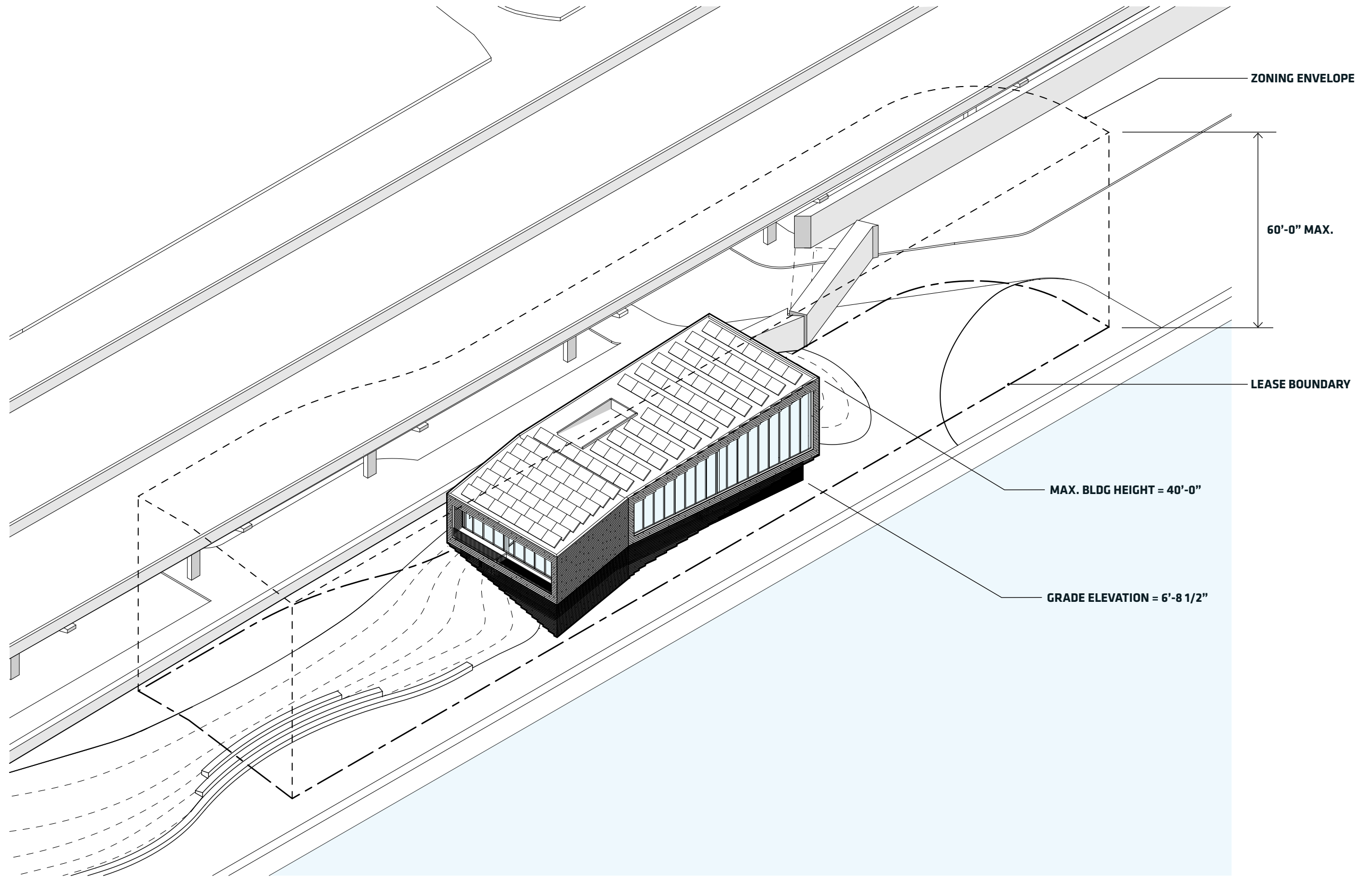
**WITHOUT BUILDING CONTEXT**



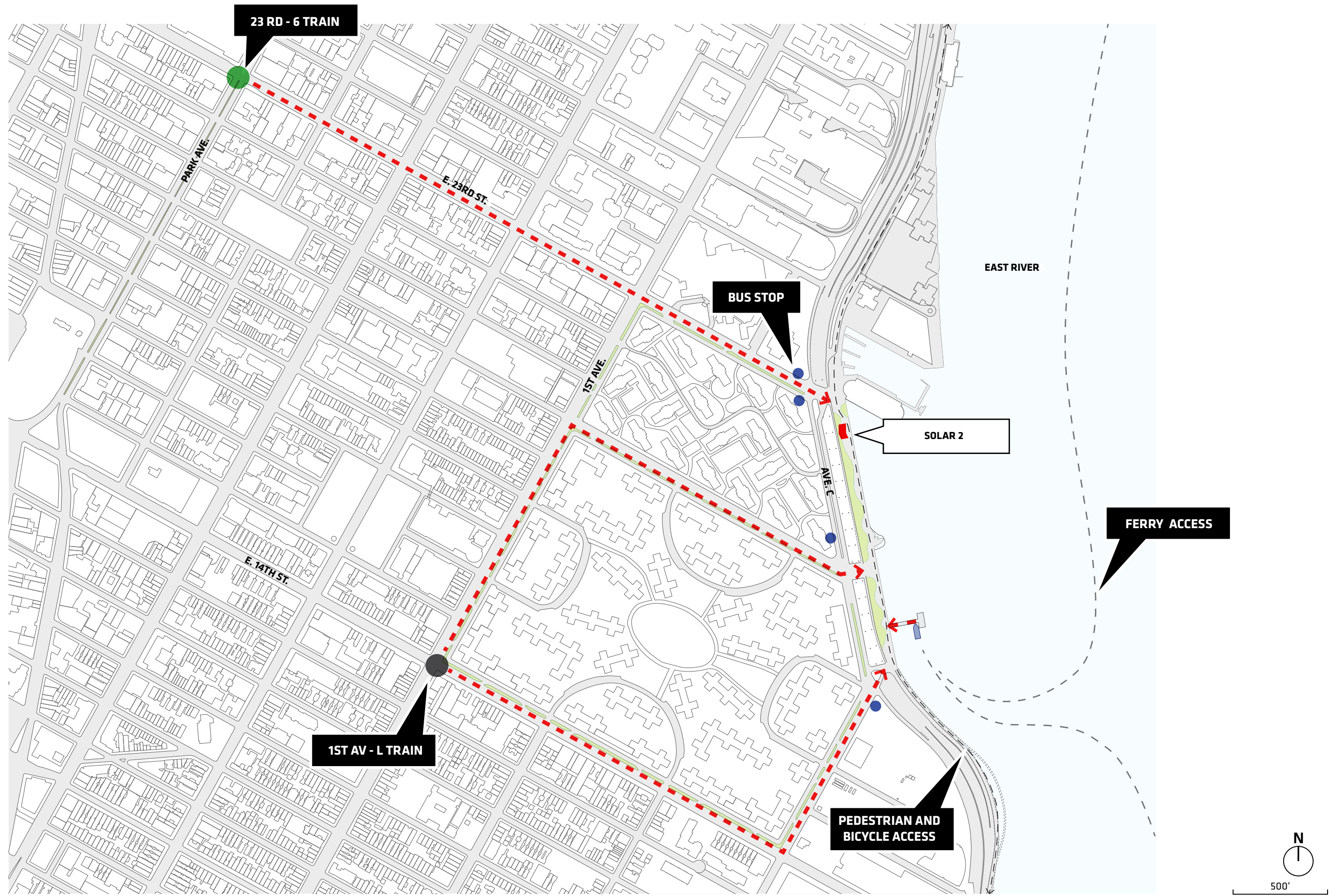
**OPTIMAL PV ORIENTATION**

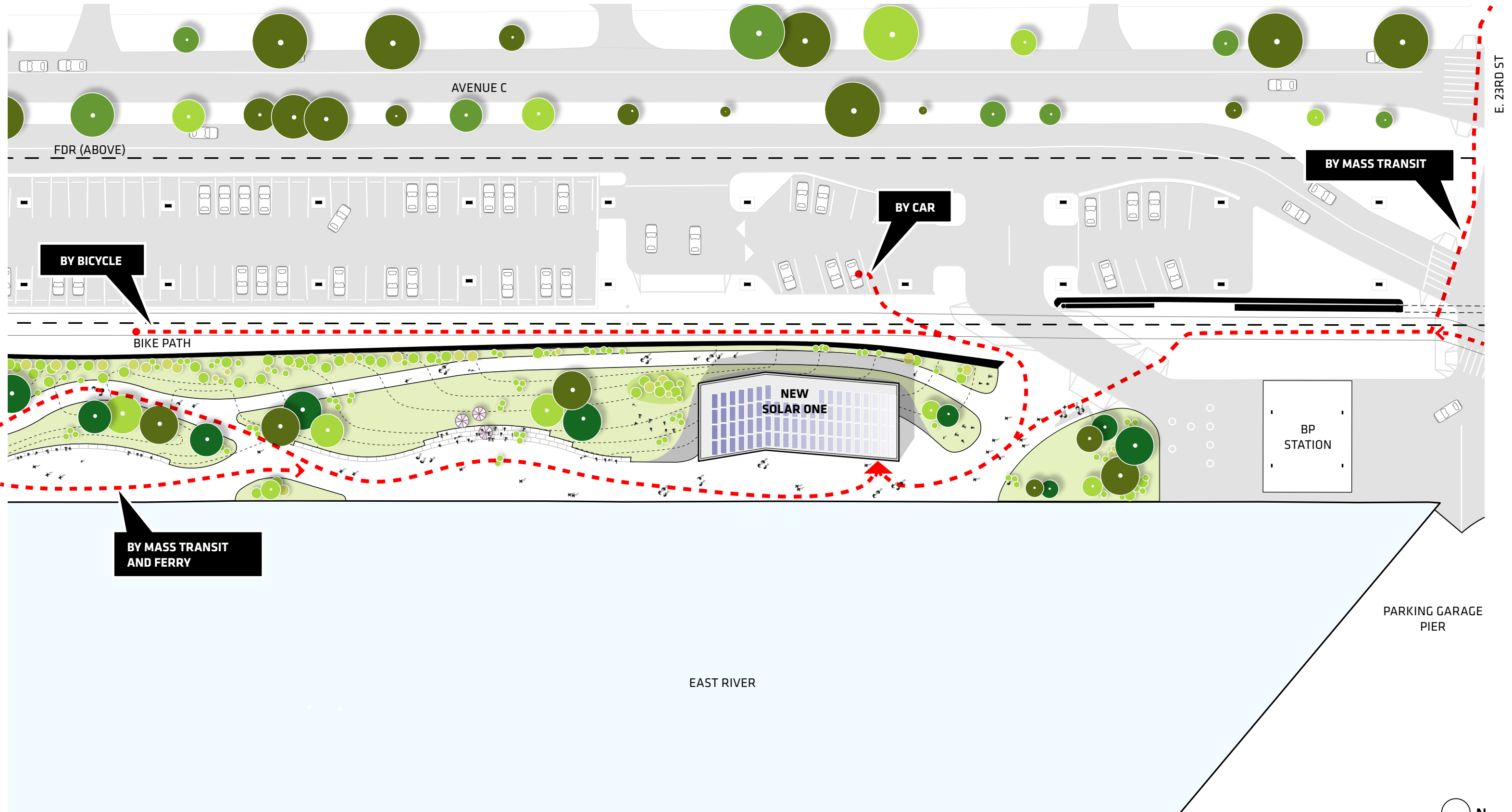
The best PV orientation is towards the SouthSouthEast, 162° N with a 36° tilt angle

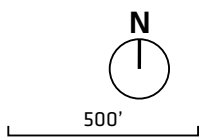
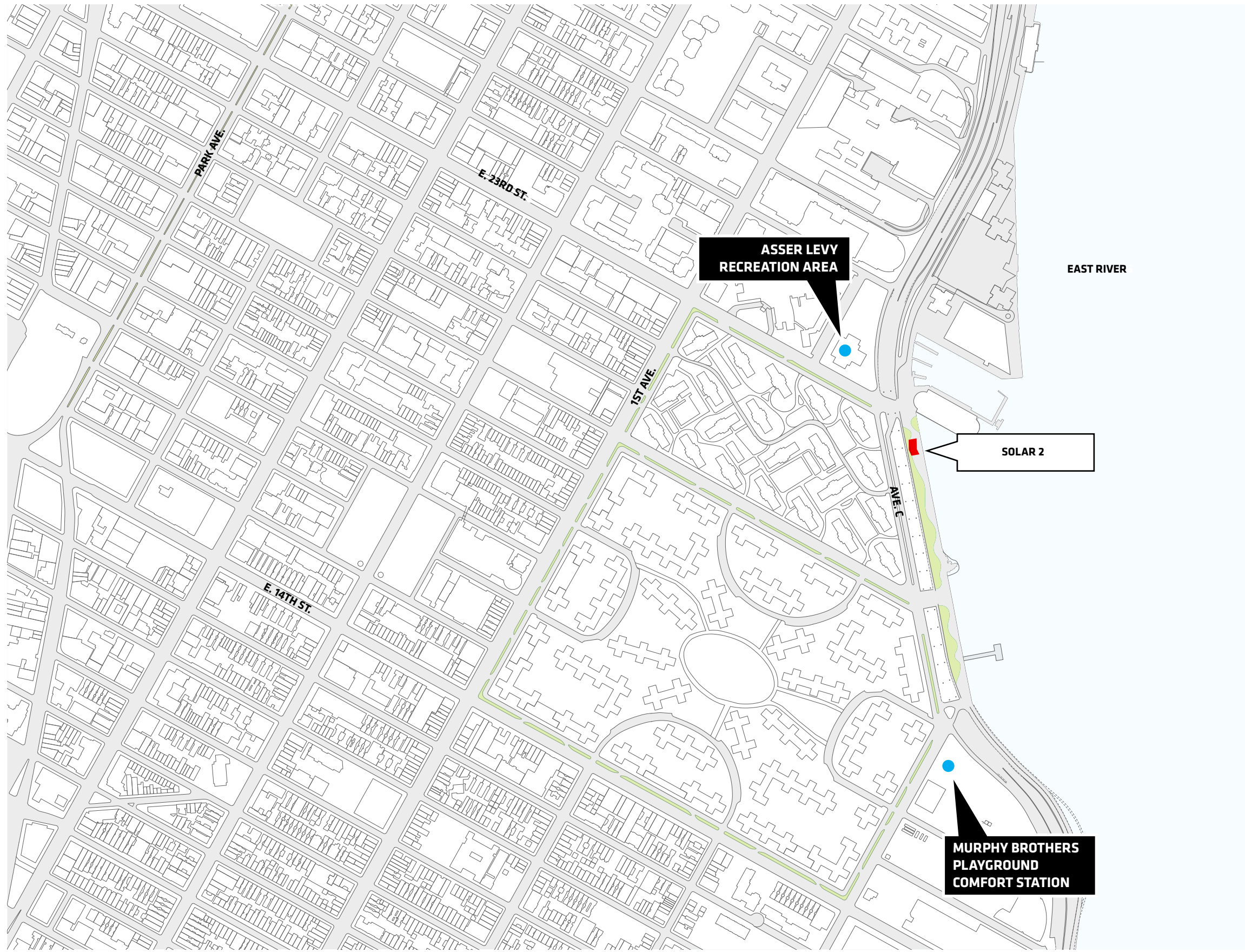




# **PUBLIC ACCESS**



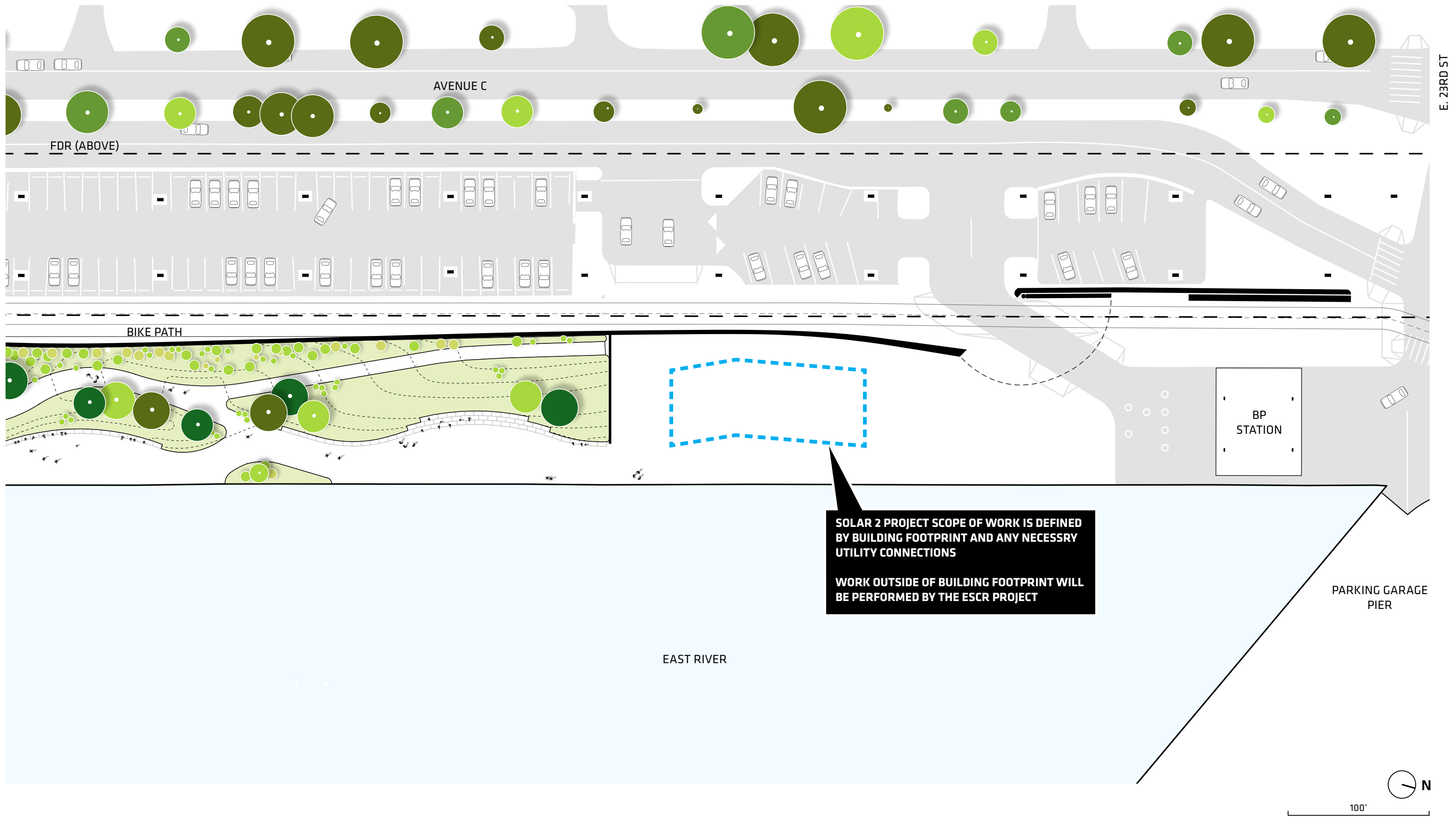


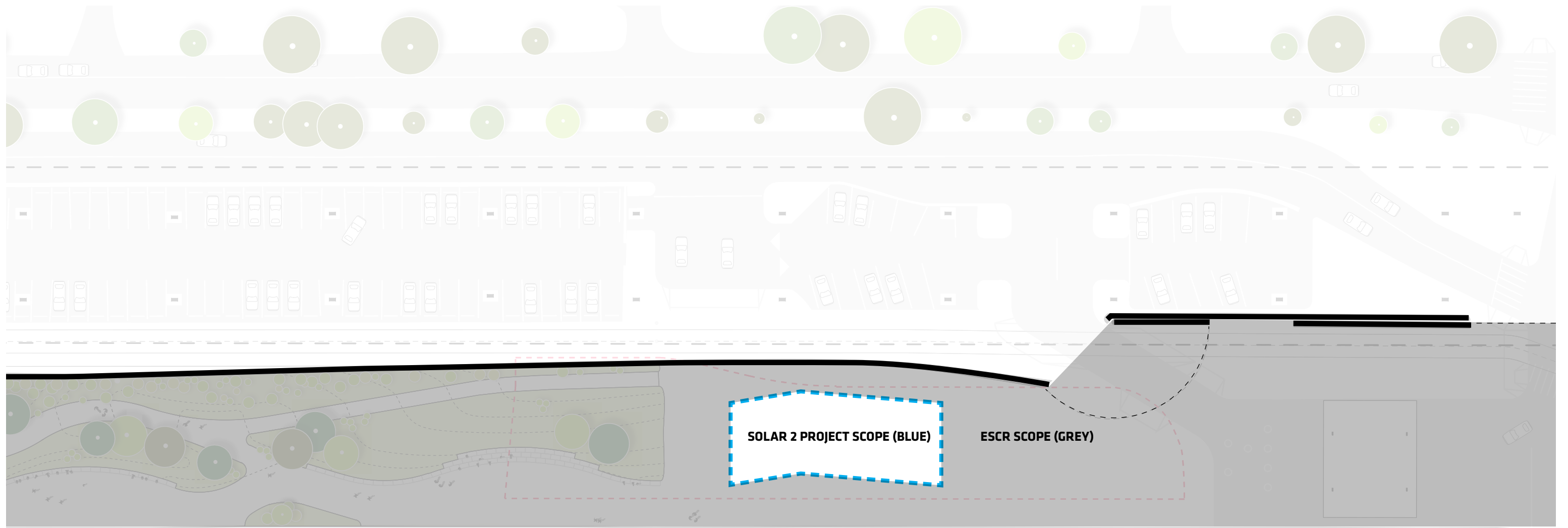




# **ESCR COORDINATION**







SOLAR 2 PROJECT SCOPE (BLUE)

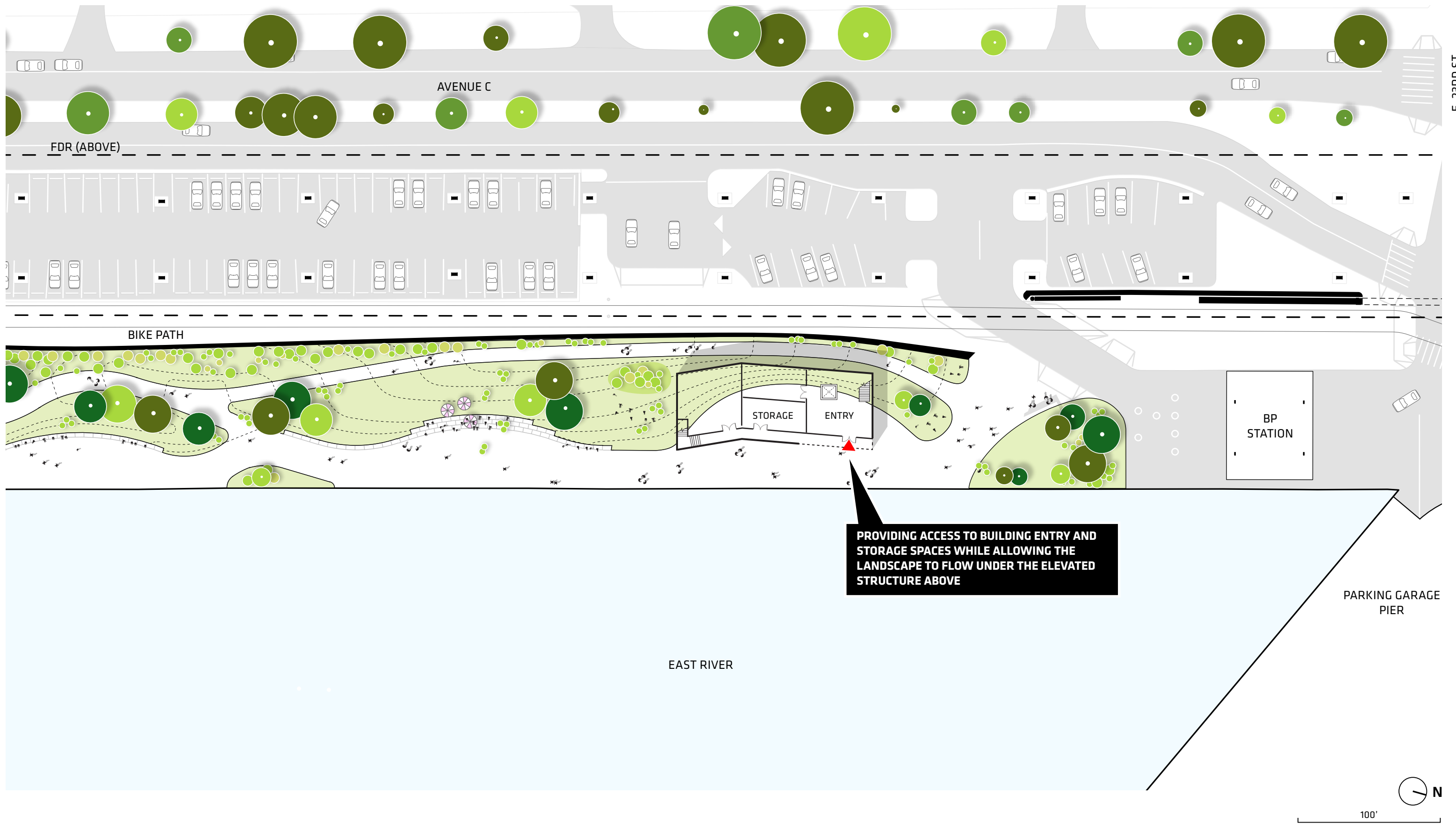
ESCR SCOPE (GREY)

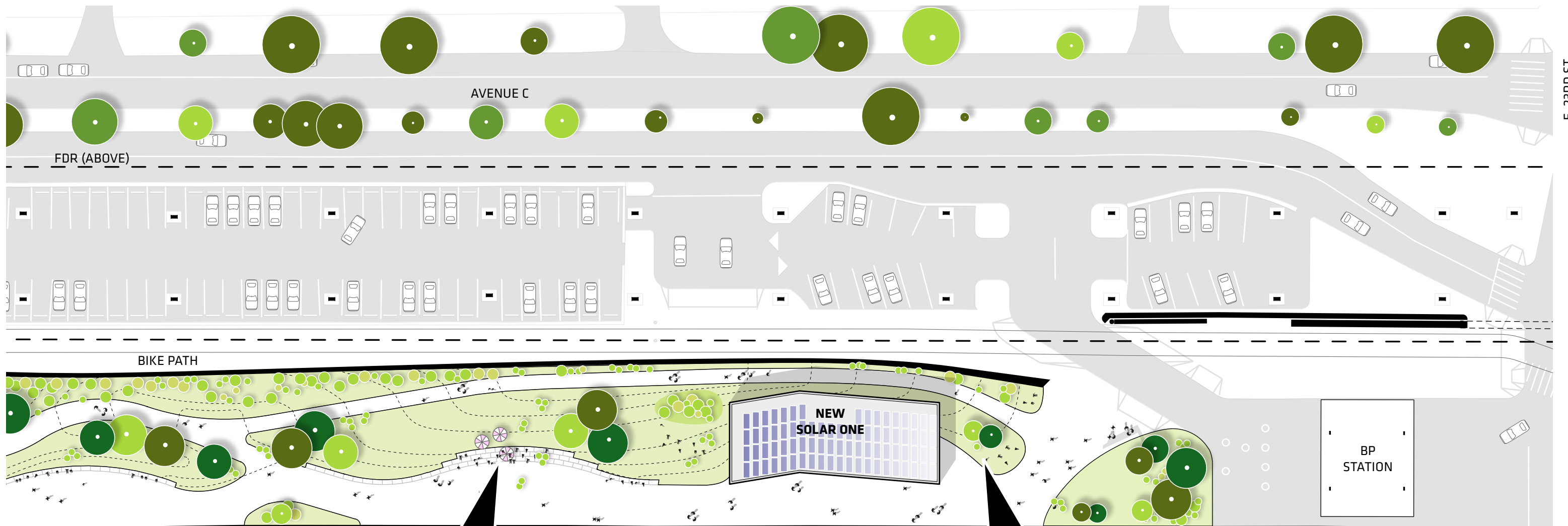


100'









PARKING GARAGE PIER

EAST RIVER



100'



# ARCHITECTURE



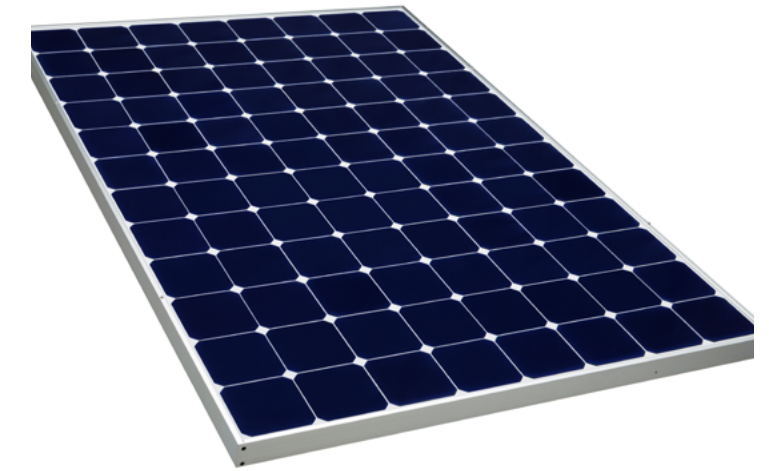
KEBONY - FACADE AND SCREEN  
MODIFIED WOOD



INSULATED GLAZING UNIT  
SOLAR BAN 60 OR EQUIVALENT  
TRIPLE GLAZED

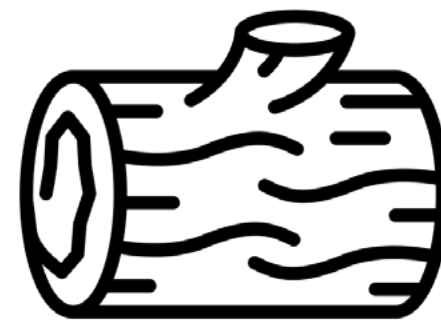
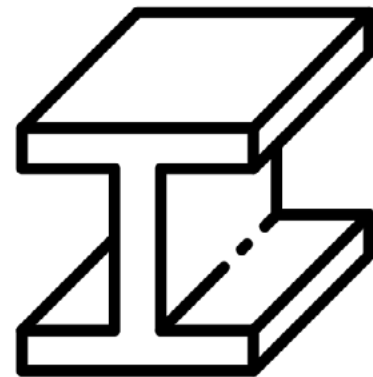


GALVANIZED METAL GRATING  
BROOKLYN BRIDGE BOATHOUSE



SUNPOWER SOLAR PANELS

**THERE IS AN OPPORTUNITY TO RECONSIDER THE FACADE, TO BE MORE ENVIRONMENTAL AND ADDRESSING THE CURRENT ISSUES FACED WHEN BUILDING TODAY**





**PIER 26**  
HUDSON RIVER PARK



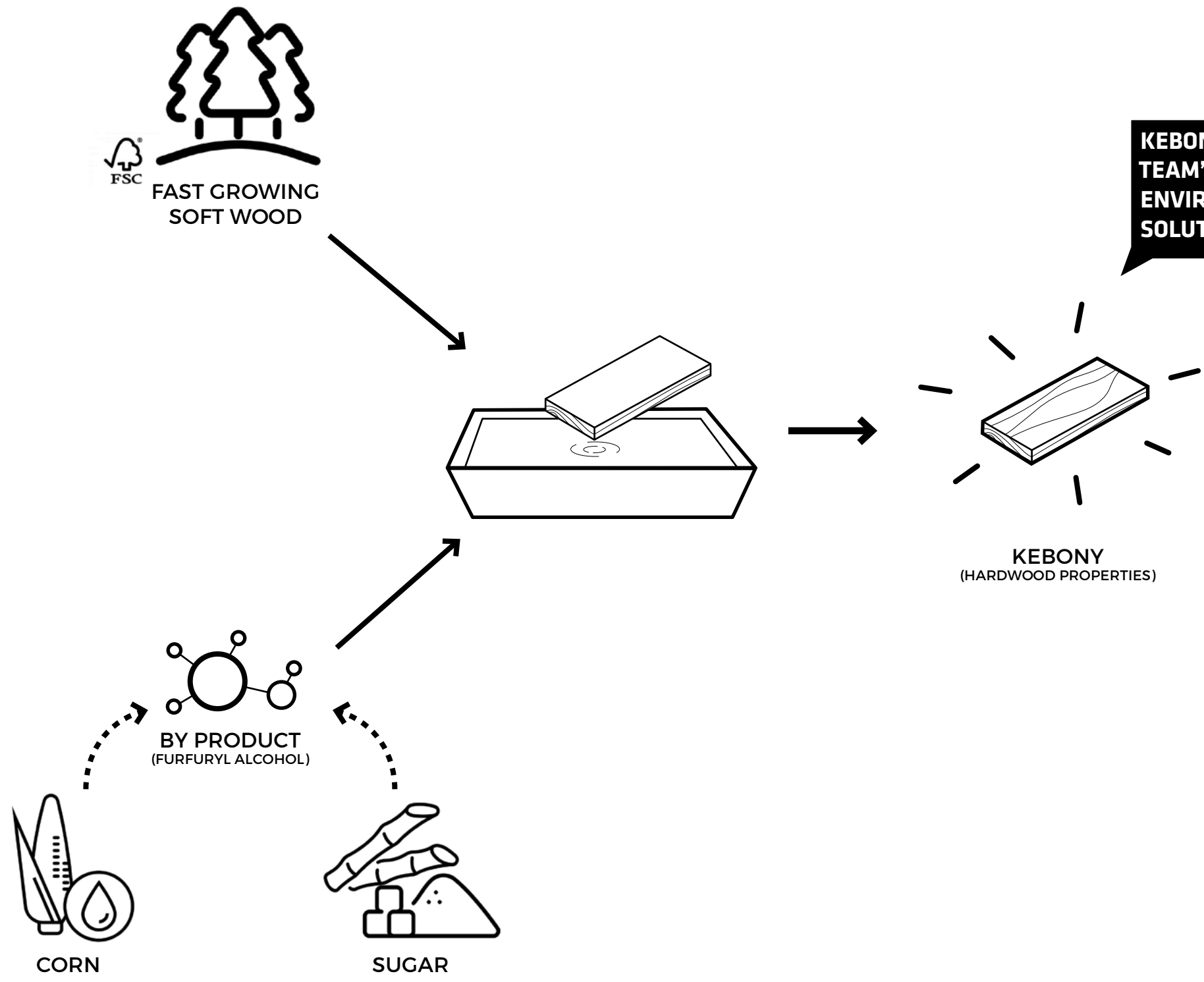
**JONES BEACH ENERGY & NATURE CENTER**  
LONG ISLAND, NY



**HUNTERS POINT SOUTH**  
QUEENS, NY



**KEBONY SUPPORTS THE NARRATIVE OF A BUILDING THAT SHOWS THE EFFECTS OF THE ENVIRONMENT ON MATERIAL**



**KEBONY ILLUSTRATES THE PROJECT TEAM'S COMMITMENT TO FINDING ENVIRONMENTALLY CONCIIOUS SOLUTIONS TO HOW WE CONSTRUCT**

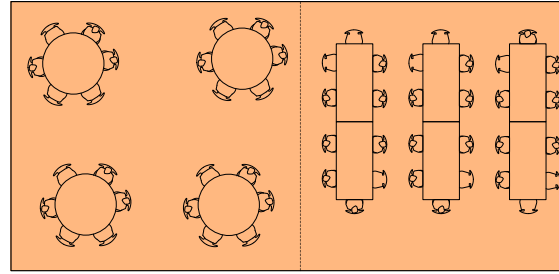




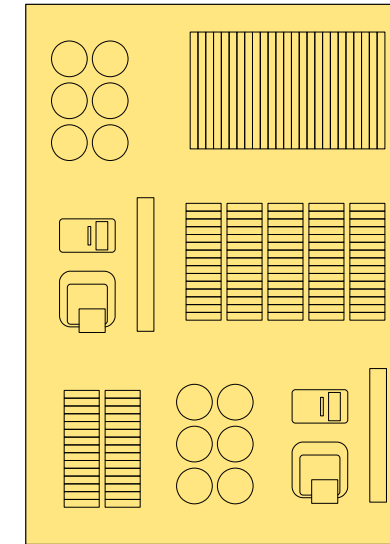




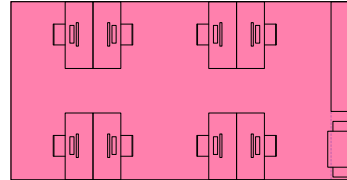
**CLASSROOM FOR  
WORKSHOPS  
AND FIELD TRIPS (X2)**  
1200 NET/SQFT



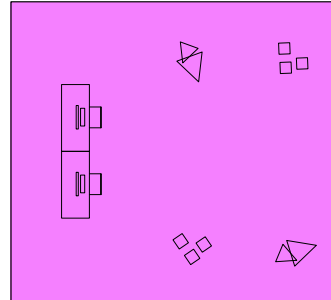
**STORAGE  
LEVEL 1**  
550 NET/SQFT



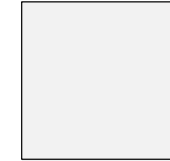
**OFFICE**  
425 NET/SQFT



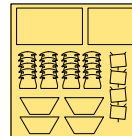
**RECEPTION**  
150 NET/SQFT



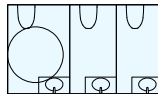
**ELEC/MECH**  
40 NET/SQFT



**STORAGE  
(EVENTS, EDUCATION)**  
130 NET/SQFT



**UNISEX WC**  
QUANTITY OF 3

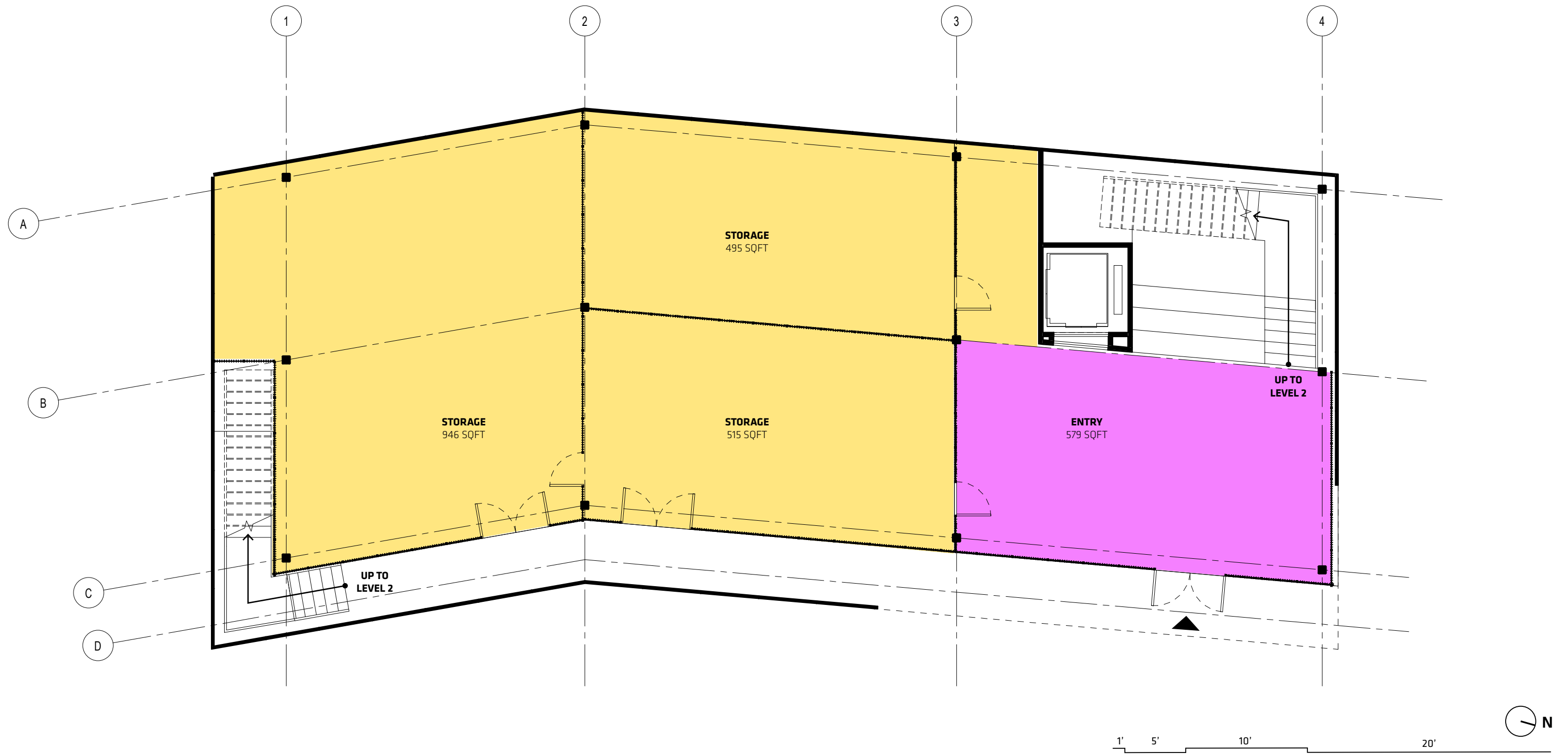


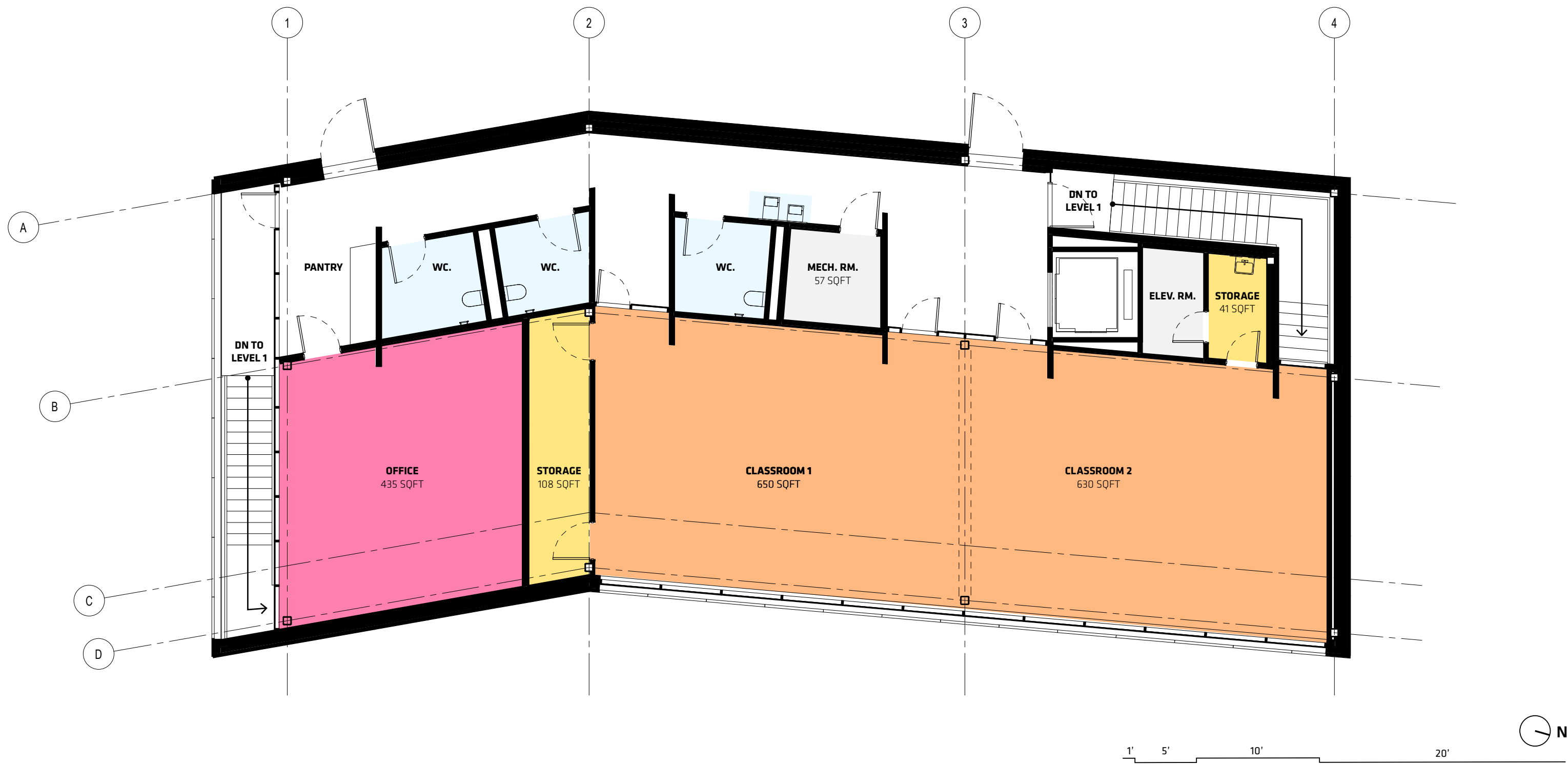
**DRINKING FOUNTAIN**  
QUANTITY OF 2

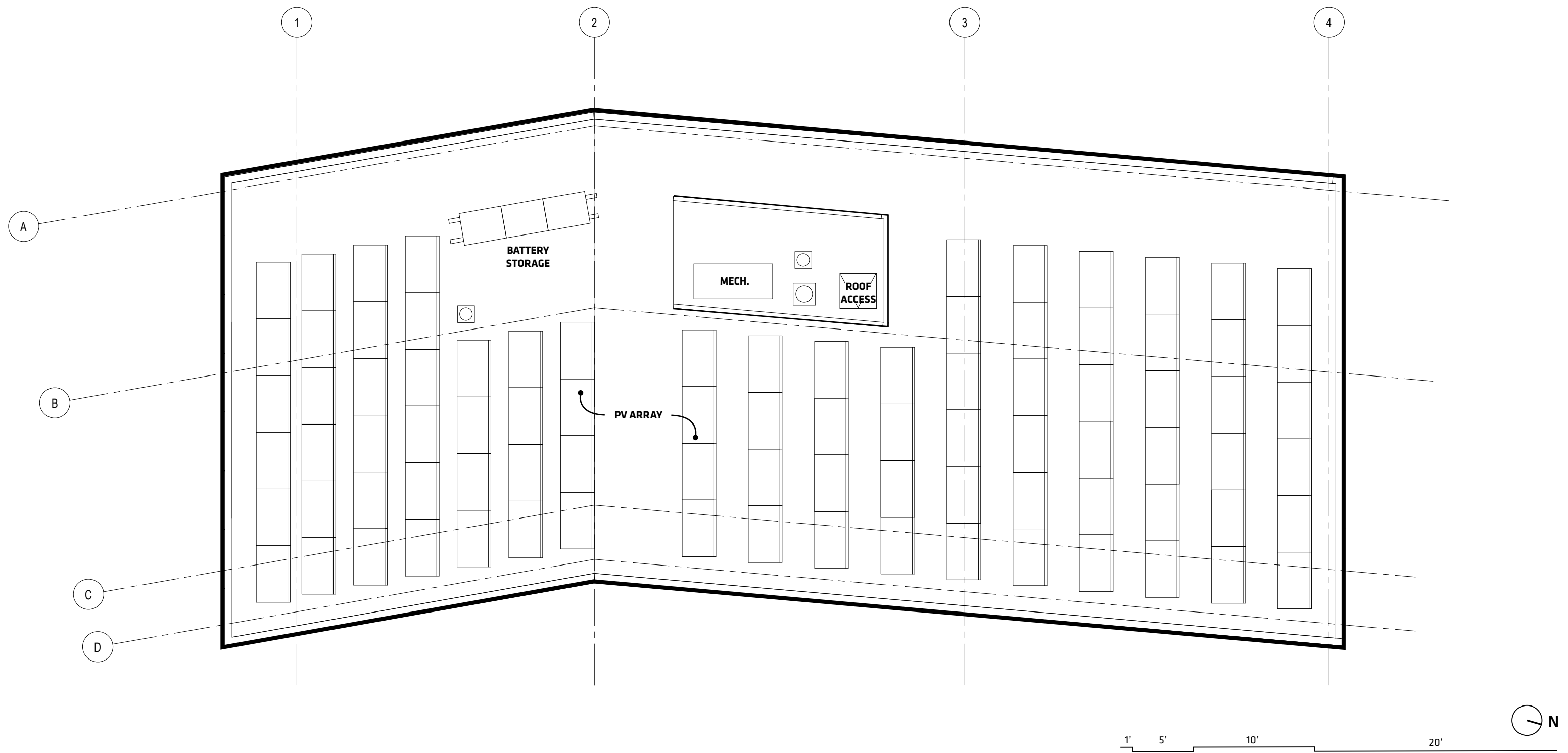


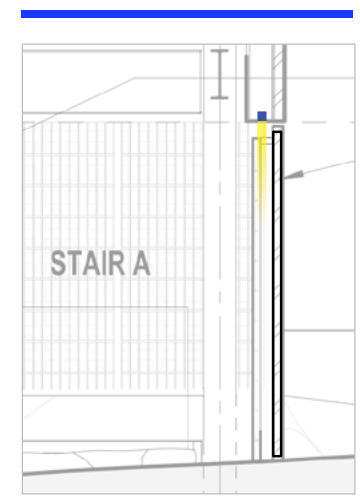
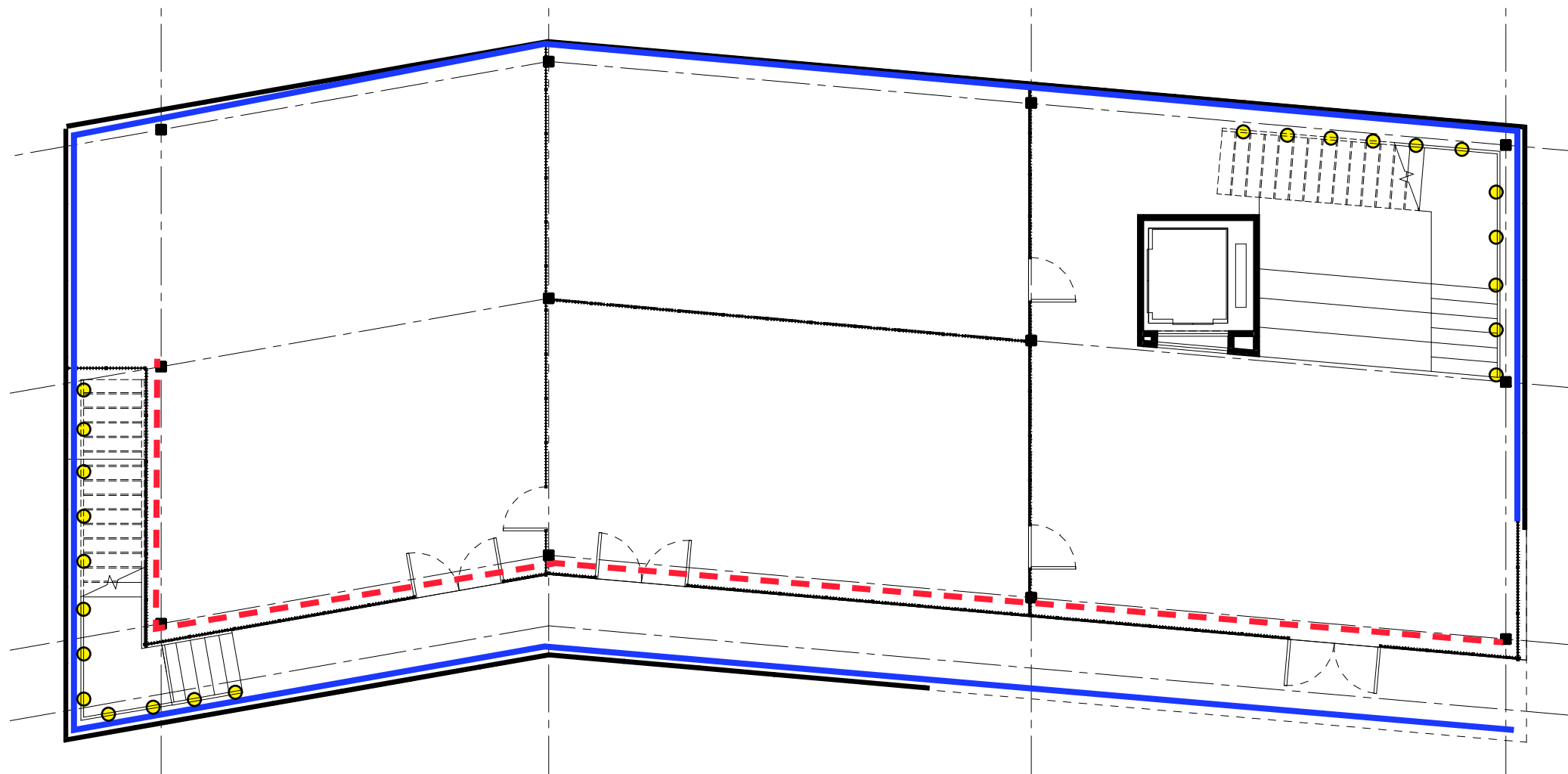
**WASH SINK**  
QUANTITY OF 1



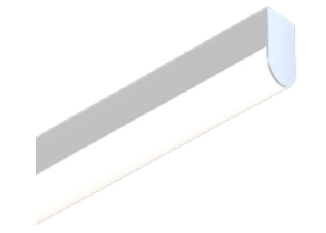
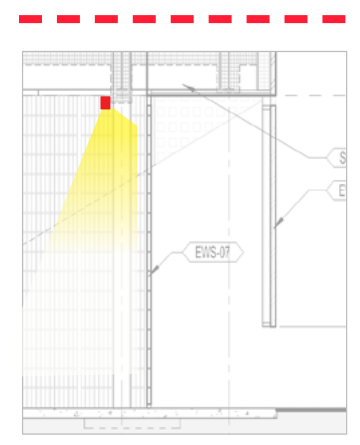




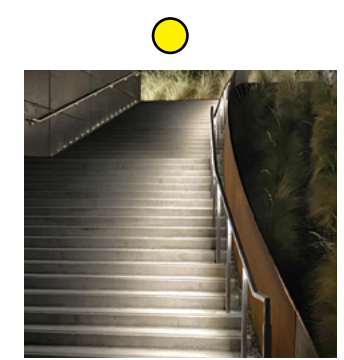




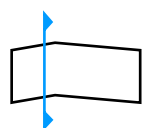
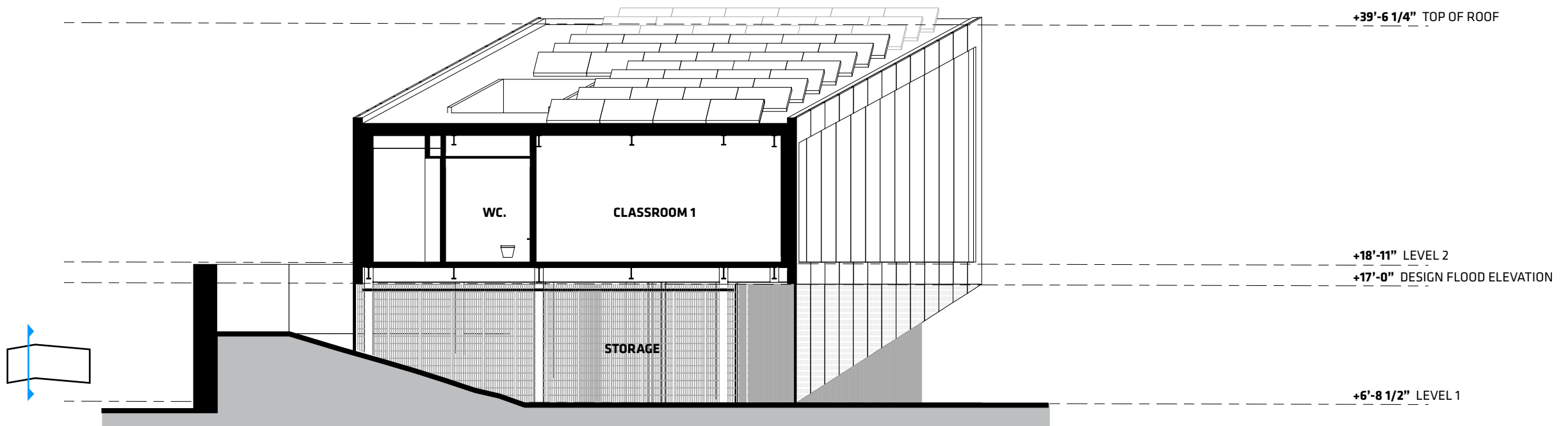
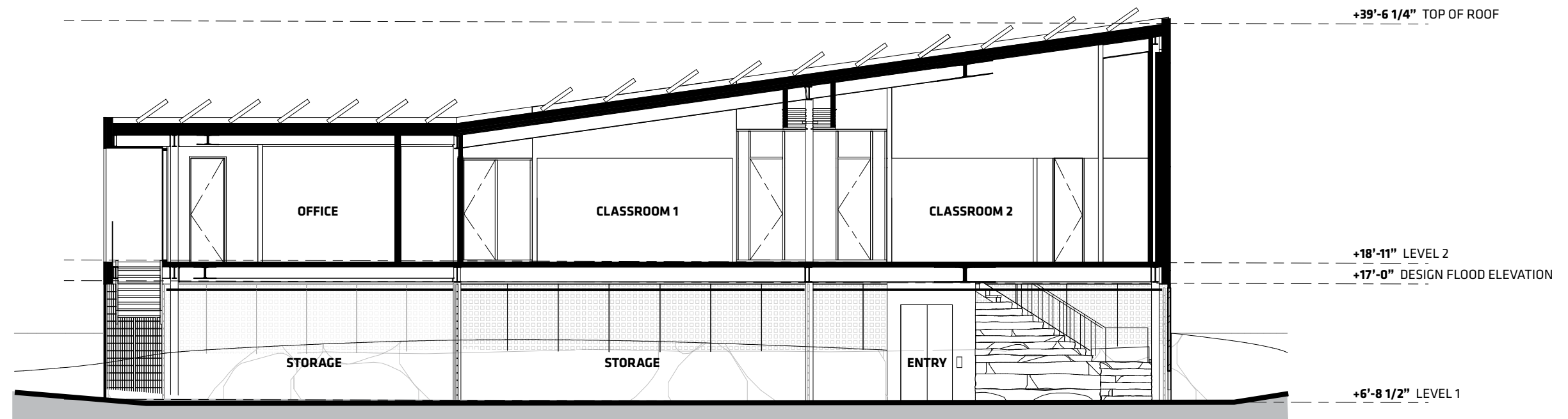
MOUNTED LED  
FIXTURE TO BACKLIGHT  
PERFORATED SCREEN

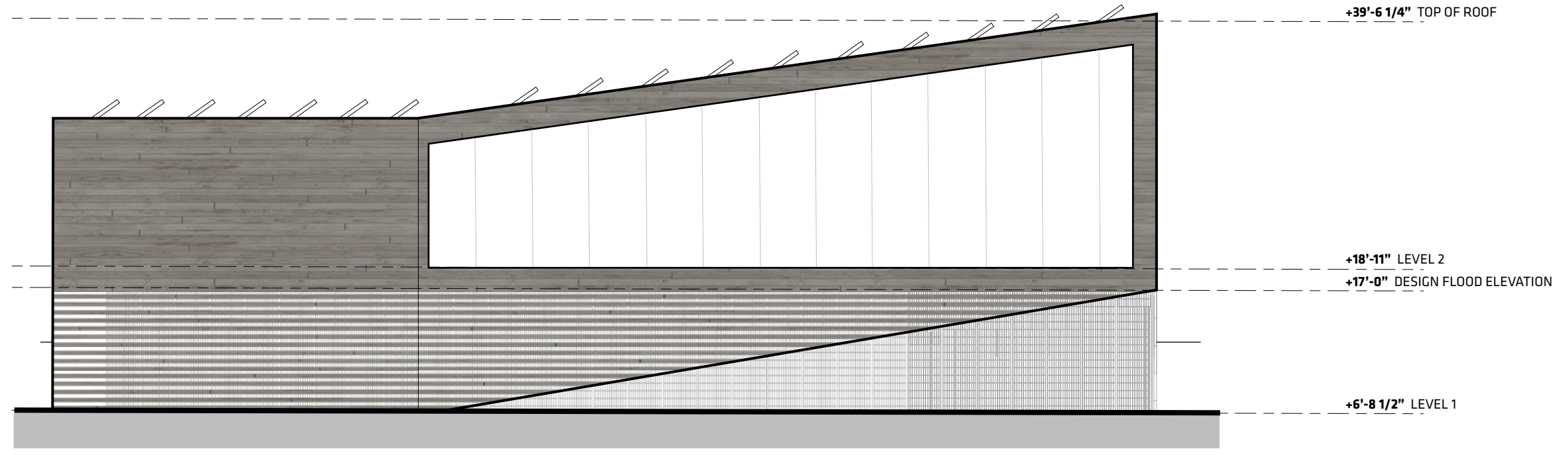


MOUNTED LED FIXTURE TO  
BACKLIGHT PERFORATED  
SCREEN

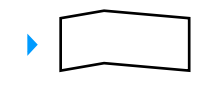
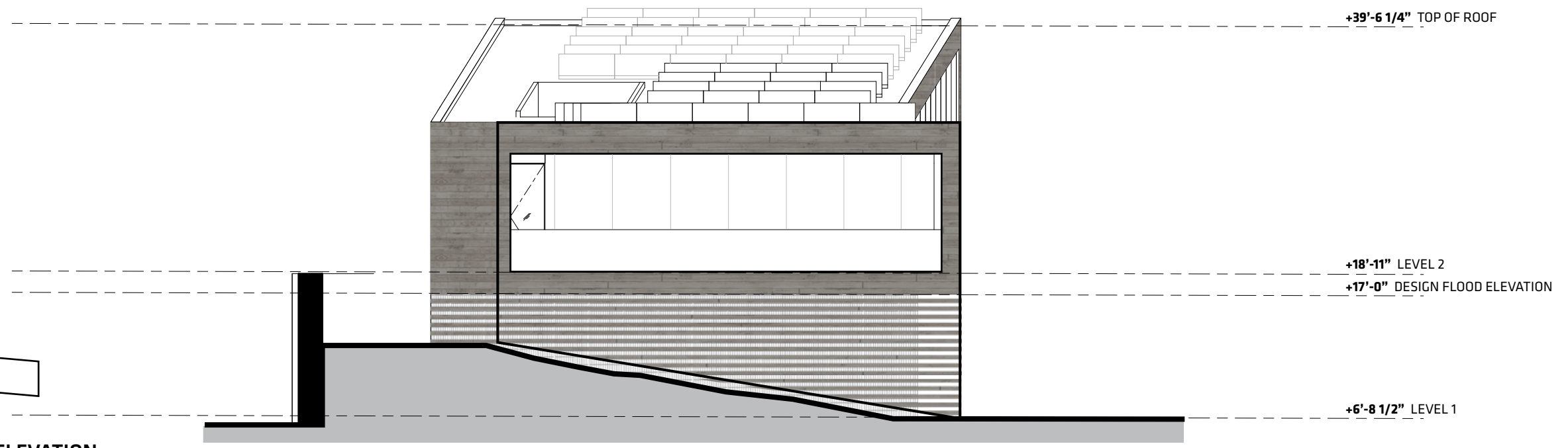


DISCREET INTEGRATED  
HANDRAIL PUCKLIGHTS

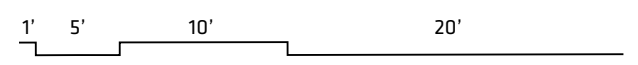




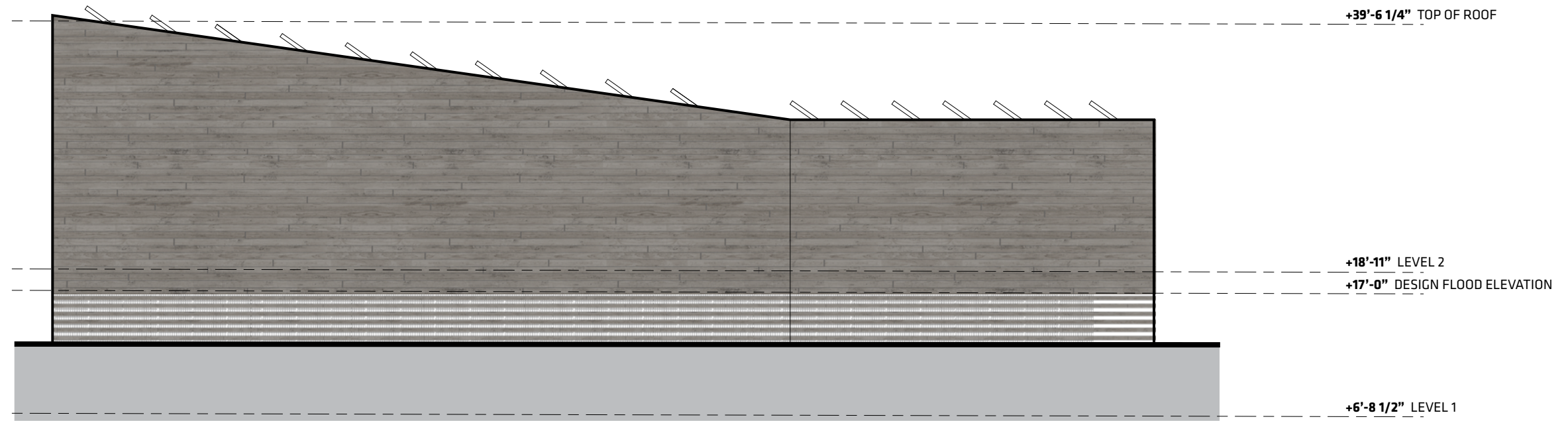
**WEST ELEVATION**



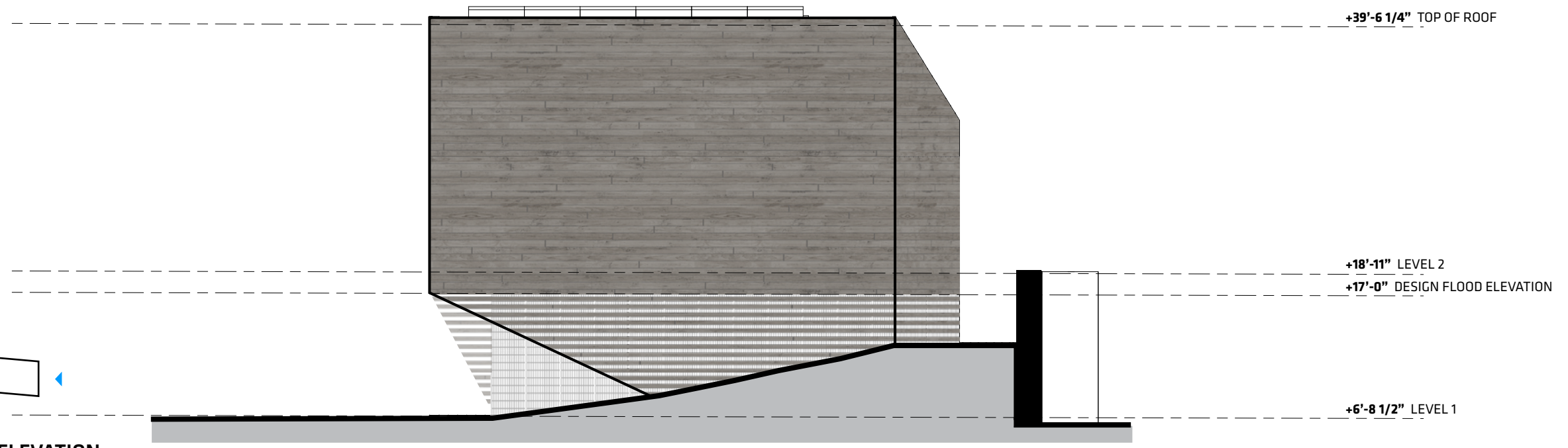
**SOUTH ELEVATION**







**EAST ELEVATION**



**NORTH ELEVATION**



