



NEW FIRE STATION: ENGINE CO. 268 / LADDER CO. 137



← MARINE PARKWAY BRIDGE

CROSS BAY BRIDGE →

JAMAICA BAY

BROOKLYN & MANHATTAN

PROJECT SITE

EXISTING EC268 / LC137 FIRE STATION

16-11 Beach Channel Dr

Rockaway Fwy

Curtis Ct

908L

Shore Front Pkwy Board

OCEAN



Jamaica Bay

9/11 Tribute Park

Commercial Zone

Retail & Commercial

Residential Neighborhood

Existing Fire Station
EC 268/LC 137

Flight 587
Memorial

MTA Station
A&S Stops



Jamaica Bay



flood zone AE - 11'-0"

flood zone AE - 10'-0"

BEACH CHANNEL DR.

site

Newport Ave

Beach 116th St

BEACH 116TH ST.

Beach 117th St

sunset

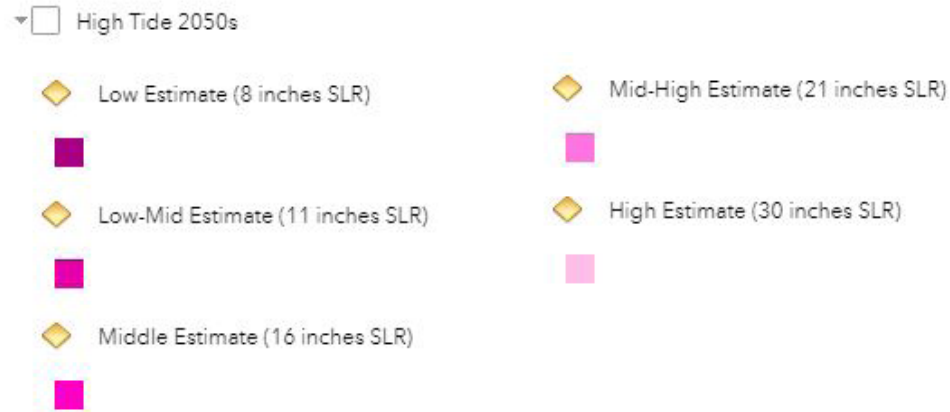
sunrise

mid-day





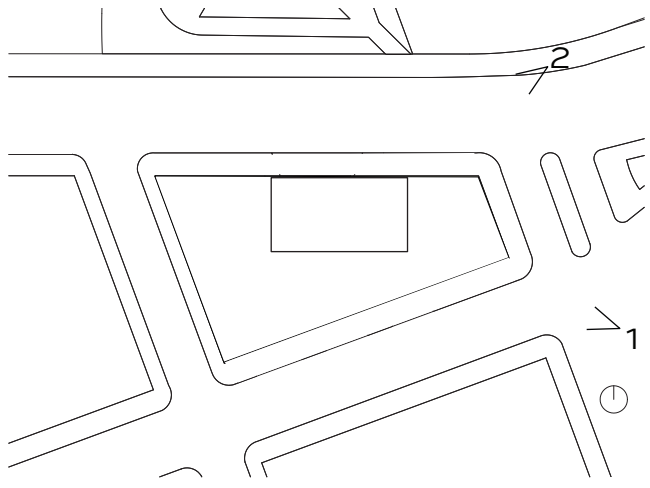
Floodmapper High Tide 2050



Floodmapper High tide 2080



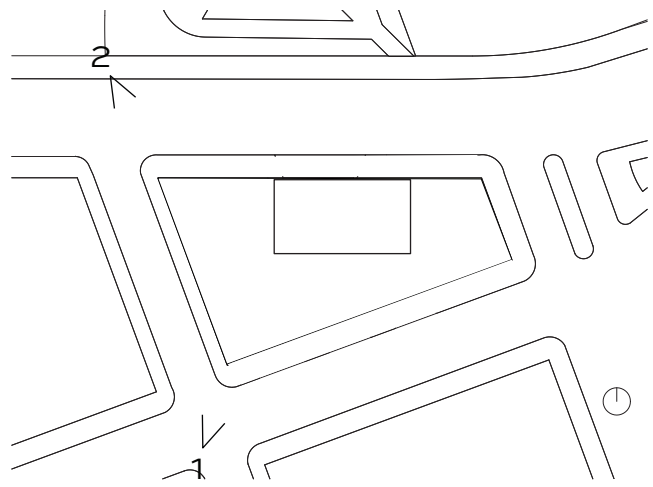




1 - View from Beach 116th St. (existing bank building)



2 - View from Beach Channel Drive (existing bank building)



1 - View from Newport Ave. - SW



2 - View from Beach Channel Drive - NW



1 - 9/11 Tribute Park across Beach Channel Drive



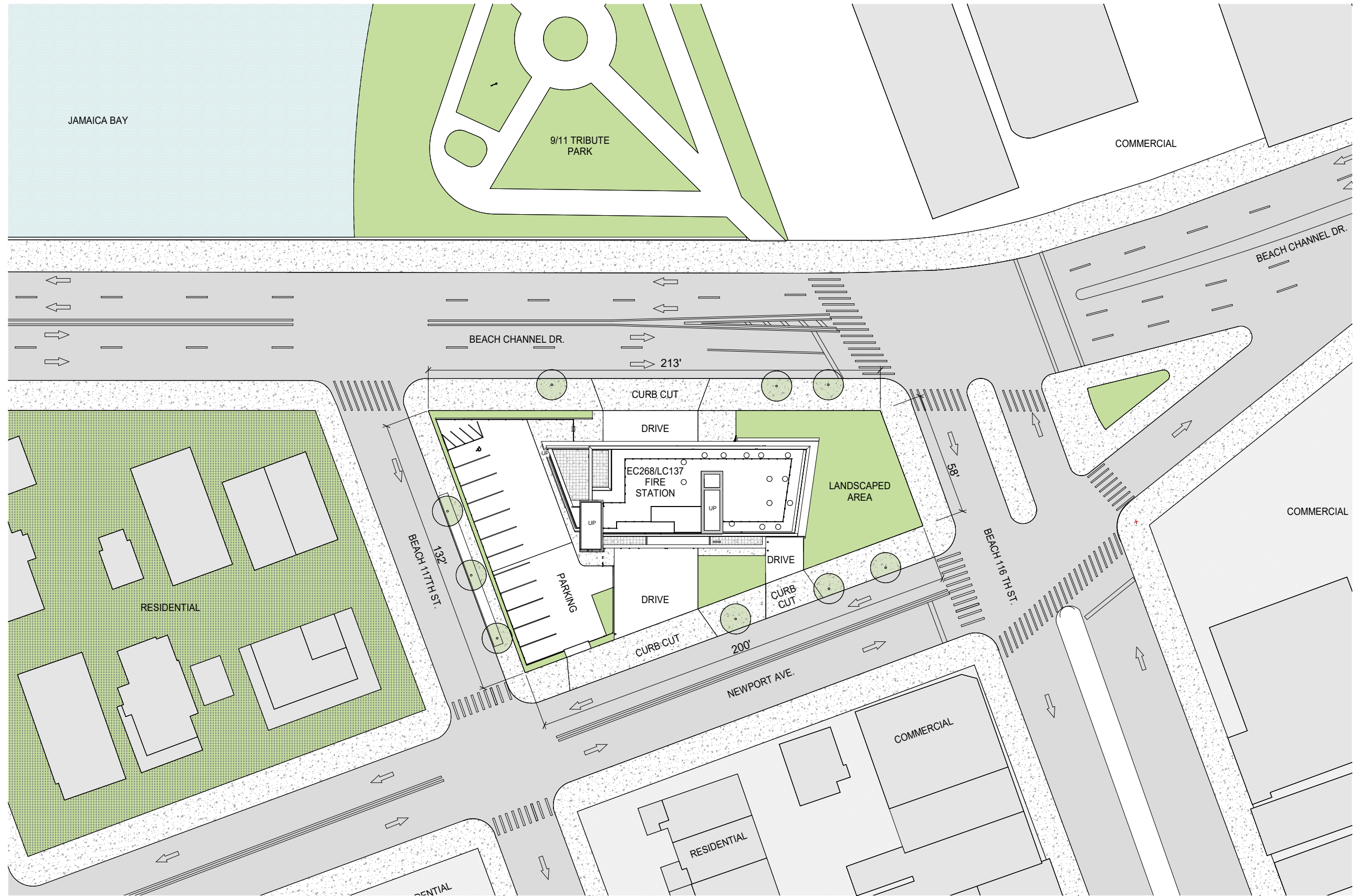
2 - Rotary Garden across Beach 116th St.

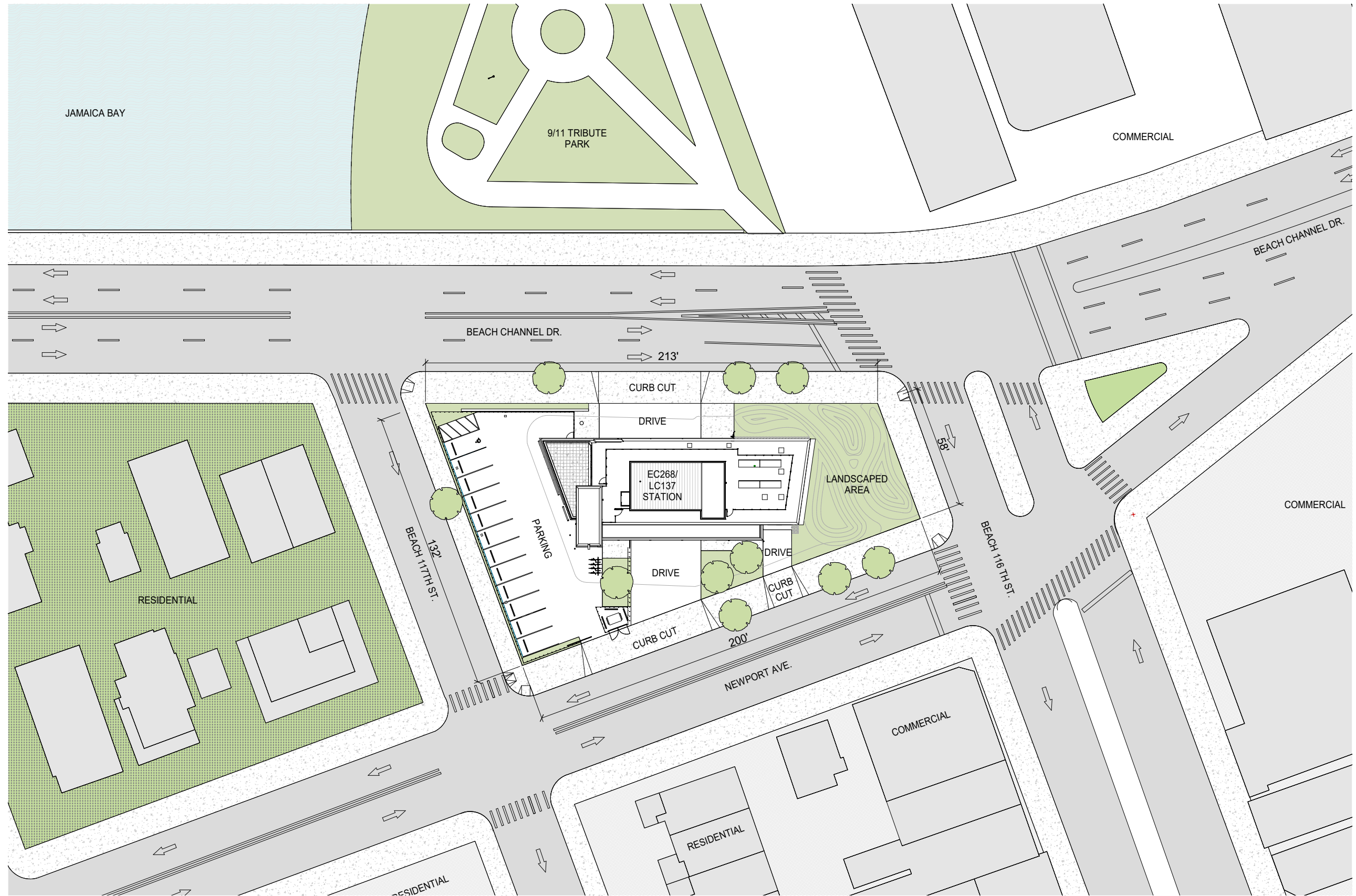


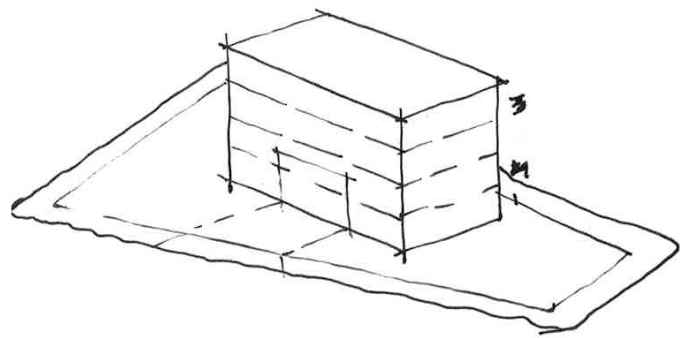
1 - Shopping/Retail Corridor and Promenade



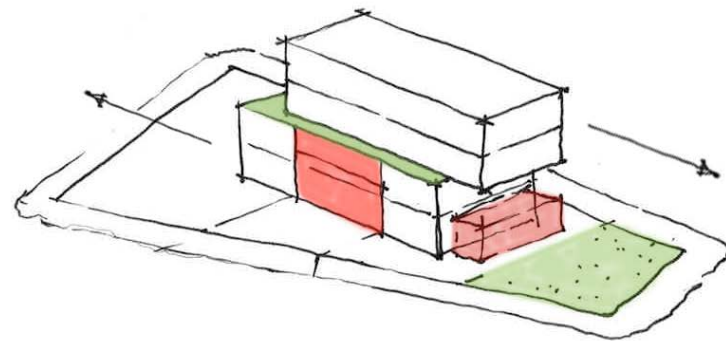
2 - Flight 587 Memorial



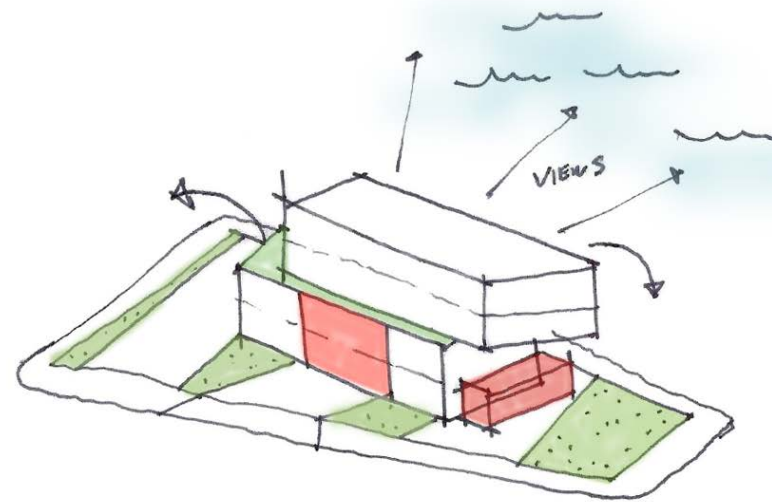




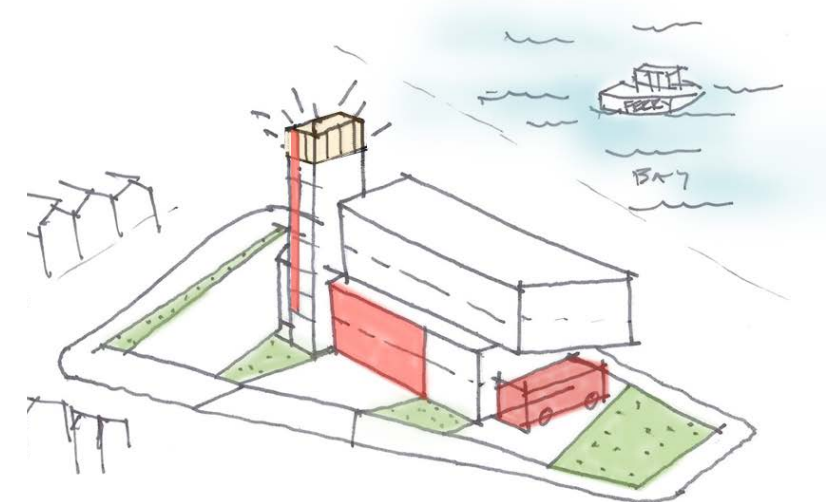
stacked volumes create a compact massing for efficient response time



massing divided in two and shifted to respond to building program and define outdoor decks / covered spaces



envelope is angled to respond to site geometry and the north facade is elongated to allow views to water



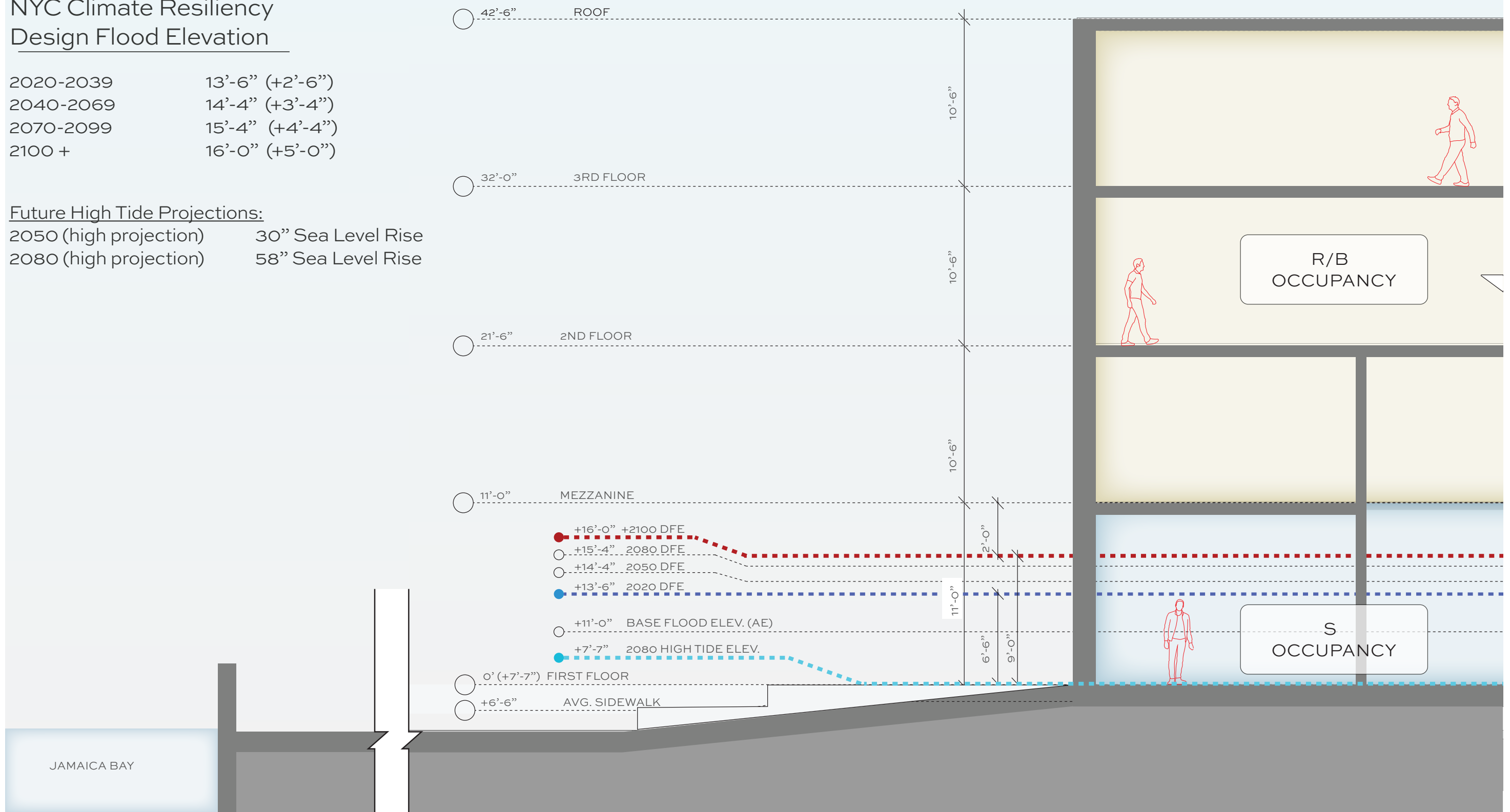
stair tower expressed on facade as a civic gesture towards the neighborhood and a visible symbol from the water and the NYC Ferry

NYC Climate Resiliency Design Flood Elevation

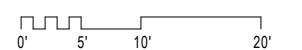
2020-2039	13'-6" (+2'-6")
2040-2069	14'-4" (+3'-4")
2070-2099	15'-4" (+4'-4")
2100 +	16'-0" (+5'-0")

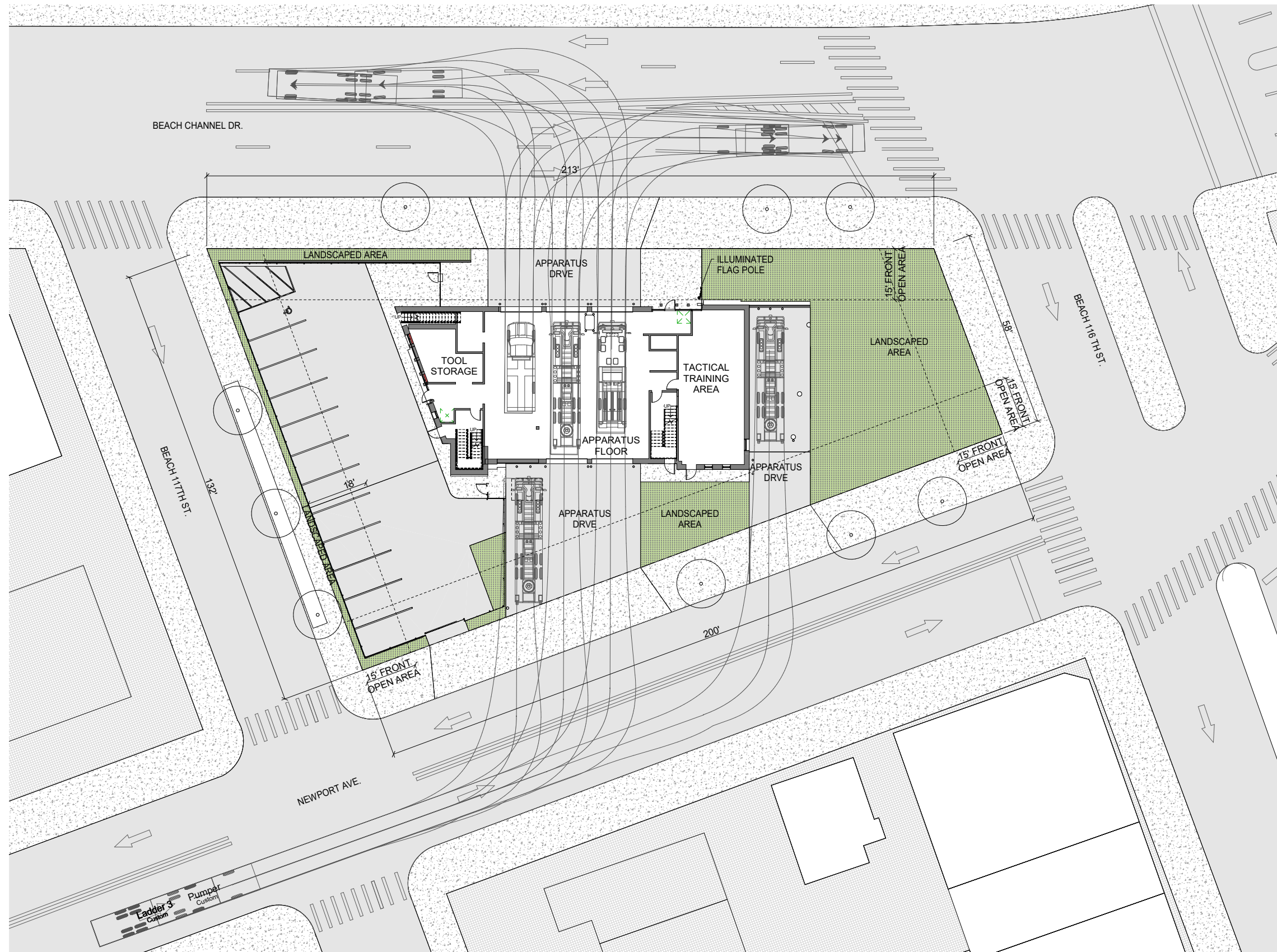
Future High Tide Projections:

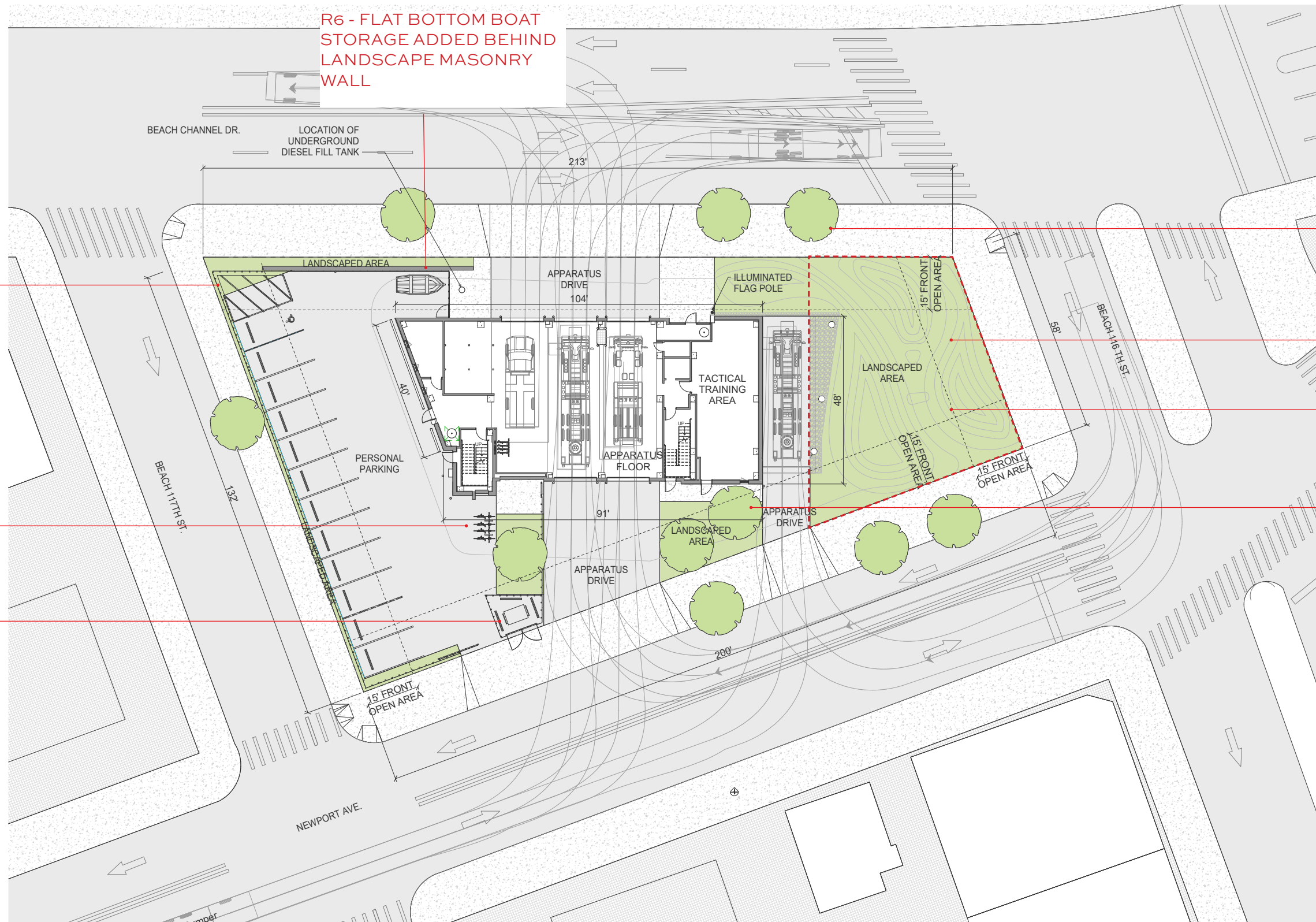
2050 (high projection)	30" Sea Level Rise
2080 (high projection)	58" Sea Level Rise



*floor levels are approximations for diagram purposes only







R6 - FLAT BOTTOM BOAT STORAGE ADDED BEHIND LANDSCAPE MASONRY WALL

R1 - VEGETATIVE FENCE ADDED TO DESIGN AROUND PARKING AREA

R2 - EXTERIOR BIKE PARKING ADDED

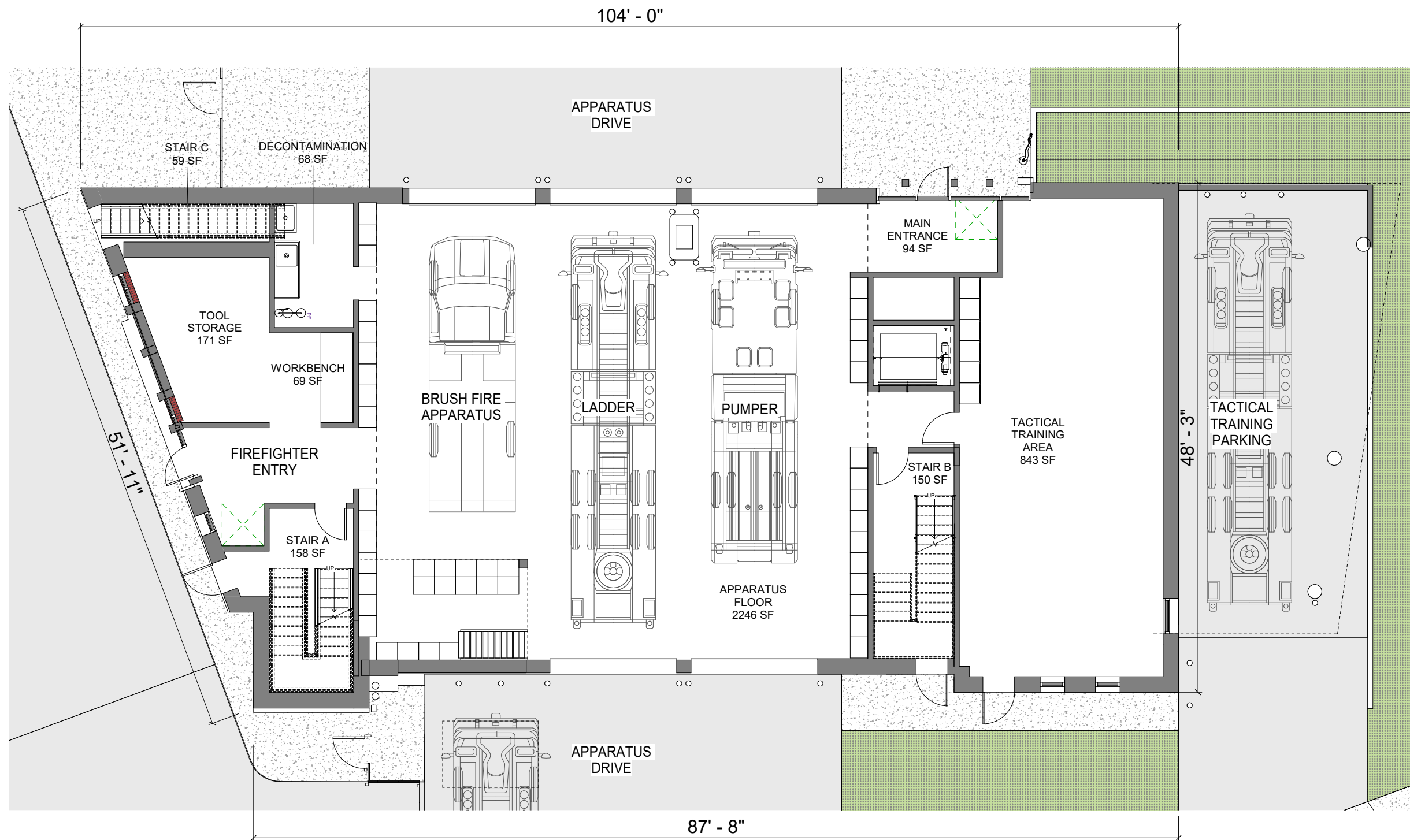
R3 - DUMPSTER AREA, ACCESS GATE, AND SURROUNDING FENCE ADDED

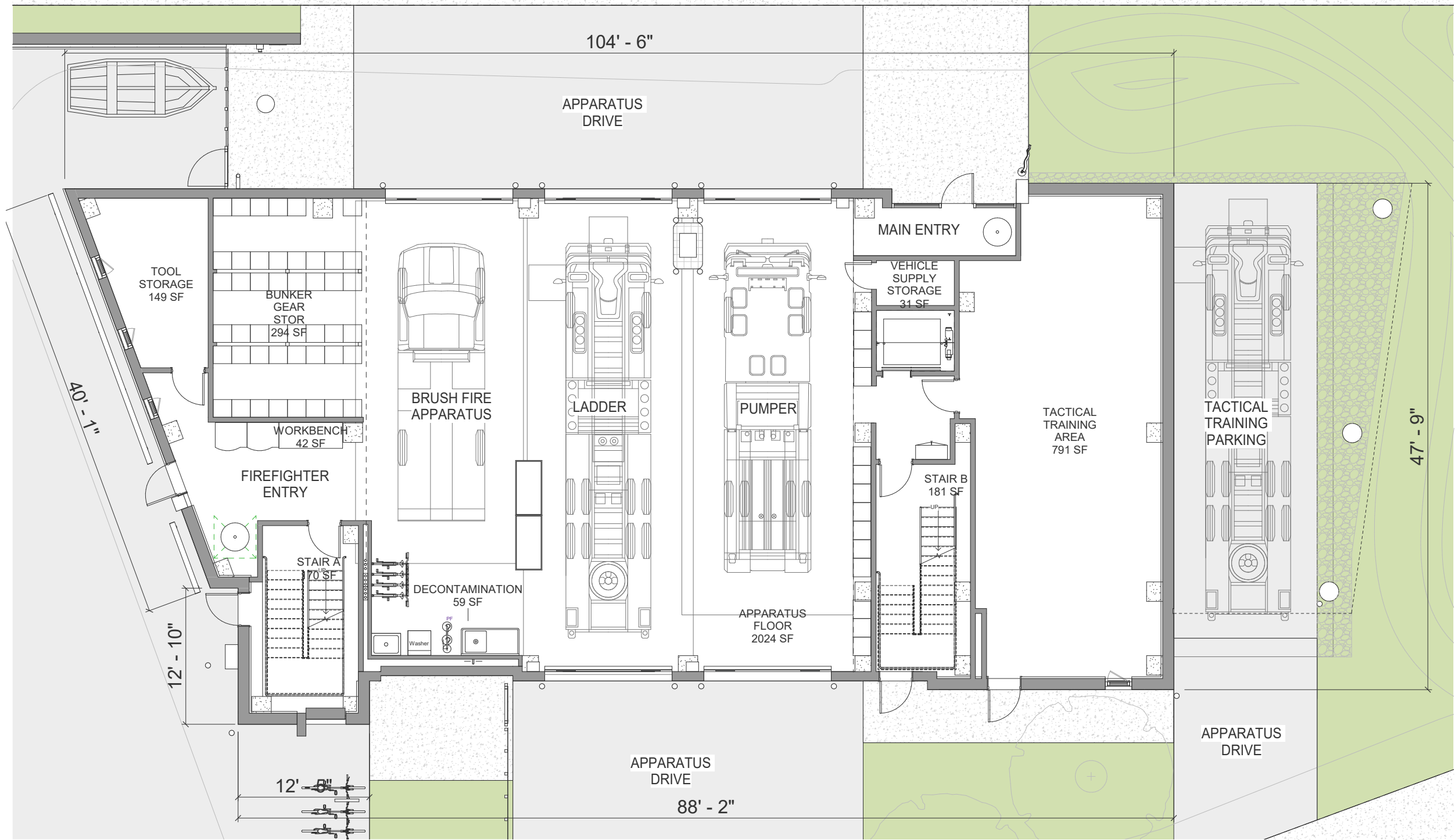
R4 - STREET TREE LOCATIONS REVISED. 7 NEW STREET TREES LOCATED ON SIDEWALK

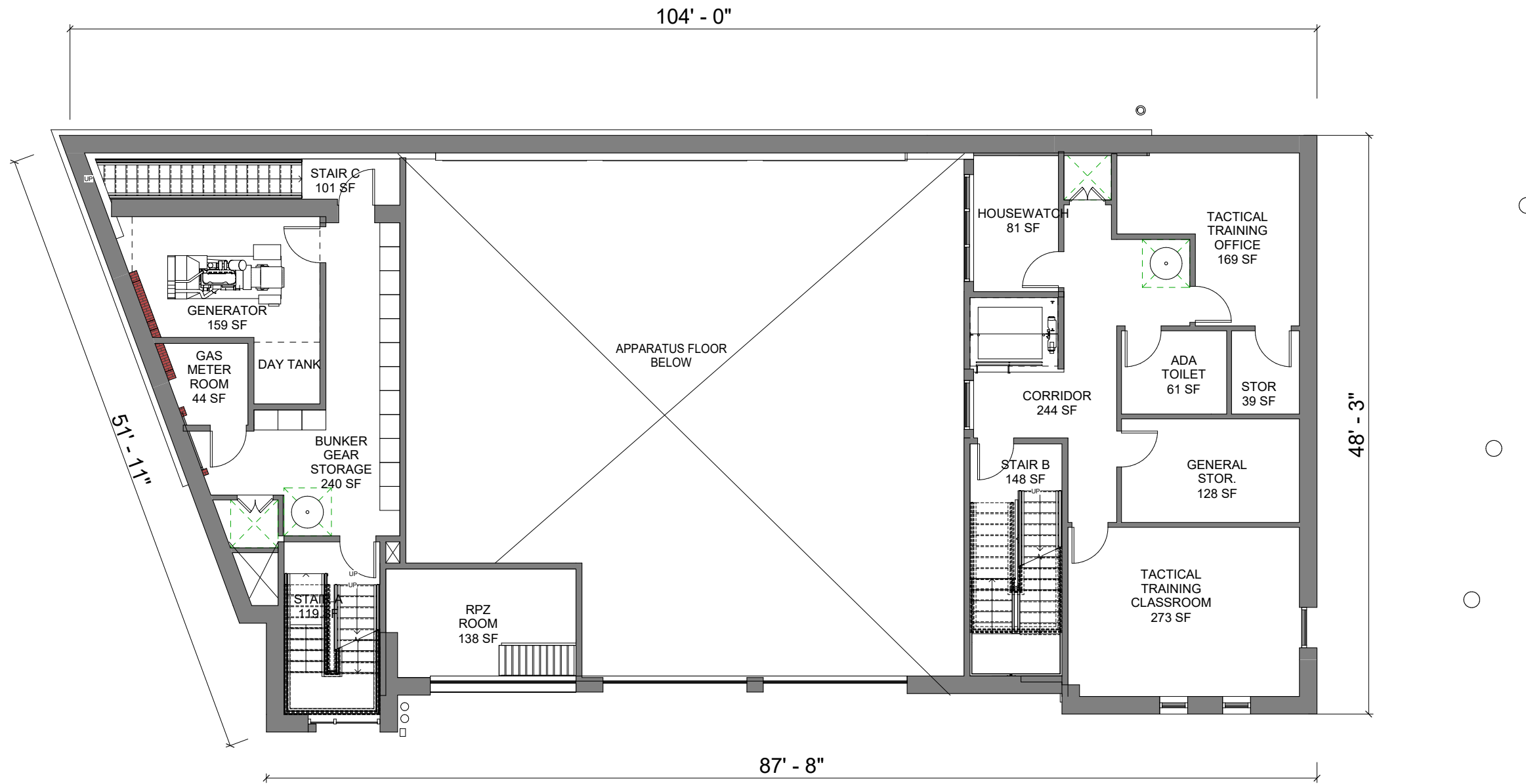
R5 - UPDATED EAST LANDSCAPE AREA WITH EARTH BERMS

% FOR ART LOCATION

3 NEW TREES LOCATED WITHIN PROPERTY LINE





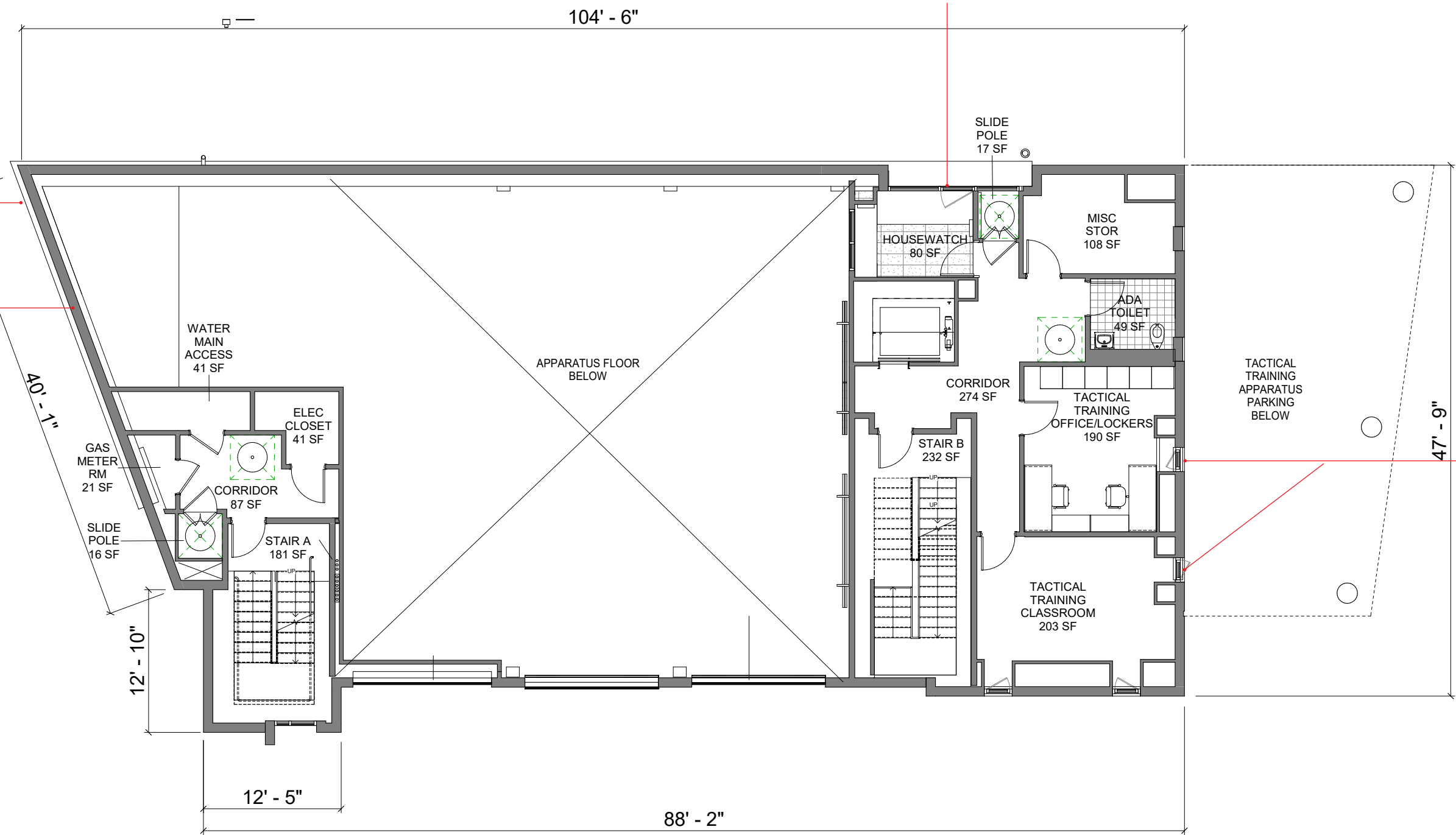


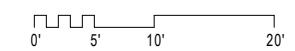
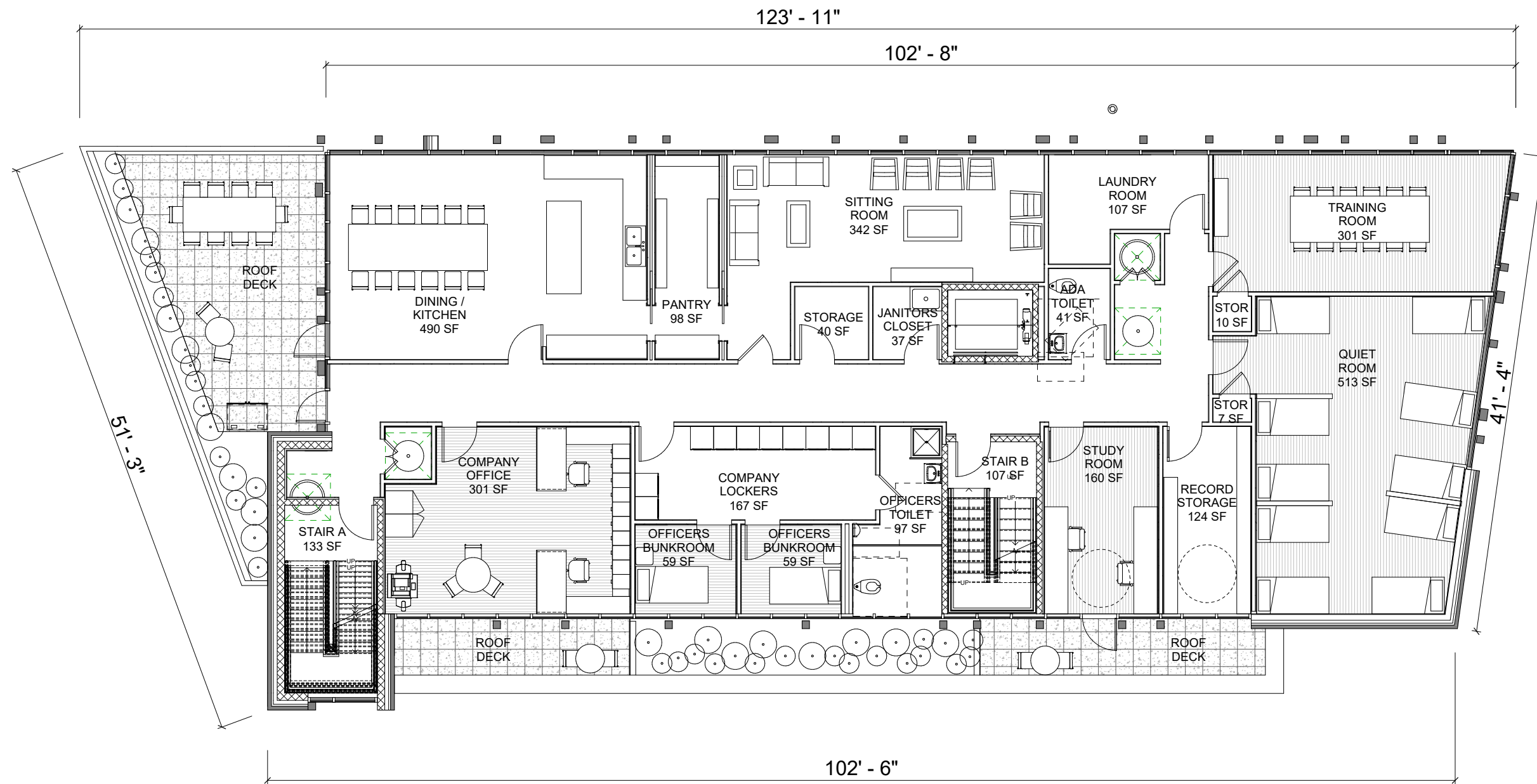
R7 - EGRESS DOOR
REMOVED DUE TO
STAIR REMOVAL

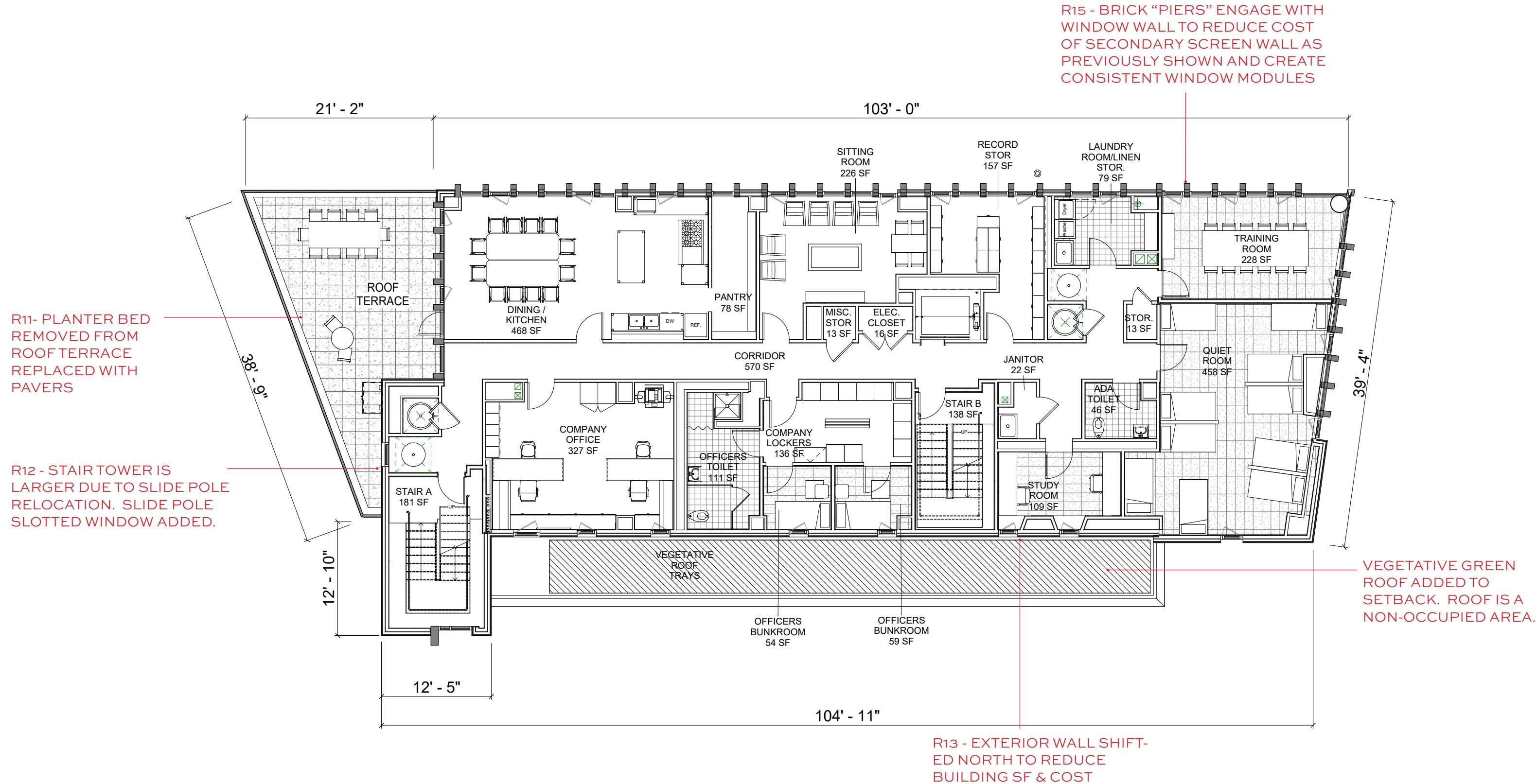
R8 - LOUVERS
REMOVED AND
REPLACED WITH
SOLID BRICK WALL

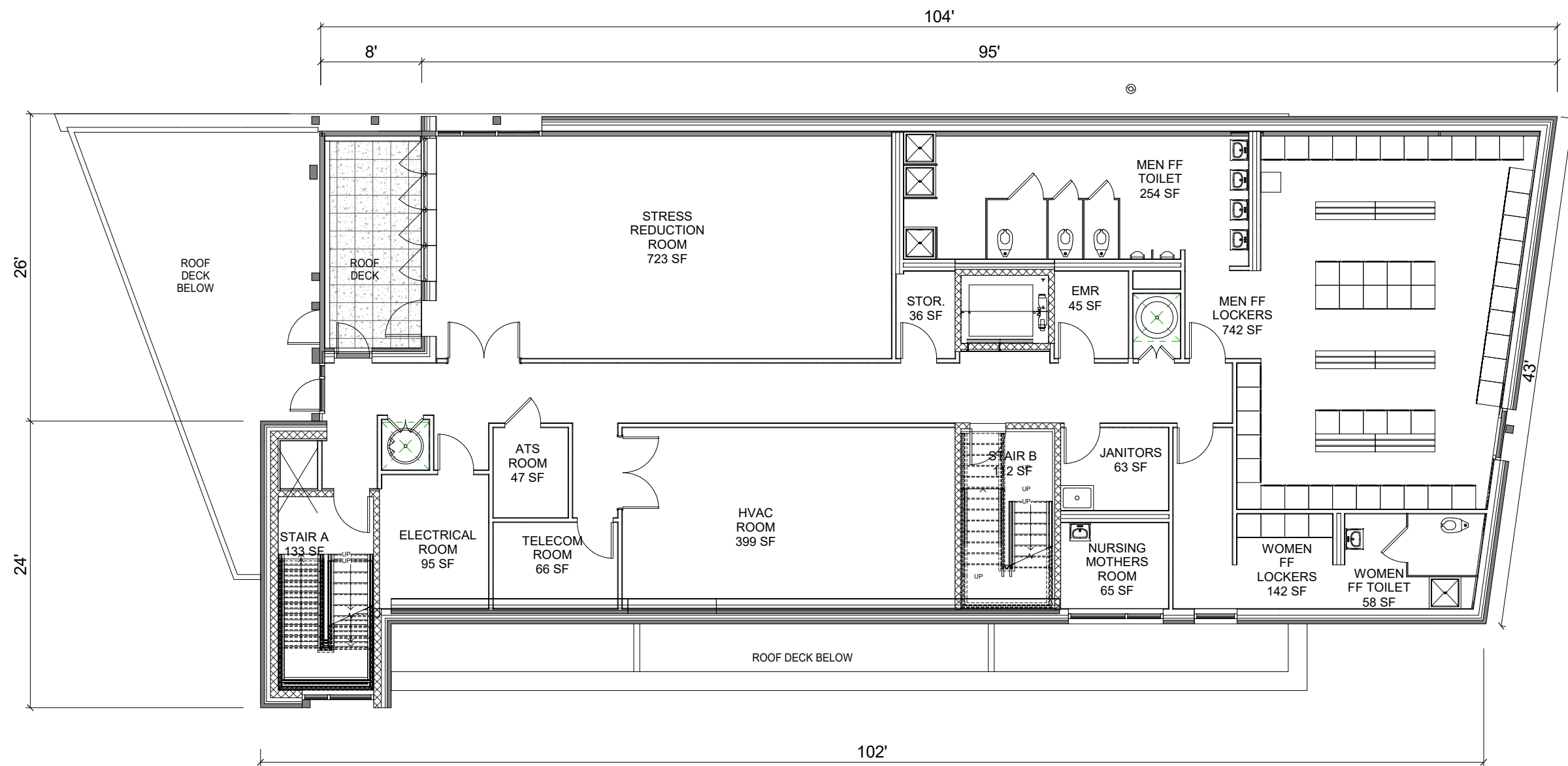
R10 - WINDOWS ADDED TO
HOUSEWATCH & SLIDE POLE
ABOVE ENTRANCE

R9 - WINDOWS
ADDED TO
TACTICAL
TRAINING OFFICE
& CLASSROOM



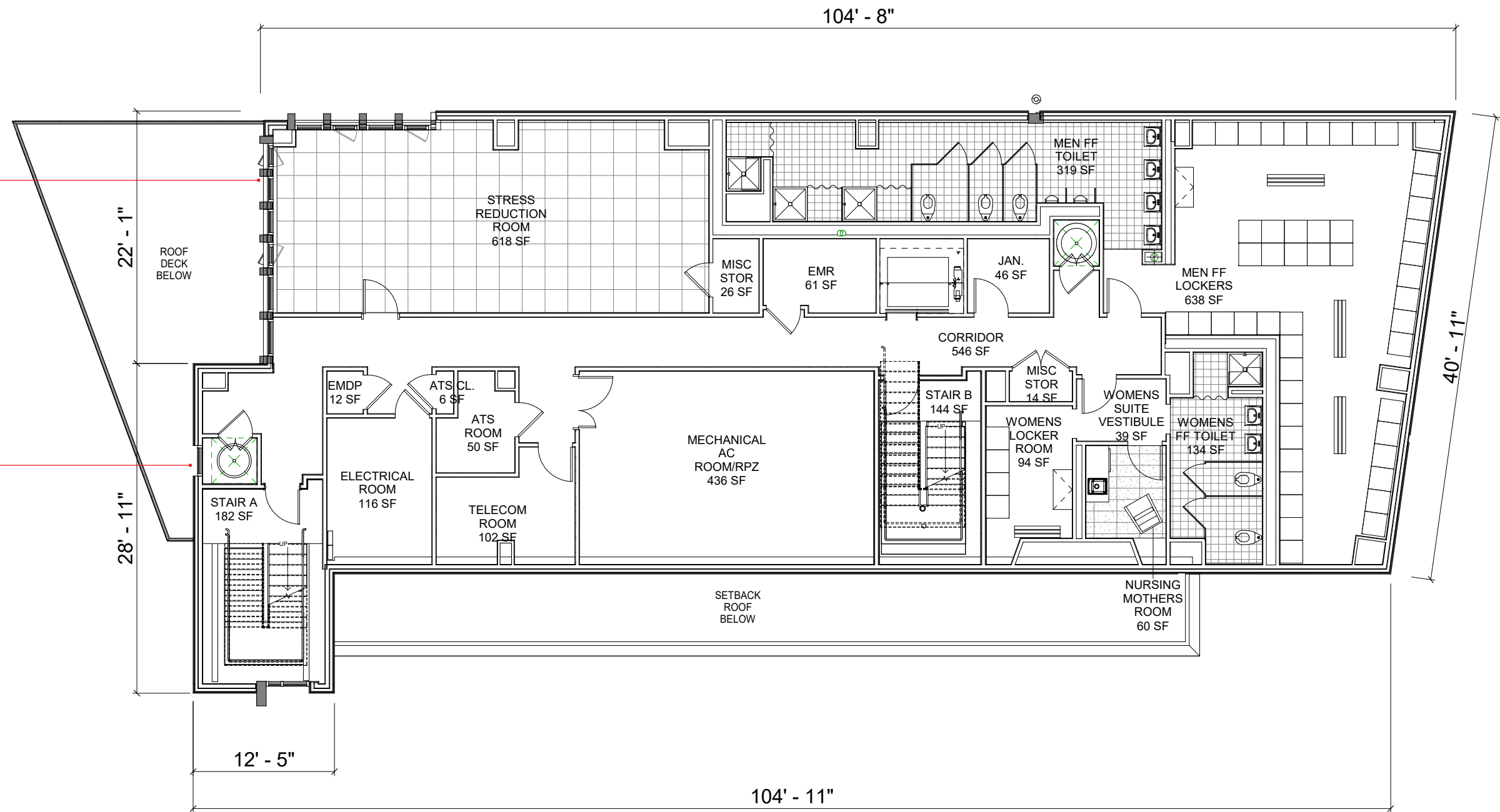






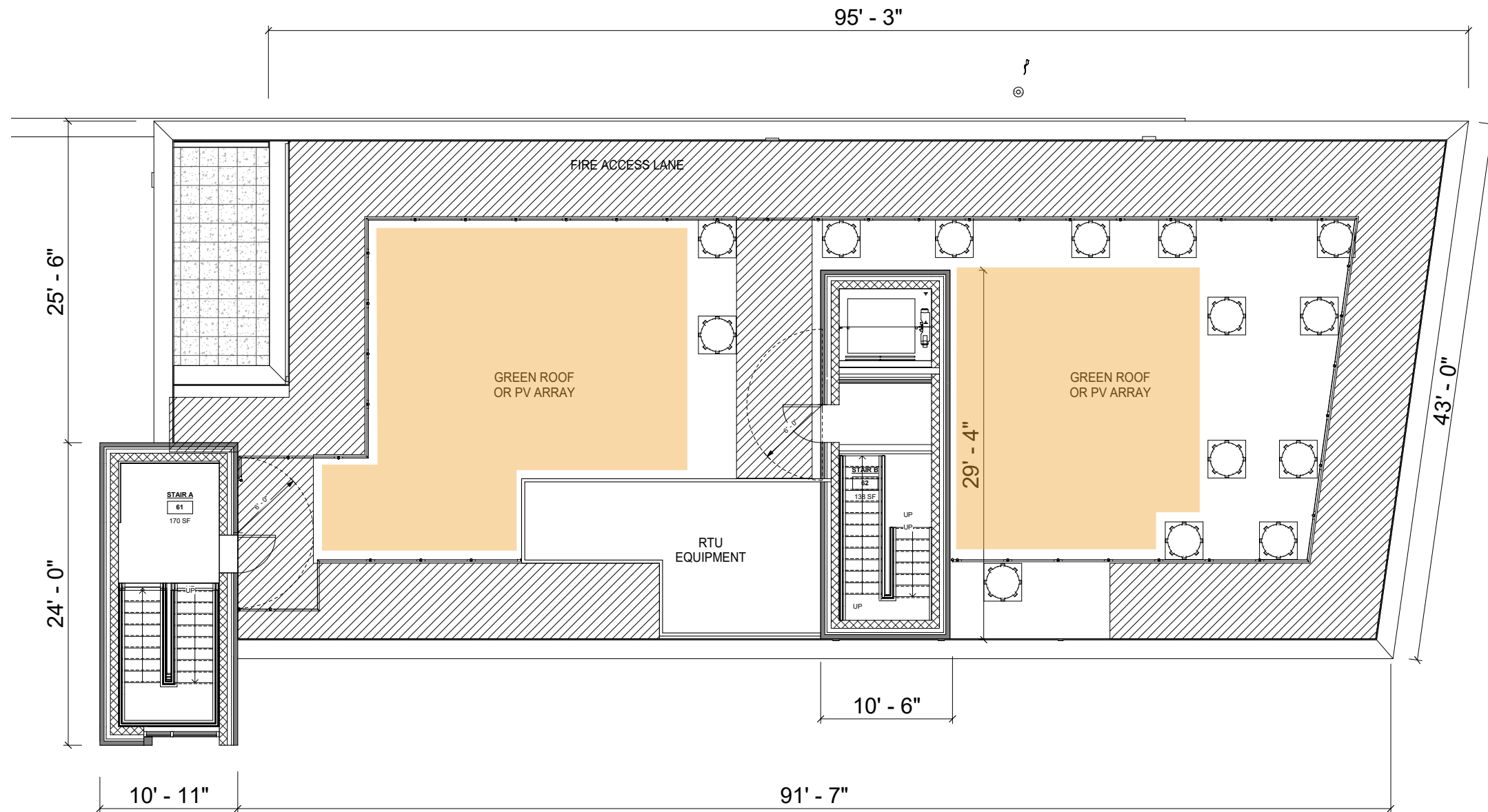
R16 - ROOF DECK
REMOVED, AREA ADDED
TO STRESS REDUCTION
ROOM

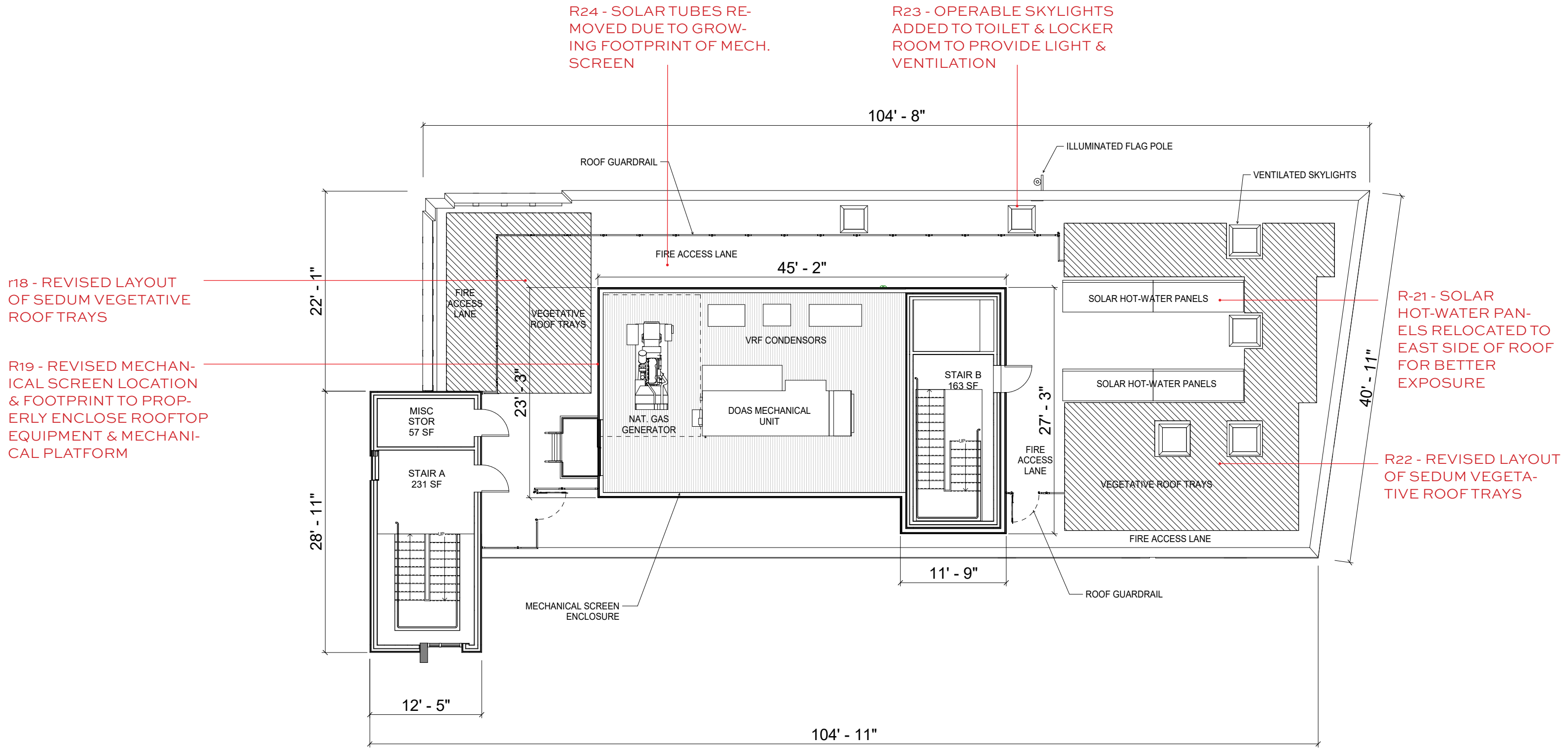
R17 - SLIDE POLE SLOTTED
WINDOW ADDED TO STAIR
TOWER

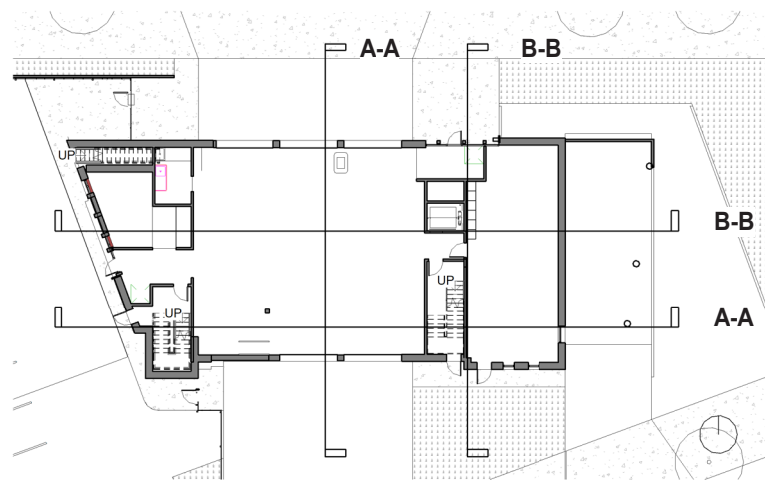


To comply with LL92/94, the station rooftop will be covered with one (or a combination) of the options listed below. These options will be studied with the project budget and appropriateness with the roof layout.

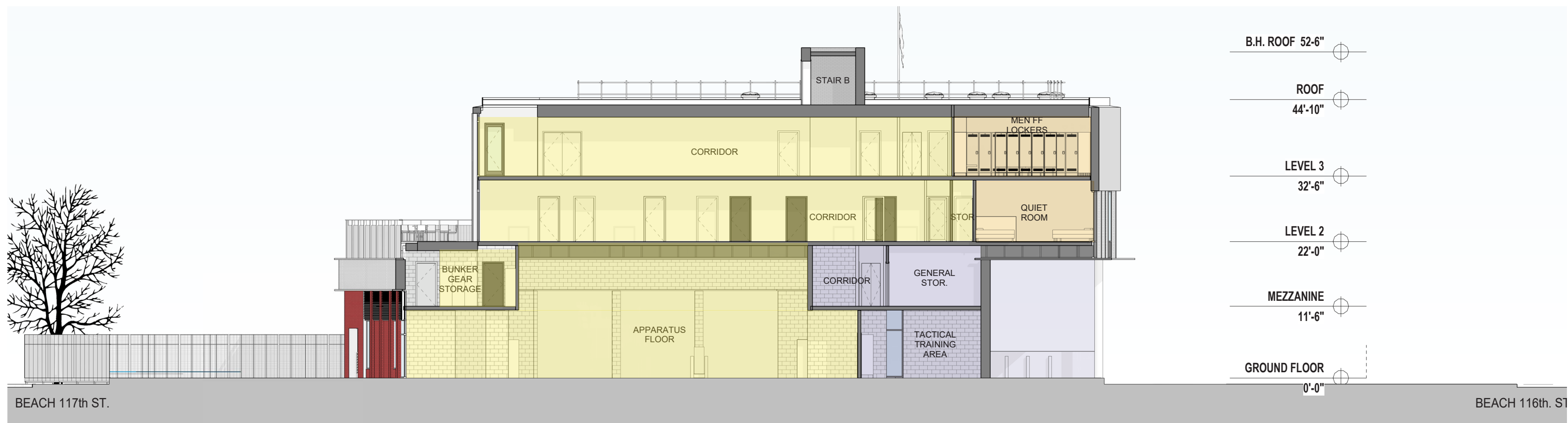
1. vegetative roof
2. photo-voltaic panels
3. solar hot-water panels

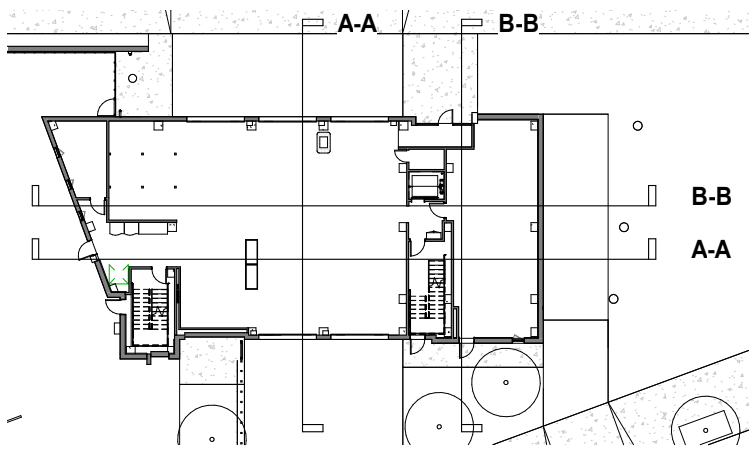






- Public Spaces
- Semi-Private Spaces
- Private Spaces
- Mechanical / Utility
- Tactical Training





R25 - REVISED MECHANICAL SCREEN ENCLOSURE. GENERATOR RELOCATED FROM MEZZANINE TO ROOF TO REDUCE COST.

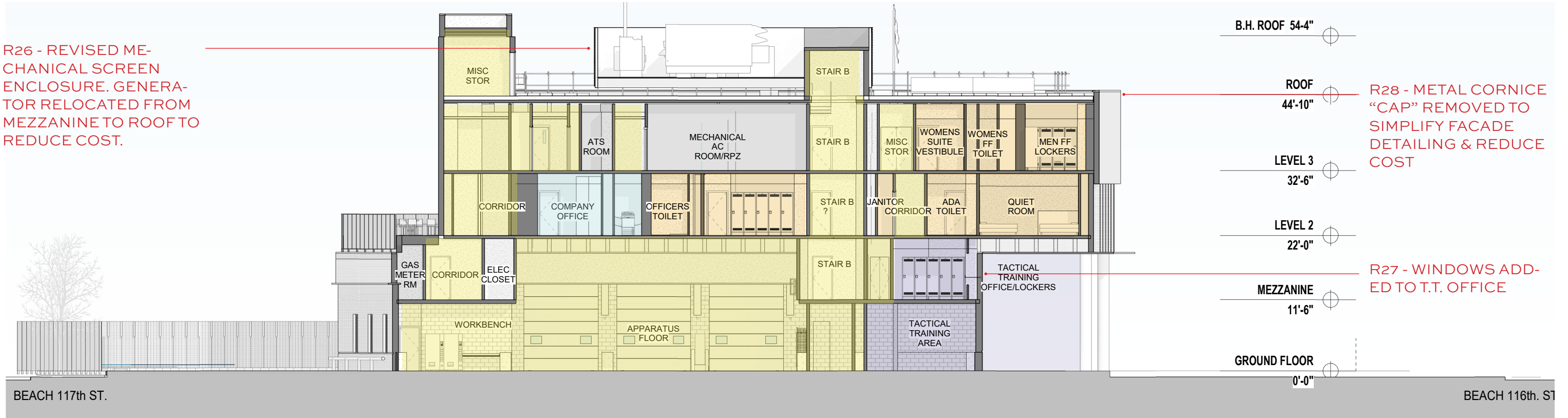
- Public Spaces
- Semi-Private Spaces
- Private Spaces
- Mechanical / Utility
- Tactical Training



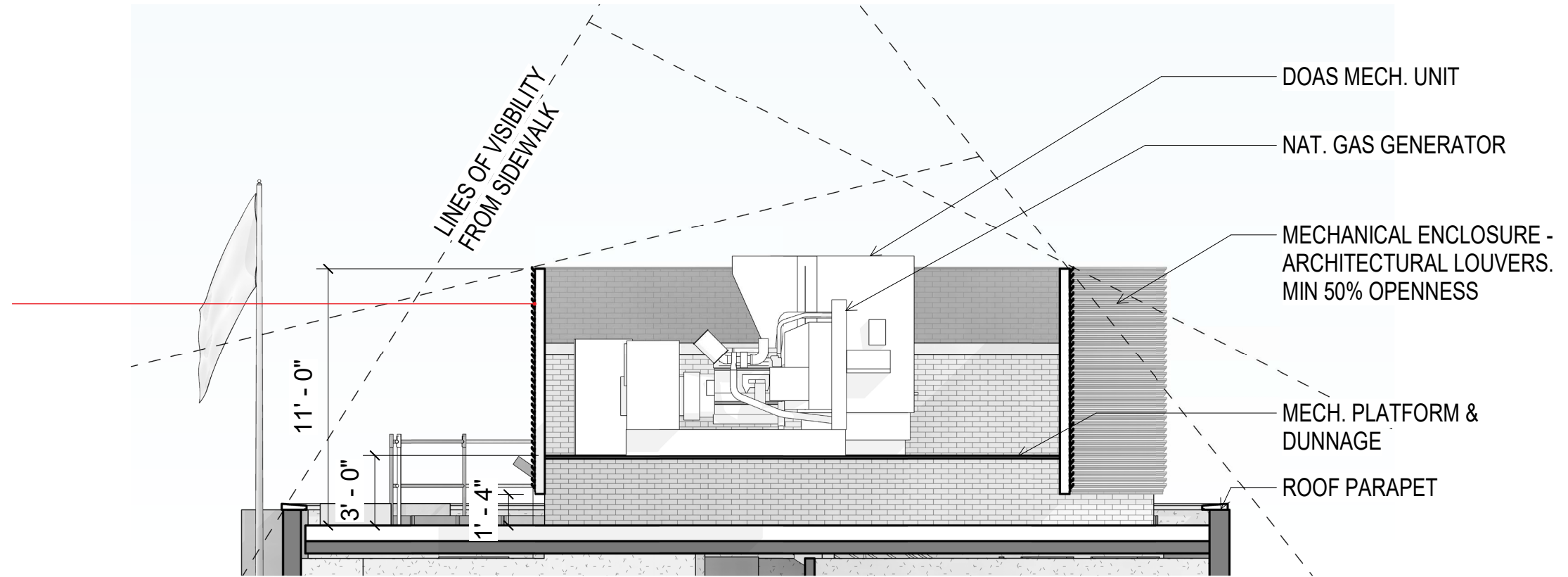
R26 - REVISED MECHANICAL SCREEN ENCLOSURE. GENERATOR RELOCATED FROM MEZZANINE TO ROOF TO REDUCE COST.

R28 - METAL CORNICE "CAP" REMOVED TO SIMPLIFY FACADE DETAILING & REDUCE COST

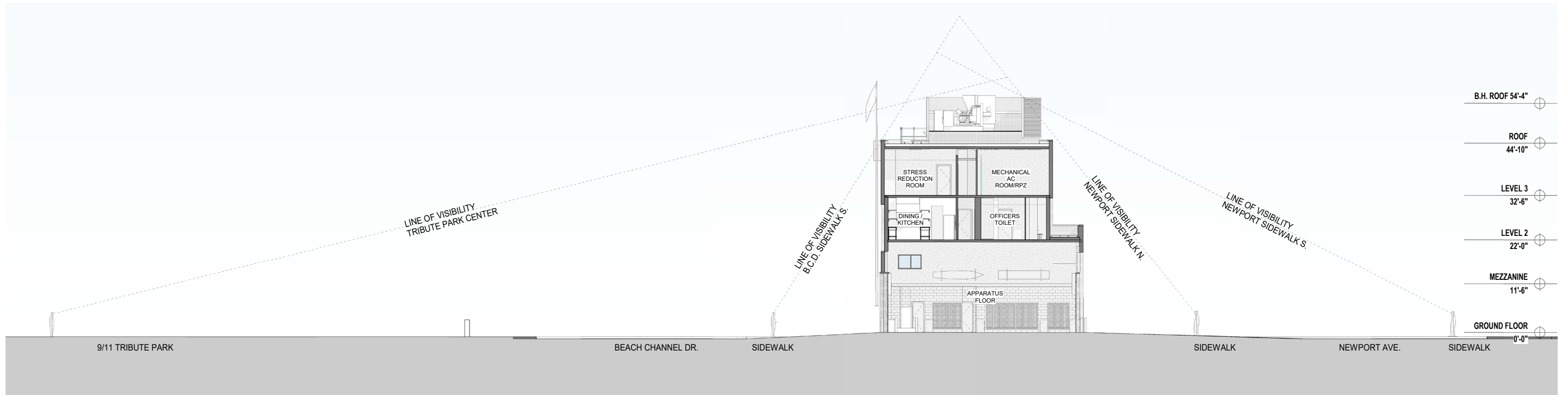
R27 - WINDOWS ADDED TO T.T. OFFICE



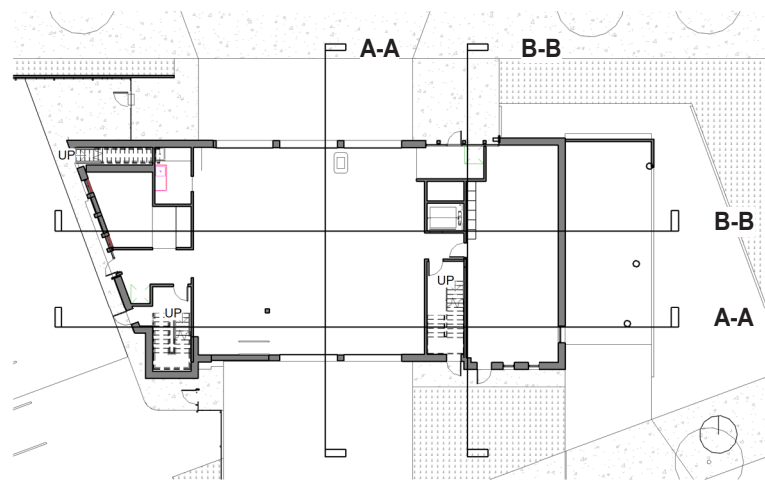
R27A - REVISED MECHANICAL SCREEN ENCLOSURE. SEE REVISIONS LIST FOR A MORE THOROUGH DESCRIPTION OF DESIGN.



1 - MECHANICAL SCREEN DIAGRAM

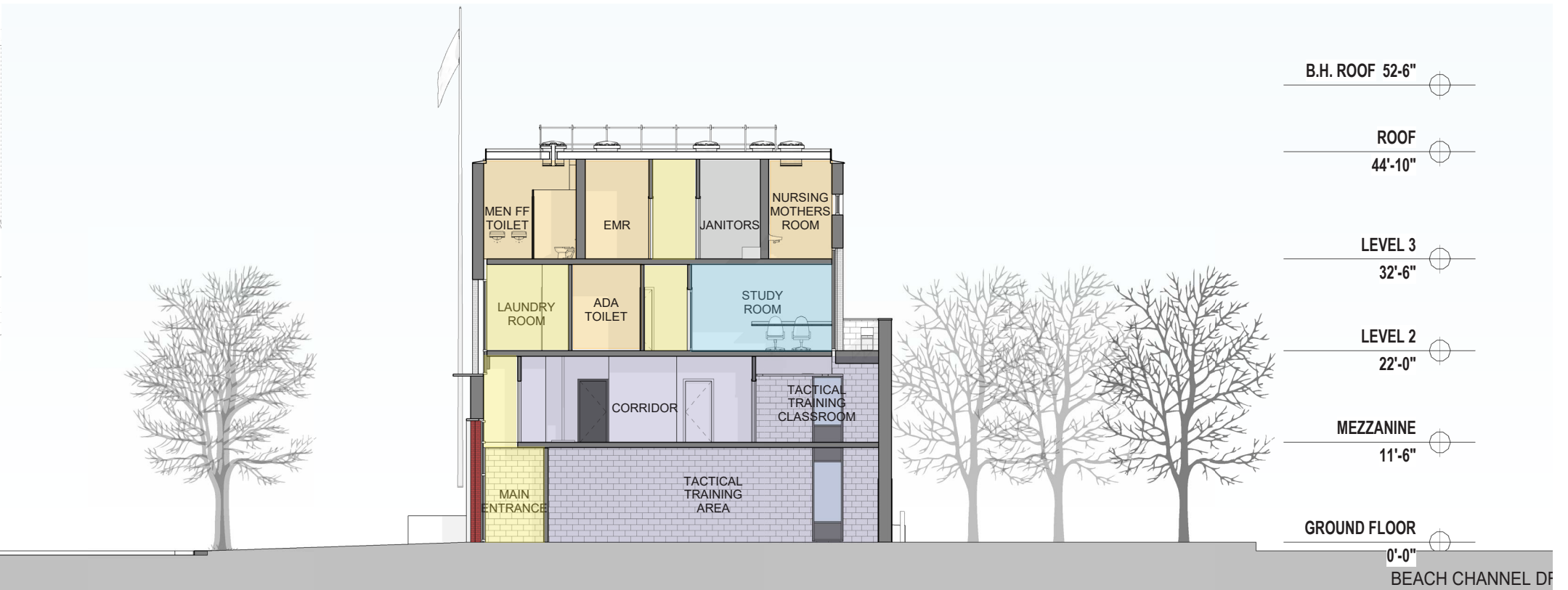


LINES OF PUBLIC VISIBILITY TO ROOFTOP EQUIPMENT



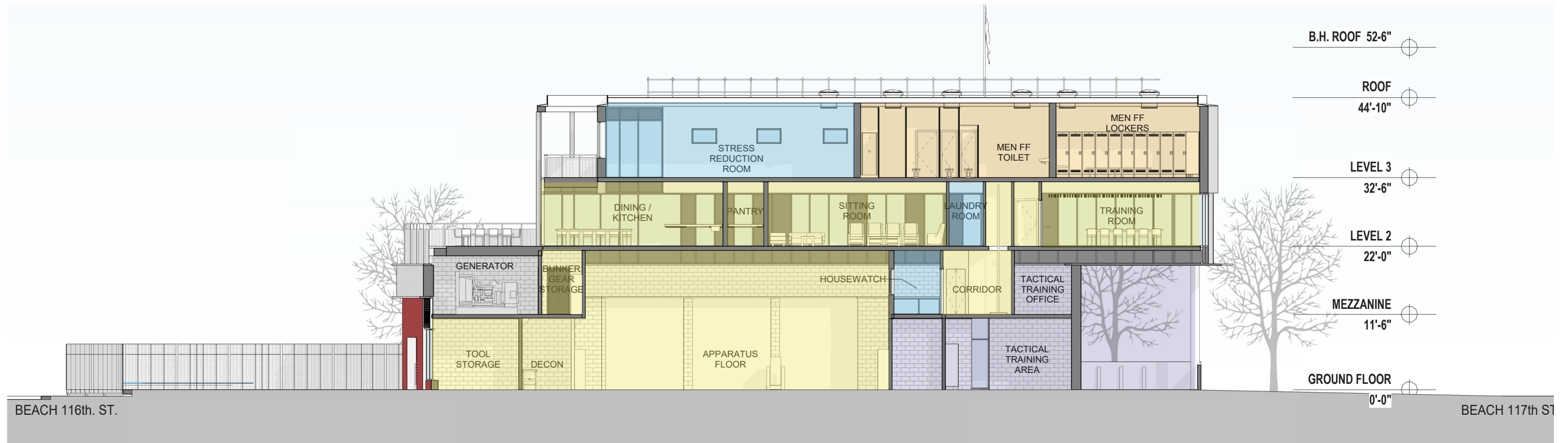
- Public Spaces
- Semi-Private Spaces
- Private Spaces
- Mechanical / Utility
- Tactical Training

NEWPORT AVE.



- B.H. ROOF 52'-6"
- ROOF 44'-10"
- LEVEL 3 32'-6"
- LEVEL 2 22'-0"
- MEZZANINE 11'-6"
- GROUND FLOOR 0'-0"

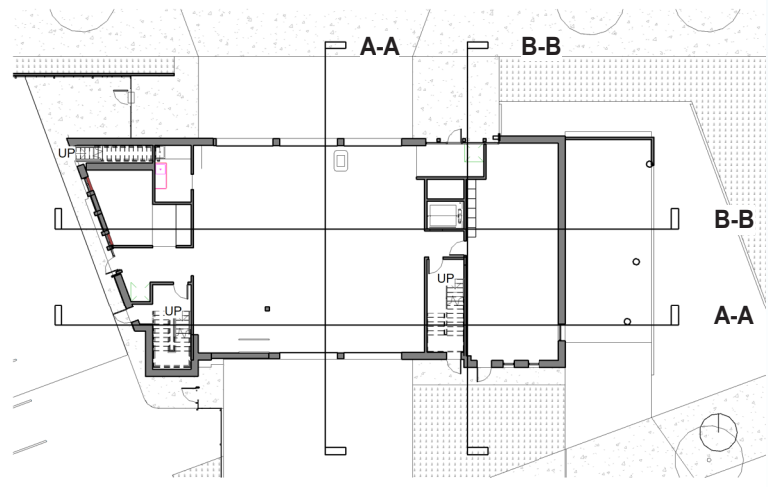
BEACH CHANNEL DR.



- B.H. ROOF 52'-6"
- ROOF 44'-10"
- LEVEL 3 32'-6"
- LEVEL 2 22'-0"
- MEZZANINE 11'-6"
- GROUND FLOOR 0'-0"

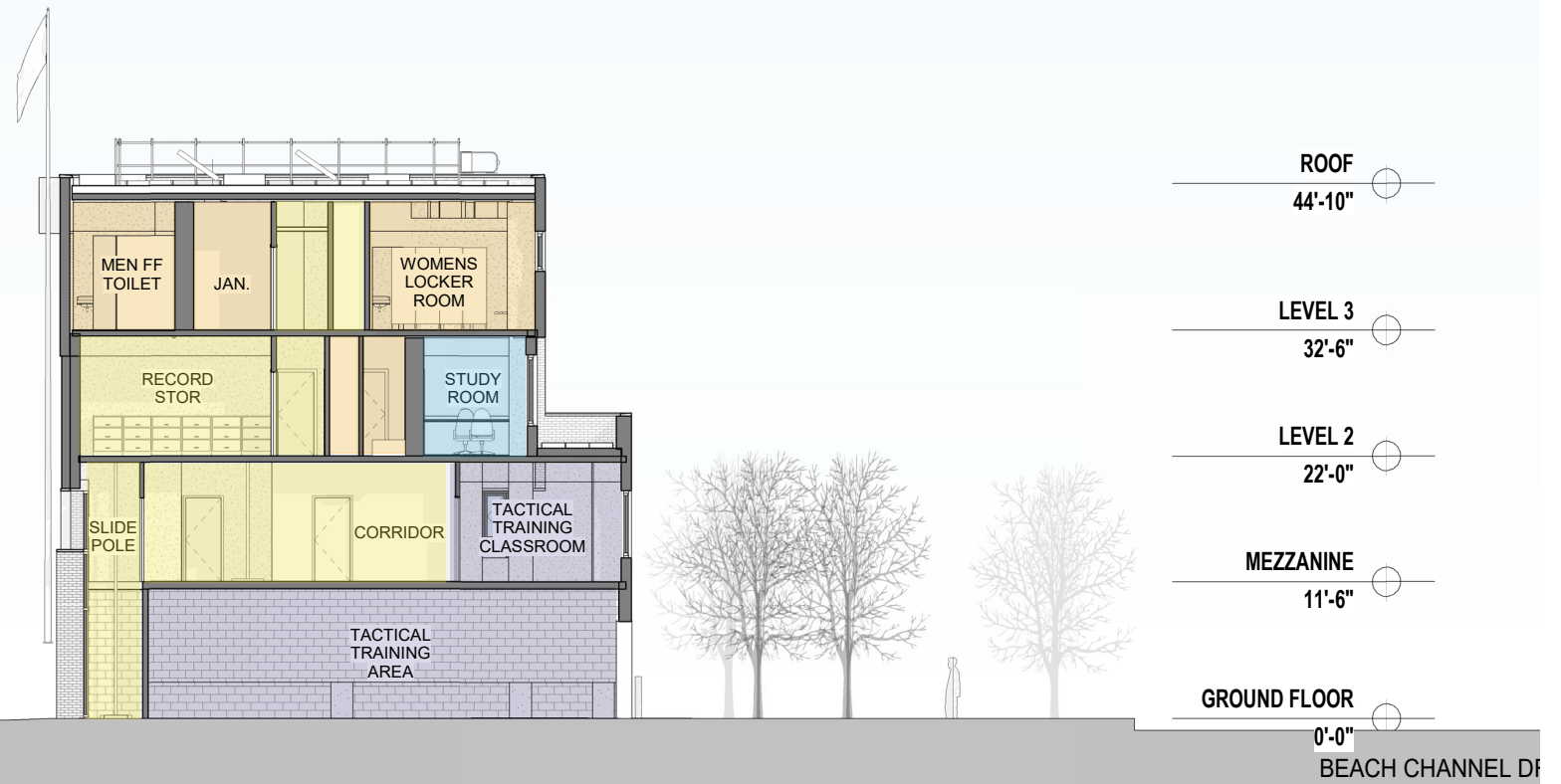
BEACH 116th. ST.

BEACH 117th ST



- Public Spaces
- Semi-Private Spaces
- Private Spaces
- Mechanical / Utility
- Tactical Training

NEWPORT AVE.



ROOF
44'-10"

LEVEL 3
32'-6"

LEVEL 2
22'-0"

MEZZANINE
11'-6"

GROUND FLOOR
0'-0"

BEACH CHANNEL DR

R29 - ROOF DECK AREA
ADDED TO STRESS
REDUCTION ROOM.
WINDOWS AND BRICK
PIER READING
EXTENDED

R-30 - MECH. LOUVERS
REMOVED FROM WEST
FACADE WHERE
GENERATOR WAS
PREVIOUSLY LOCATED



B.H. ROOF 54'-4"

ROOF
44'-10"

LEVEL 3
32'-6"

LEVEL 2
22'-0"

MEZZANINE
11'-6"

GROUND FLOOR
0'-0"

BEACH 116th. ST.

BEACH 117th ST



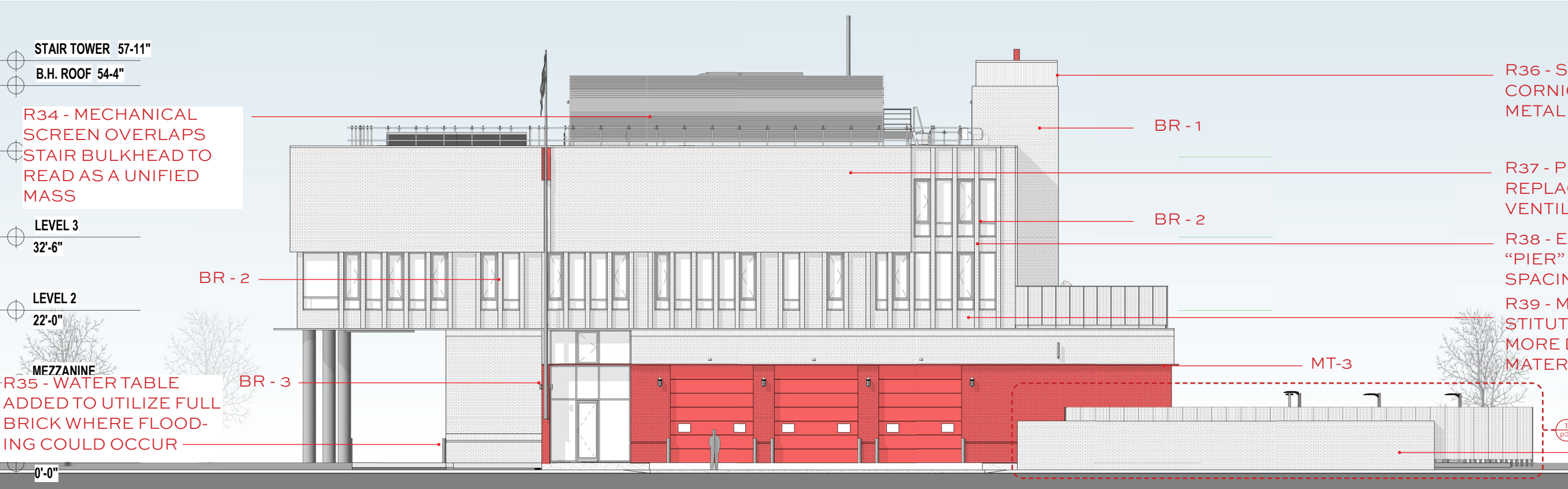
① SOUTH ELEVATION
1/8" = 1'-0"



② NORTH ELEVATION
1/8" = 1'-0"



① SOUTH ELEVATION
1/8" = 1'-0"



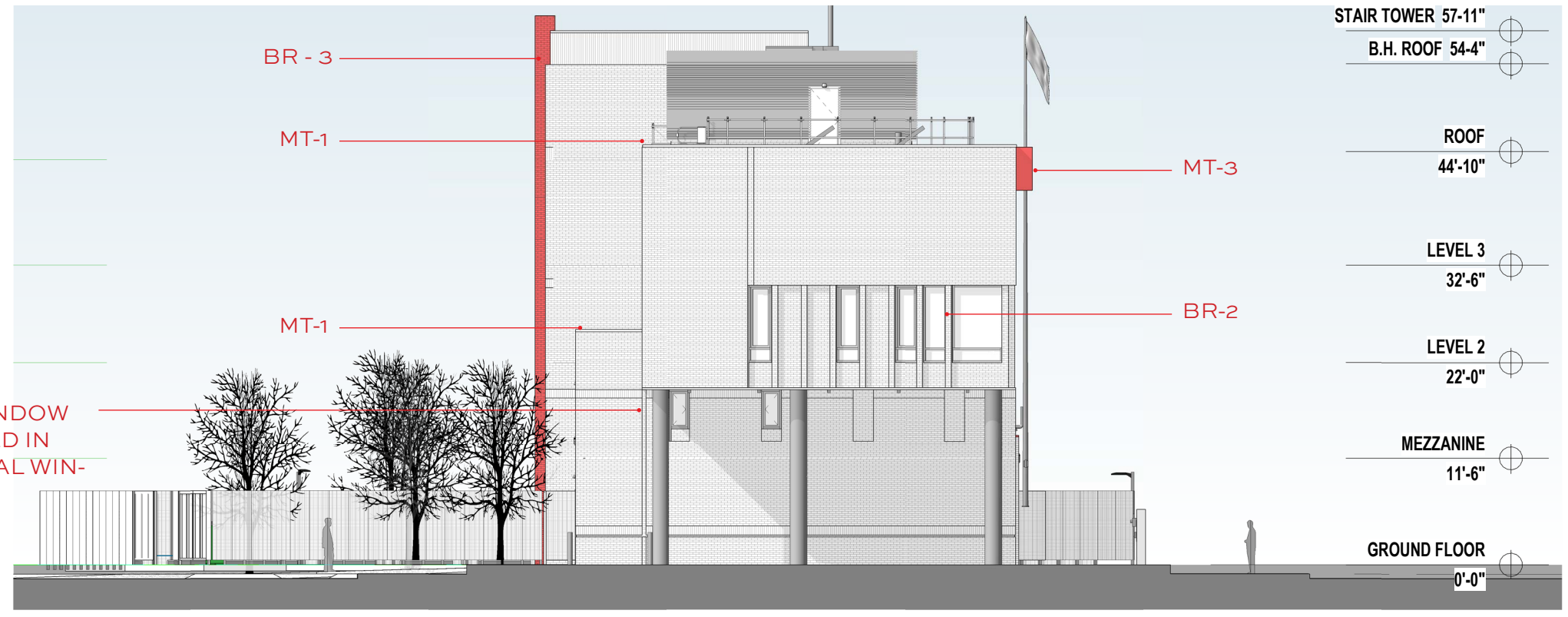
② NORTH ELEVATION
1/8" = 1'-0"



② EAST ELEVATION
1/8" = 1'-0"



① WEST ELEVATION
1/8" = 1'-0"



R40 - LARGE WINDOW "SLOT" REMOVED IN LIEU OF VERTICAL WINDOWS AT MEZZ.

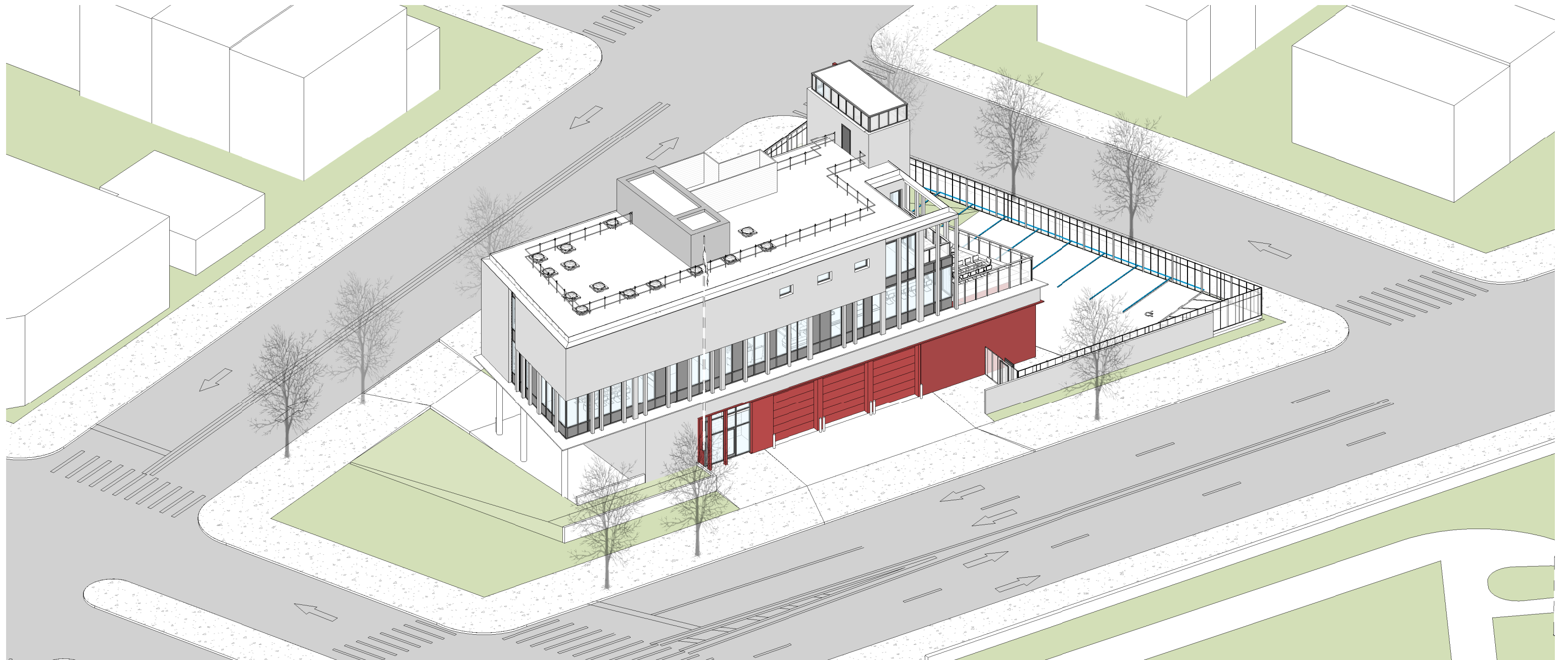
② EAST ELEVATION
1/8" = 1'-0"



R41 - SLOTTED WINDOW ADDED AT SLIDE POLE

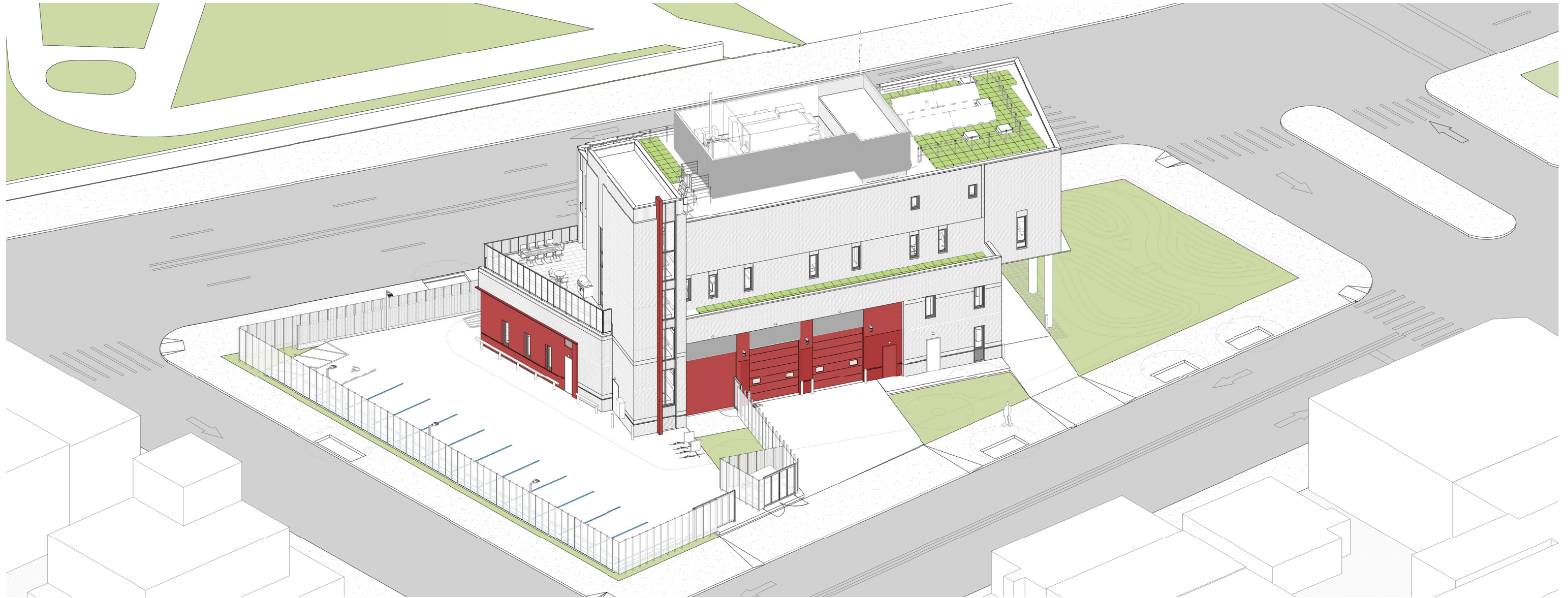
R42 - ROOF DECK AREA ADDED TO STRESS REDUCTION ROOM. BRICK "PIER" SPACING REVISED

① WEST ELEVATION
1/8" = 1'-0"





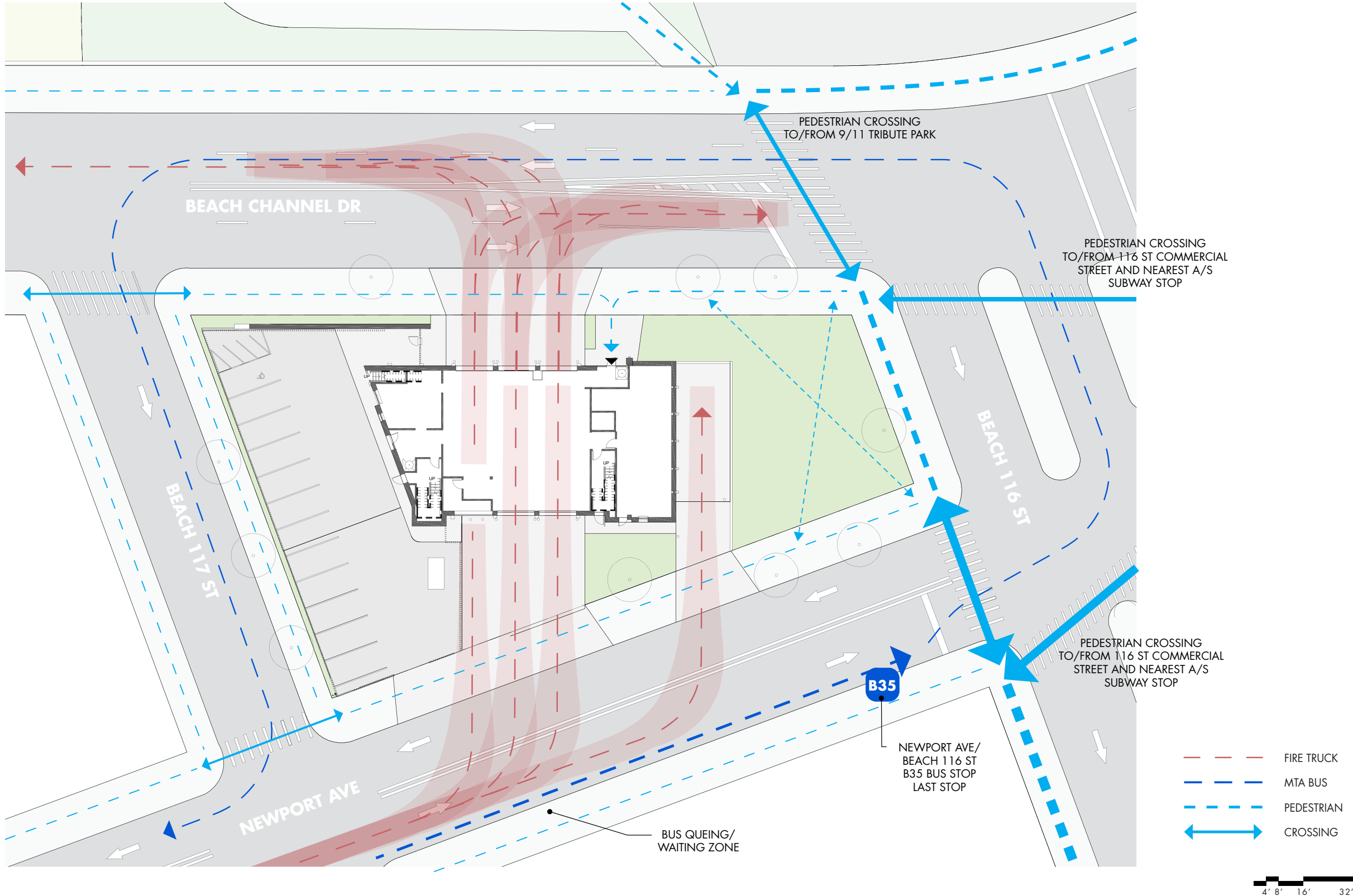




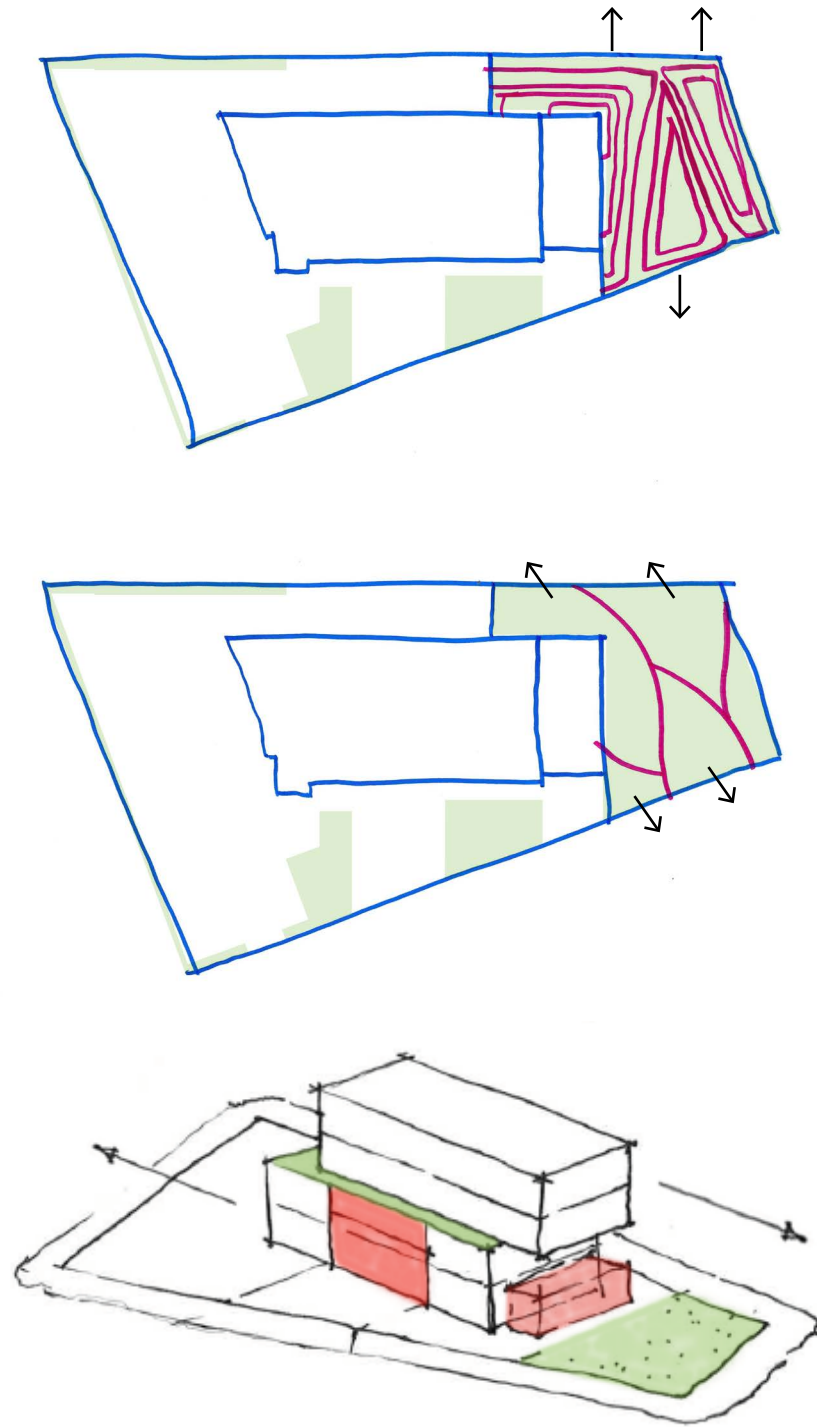
LANDSCAPE DESIGN



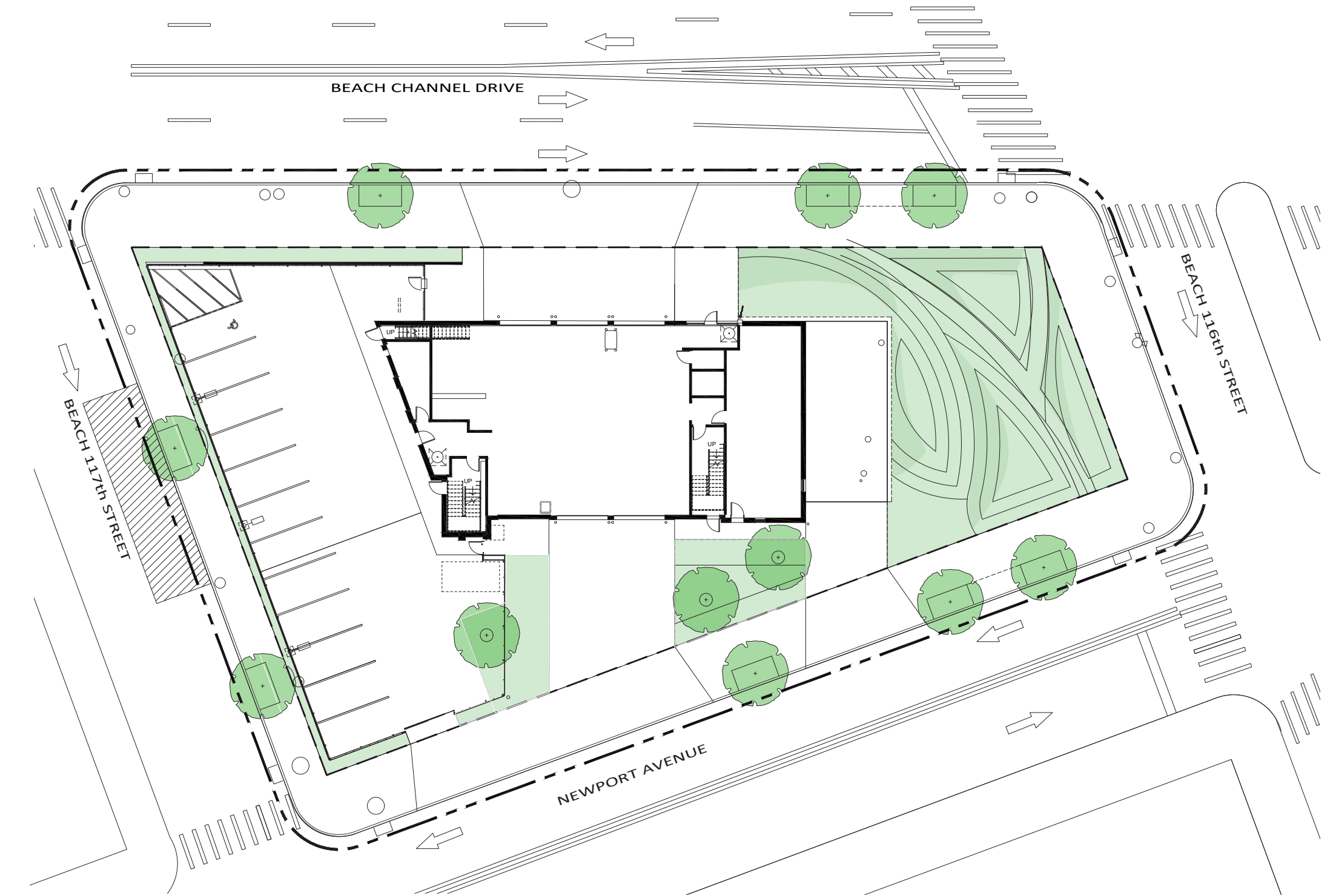
SITE ANALYSIS - CIRCULATION & ACCESS



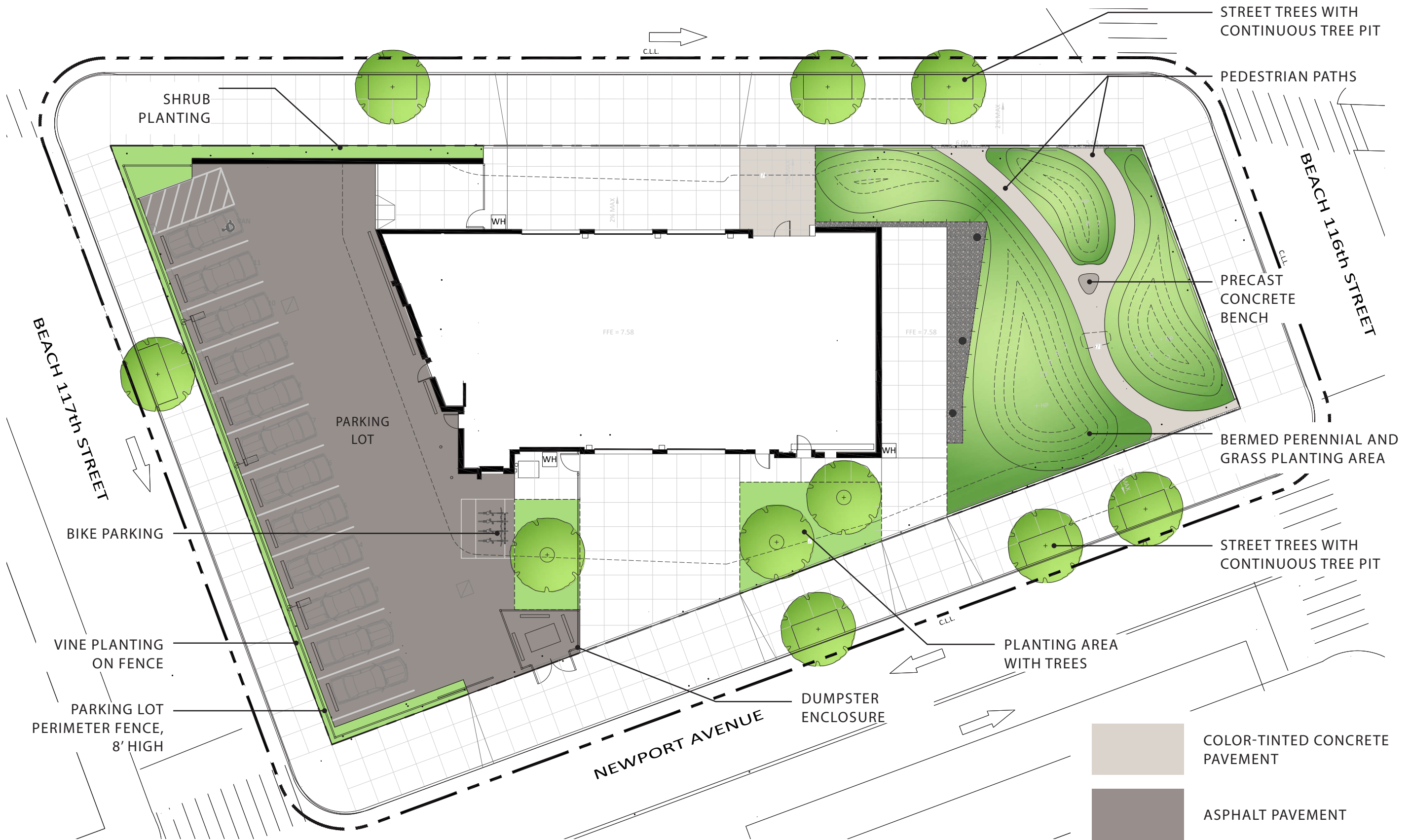
LANDFORM CONCEPT

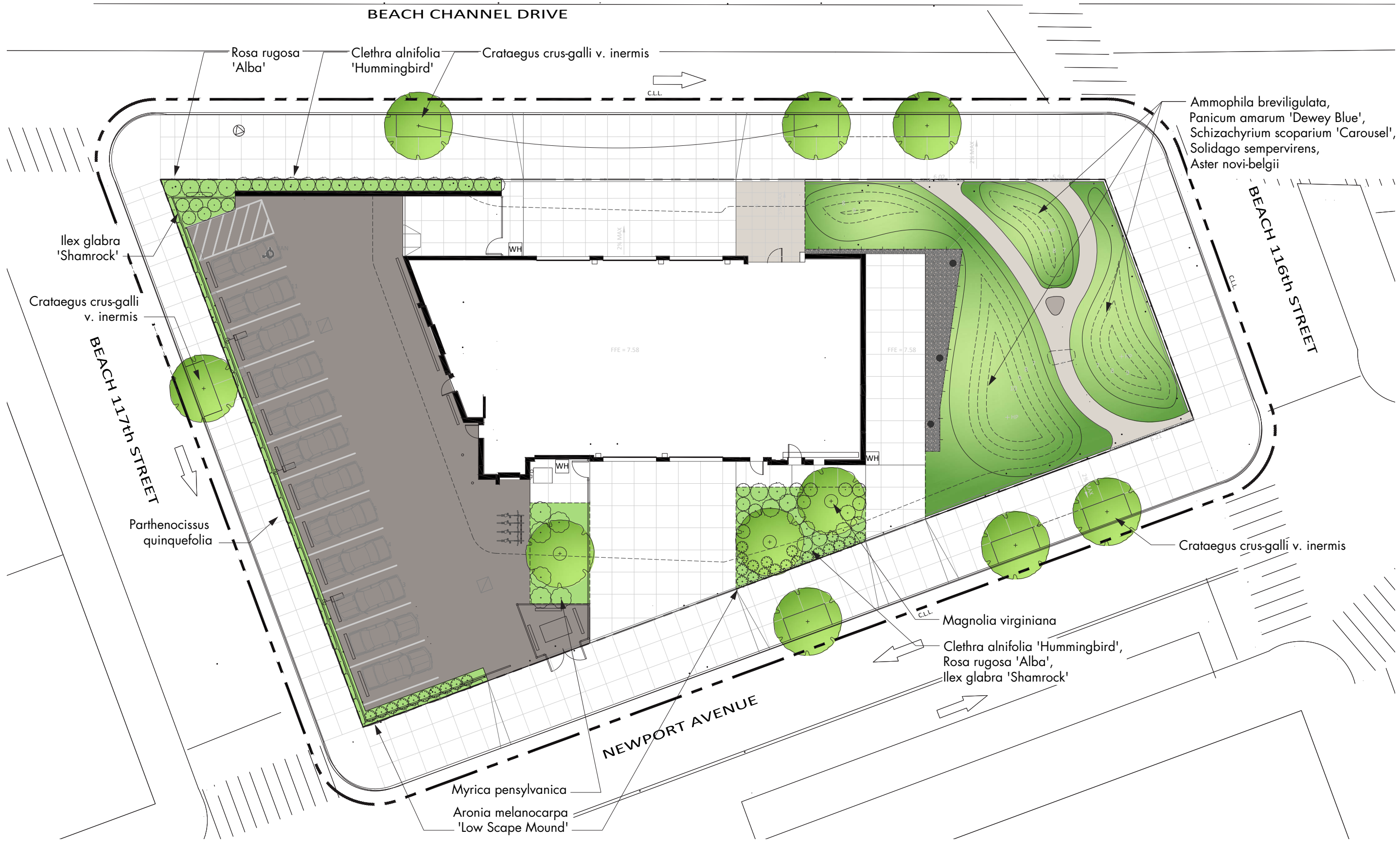


massing divided into two and shifted to respond to site conditions and define outdoor spaces



CONCEPT LANDSCAPE PLAN DESIGN





STREET TREES



Thornless Cockspur Hawthorn
Crataegus crus-galli v. inermis

FENCE VINES



Virginia Creeper
Parthenocissus quinquefolia



SHRUBS



Beach Rose
Rosa rugosa 'Alba'



Summersweet
Clethra alnifolia 'Hummingbird'

TREES + SHRUBS



Sweetbay Magnolia
Magnolia virginiana



Northern Bayberry
Myrica pensylvanica



Shamrock Inkberry
Ilex glabra 'Shamrock'

PERENNIALS



Seaside Goldenrod
Solidago sempervirens



New York Aster
Aster novi-belgii



Chokeberry
Aronia melanocarpa 'Low Scape Mound'

GRASSES



Bitter Switchgrass
Panicum amarum 'Dewey Blue'

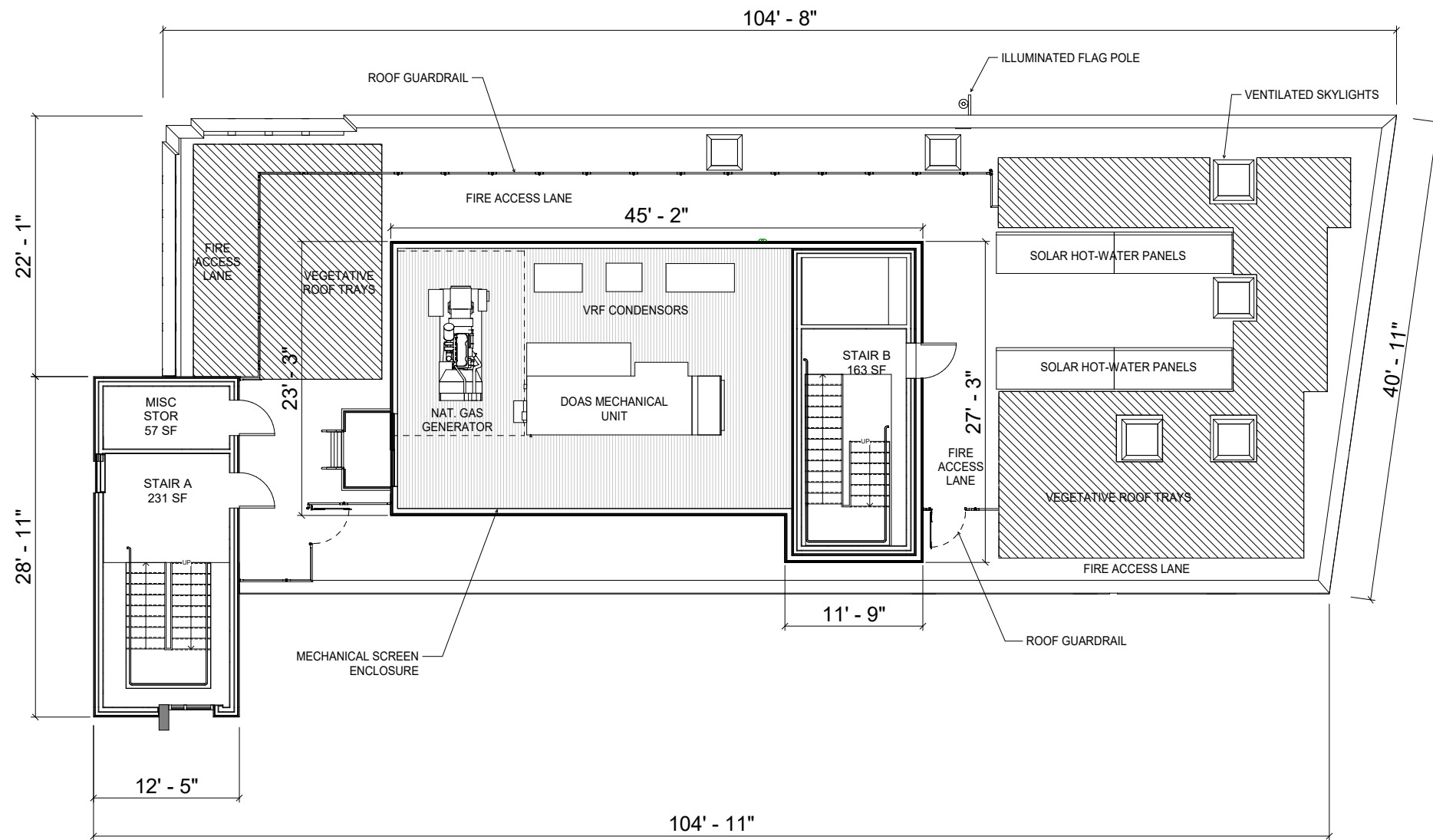


American Beach Grass
Ammophila breviligulata



Carousel Little Bluestem
Schizachyrium scoparium 'Carousel'

GREEN ROOF - SEDUM VEGETATIVE TRAYS



Sedum mix

% FOR ART
ARTIST - ANDREA BELAG





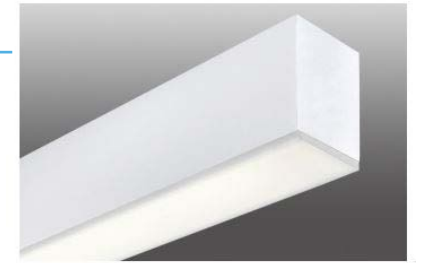
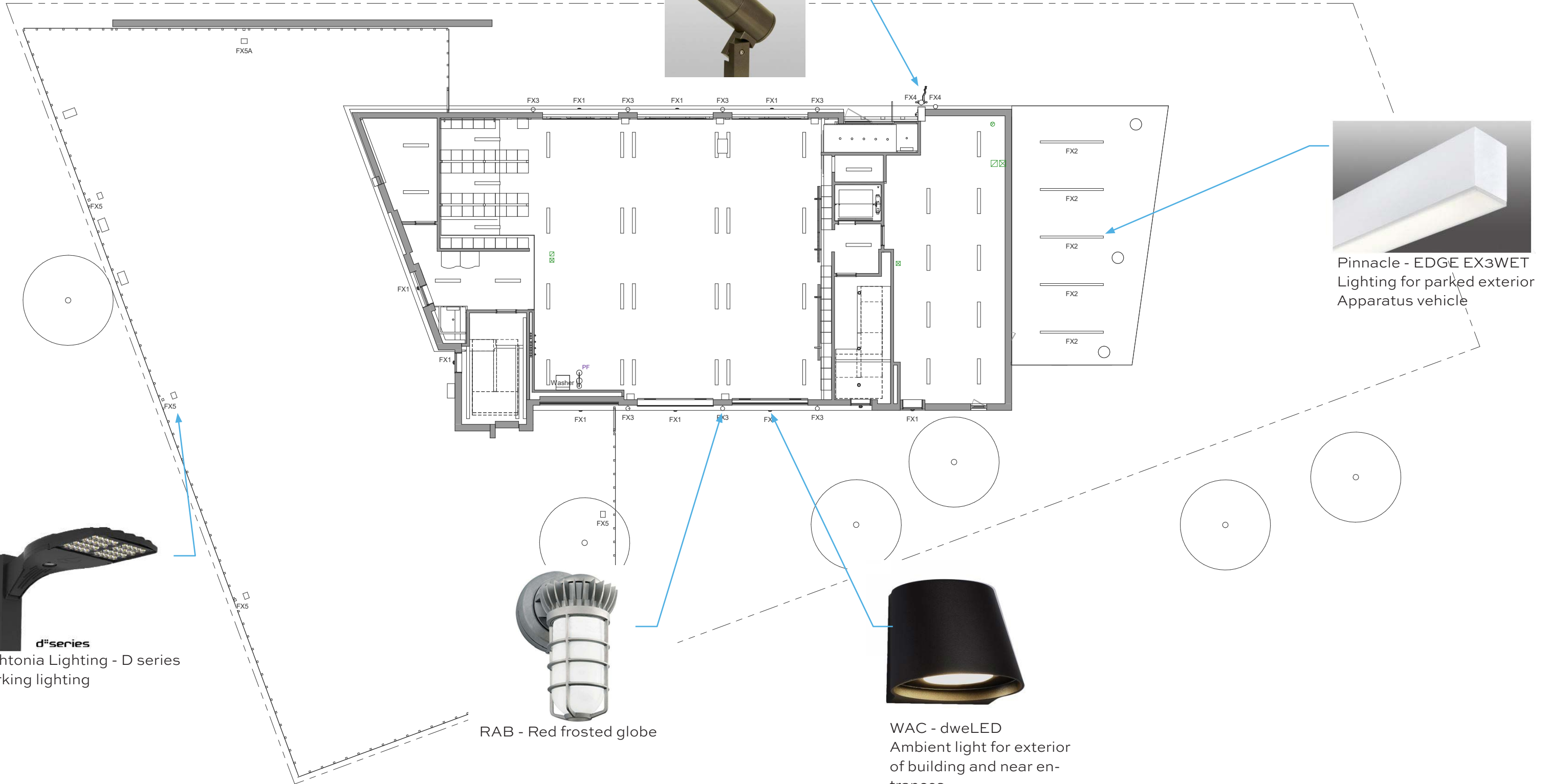




LIGHTING PLANS



BK Lighting - Hume LED
 Flag pole lighting mounted near base
 of pole to illuminate half and full staff



Pinnacle - EDGE EX3WET
 Lighting for parked exterior
 Apparatus vehicle



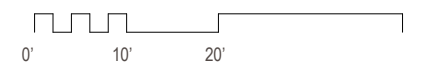
d^{series}
 Lightonia Lighting - D series
 Parking lighting

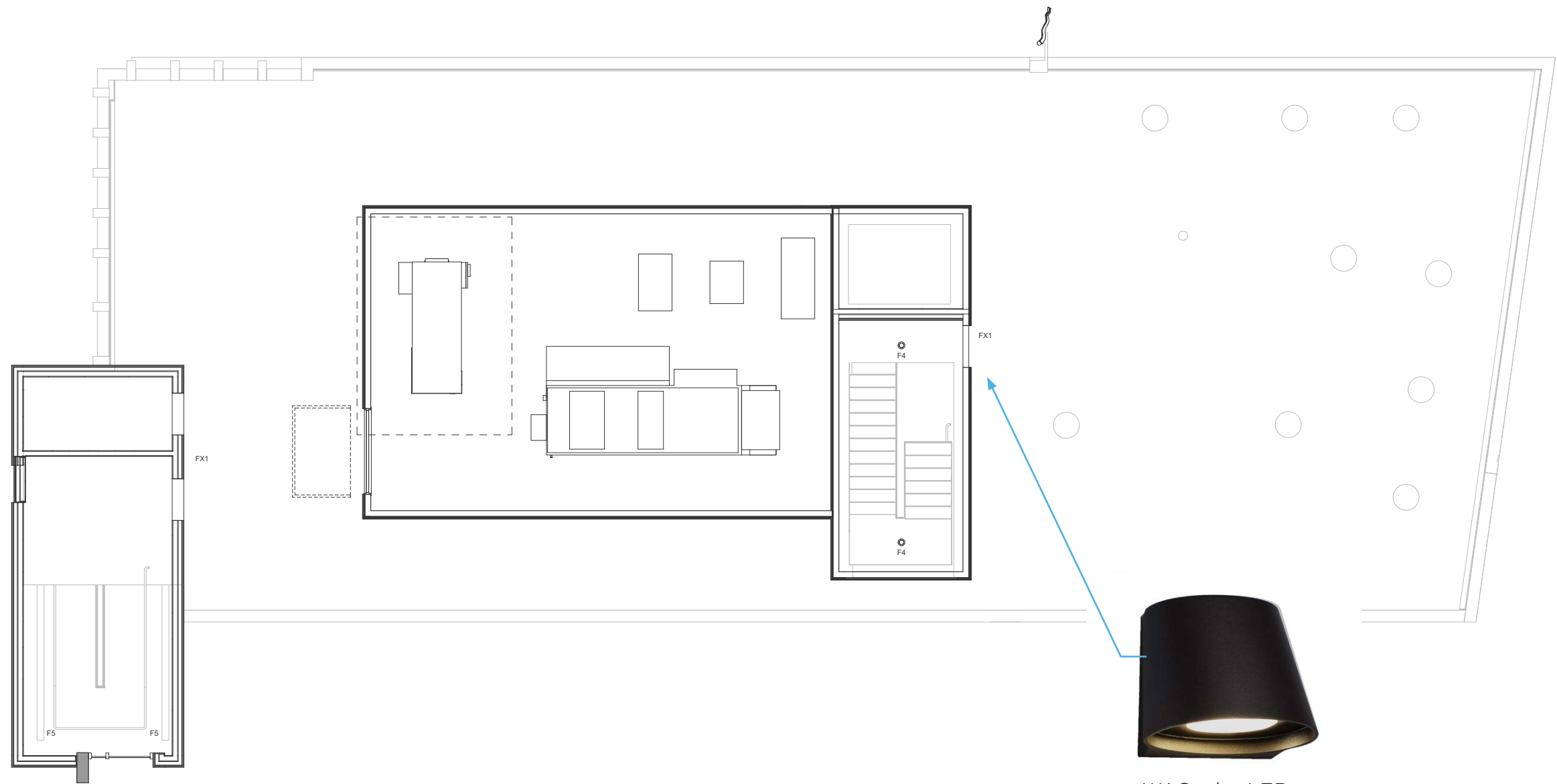


RAB - Red frosted globe



WAC - dweLED
 Ambient light for exterior
 of building and near en-
 trances

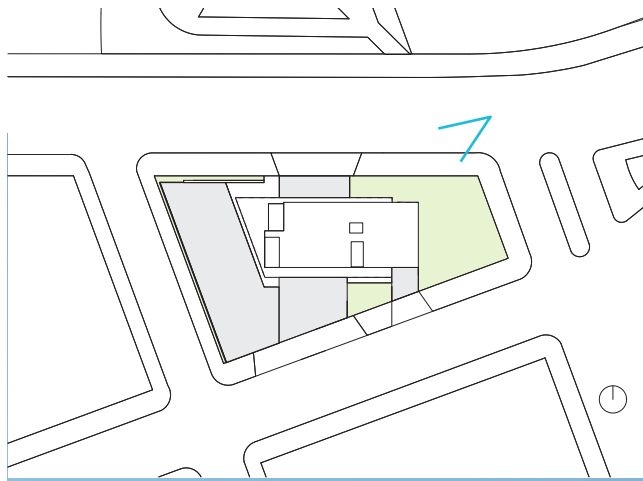


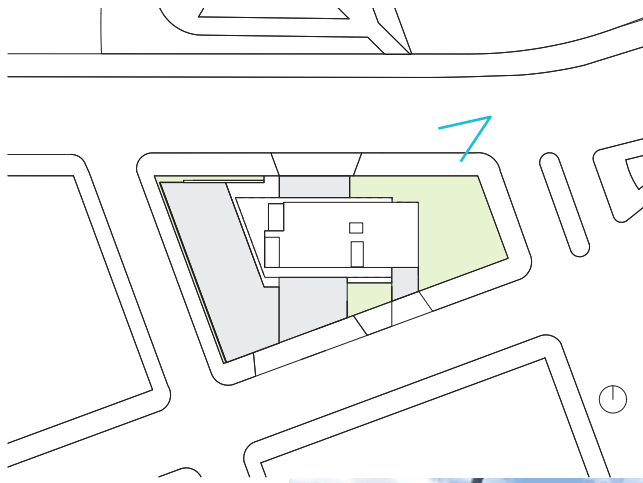


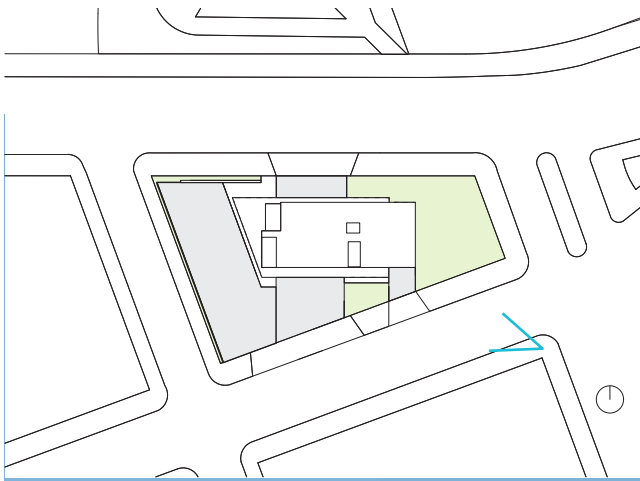
WAC - dweLED
Ambient light for exterior
of building and near en-
trances

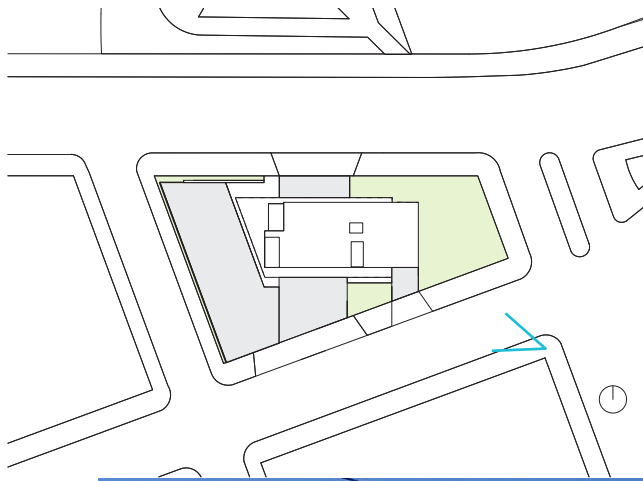
RENDERINGS

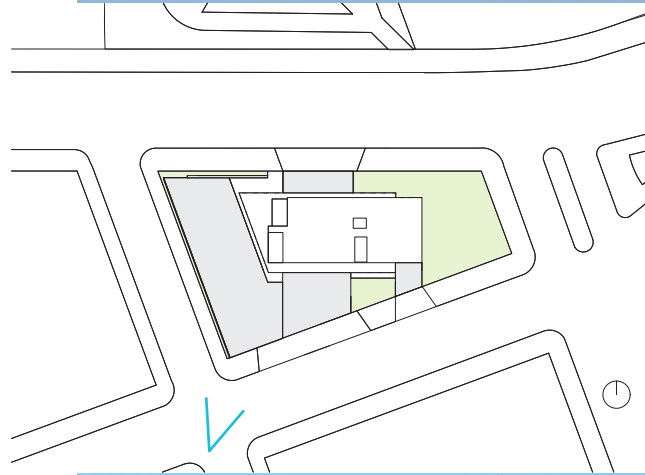


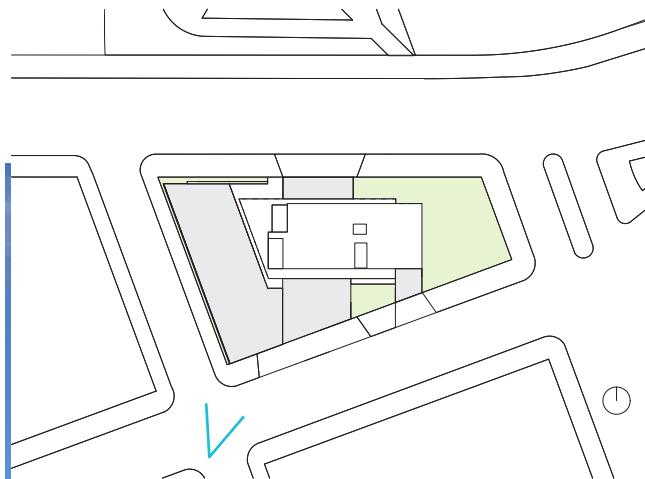


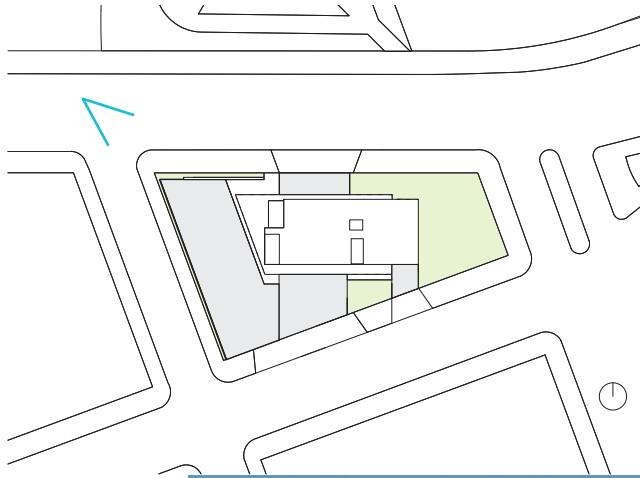


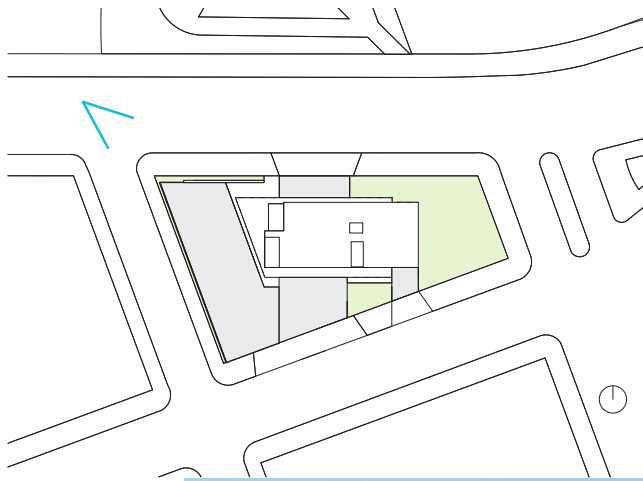


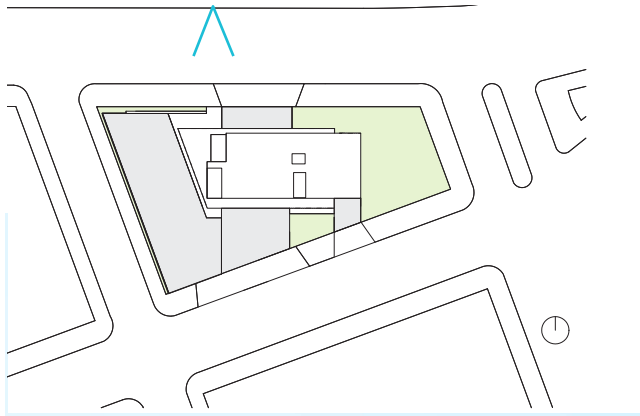




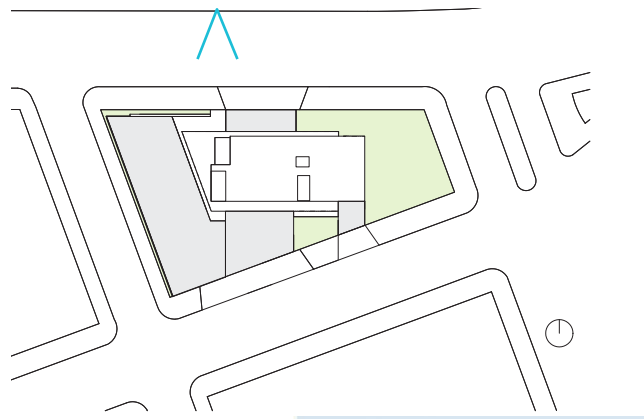








VIEW FROM 9/11 TRIBUTE PARK



VIEW FROM 9/11 TRIBUTE PARK

MATERIALS
SITE FURNISHINGS
EQUIPMENT





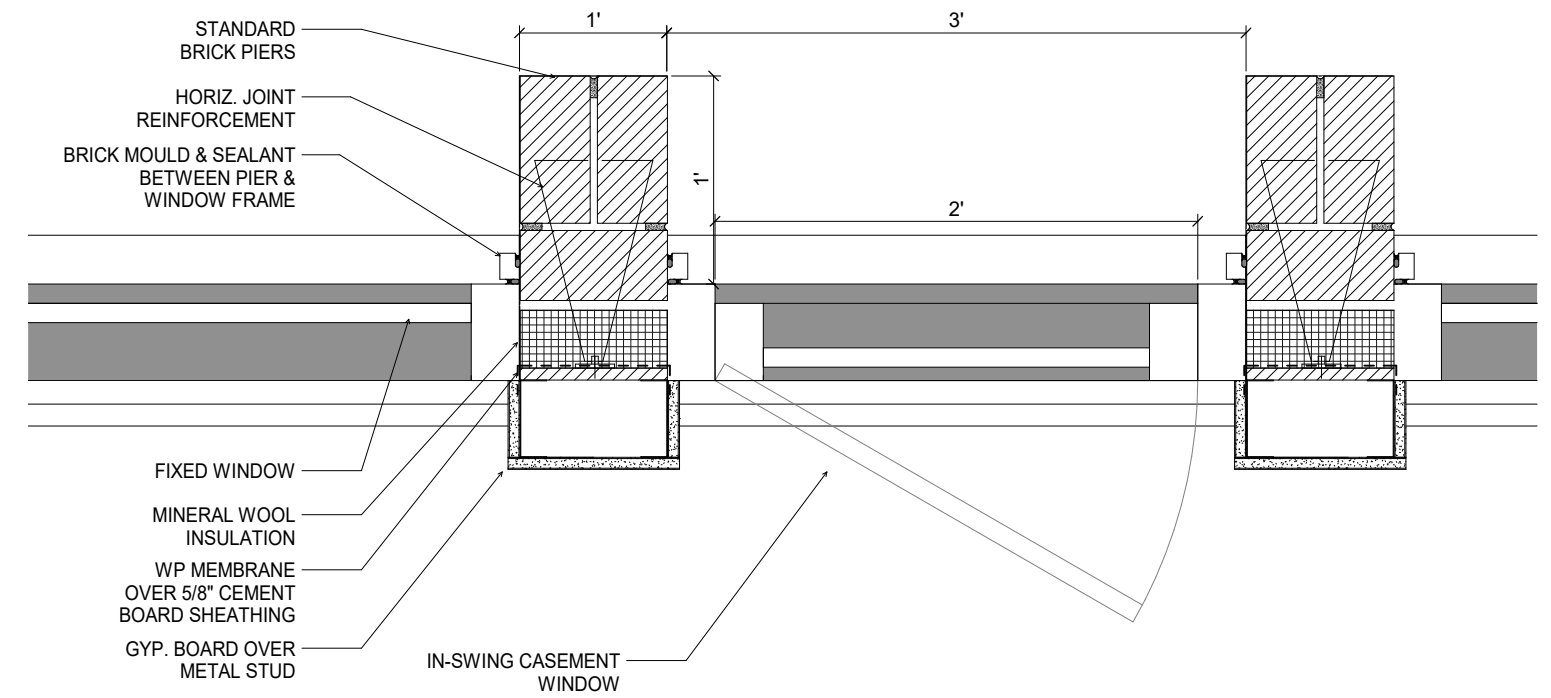
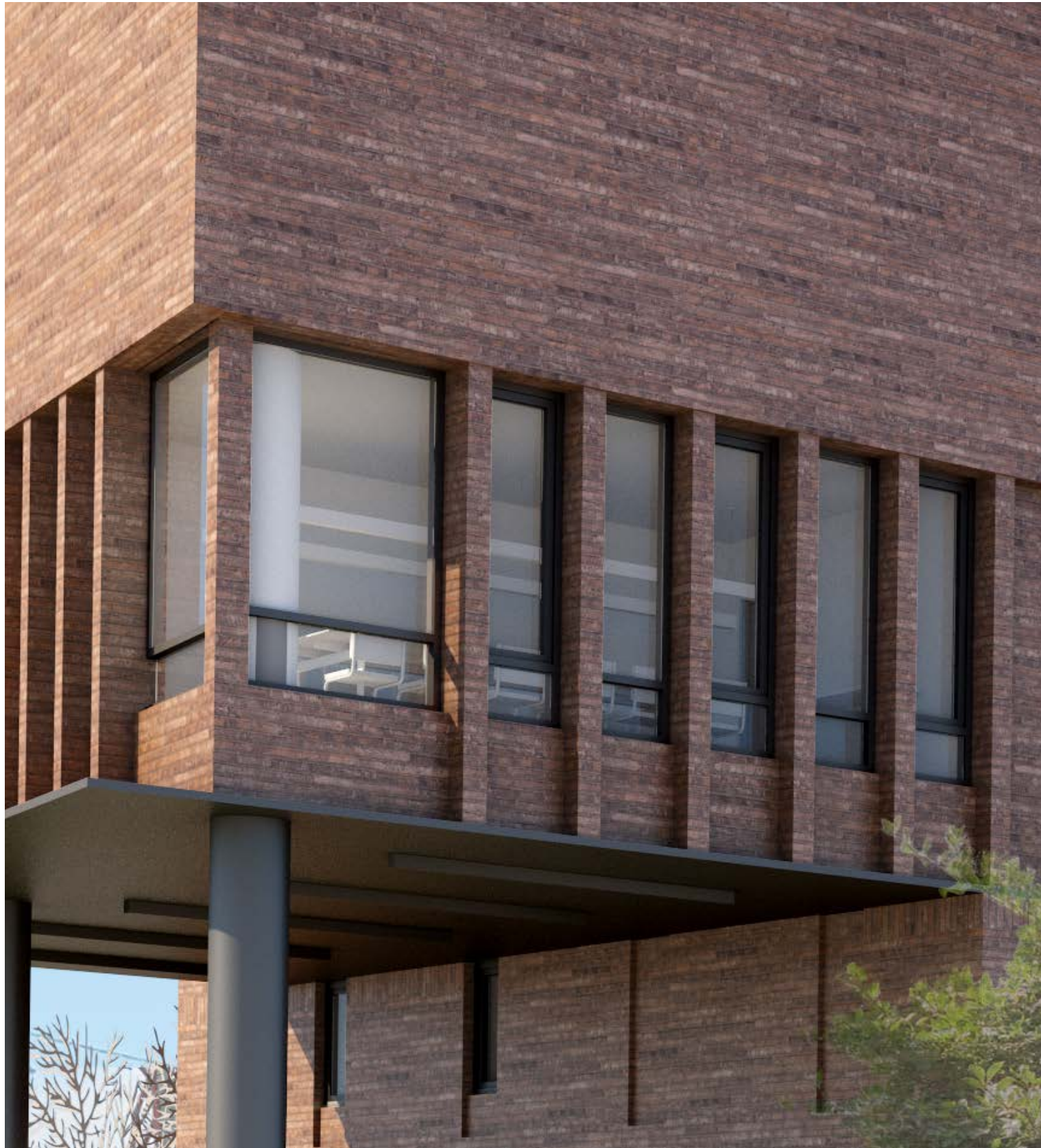
FACADE THIN, FULL, AND GLAZED BRICK



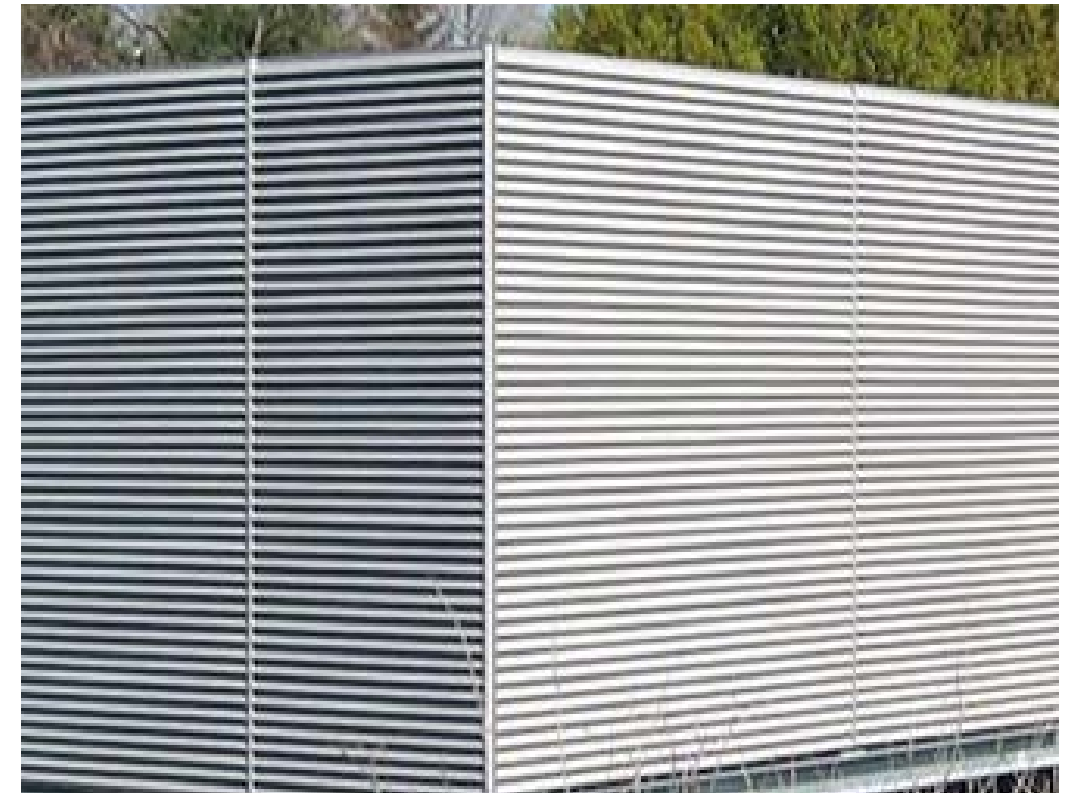
WINDOW MULLION
UC109852 - CHARCOAL



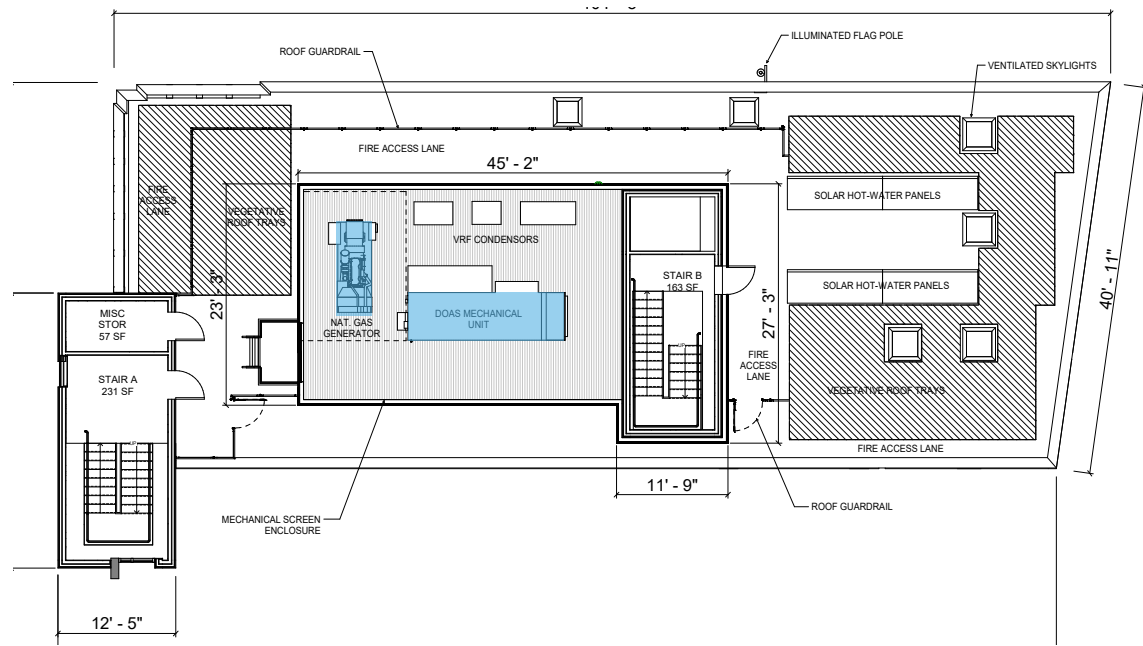
EXISTING EC268 / LC137
STATION BRICK INSPIRATION



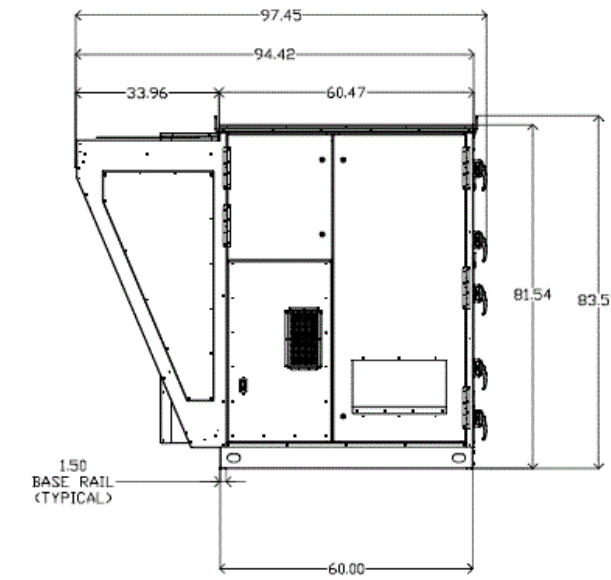
BRICK "PIER" SCHEMATIC DETAIL



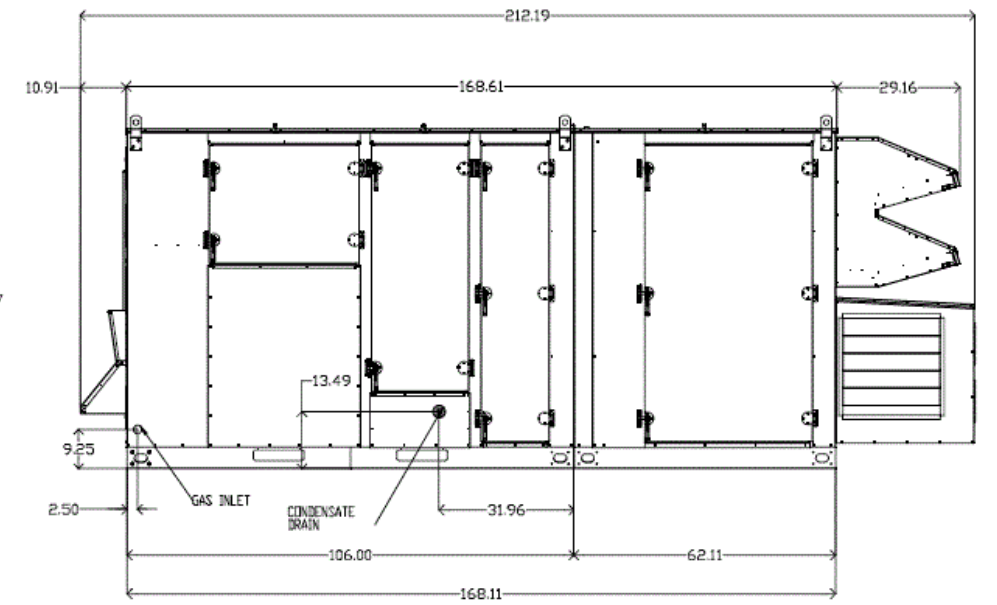
MECHANICAL LOUVER SCREEN
GREY COLOR PAINTED ALUMINUM



ROOF PLAN

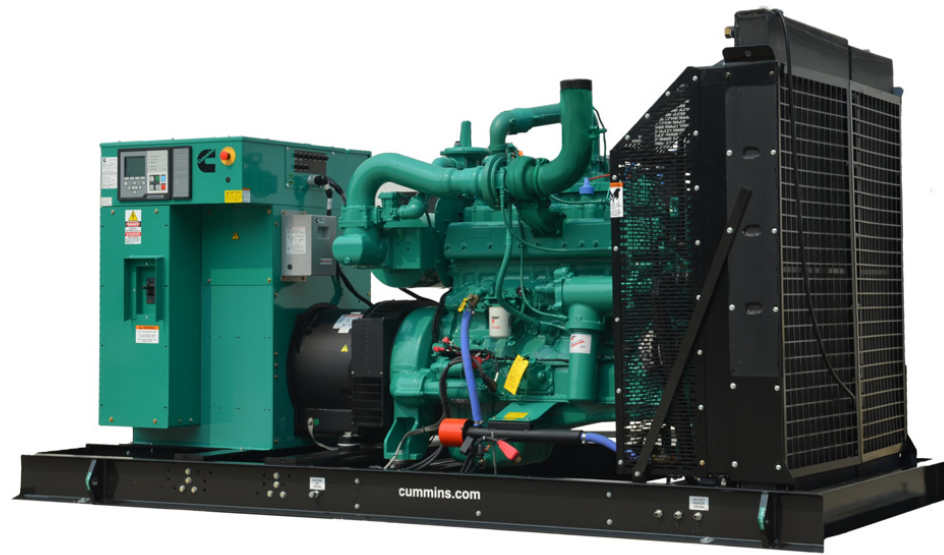


Front View



Side View

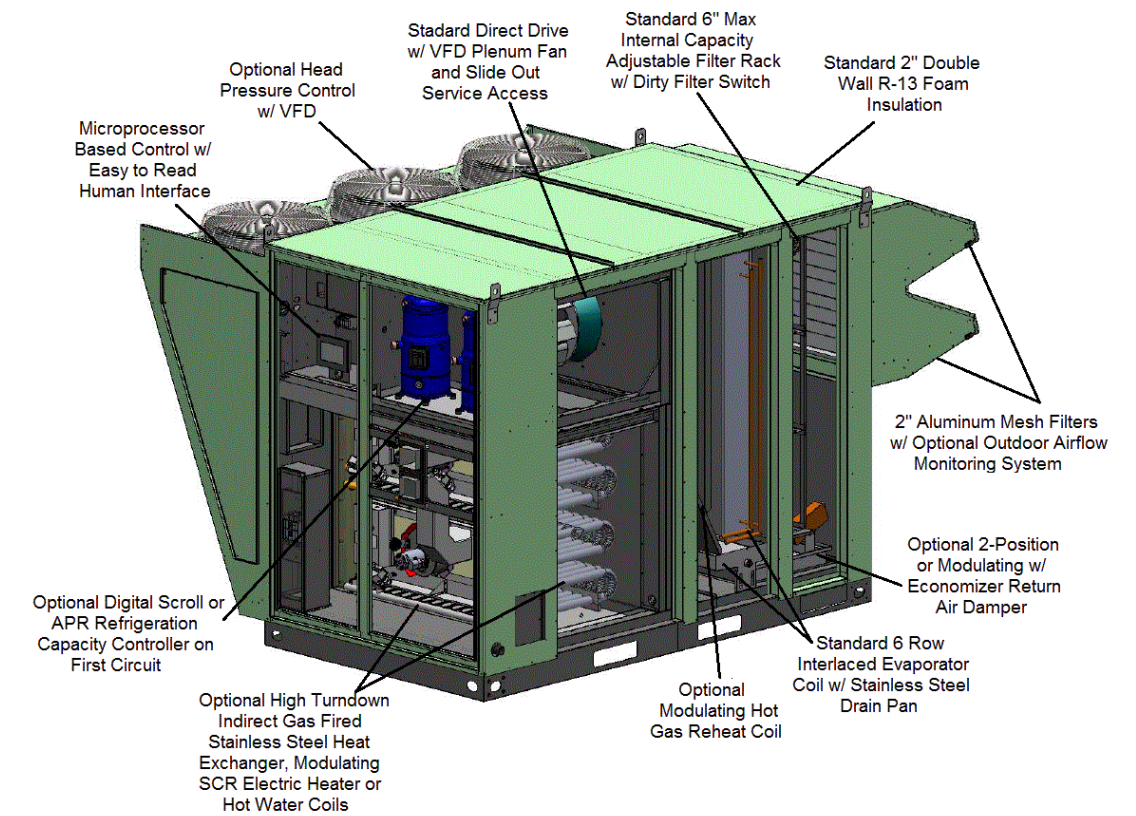
DOAS MECH. DRAWING



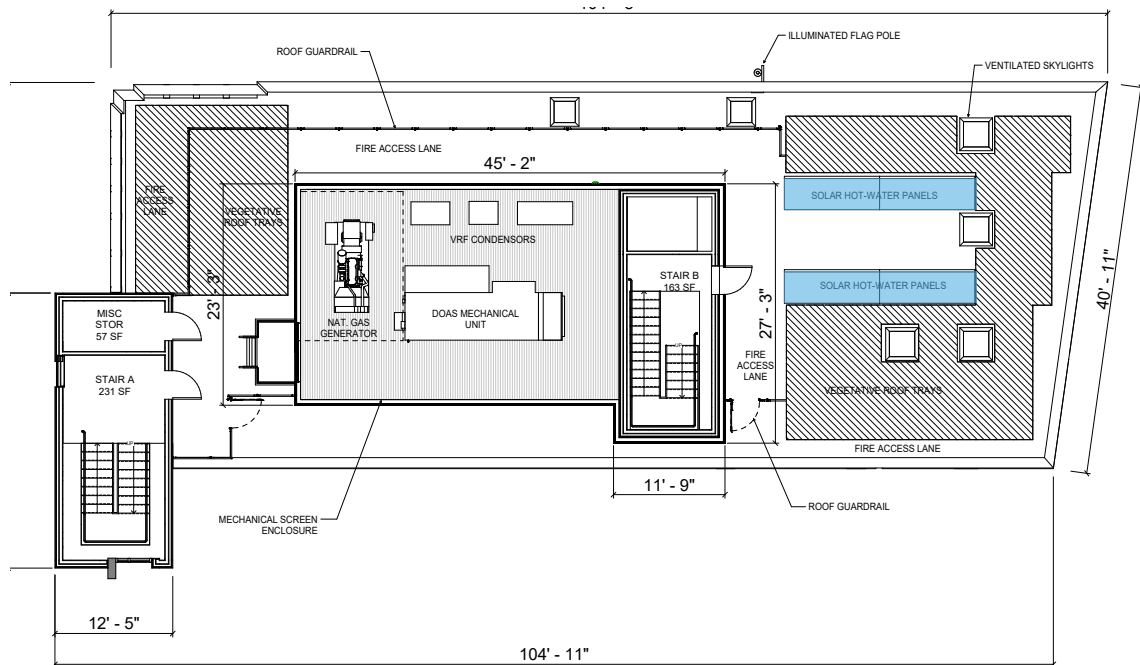
ROOFTOP GENERATOR



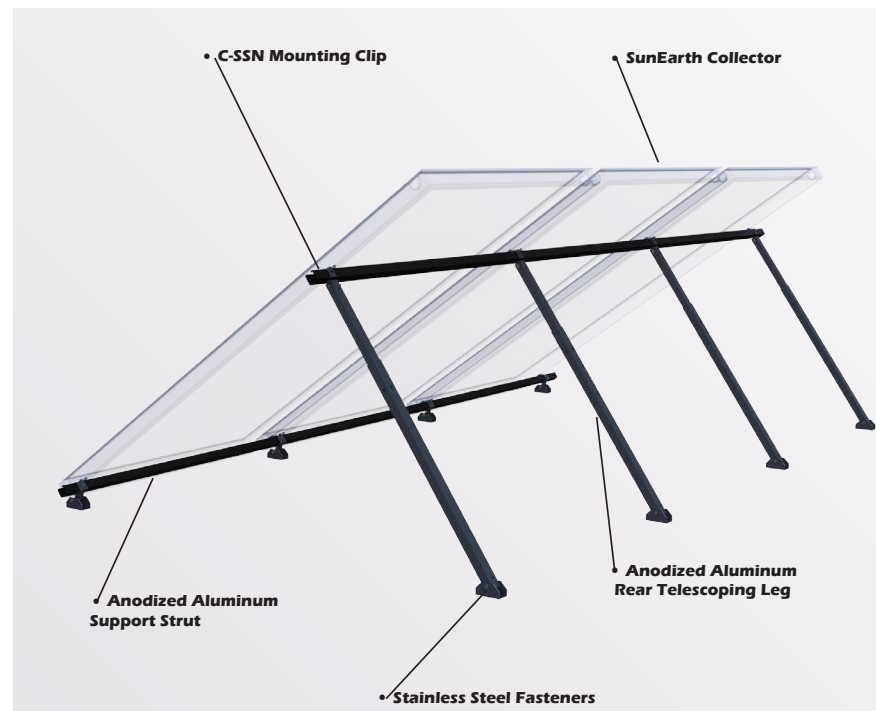
GENERATOR ENCLOSURE
LIGHT GRAY METAL COLOR



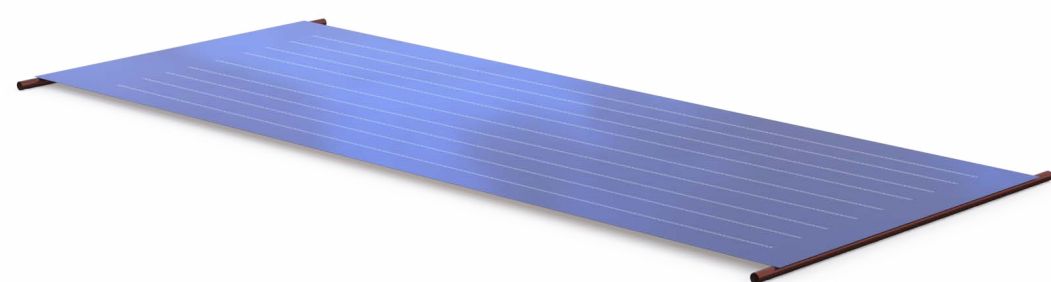
DOAS MECHANICAL UNIT



ROOF PLAN

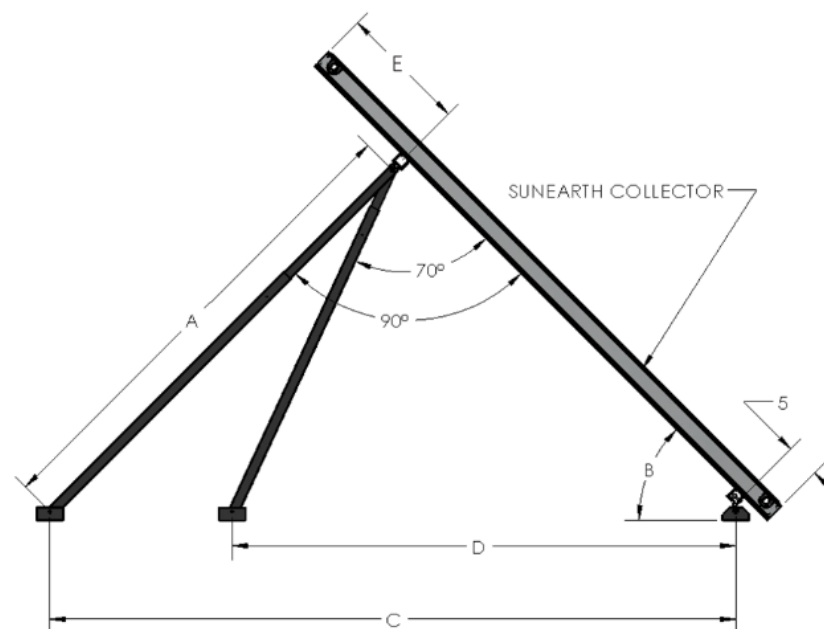


SOLAR HOT-WATER PANEL MOUNTING RACK



SUN EARTH TRB-40 SOLAR COLLECTOR DIMENSIONS = 4'-0" X 10'-0" (HORIZONTAL LAYOUT)

RexRack Layout Dimensions (Distance Tables to Right Is In Inches For Tilt angle)



EP/EC-40, E = 24.5"

Tilt Angle	Leg Angle 90°		Leg Angle 70°	
	B	A	A	D
20	33.4	97.6	31.4	86.2
25	42.8	101.2	38.9	86.5
30	52.9	105.9	46.6	87.5
35	64.2	111.9	54.5	89.2
40	76.9	119.7	62.7	91.7
45	91.7	129.7	71.5	95.1
50	-	-	81.1	99.5
55	-	-	91.7	105.2
60	-	-	103.7	112.5

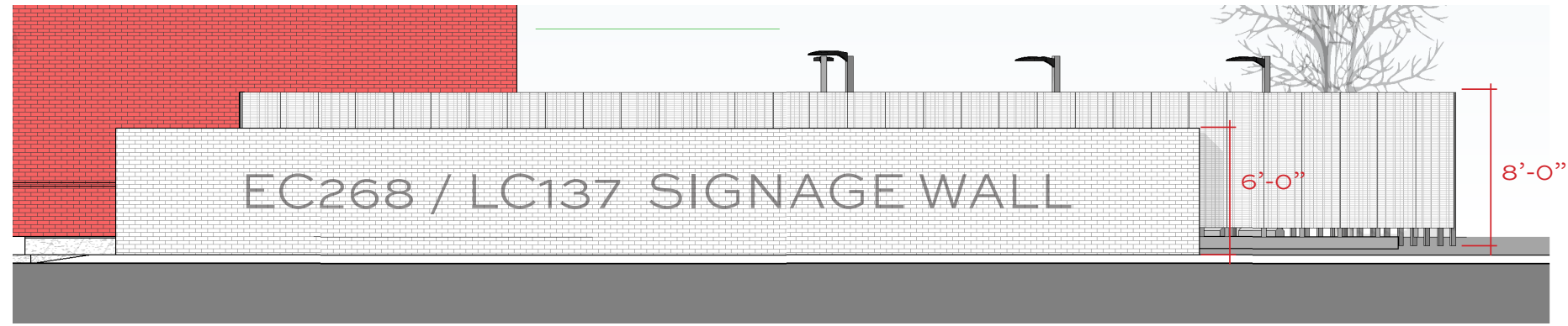
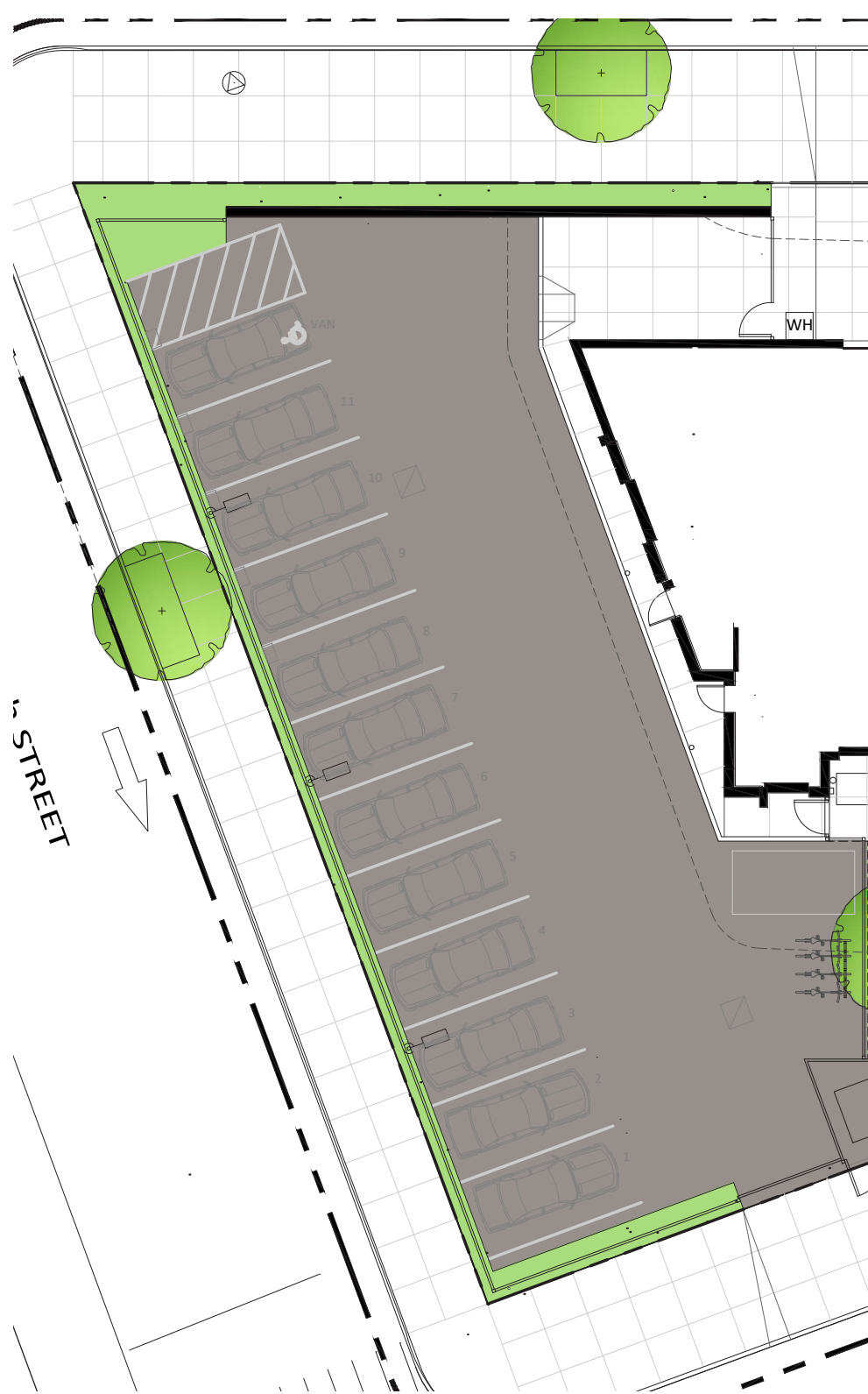
EP/EC-32/24, E = 19.625"

Tilt Angle	Leg Angle 90°		Leg Angle 70°	
	B	A	A	D
20	26.4	77.2	24.8	68.1
25	33.8	80.0	30.8	68.4
30	41.9	83.7	36.8	69.2
35	50.8	88.5	43.1	70.5
40	60.8	94.6	49.6	72.5
45	72.5	102.5	56.6	75.2
50	86.4	112.8	64.1	78.7
55	-	-	72.5	83.2
60	-	-	82.0	88.9

EP/EC-21, E = 14"

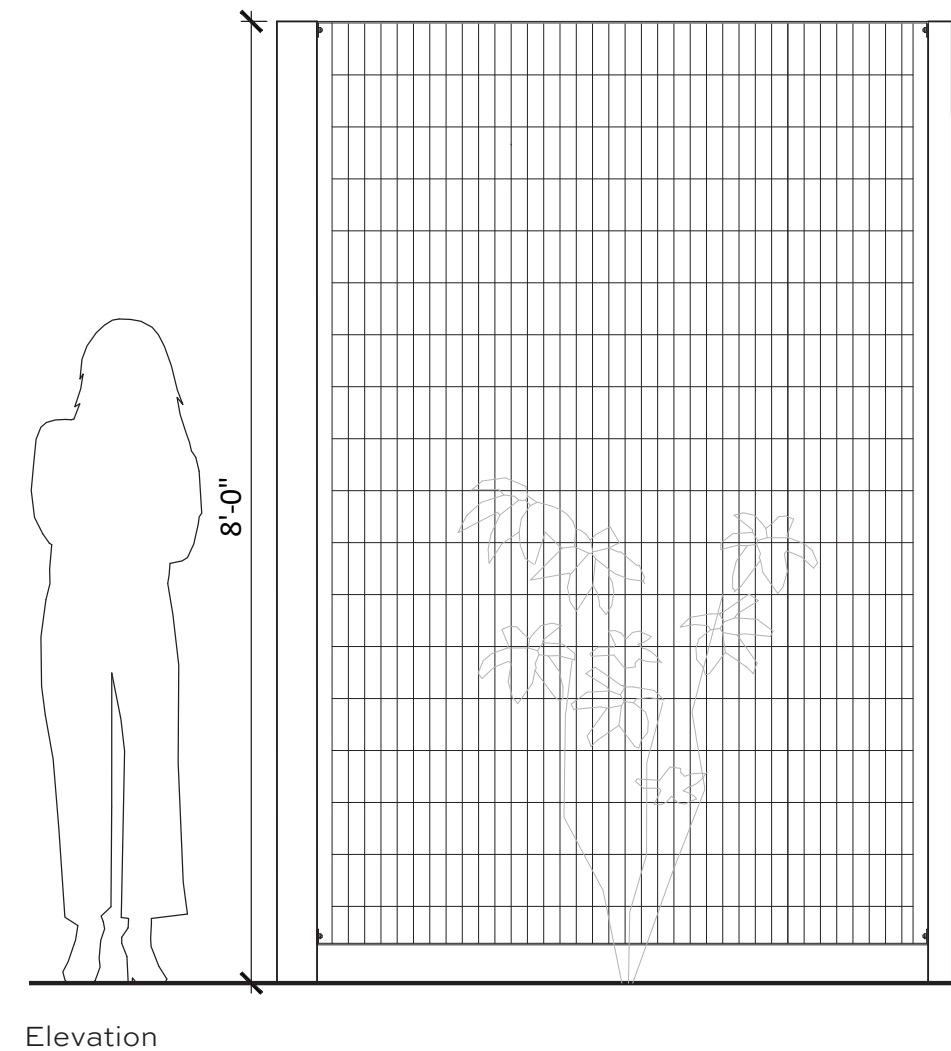
Tilt Angle	Leg Angle 90°		Leg Angle 70°	
	B	A	A	D
20	18.3	53.4	17.2	47.2
25	23.4	55.4	21.3	47.4
30	29.0	58.0	25.5	47.9
35	35.2	61.3	29.8	48.8
40	42.1	65.5	34.3	50.2
45	50.2	71.0	39.2	52.0

SITE FURNISHINGS: FENCES



ENLARGED LANDSCAPE WALL & PARKING FENCE

Per FDNY parking standards, and 8'-0" fence is required around all personal vehicles to protect firefighter vehicles and other exterior storage elements.



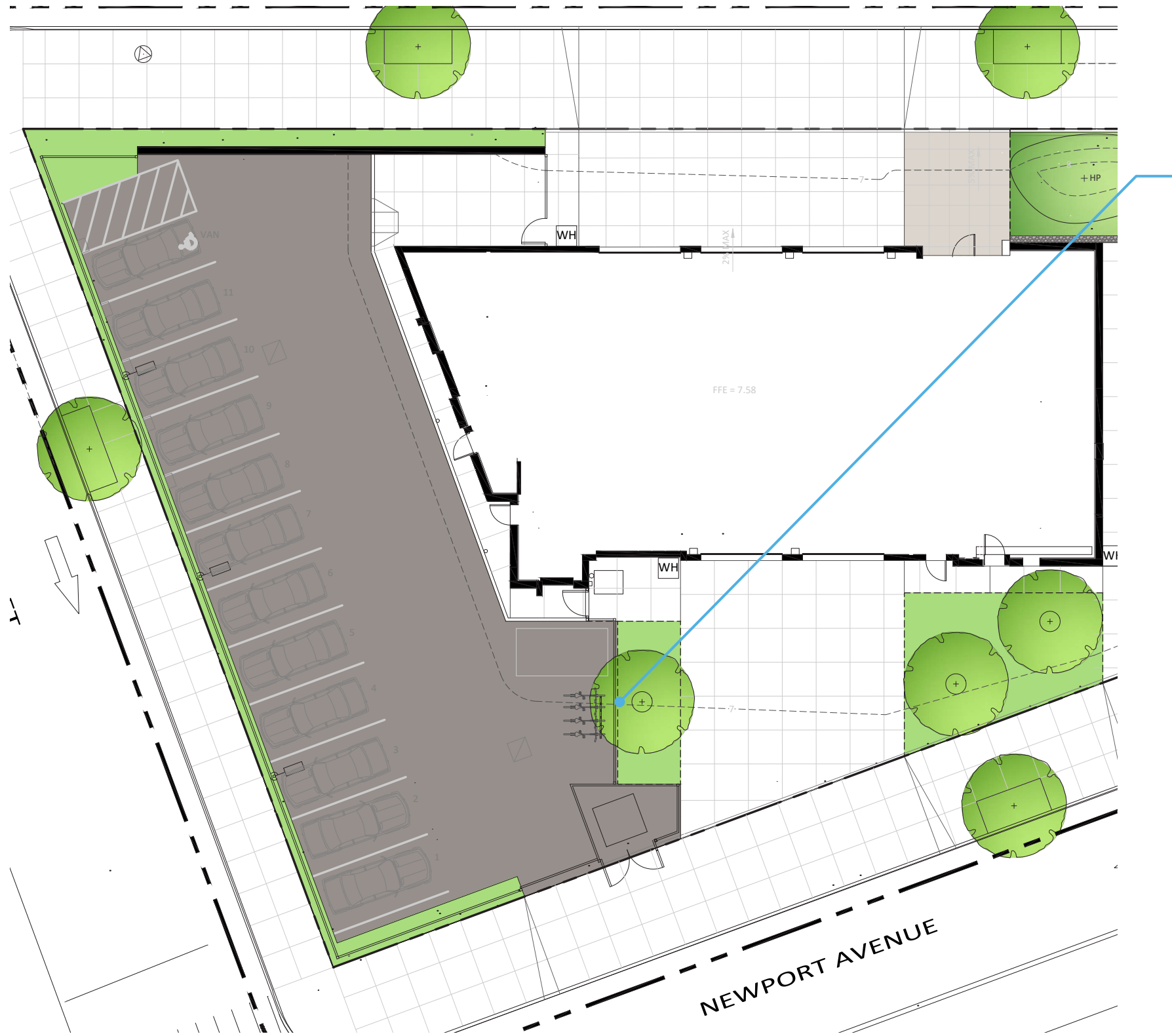
Rectangular grid panels, gray color powder-coated steel

SITE FURNISHINGS: BENCHES



PRECAST CONCRETE BENCHES, Gray color, Acid wash finish

SITE FURNISHINGS: BICYCLE RACKS



SHORT TERM PARKING: RIBBON BICYCLE RACK, Galvanized steel

