

U-DISTRICT STATION 90%
DESIGN LRRP PRESENTATION
January 7th, 2016



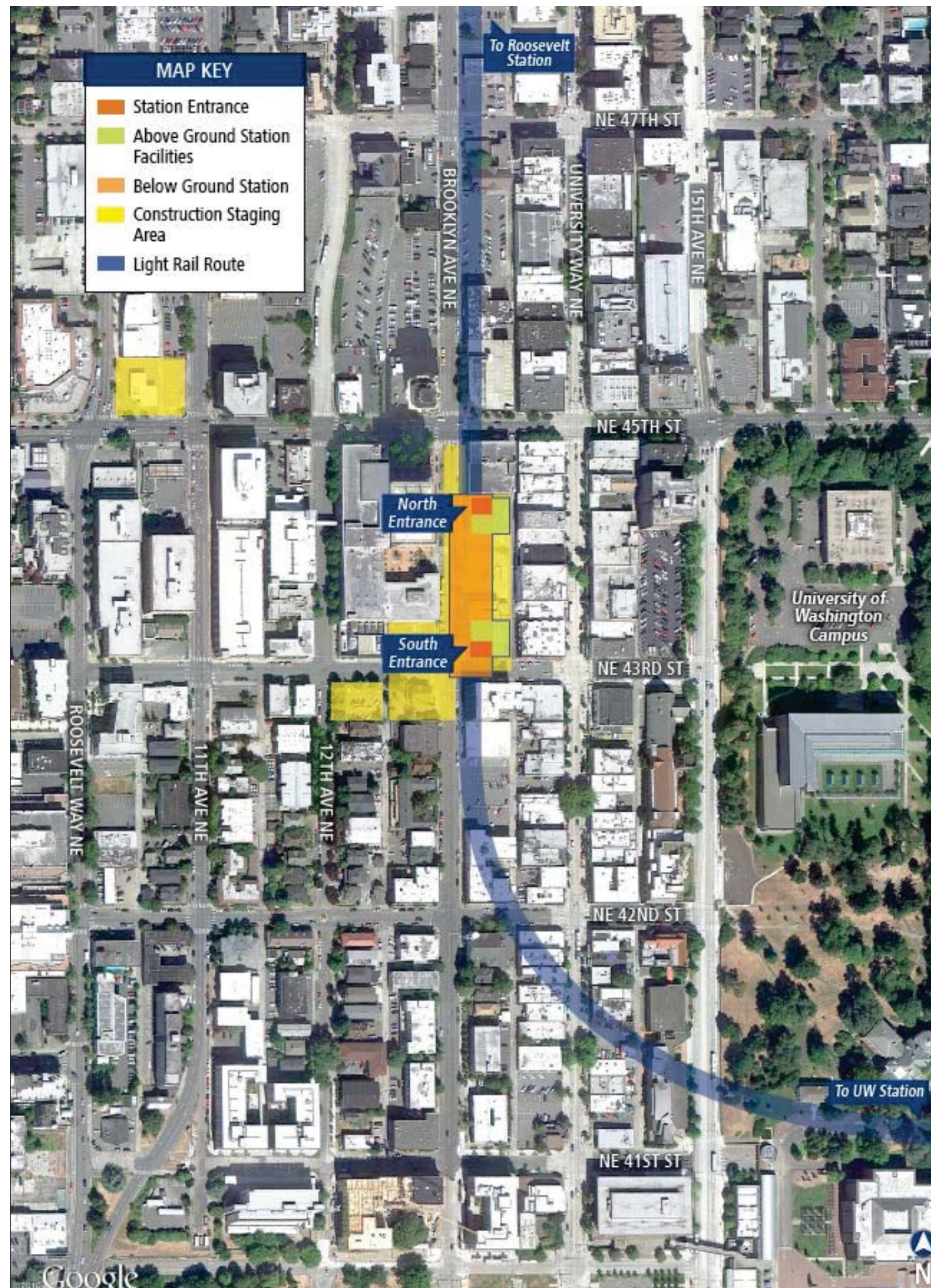
Northgate Link (University District to Northgate)

- 4.3-mile light rail extension
- Stations at U-District (Brooklyn), Roosevelt and Northgate
- Completion: 2021
- 62,000 daily boardings added to system by 2030

U District Station

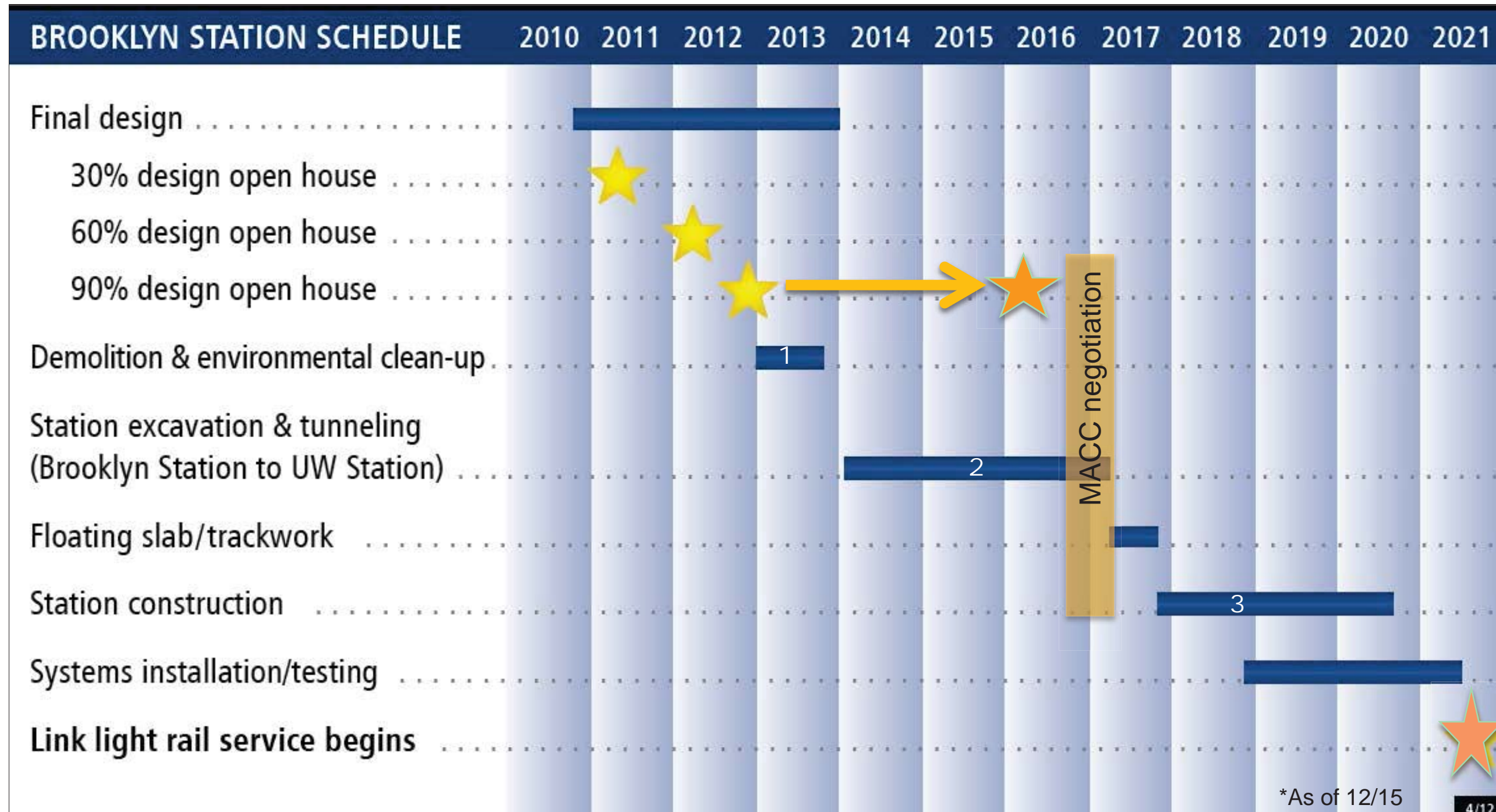
Key Features:

- Station, 75-85 ft. underground
 - Two entries
 - Center platform
 - 12,000 daily boardings (2030)
- Constrained construction site
- Designed to accommodate UW overbuild
- Staging use of Brooklyn Avenue & NE 43rd
- Brooklyn Ave restored as City Green Street
- LRRP reviewed 60% design on May 17, '12
- LRRP Reviewed Art on June 10, '15



U District Station Schedule

as of 4th quarter 2015



ST Sustainability

Design

- Sustainability checklist - tailored to transit
- Standard materials and lighting fixtures
- LED lighting
- Native and adaptive plants & low water irrigation
- Use recycled materials, concrete, steel, glass
- Maximize daylight & advanced lighting controls
- Other elements evaluated, but not used:
 - Low Impact Drainage
 - Photovoltaics
 - Rainwater harvesting



 **SOUNDTRANSIT**
RIDE THE WAVE

ST Sustainability

Construction

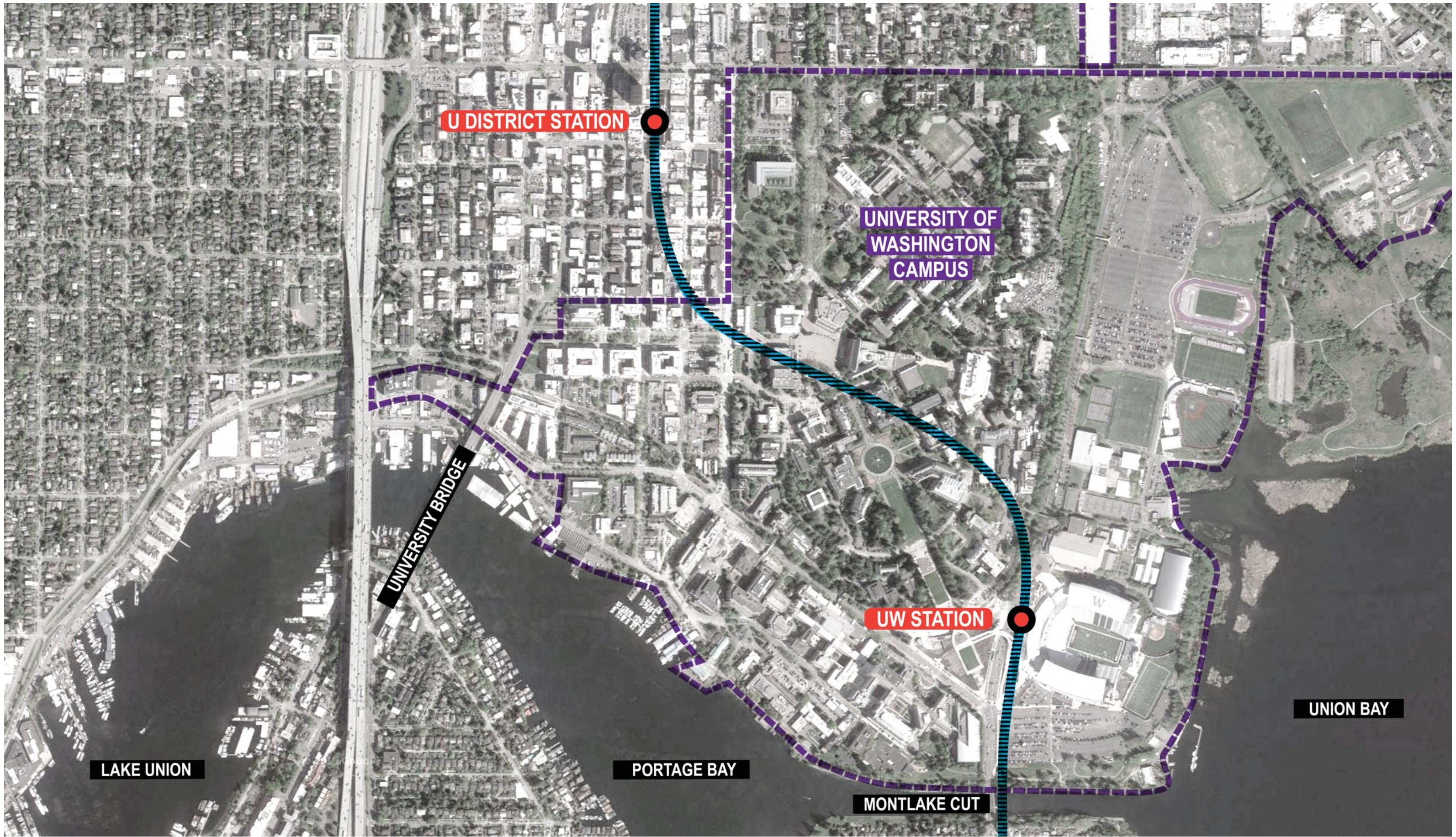
- Salvage materials and recycling
- Demolition and waste management requirements
- Use electric power instead of fuel for equipment
 - Tower crane at Roosevelt station
- Reuse of excavated soils to fill abandoned surface mines
- Contractor negotiations
 - No idle zones
 - Tier 0 & 1 vehicles not permitted
 - Closed loop wheel washes
- Build it right the first time



 **SOUNDTRANSIT**
RIDE THE WAVE

ST – UW Property Agreement

- Initial agreement completed in 2013
 - Assumed 85' light-frame residential
- Amended agreement in 2015:
 - Response to possible City policy changes
 - Informed by ULI Technical Assistance Panel report to University
 - U District Station to accommodate revised University TOD concept (up to 240', Type I, office)



CITY CONTEXT



LEGEND

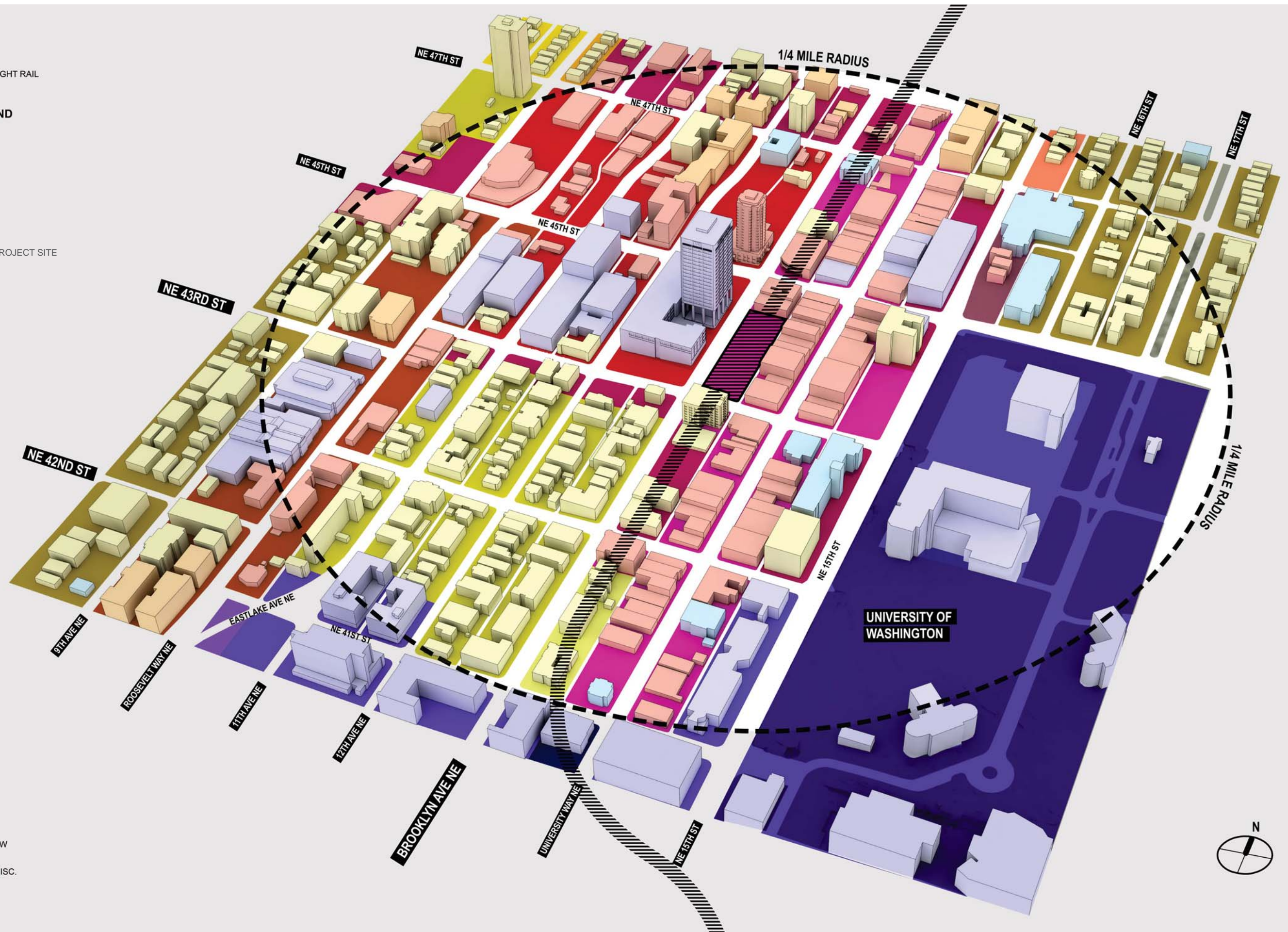
UNDERGROUND LIGHT RAIL

LAND USE ZONING LEGEND

- MIO-65-NC3-65
- MIO-105-NC3P-65
- MIO-105-MR
- MIO-105-C1-65
- NC3P-65 PROJECT SITE
- NC2-40
- NC3-65
- NC3-85
- C1-65
- NC2-65
- LR2
- LR1
- LR3
- MR
- MR-RC

BUILDING USE LEGEND

- COMMERCIAL
- MIXED-USE
- RESIDENTIAL
- INSTITUTIONAL - UW
- INSTITUTIONAL - MISC.



DISTRICT CONTEXT AND BUILDING USE

LEGEND

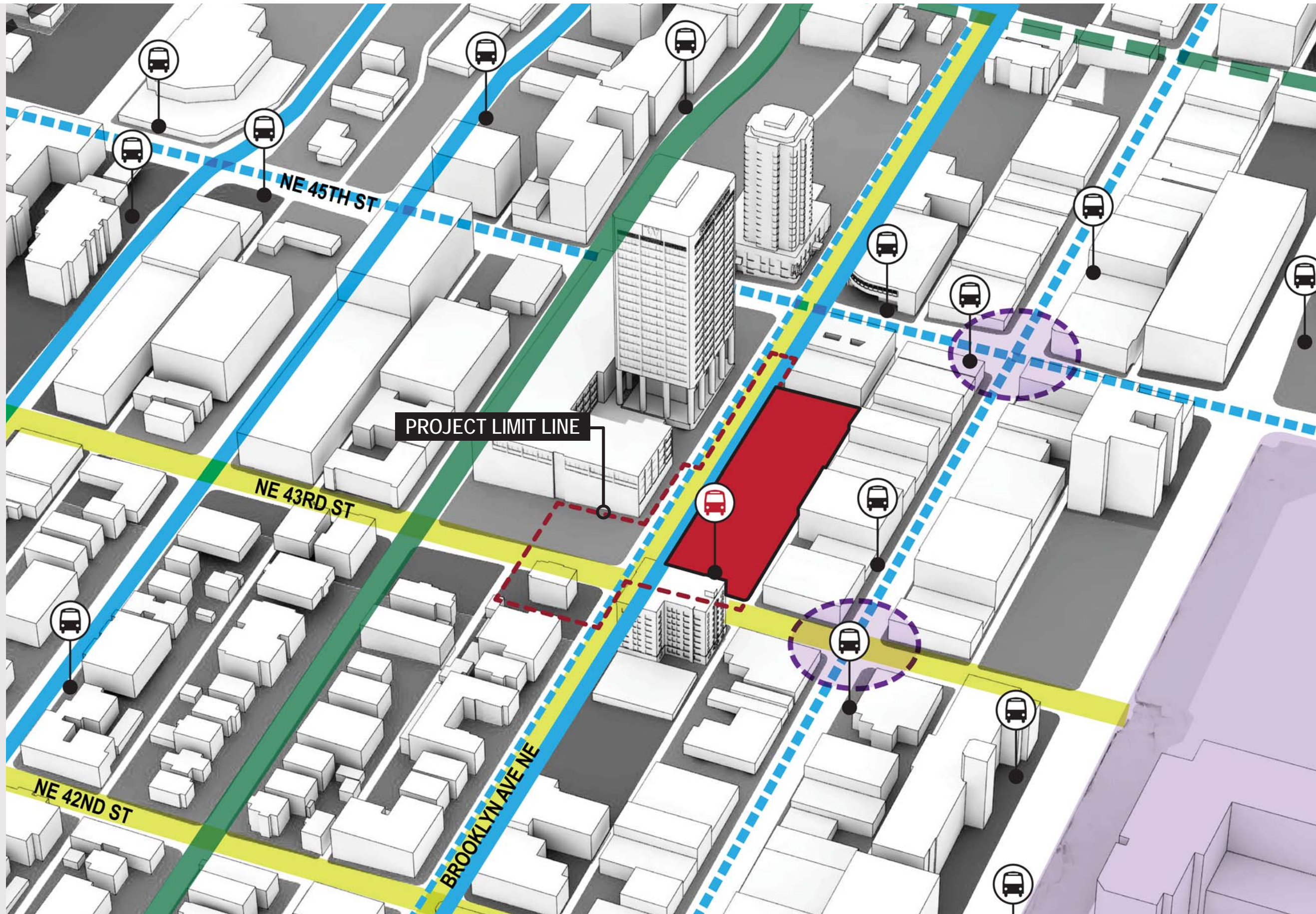
- GREEN STREET
- GREENWAY
- POTENTIAL FUTURE GREENWAY
- DEDICATED BICYCLE LANE
- BIKE SHARROWS
- EXISTING BUS STOP
- FUTURE BUS STOP
- UNIVERSITY COMMUNITY GATEWAY
- PROJECT SITE



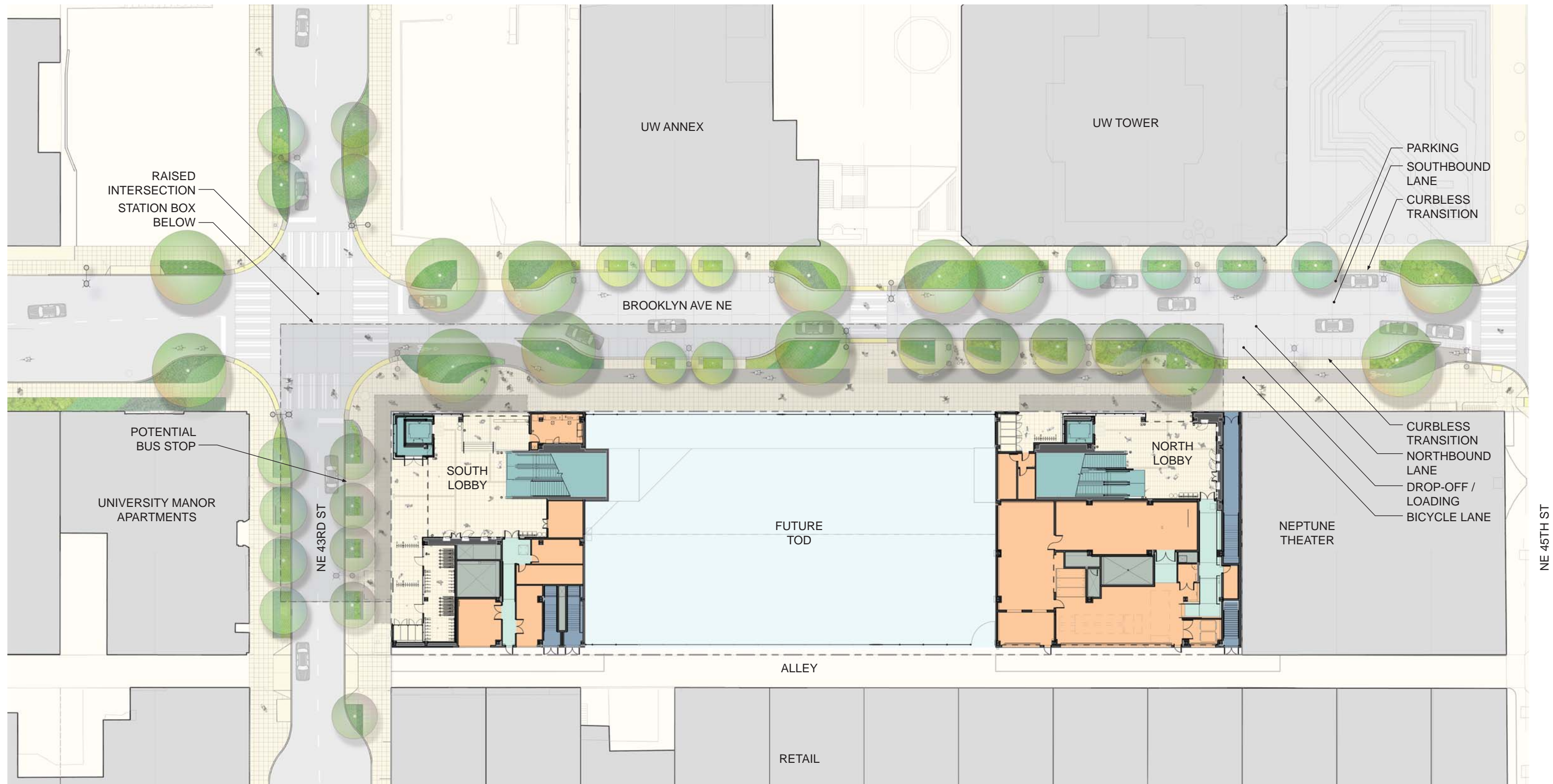
TRANSIT & BICYCLE CONNECTIONS

LEGEND

- GREEN STREET
- GREENWAY
- POTENTIAL FUTURE GREENWAY
- DEDICATED BICYCLE LANE
- BIKE SHARROWS
- EXISTING BUS STOP
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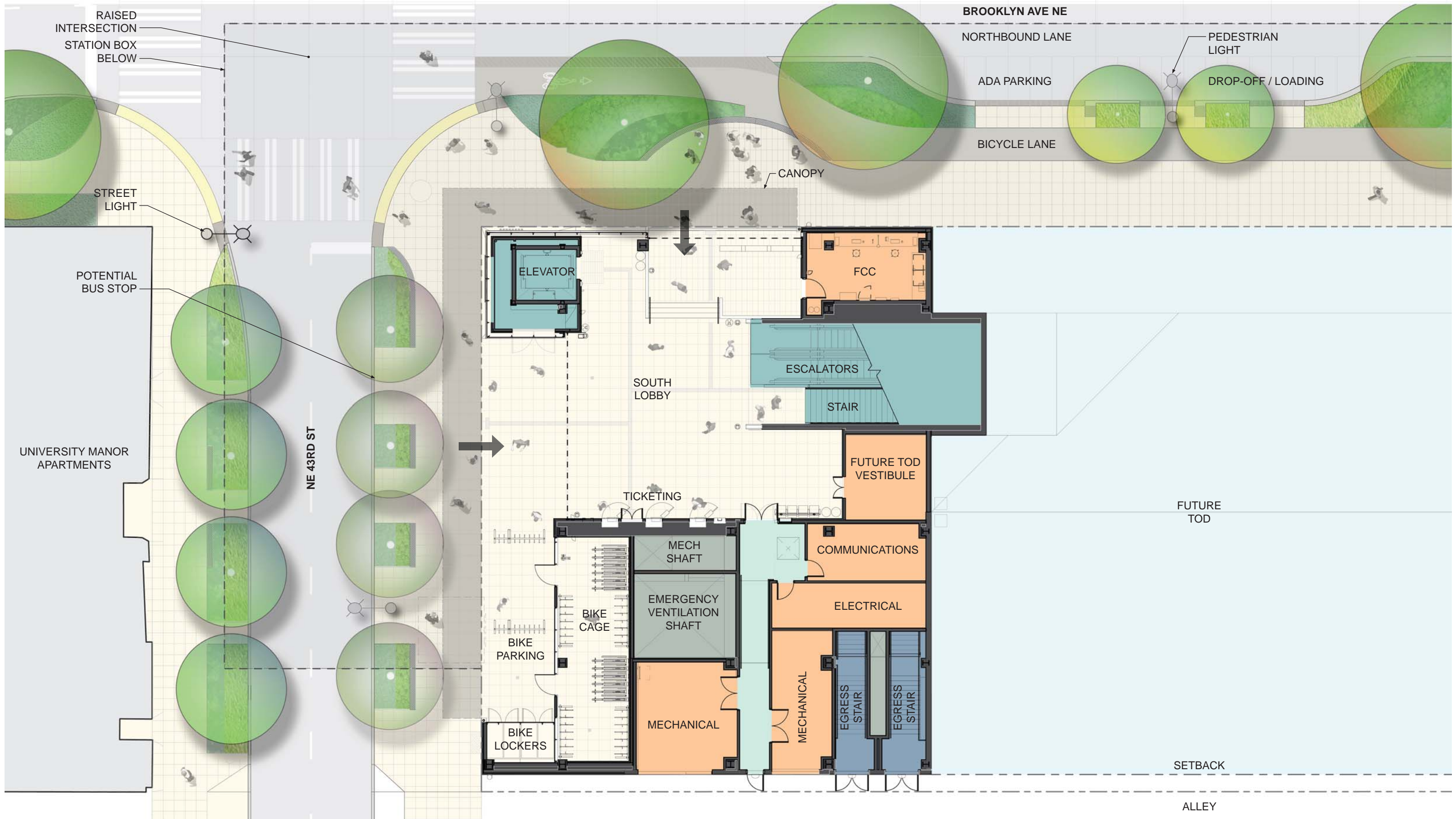


TRANSIT & BICYCLE CONNECTIONS



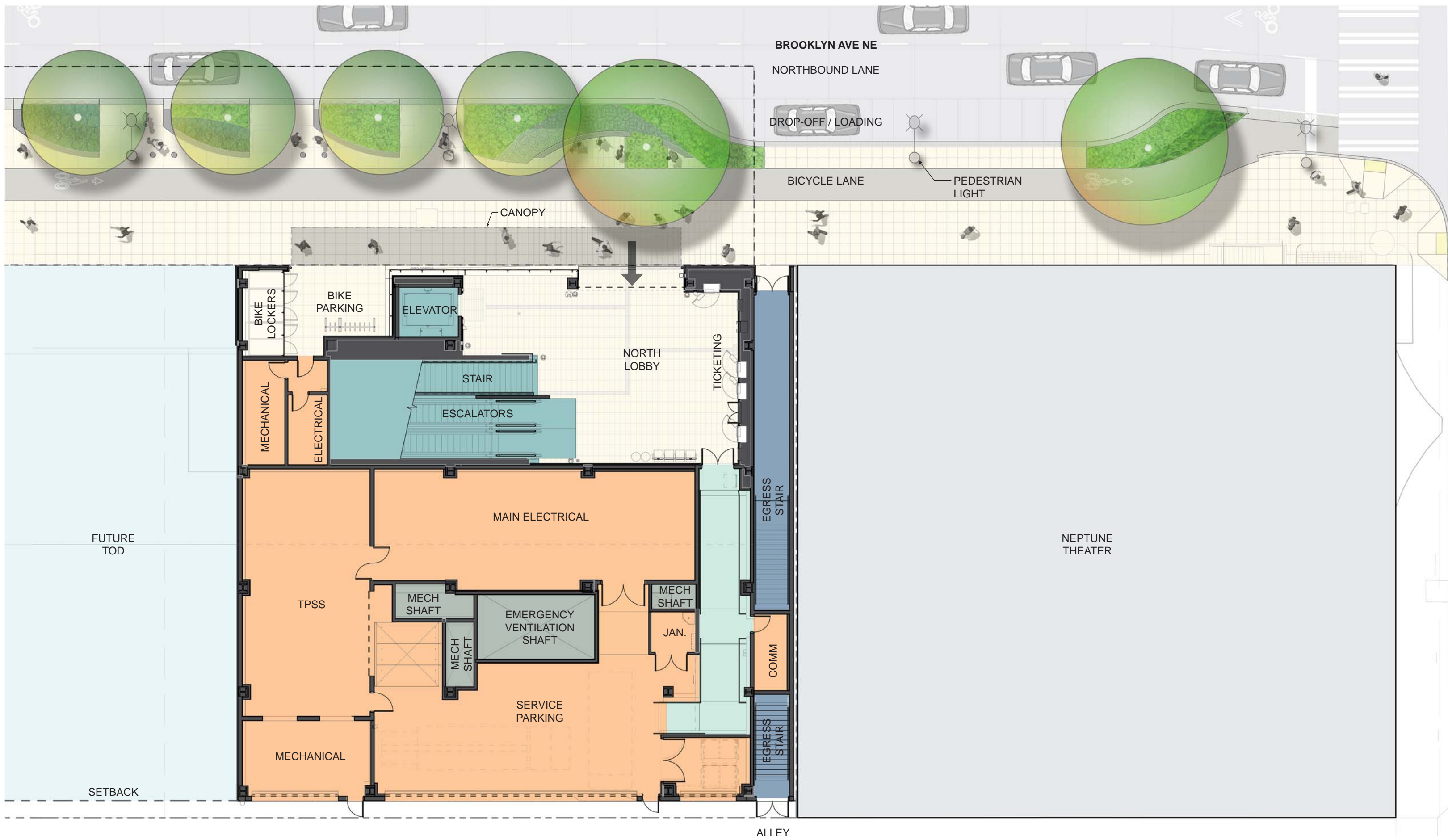
SITE PLAN





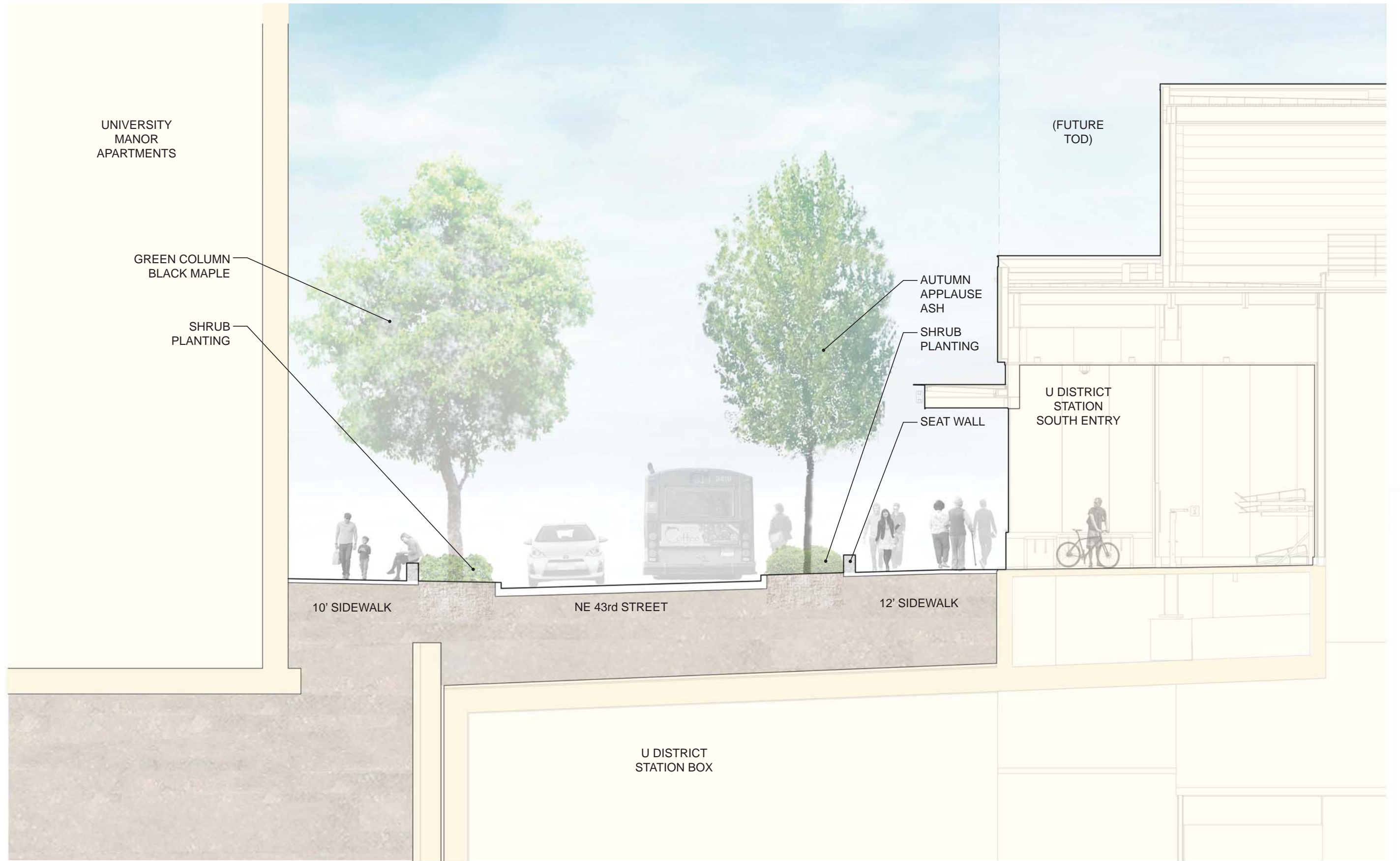
ENLARGED PLAN AT SOUTH ENTRY





ENLARGED PLAN AT NORTH ENTRY





UNIVERSITY
MANOR
APARTMENTS

GREEN COLUMN
BLACK MAPLE

SHRUB
PLANTING

10' SIDEWALK

NE 43rd STREET

12' SIDEWALK

U DISTRICT
STATION BOX

(FUTURE
TOD)

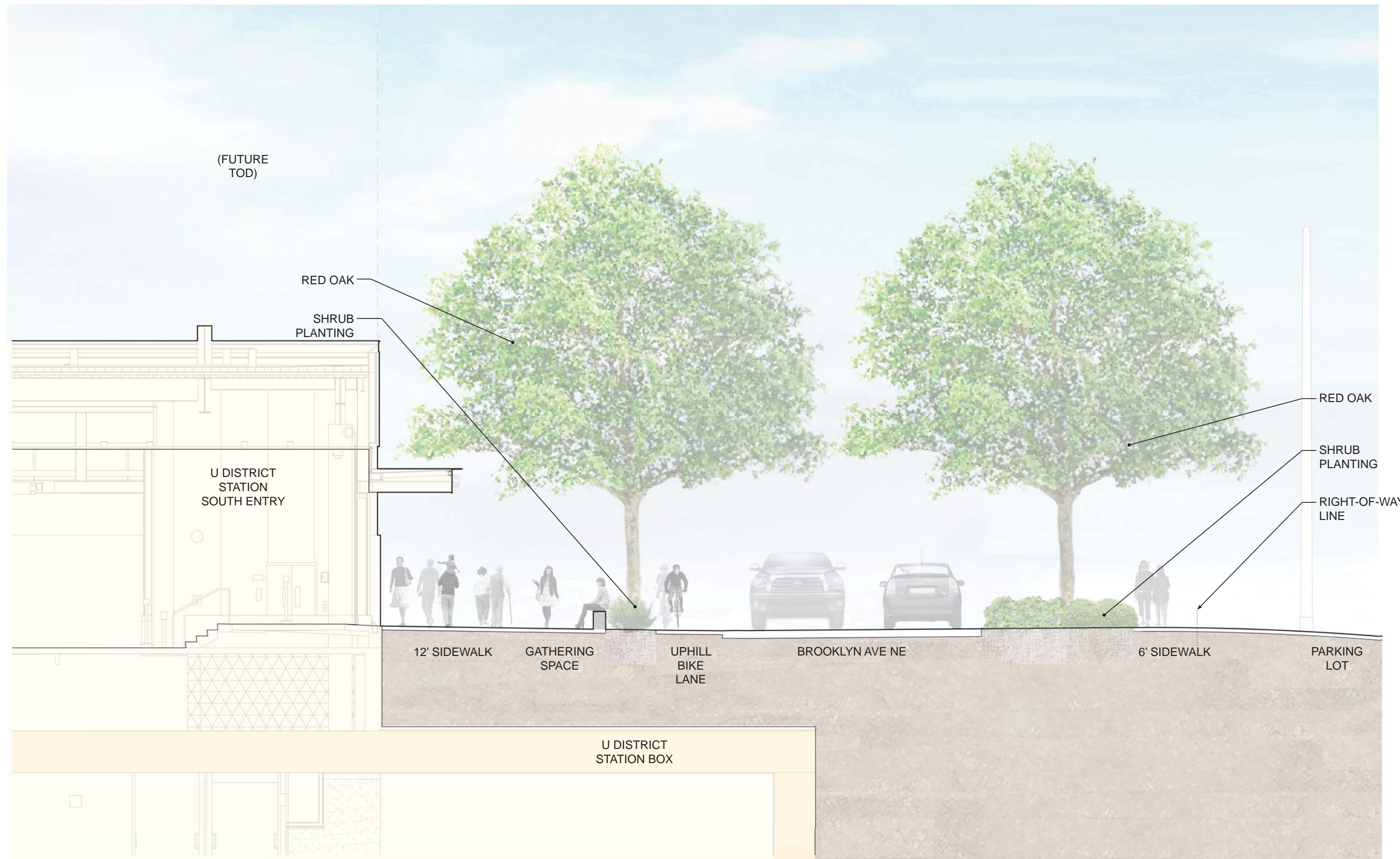
AUTUMN
APPLAUSE
ASH

SHRUB
PLANTING

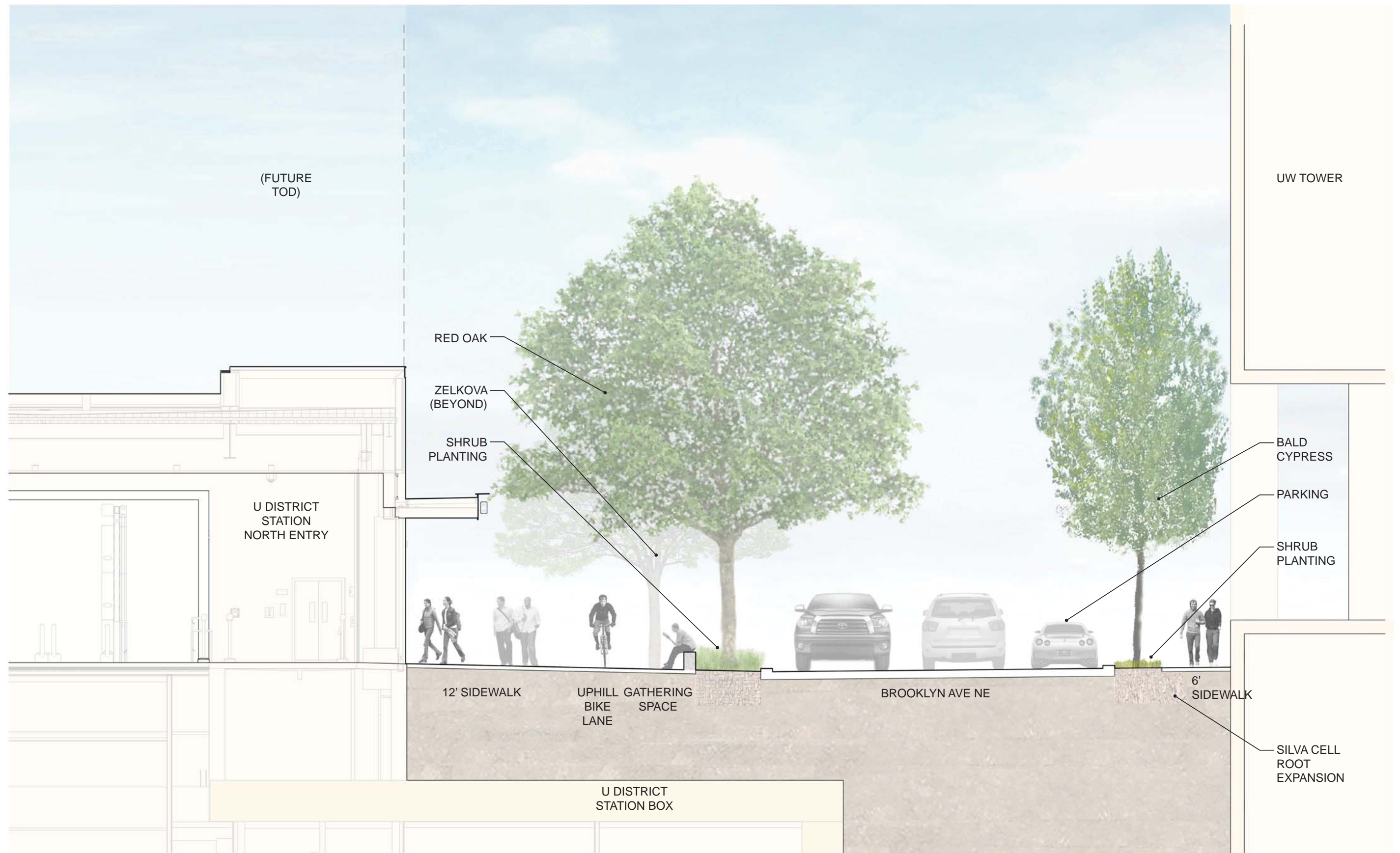
SEAT WALL

U DISTRICT
STATION
SOUTH ENTRY

SOUTH STATION SITE SECTION THROUGH 43rd STREET



SOUTH STATION SITE SECTION THROUGH BROOKLYN AVE



NORTH STATION SITE SECTION THROUGH BROOKLYN AVE



Amur Maackia
Maackia amurensis



Shawnee Brave Bald Cypress
Taxodium distichum 'Mickelson'



Red Oak
Quercus rubra



Green Column Black Maple
Acer nigrum 'Green Column'



Green Vase Zelkova
Zelkova serrata 'Green Vase'



Autumn Applause Ash
Fraxinus americana 'Autumn Applause'



TREE SPECIES



Dwarf Red Twig Dogwood
Cornus sericea 'Kelseyi'



Everlow Yew
Taxus x media 'Everlow'



Privet Honeysuckle
Lonicera pileata



White Periwinkle
Vinca minor 'Alba'



Fragrant Sumac
Rhus aromatica 'Gro-Low'



Dwarf Burning Bush
Euonymus alatus 'Little Moses'



Beach Strawberry
Fragaria chiloensis



Dwarf Japanese Holly
Ilex crenata 'Helleri'



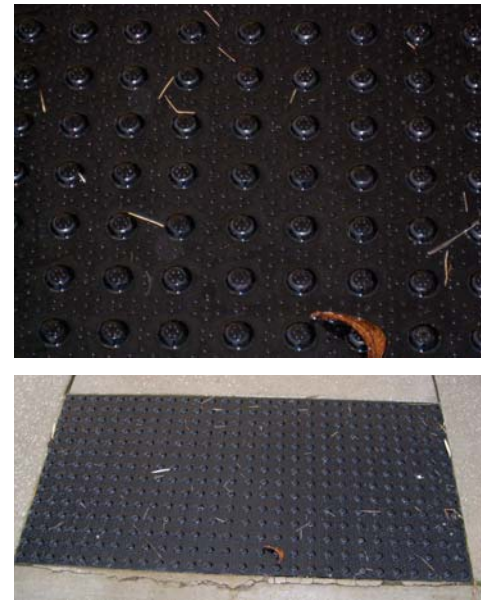
Mount Vernon Laural
Prunus laurocerasus 'Mount Vernon'



Sweet Box
Sarcococca hookeriana var. *humilis*

SHRUBS AND GROUNDCOVERS

PAVEMENT



SEATING



LIGHTING, MARKINGS, & DETAILS

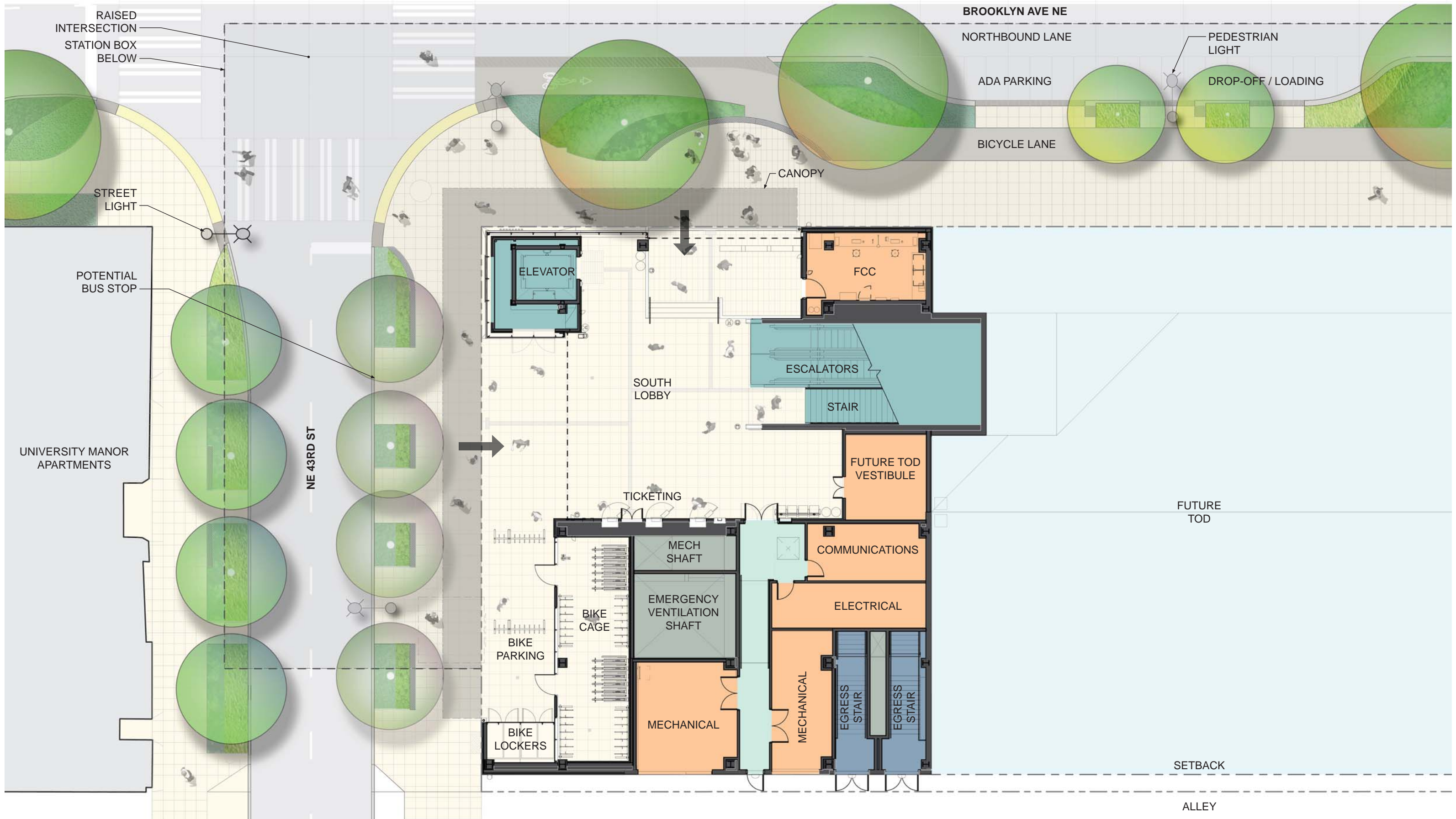


URBAN ELEMENTS



SITE PLAN





ENLARGED PLAN AT SOUTH ENTRY





FORMS & SURFACES
RS PUBLIC SEATING



LANDSCAPE FORMS
PETOSKEY



DERO FIXIT



DERO DECKER



DERO ULTRA SPACE SAVER



DURA LOCKER DL 100-2

STATION FURNISHINGS



ENLARGED PLAN AT NORTH ENTRY





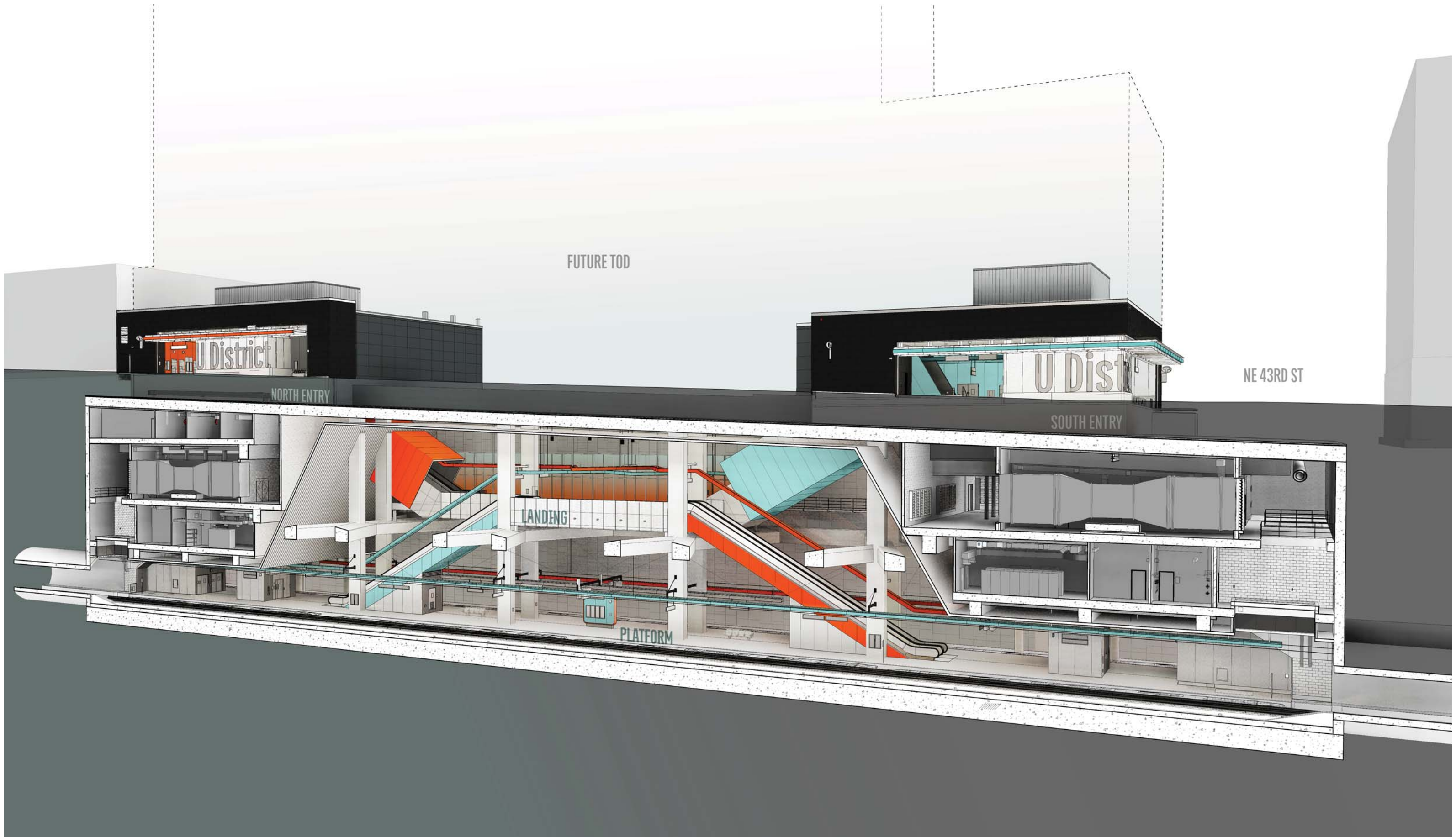
PERSPECTIVE - BROOKLYN AVE NE AND NE 43RD ST



PERSPECTIVE - BROOKLYN AVE NE - SOUTH ENTRY



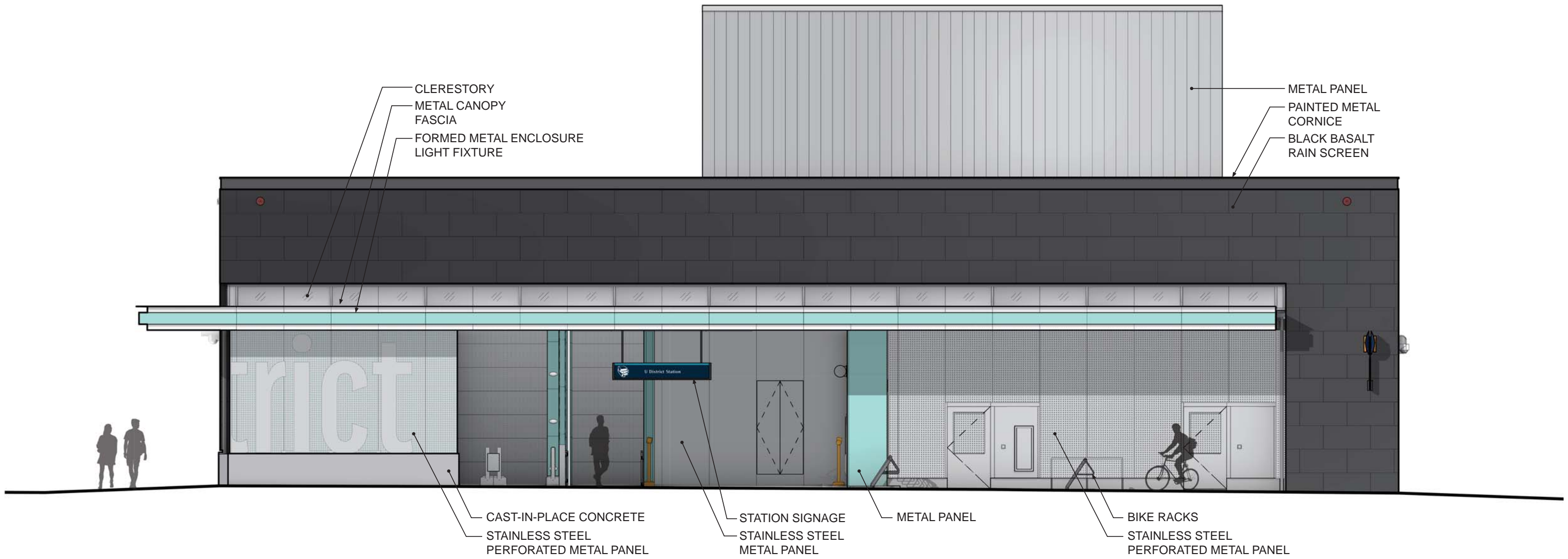
PERSPECTIVE - BROOKLYN AVE NE - NORTH ENTRY



SECTION PERSPECTIVE DIAGRAM



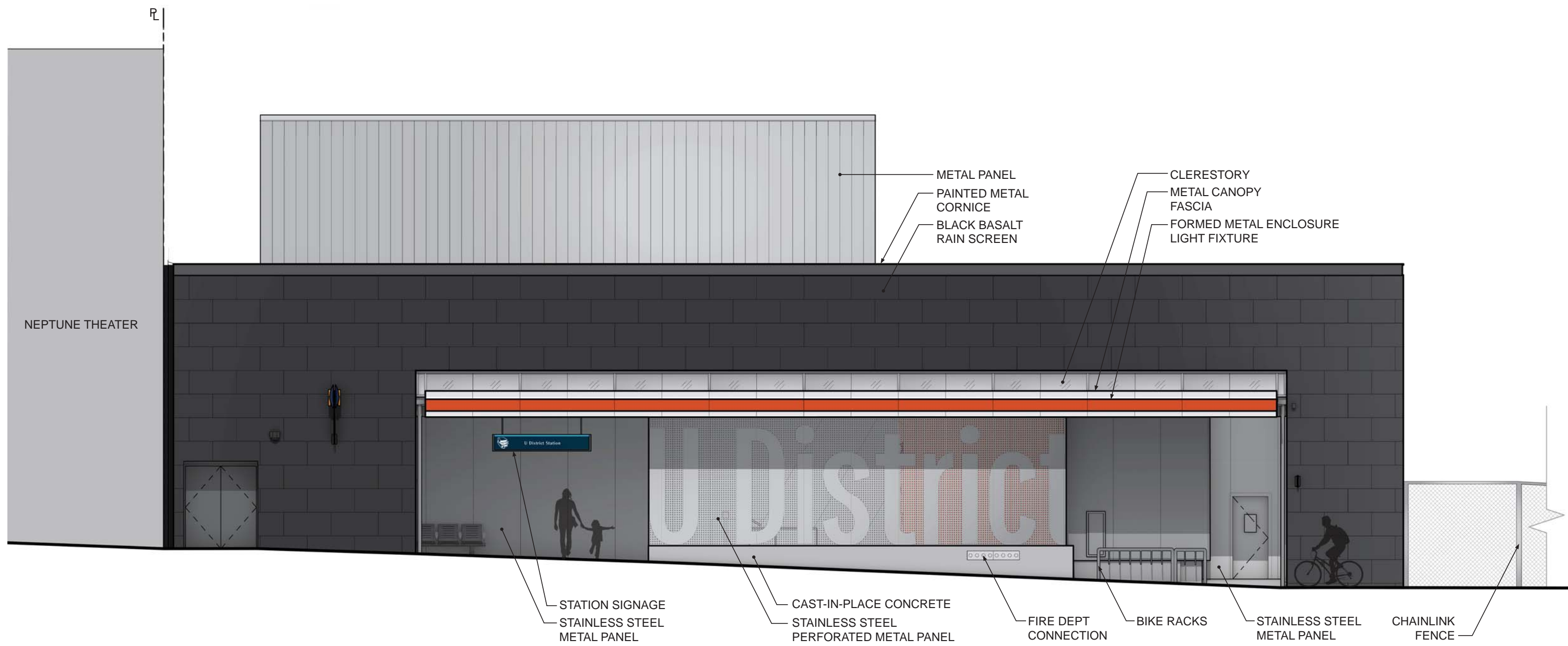
SOUTH ENTRANCE - WEST ELEVATION



SOUTH ENTRANCE - SOUTH ELEVATION



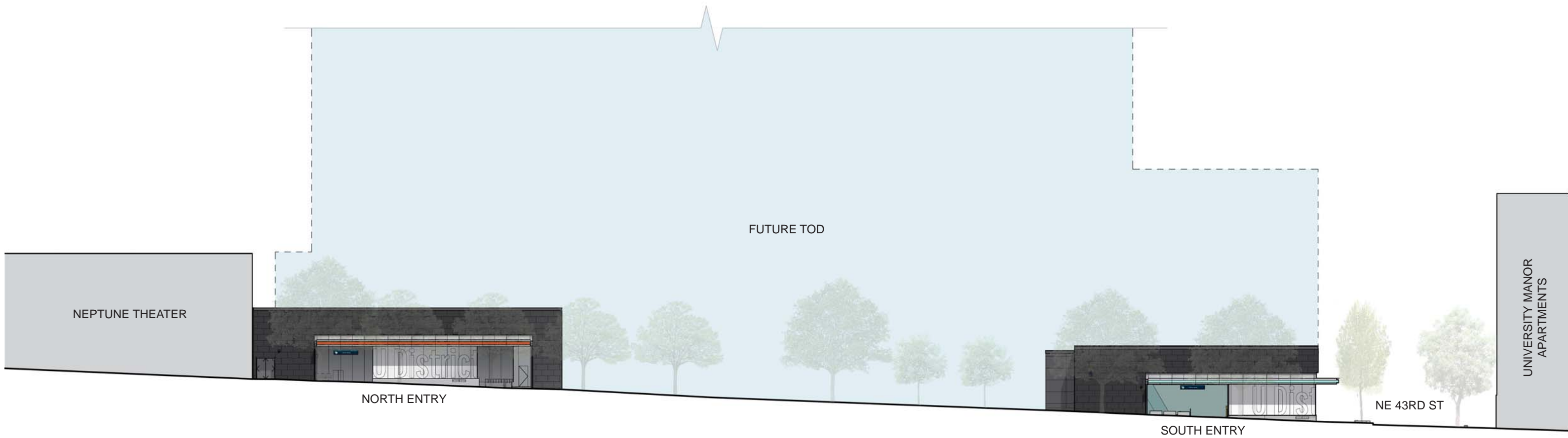
PERSPECTIVE - SOUTH LOBBY



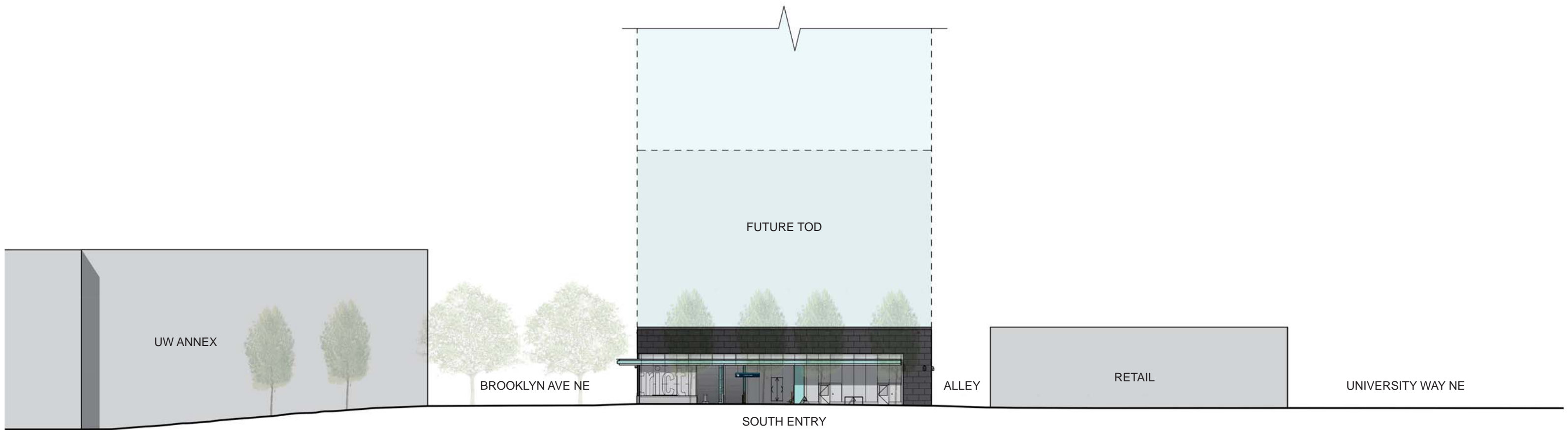
NORTH ENTRANCE - WEST ELEVATION



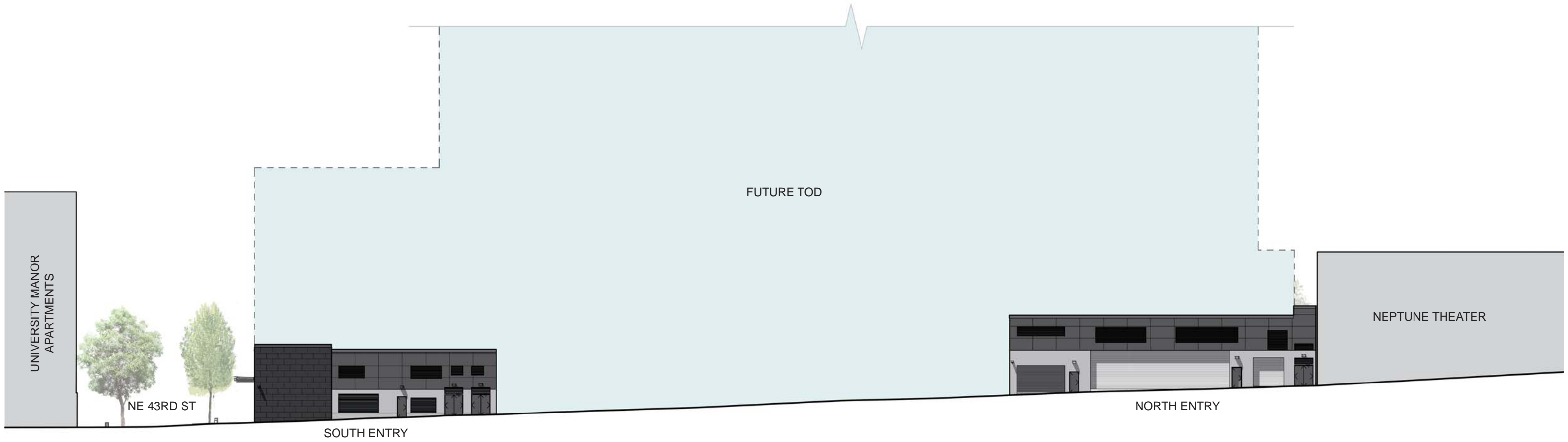
PERSPECTIVE - NORTH LOBBY



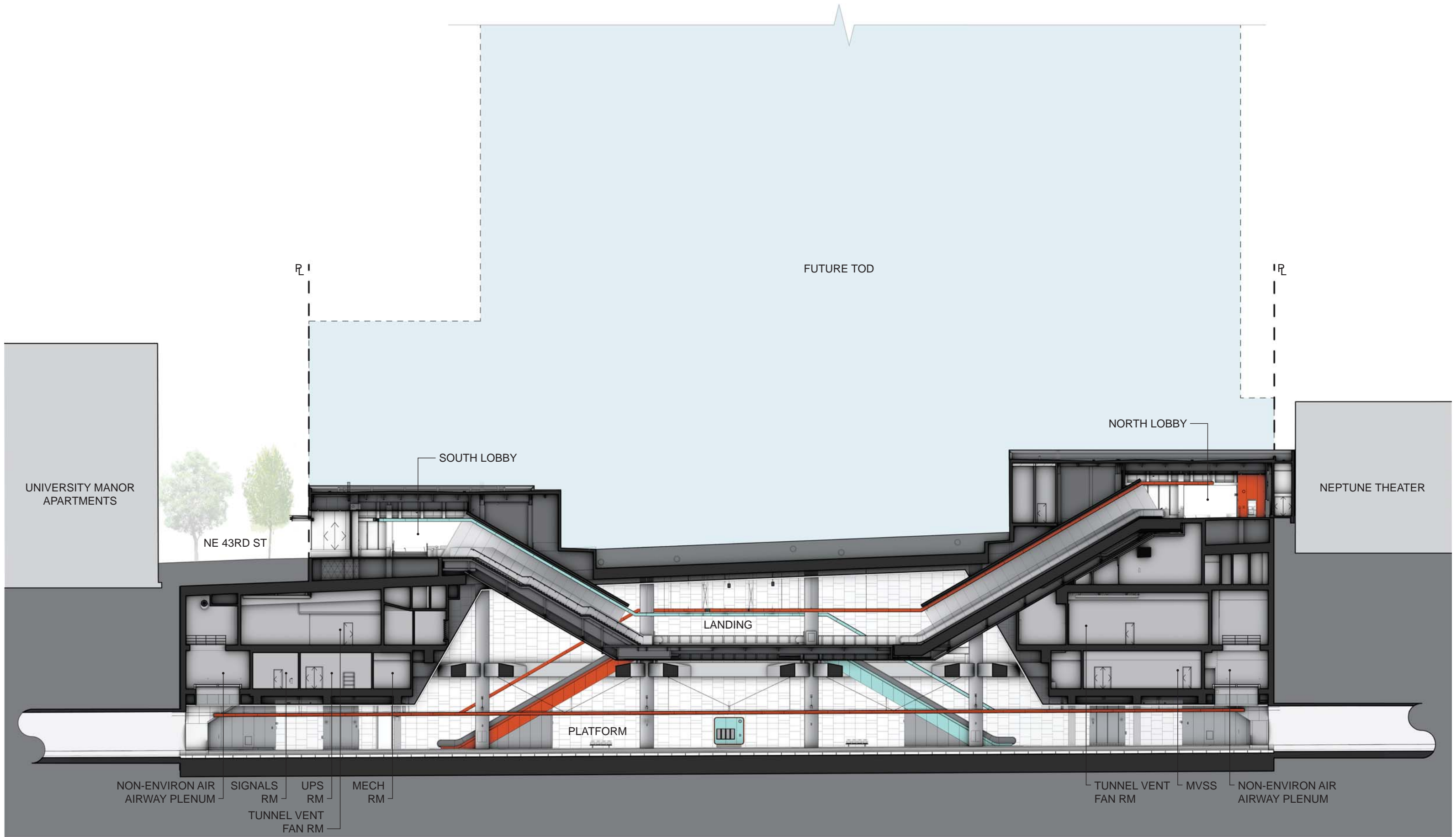
WEST ELEVATION



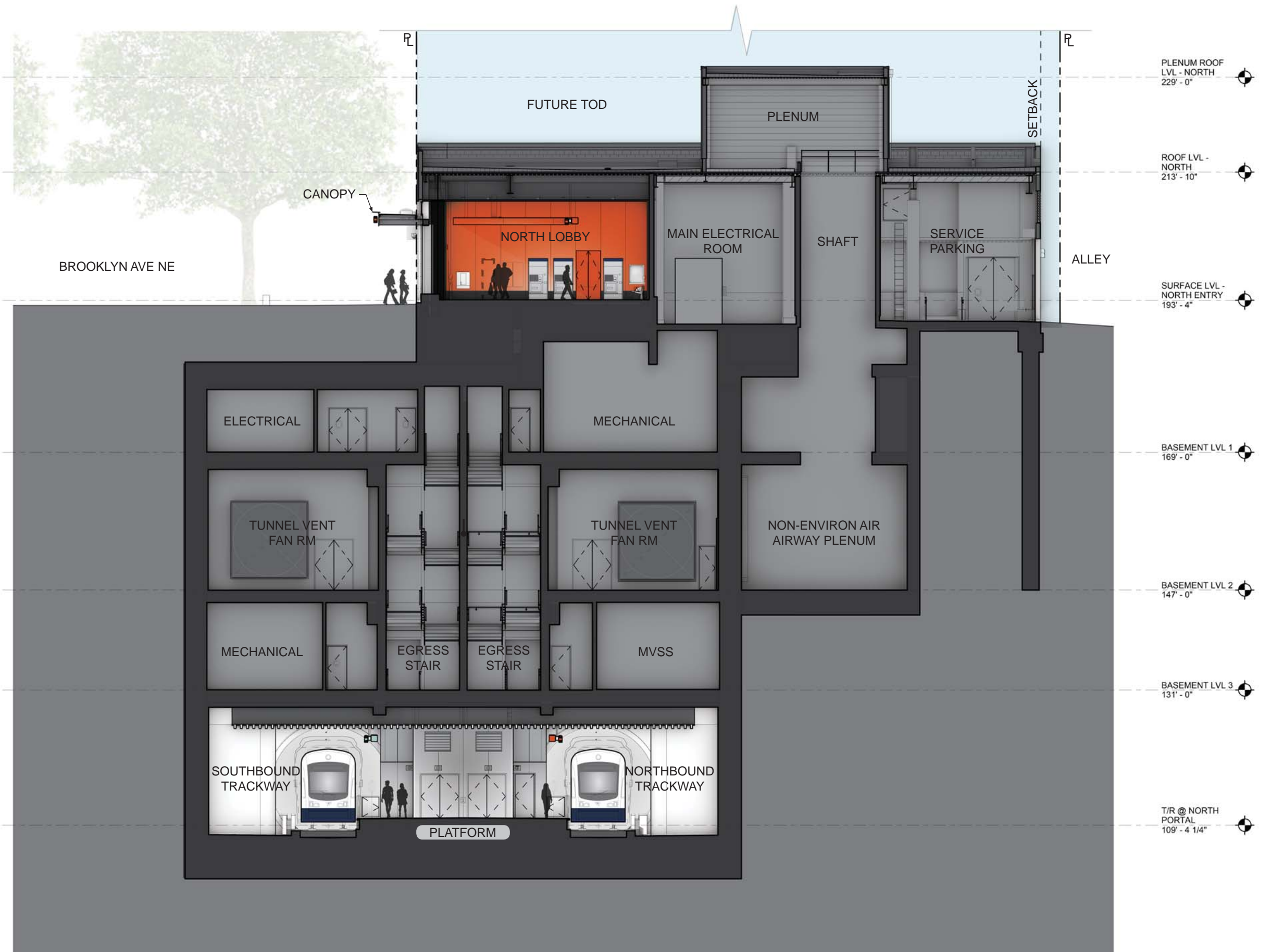
SOUTH ELEVATION



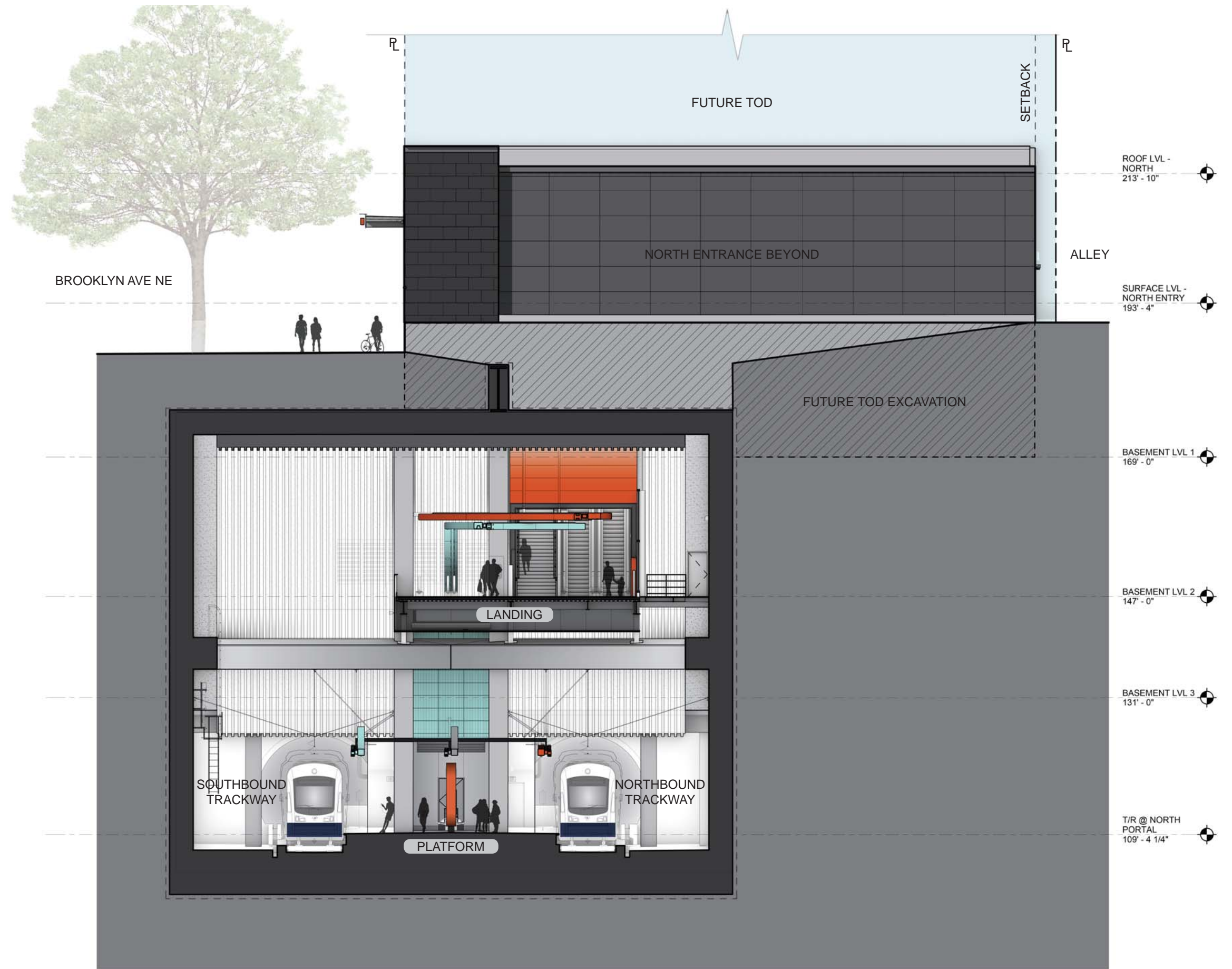
EAST ELEVATION



LONGITUDINAL SECTION - LOOKING EAST



CROSS SECTION @ NORTH ENTRANCE

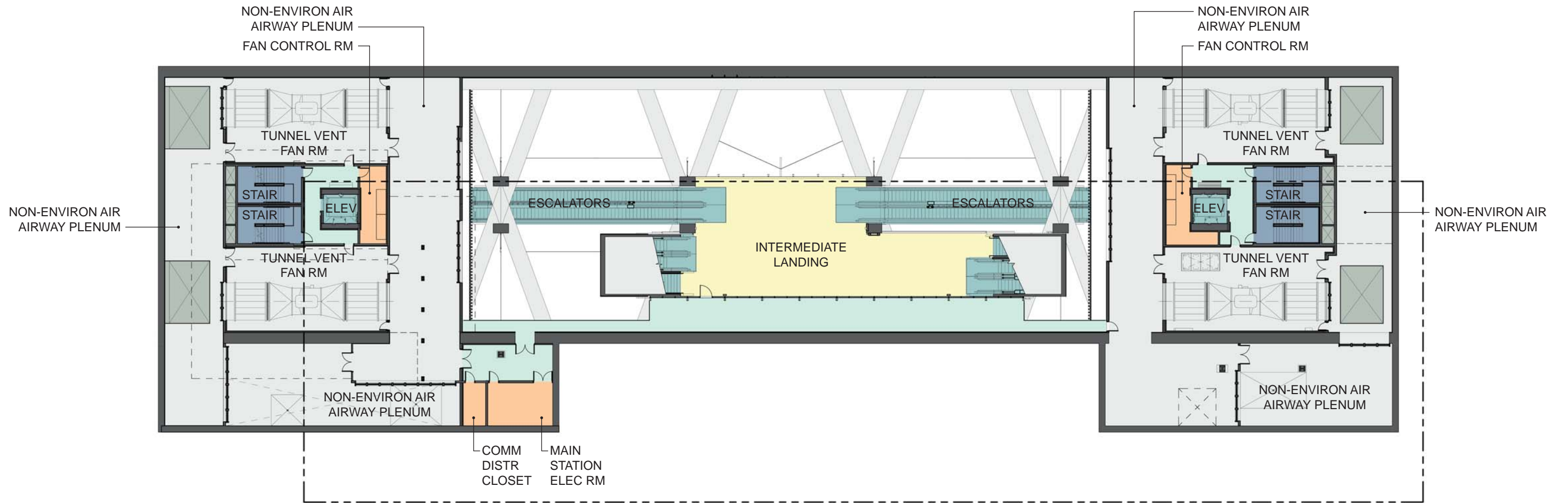


CROSS SECTION @ INTERMEDIATE LANDING










SITE PLAN





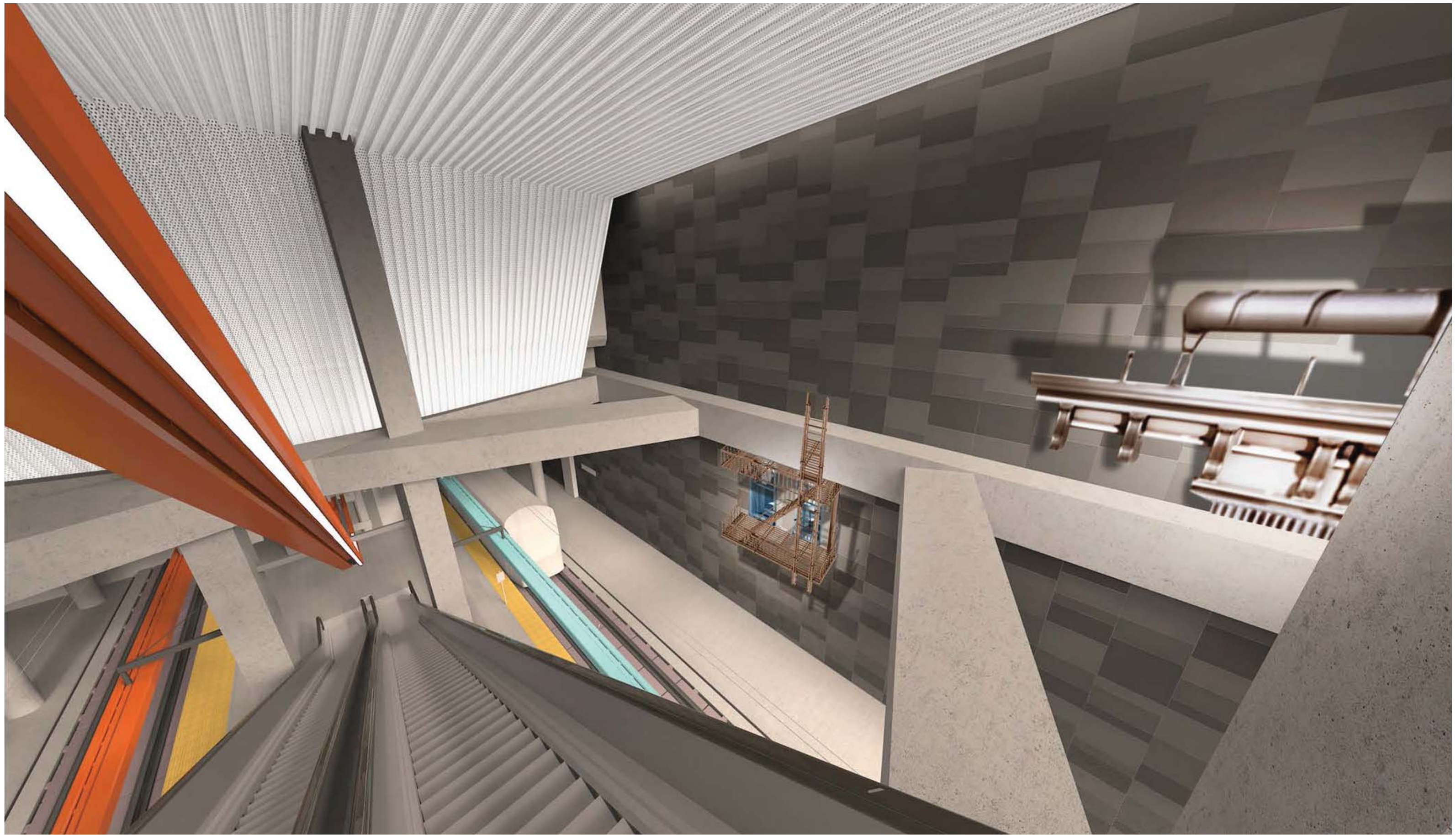
LEGEND

	PLATFORM / LANDING		ANCILLARY SPACE		SHAFT
	EDGE WARNING TILE		CIRCULATION		PUBLIC VERTICAL CIRCULATION
					EGRESS STAIR

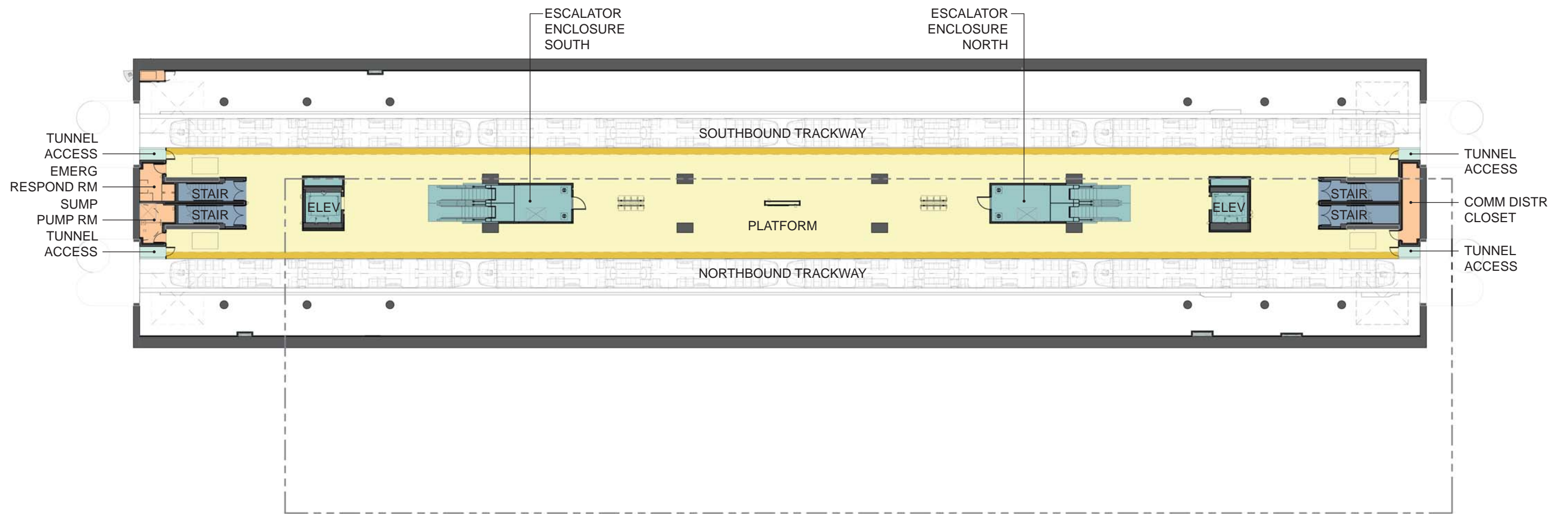
BASEMENT LEVEL 2 PLAN










PERSPECTIVE - INTERMEDIATE LANDING



VIEW OF ARTWORK ON DESCENT TO PLATFORM

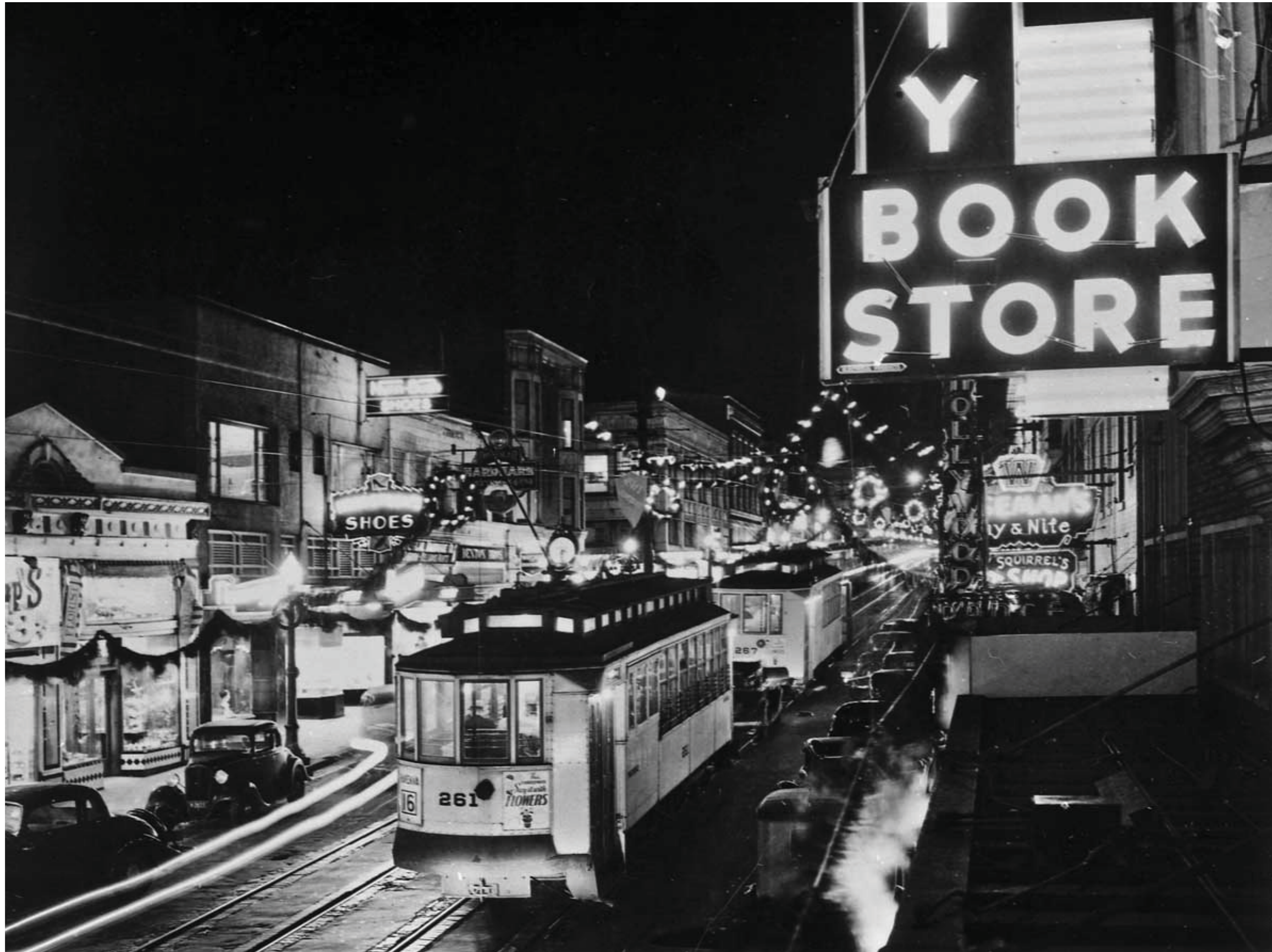


LEGEND		PLATFORM / LANDING		ANCILLARY SPACE		SHAFT
		EDGE WARNING TILE		CIRCULATION		PUBLIC VERTICAL CIRCULATION
						EGRESS STAIR

PLATFORM LEVEL PLAN



PERSPECTIVE - PLATFORM



PROJECT ARTWORK: LEAD PENCIL STUDIO



ARTWORK CONCEPTS:

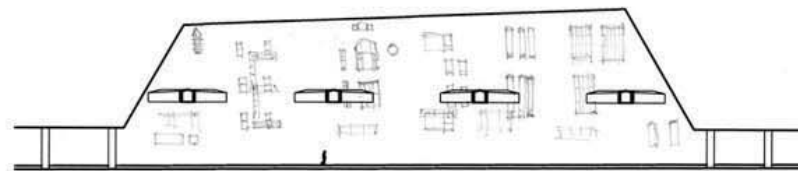
A NON-REPEATING WINDOW INTO OTHER WORLDS

EXPANSIVE + IMAGINARY CONTENT WITHIN A FAMILAR CONTEXT

DERIVED FROM STUDIES OF URBAN SURFACES
ROME PRIZE + NY PRIZE

ILLUSION OF AN UNDERGROUND CITY

USES THE LEXICON OF STREET AESTHETICS
FIRE ESCAPES, LADDERS, AWNINGS, WINDOWS
ALARMS, SIGNS, CORNICES, A/C UNITS



ORIGINAL ARTWORK CONCEPT

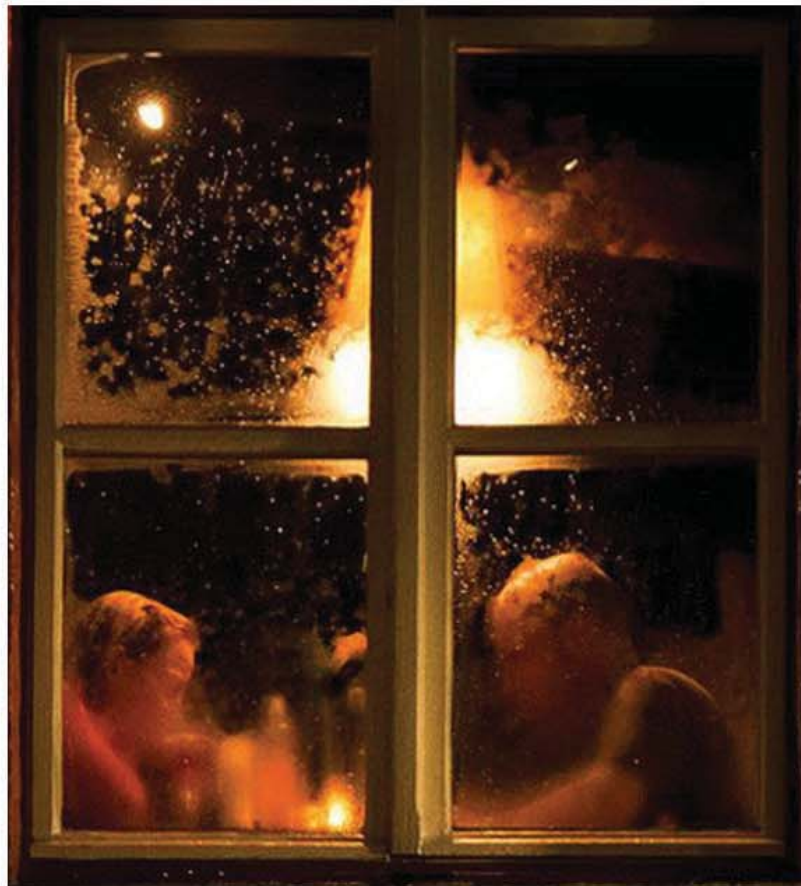


ALUMINUM REPOUSSÉ SCULPTURES IN THE FORM OF ARCHITECTURAL ORNAMENT,
WINDOWS, FIRE ESCAPES AND ROOFTOP MECHANICAL EQUIPMENT

ARTWORK ON PLATFORM WEST WALL

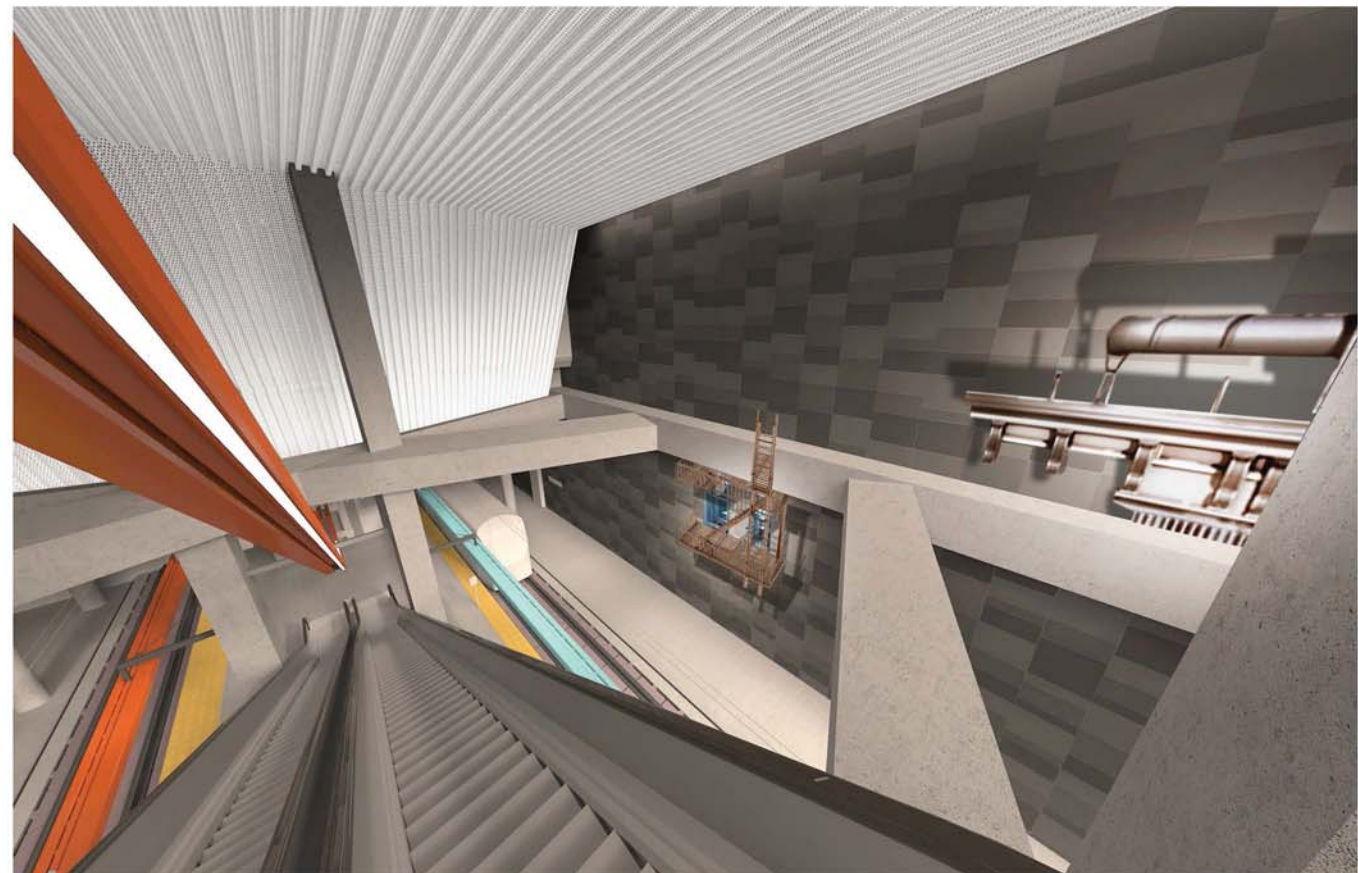
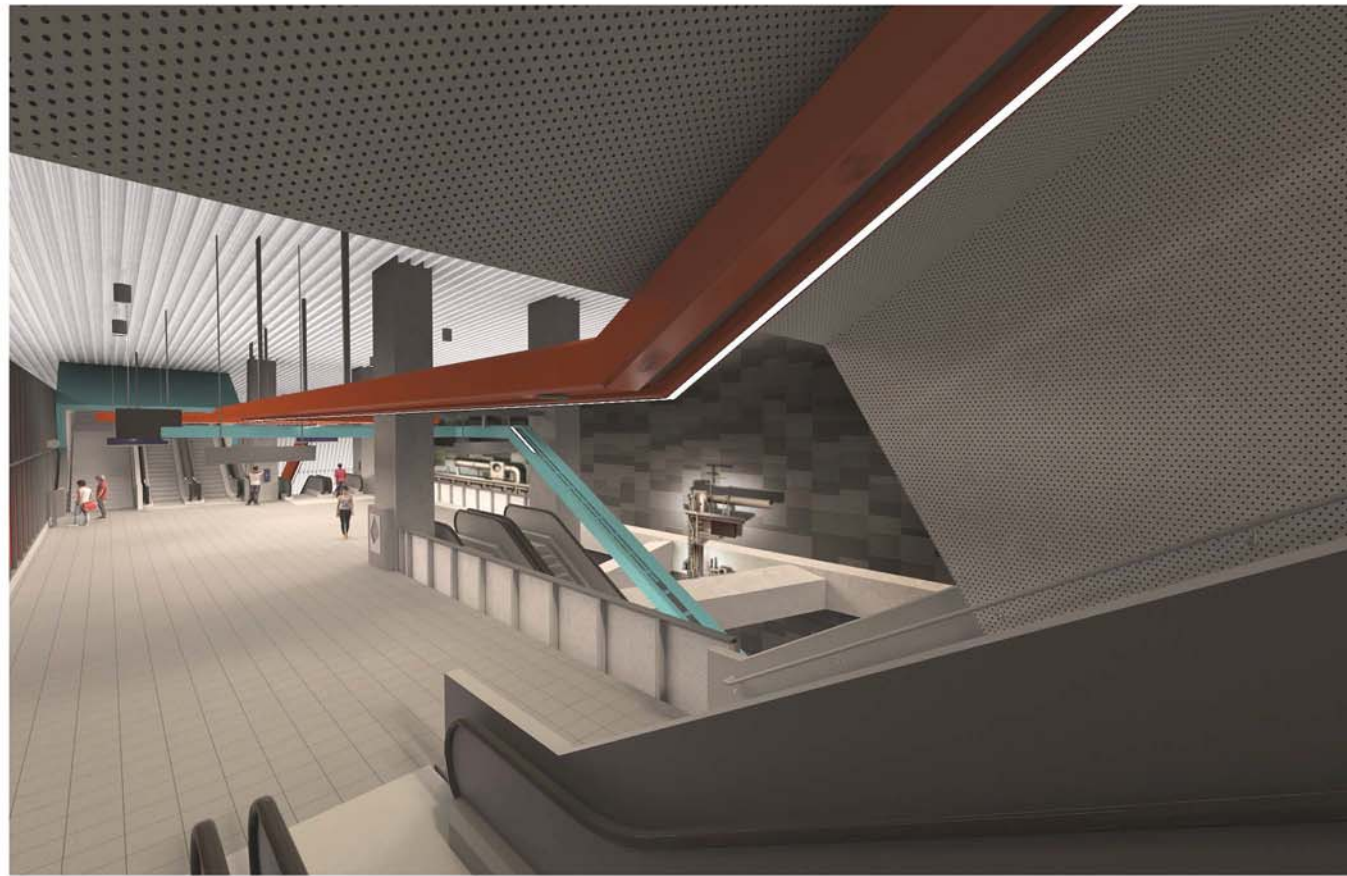


ARTWORK FABRICATION TECHNIQUE (REPOUSSÉ)



SAMPLE IMAGERY FROM THE UW SPECIAL COLLECTIONS

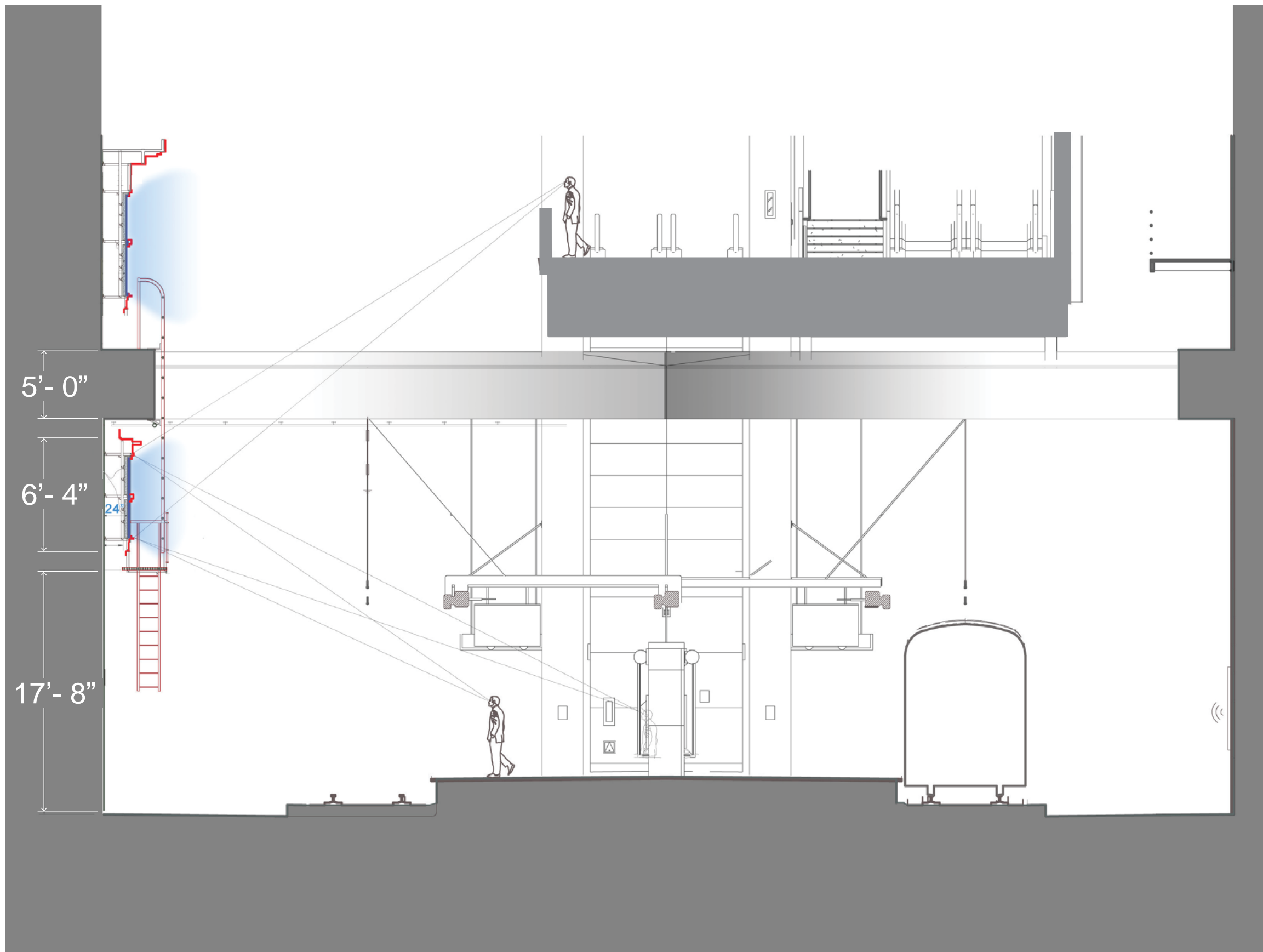
VIDEO IMAGERY SAMPLES



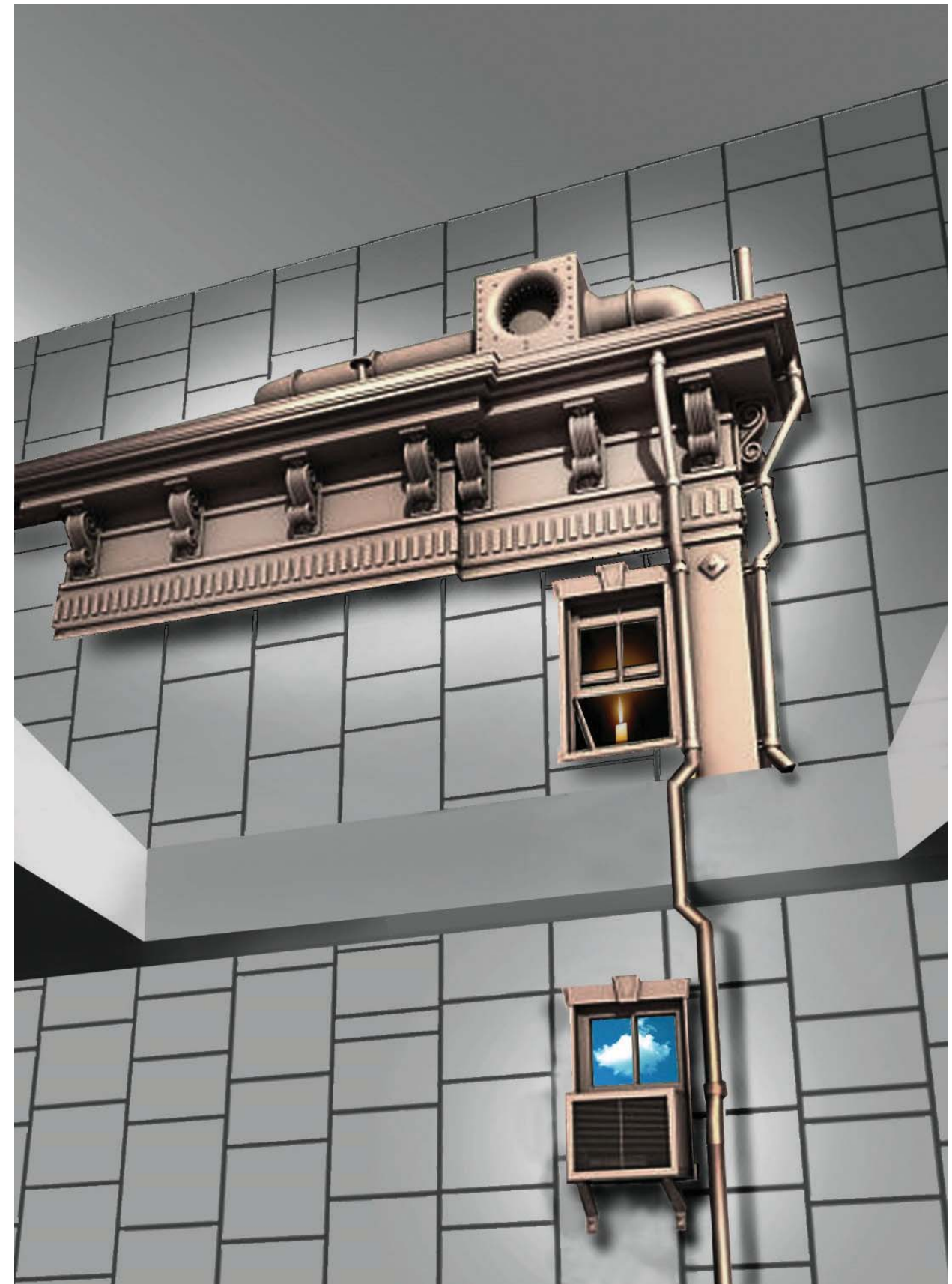
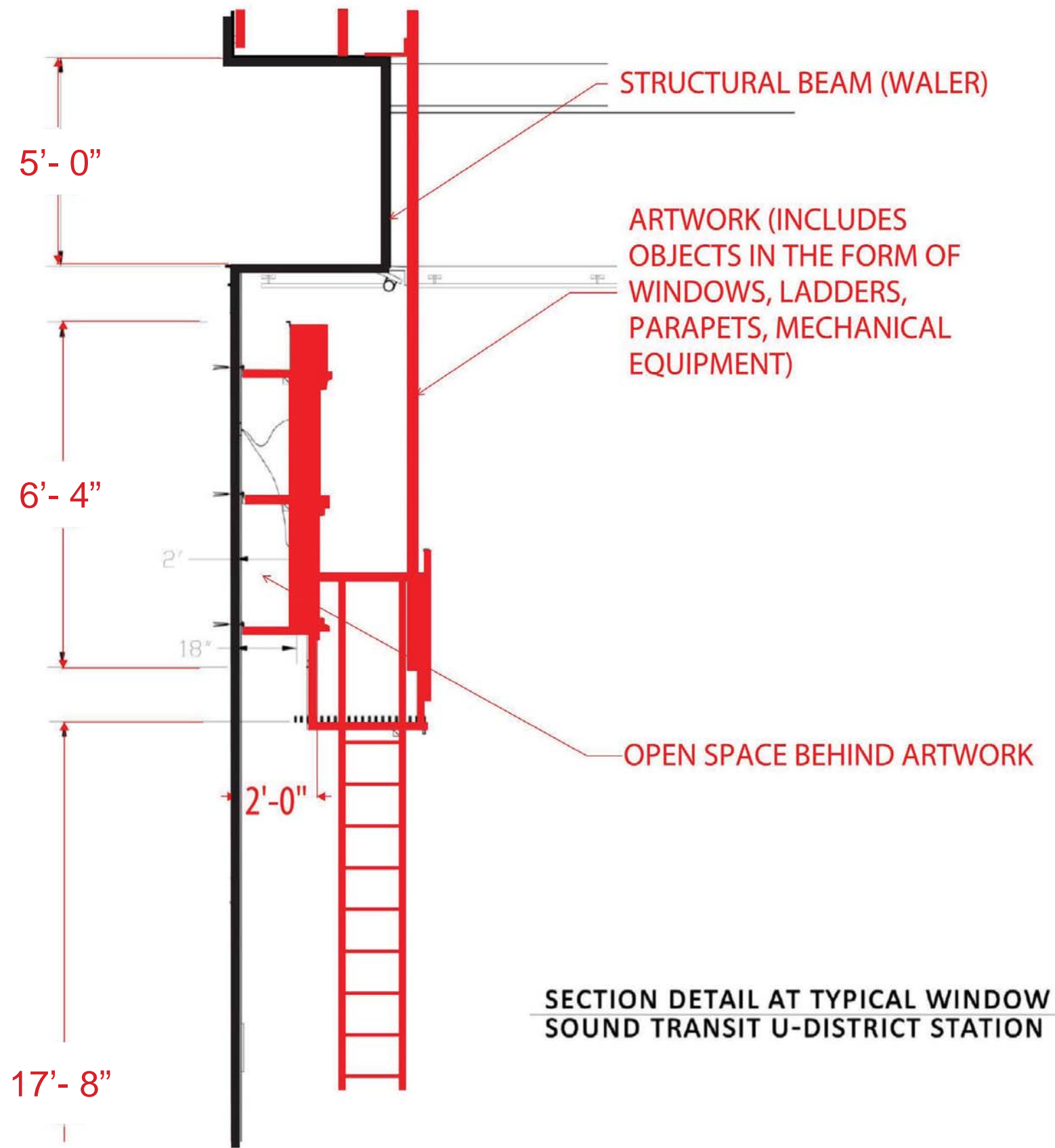
VIEW OF ARTWORK AT PLATFORM LEVEL



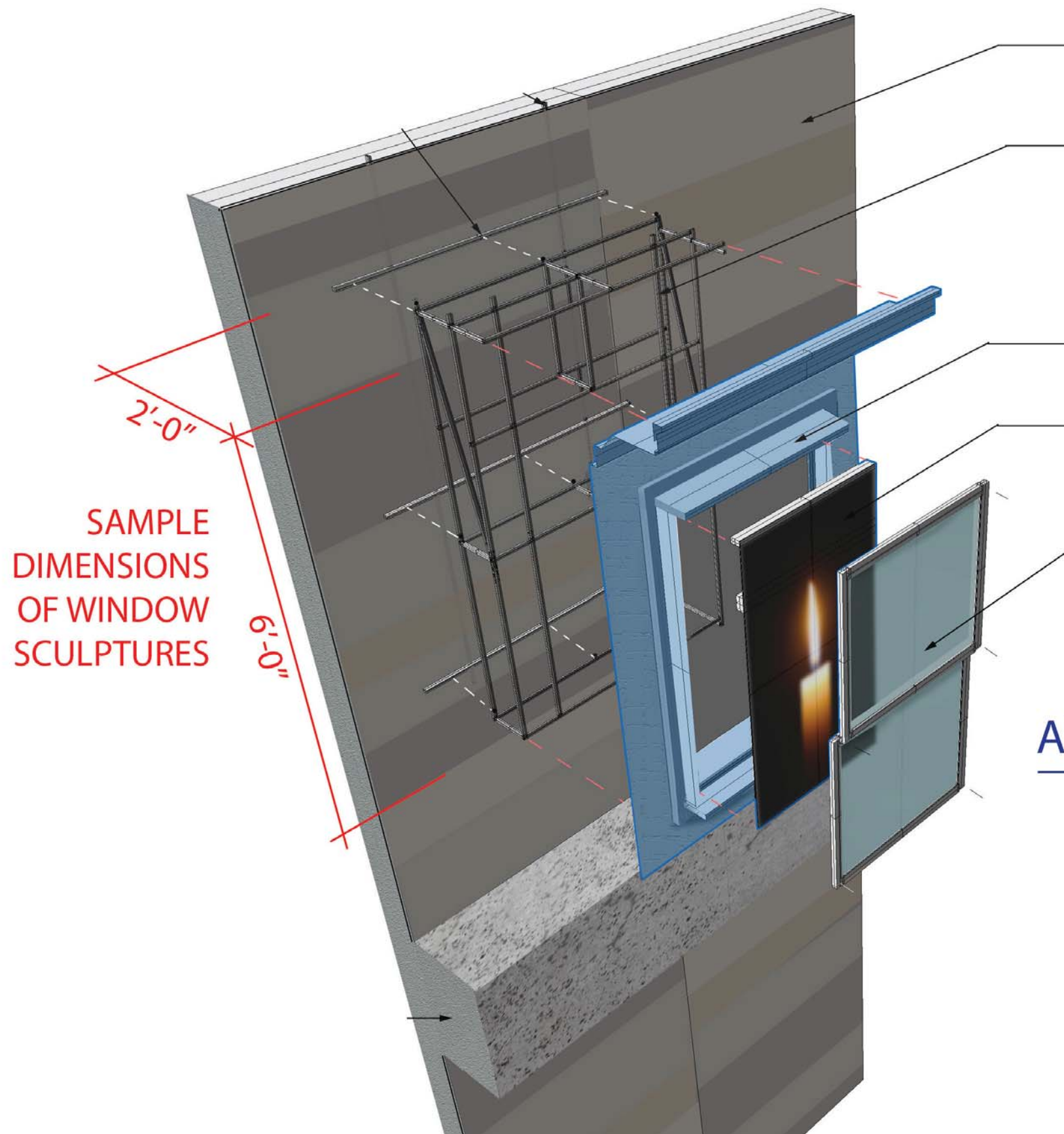
VIEW OF ARTWORK AT PLATFORM LEVEL



STATION SECTION SHOWING ARTWORK SIGHTLINES



SCULPTURE DETAILS



RESIN PANEL

ALUMINUM ARMATURE - 2 X 2 INCH HEAVY WALL TUBING MOUNTED TO EMBEDDED UNISTRUT

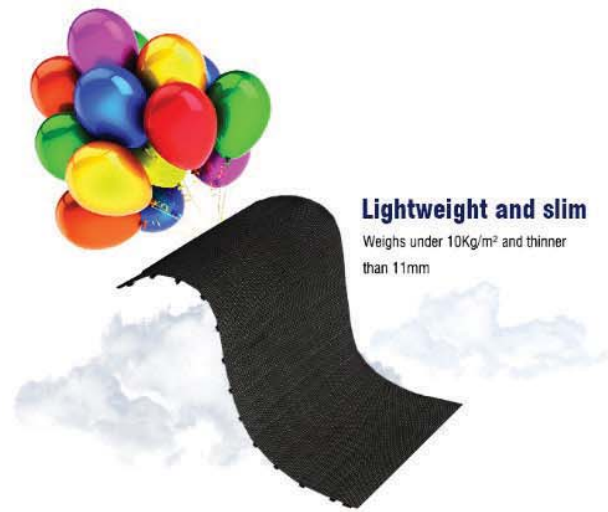
ANNEALED ALUMINUM REPOUSSÉ - HAMMERED ALUMINUM SCULPTURES ATTACHED WITH RIVETS TO ALUMINUM ARMATURE

LED MONITOR - (6MM RESOLUTION) REMOVABLE FROM FRONT, REPLACEABLE COMPONENTS

LAMINATED PROTECTIVE GLASS - REMOVABLE FROM FRONT OF ARTWORK

ARTWORK EXPLODED ASSEMBLY DIAGRAM

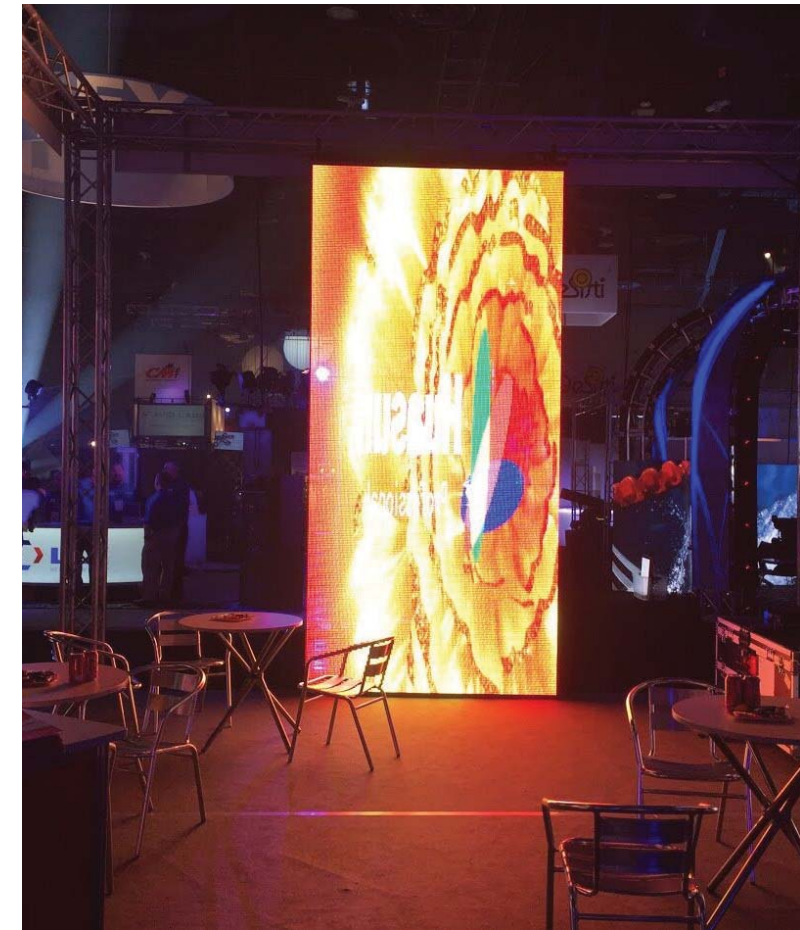
SCULPTURE EXPLODED ASSEMBLY DIAGRAM



Lightweight and slim
 Weighs under 10Kg/m² and thinner than 11mm

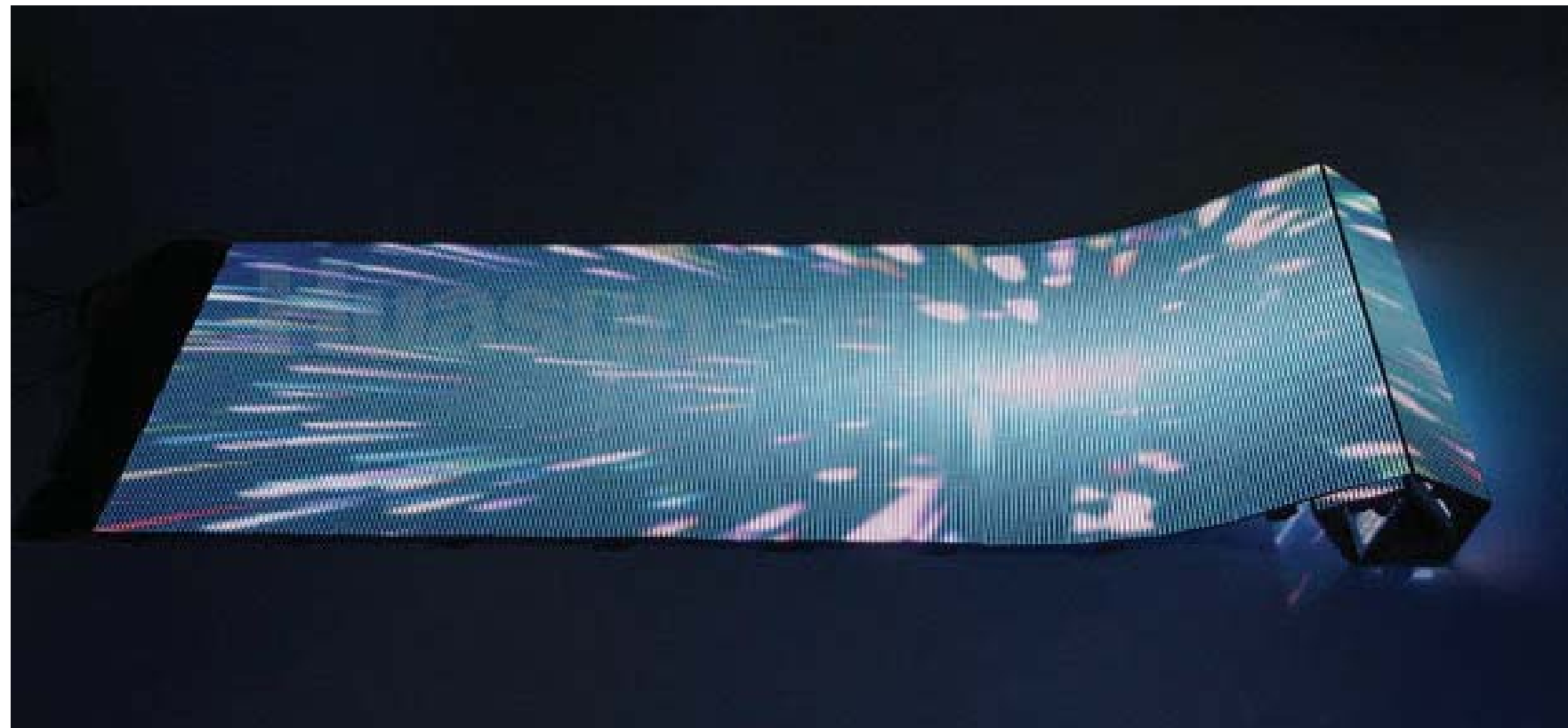


High refresh rate
 Excellent picture quality and stable performance with a refreshing frequency at 10000Hz



Easy and fast to install, No tools.
 The magnets make two LED panels connect perfectly.

Unparalleled flexibility
 Innovation and flexibility. Can made into irregular-shaped displays such as cylinder, triangle and cone etc



LED VIDEO SCREEN RESEARCH



VIEW OF ARTWORK AT PLATFORM LEVEL