

Pelli Clarke Pelli Architects

ARROWSTREET















ARUP











AGENDA

- Article 80 + Entitlement Process Overview
- Team Introductions + Project History
- Project Vision And Neighborhood Context
- Back Bay Station Renovation
- Back Bay / South End Gateway Project
 - Architecture
 - Landscape / Streetscape Improvements
 - Traffic & Parking
 - Wind & Shadow
 - Sustainability
- Q&A

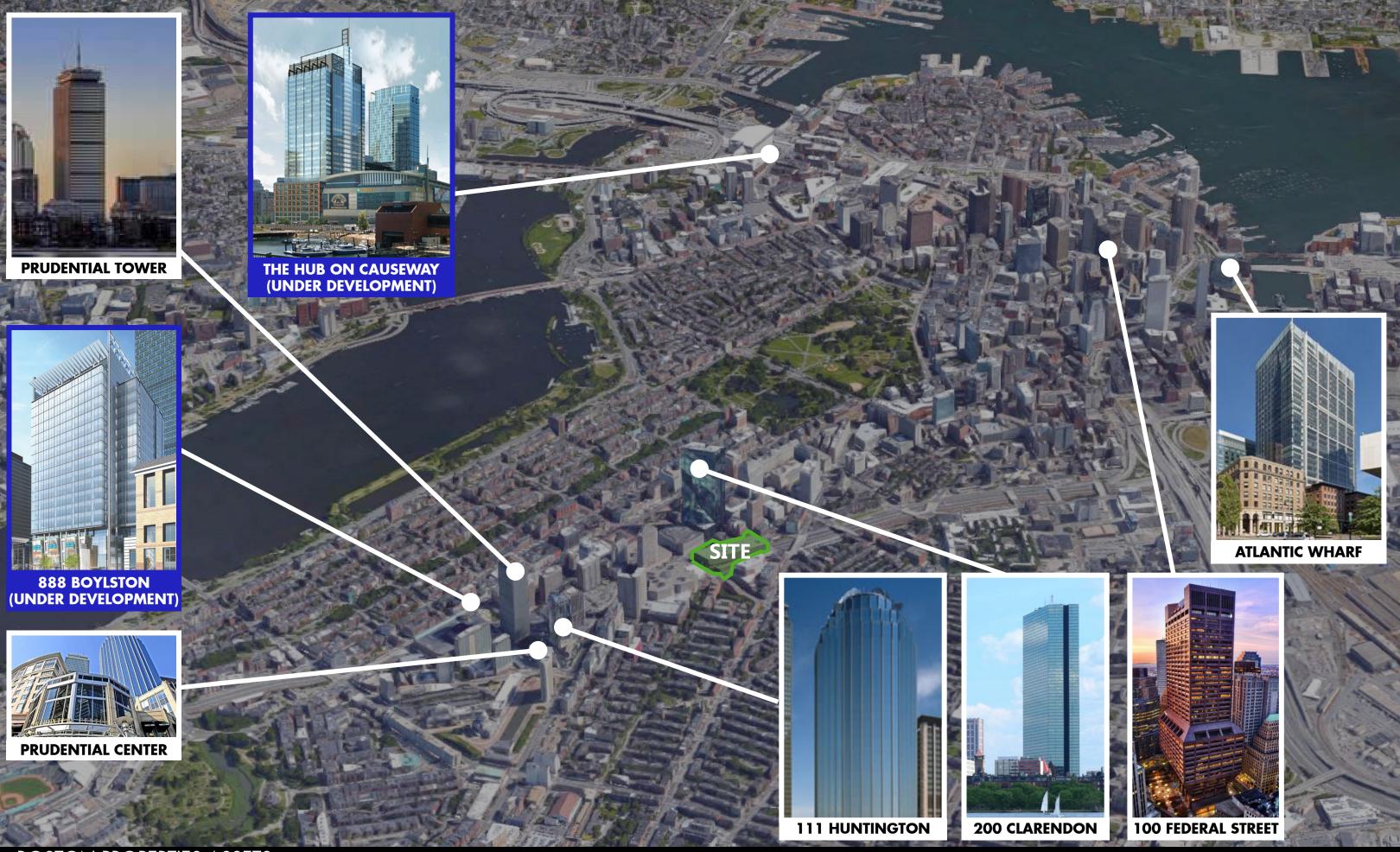
PROJECT STATUS

- Key Dates
 - PNF Filing
 March 29th
 - ENF Filing April 15th
 - City Scoping Session
 May 11th
 - Back Bay Public Meeting
 May 11th
 - MEPA Public Meeting
 May 18th
 - South End Public Meeting
 May 18th
 - MEPA Public Comment Period Ends
 May 31st
 - BCDC Meeting
 June 7th
 - PNF Public Comment Period Ends June 17th

PROJECT PROCESS

- Article 80 Review
 - PNF
 - DPIR (Draft Project Impact Report)
 - FPIR (Final Project Impact Report)
- MEPA Review (Concurrent)
 - ENF
 - DEIR (Draft Environmental Impact Report)
 - FPIR (Final Environmental Impact Report)
- PDA #2 (Planned Development Area)
 - Existing PDA Encompasses Garage Sites + Existing Building
 - Will Be Amended To Include Station Sites + Related Elements





BOSTON PROPERTIES ASSETS







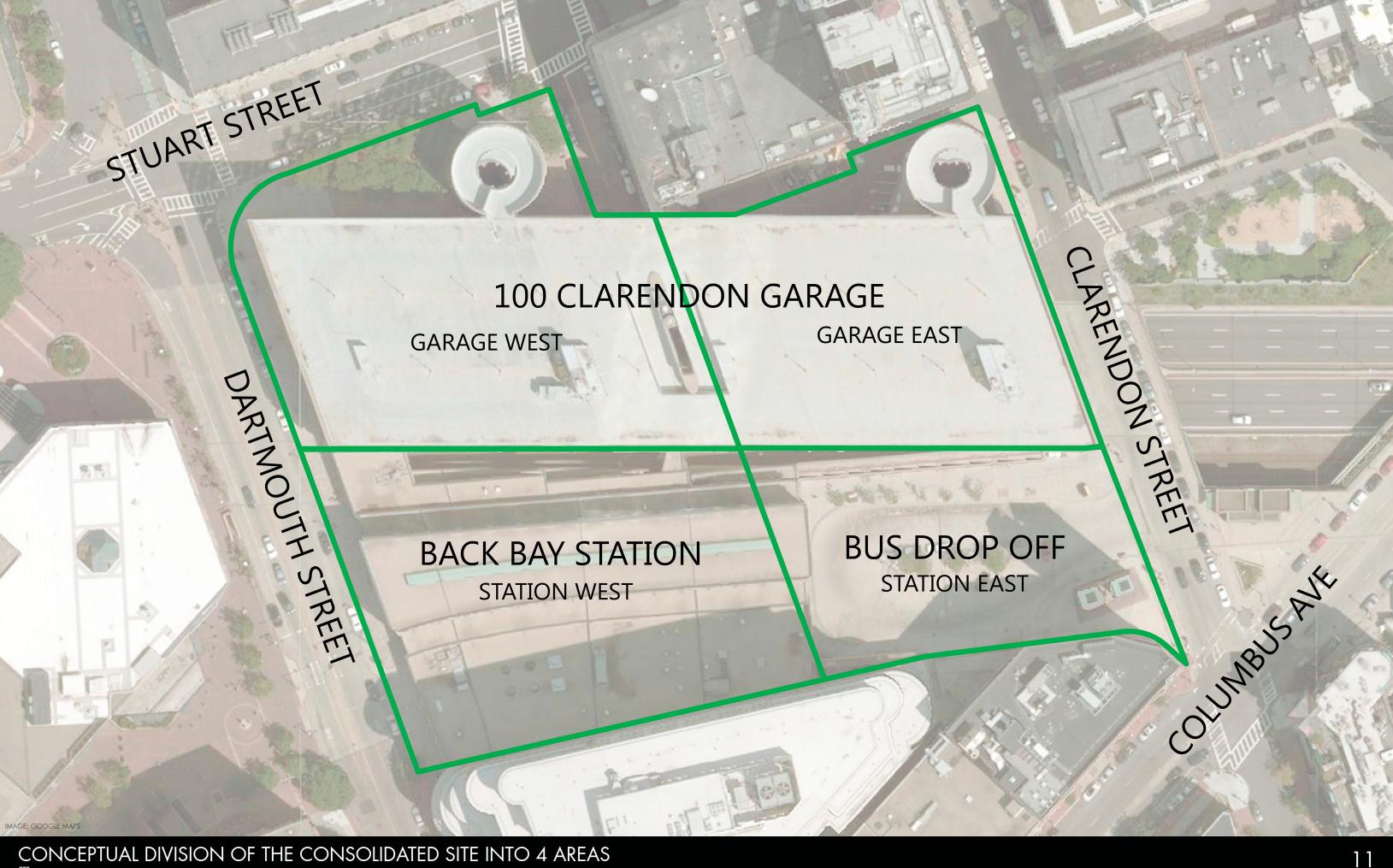




PROJECT HISTORY

- Lease Between MassDOT And Boston Properties
- Redevelopment Opportunity At The Garage
- MBTA Needed Funding For Station Renovation And Operational Assistance
- Successful Public-Private Partnership Was Formed:
 - BP To Fund And Execute An Extensive Concourse Renovation
 - BP To Contribute To MBTA-Led Track Level Ventilation Repair, And MBTA To Match
 - BP Assumed Property Management Responsibility Of Concourse On August 1st, 2015
- Additional Redevelopment Opportunity At The Station
- On-Ramp Closure Being Considered As A Separate Project







PUBLIC BENEFITS

- Approximately \$16 Million In Real Estate Tax Revenues For Boston
- Approximately \$5,500,000 In Housing Linkage And \$1,100,000 In Job Linkage Payments
- Approximately 2,500 Construction Jobs And 3,400 Permanent Jobs
- New Quality Housing Opportunities, Including Affordable Housing
- New Accessible Connections To The Station, Increasing Neighborhood Connectivity And Public Safety
- Significant Public Realm Improvements, In Compliance With BTD Complete Streets Guidelines, Activated By High Quality Street Frontage
- New And Diverse Retail Opportunities For Neighborhood Residents,
 Transit Customers And The Public At Large
- Innovative New Workplace Opportunities For A Variety Of Businesses

PROJECT VISION

- Opportunity To Reconsider The Entire Site Wholistically To Create A "Great Place"
- Centered Around Renovated And Upgraded Station
- Permeability Through Site And Increased Accessibility
- Connectivity Between Surrounding Neighborhoods
- Transformative, Transit-Oriented, Sustainable, Mixed-Use, And Phasable
- Respectful Of Stuart Street Zoning Regulations
 - Height, Density, Massing, Shadow, And Wind
- High Quality Architecture
- Lively And Welcoming Street Frontage And Public Realm
- Locate Office Residential And Retail Uses Thoughtfully
- Become A "Good Neighbor" and Worthy "Front Door" Into Boston

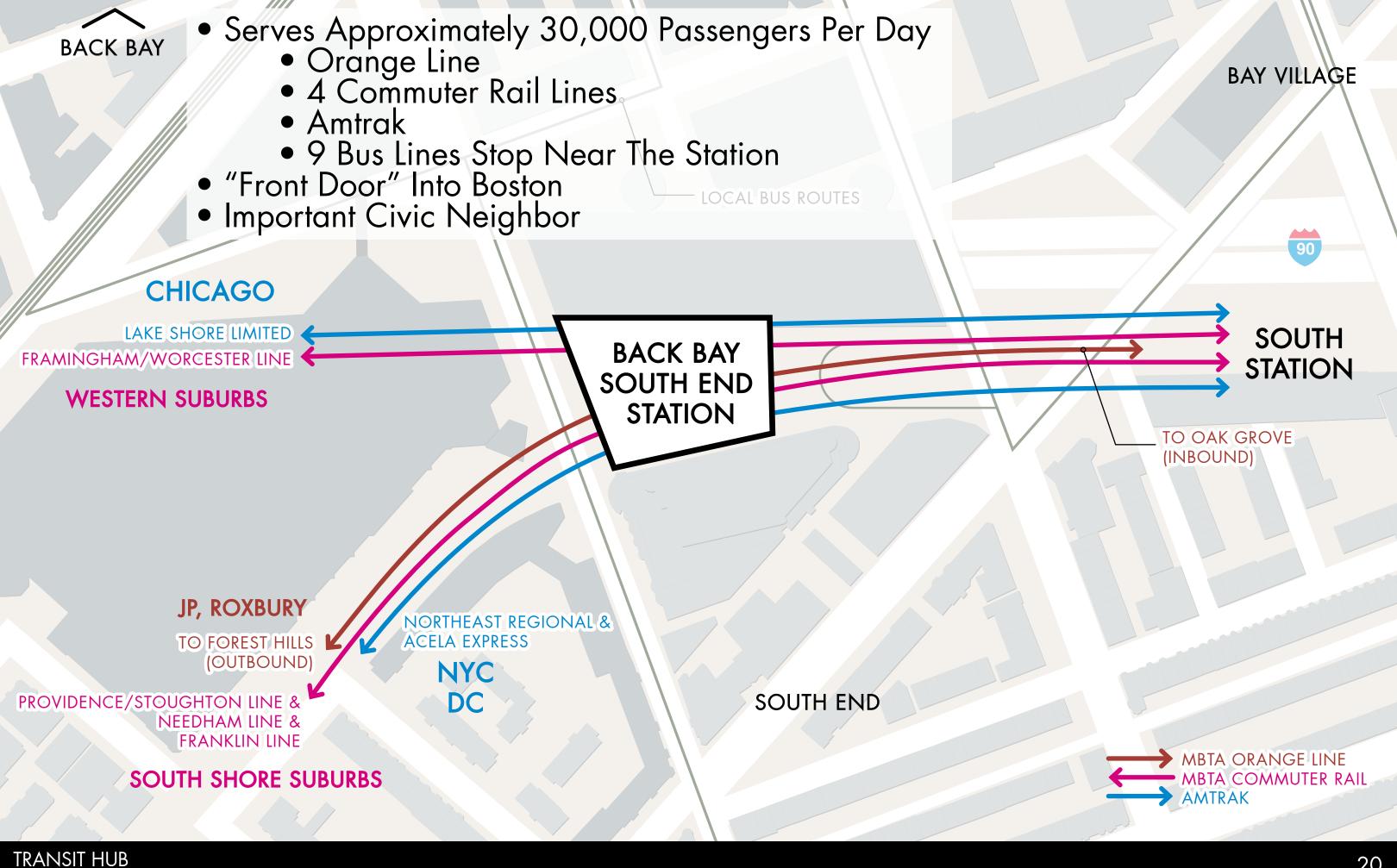












BACK BAY / SOUTH END STATION RENOVATION

- Separate From Air Rights Development; Different Permitting Process + Schedule
- Interior Renovation And Restoration
- Goals Of The Project Are:
 - Create A First-Class Transit Hub Of "Airport Quality"
 - Improve Customer Experience And Access
 - Generate Revenue To Support Station Operations
 - Allow MBTA To Focus On Train Operations, BP To Focus On Real Estate
- Schedule

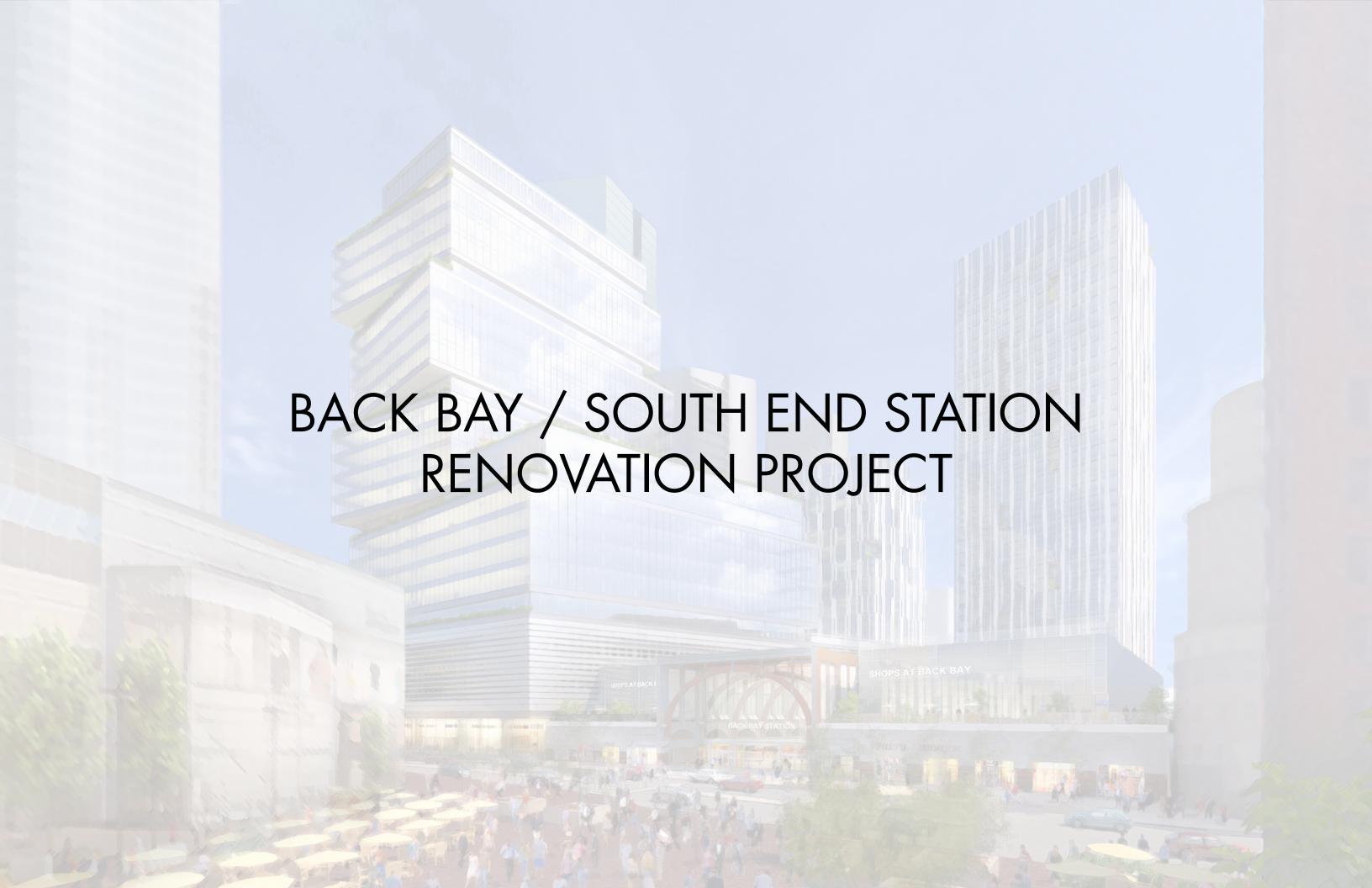
2015-2016: Initial Clean-Up

Working With MBTA On Design

2016: Restrooms

2017: Ventilation Project

2017: Major Renovation



1899



1928



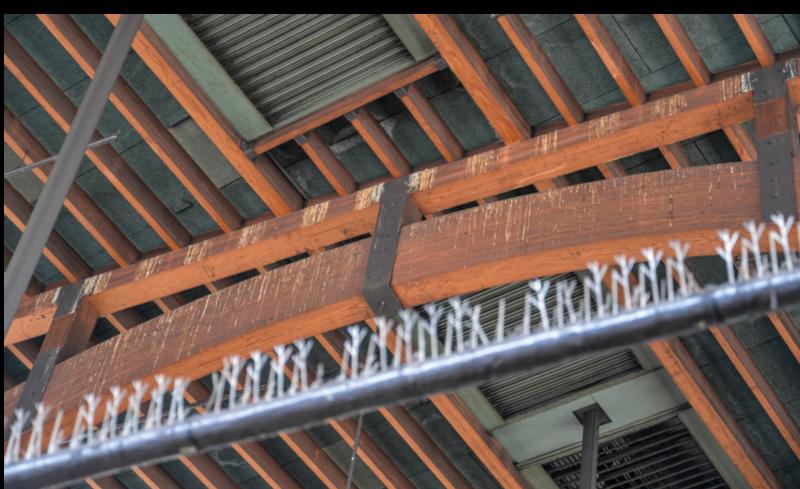


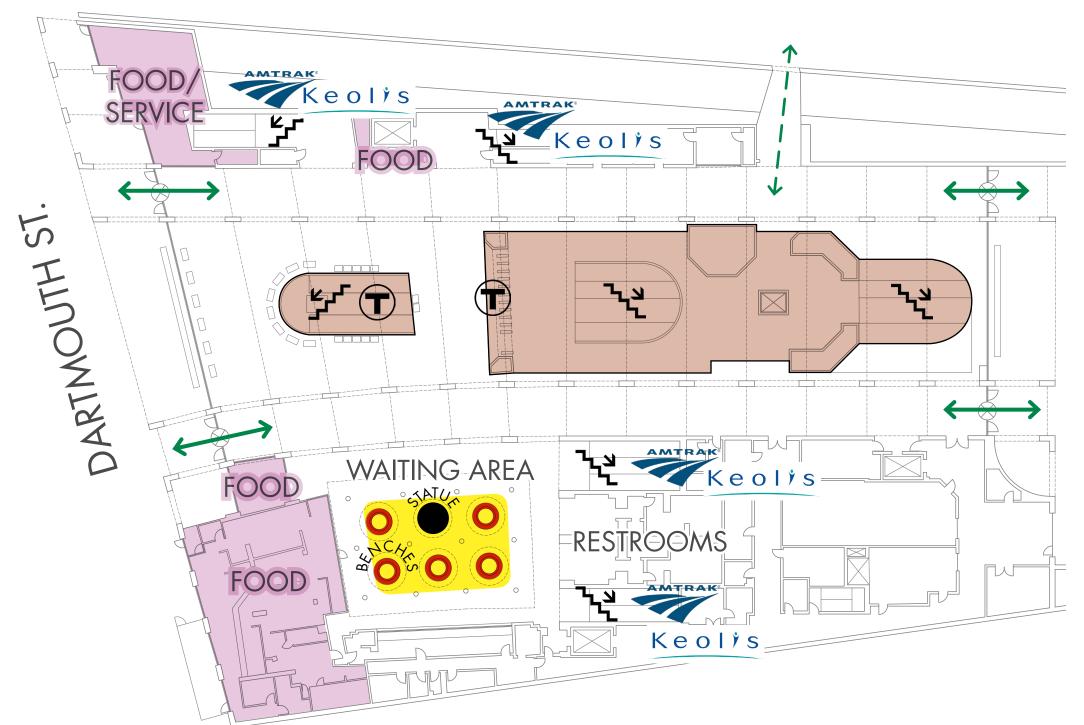












BACK BAY STATION NOW

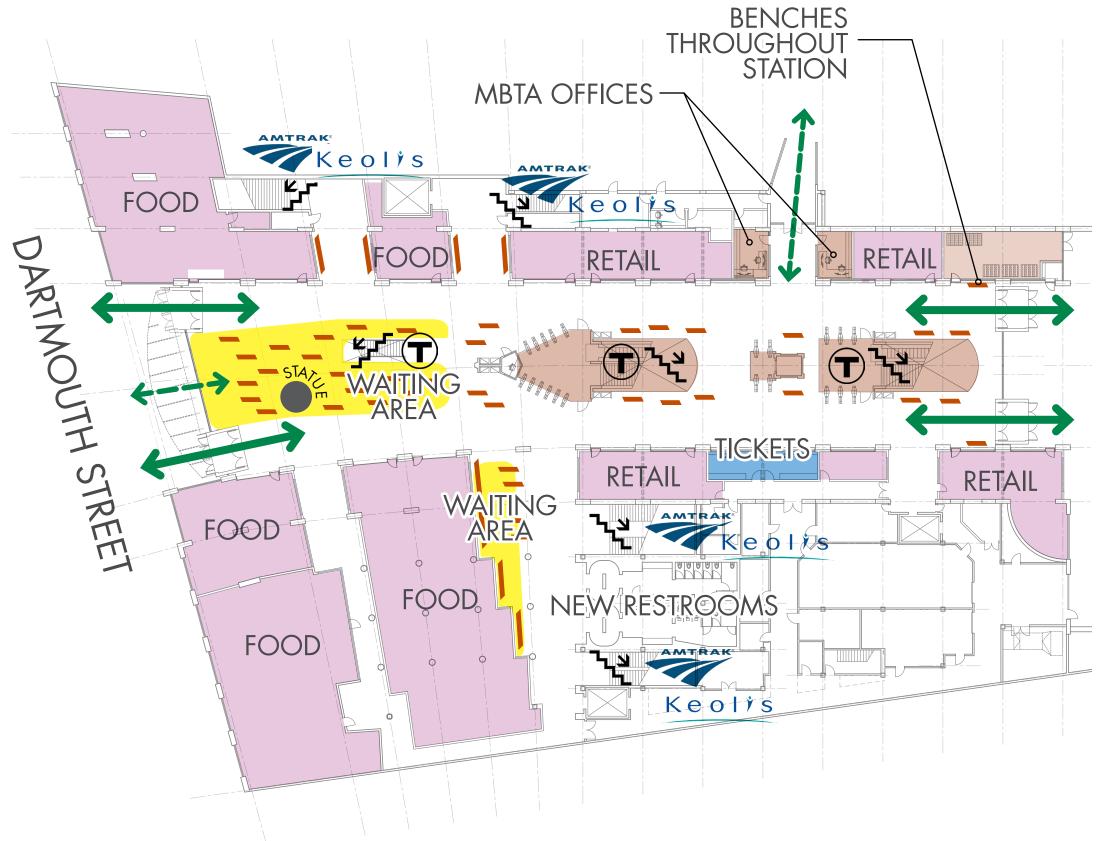
ENTRY AND CIRCULATION THROUGH LOW, DARK ARCADES

OVERSIZED ORANGE LINE AREA LIMITS CIRCULATION THROUGH STATION

ISOLATED AND CRAMPED WAITING AREAS

POOR VENTILATION

REBIRTH OF A MAJOR CIVIC SPACE



BACK BAY STATION FUTURE

NEW ENTRIES INTO CENTRAL HALL IMPROVE CIRCULATION, EGRESS, AND TAKE ADVANTAGE OF GREAT CIVIC SPACE

INCREASED AND BETTER DISTRIBUTED ORANGE LINE FARE GATES IMPROVE TRACK ACCESS

IMPROVED WAITING AREAS AND DISTRIBUTED BENCHES

AMTRAK AND KEOLIS TICKETING CENTRALLY LOCATED TO BE MORE VISIBLE

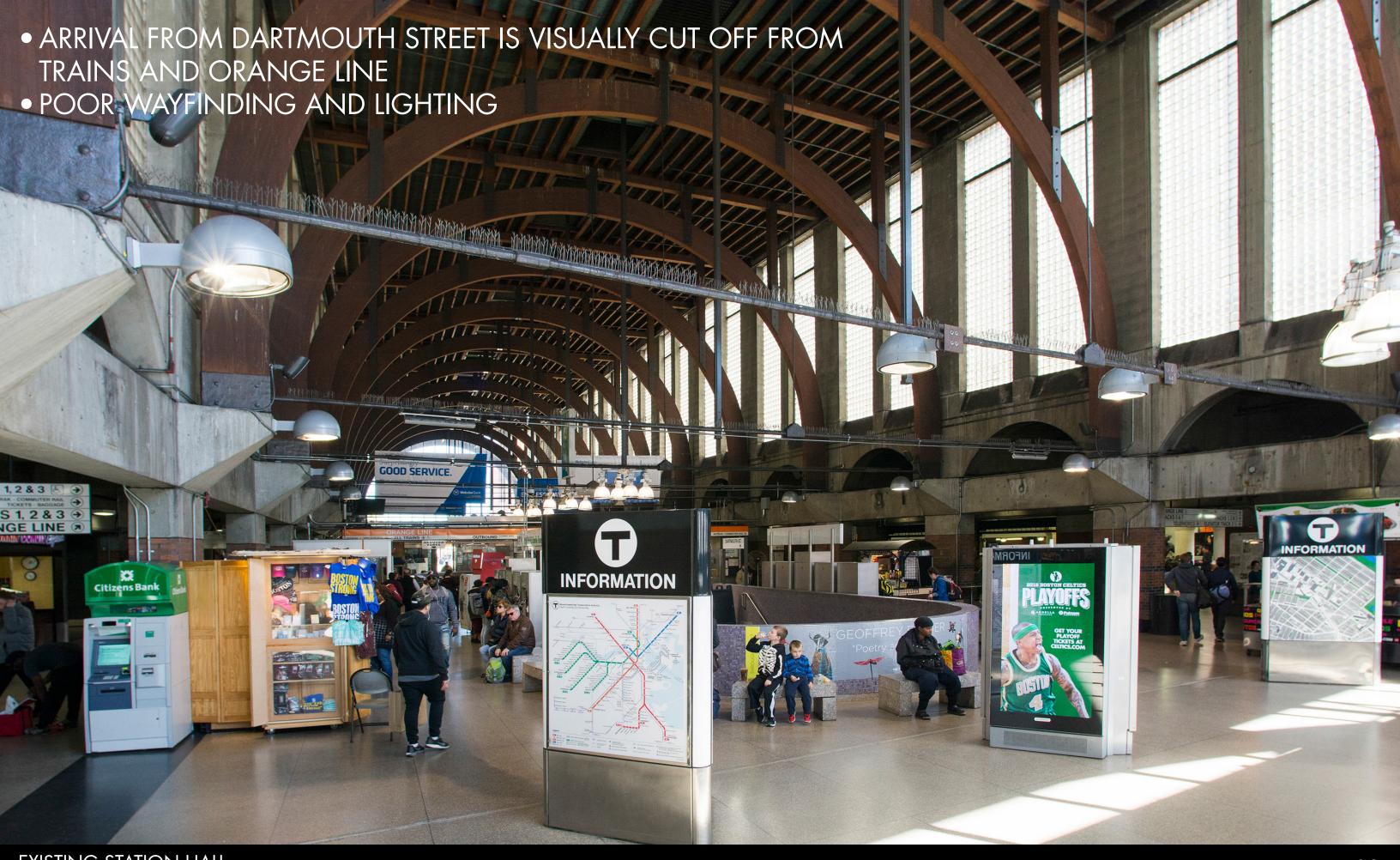
IMPROVED MBTA FUNCTIONS AND OFFICES

NEW EXPANDED AND DISTRIBUTED RETAIL TO ACTIVATE CENTRAL HALL AND IMPROVE STREETSCAPE ENVIRONMENT

NEW PUBLIC ART STRATEGY







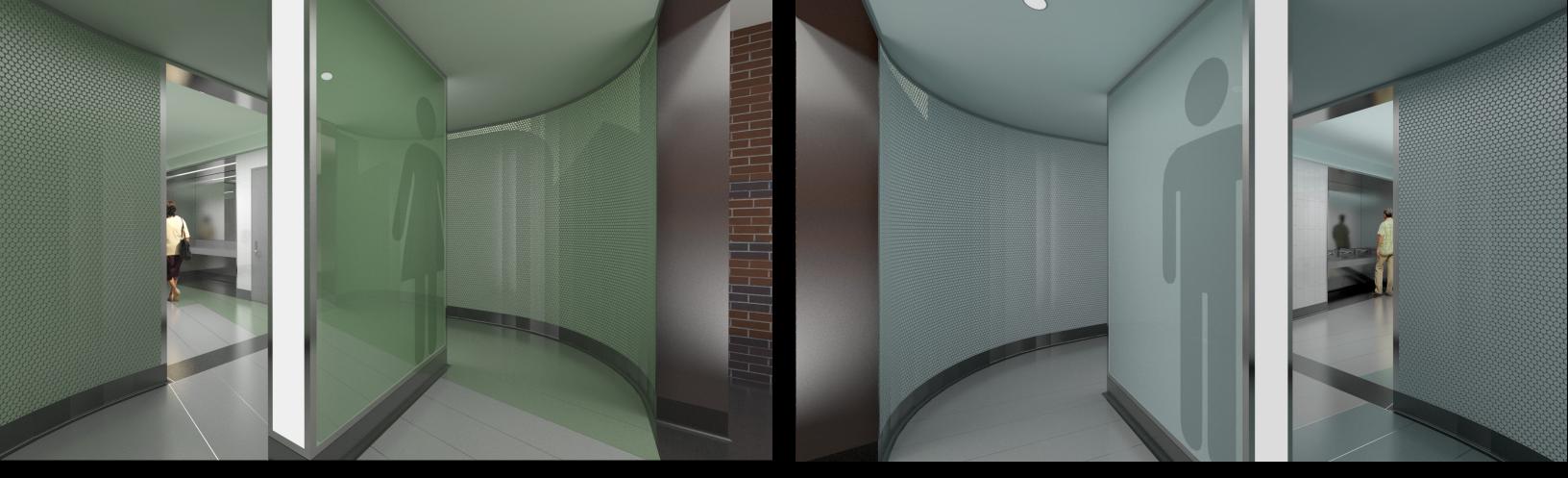


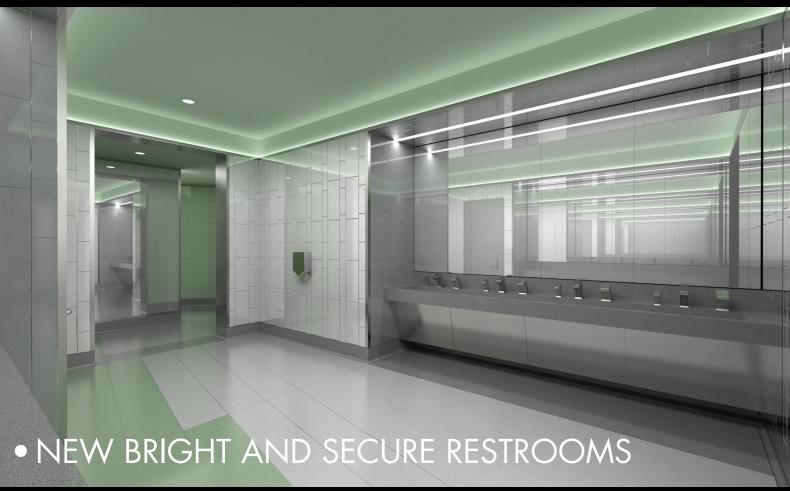




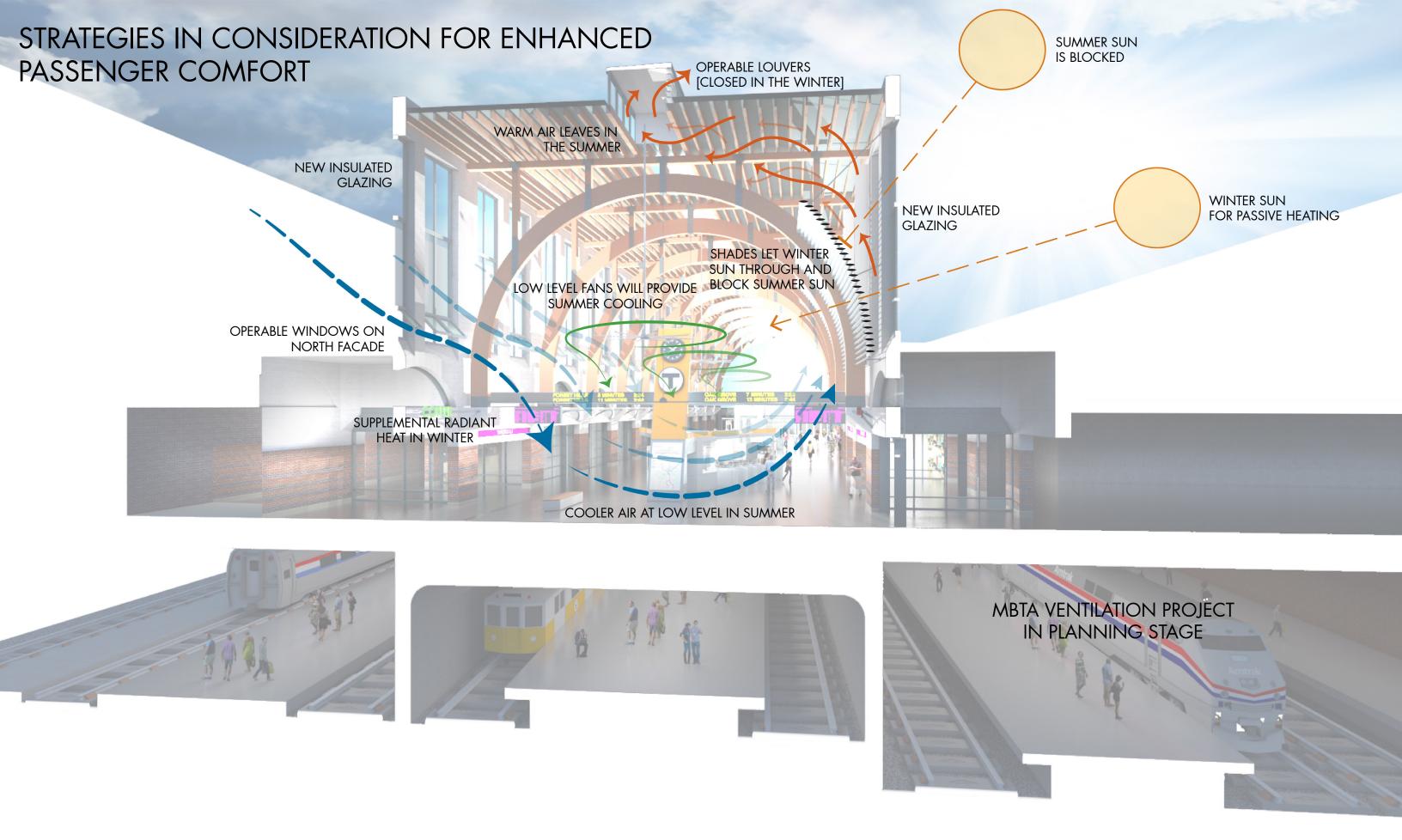








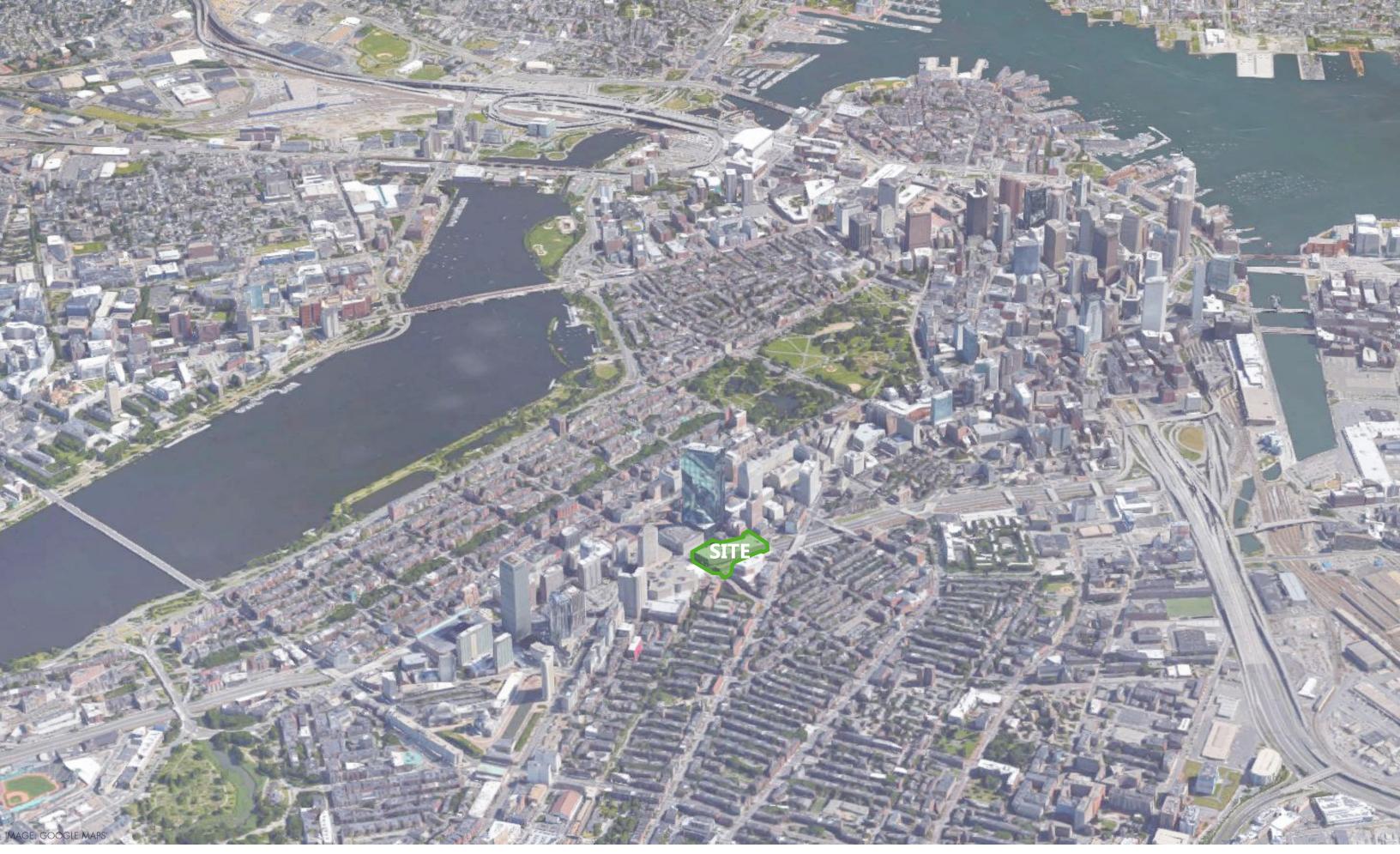




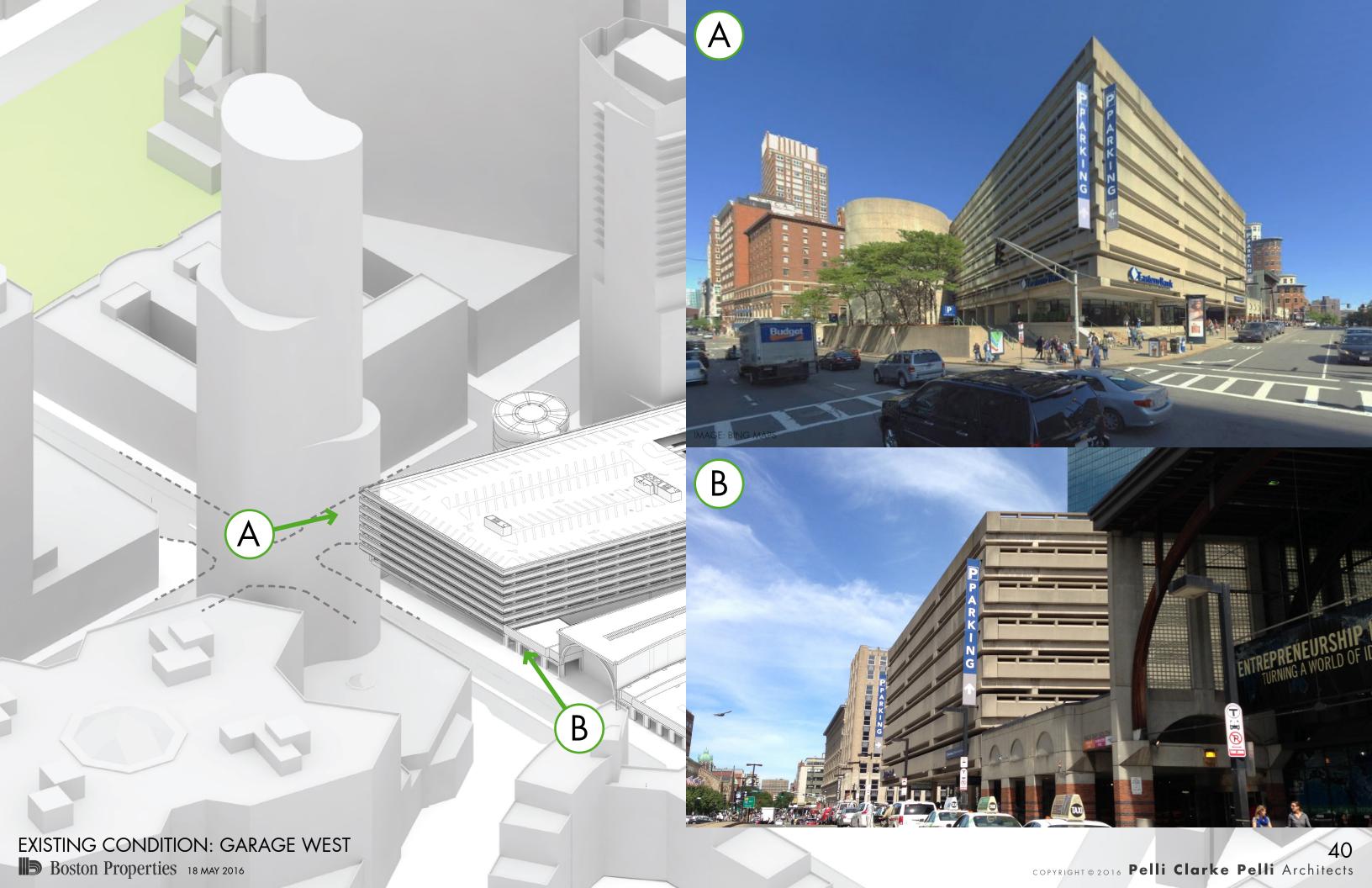
GUIDING PRINCIPLES

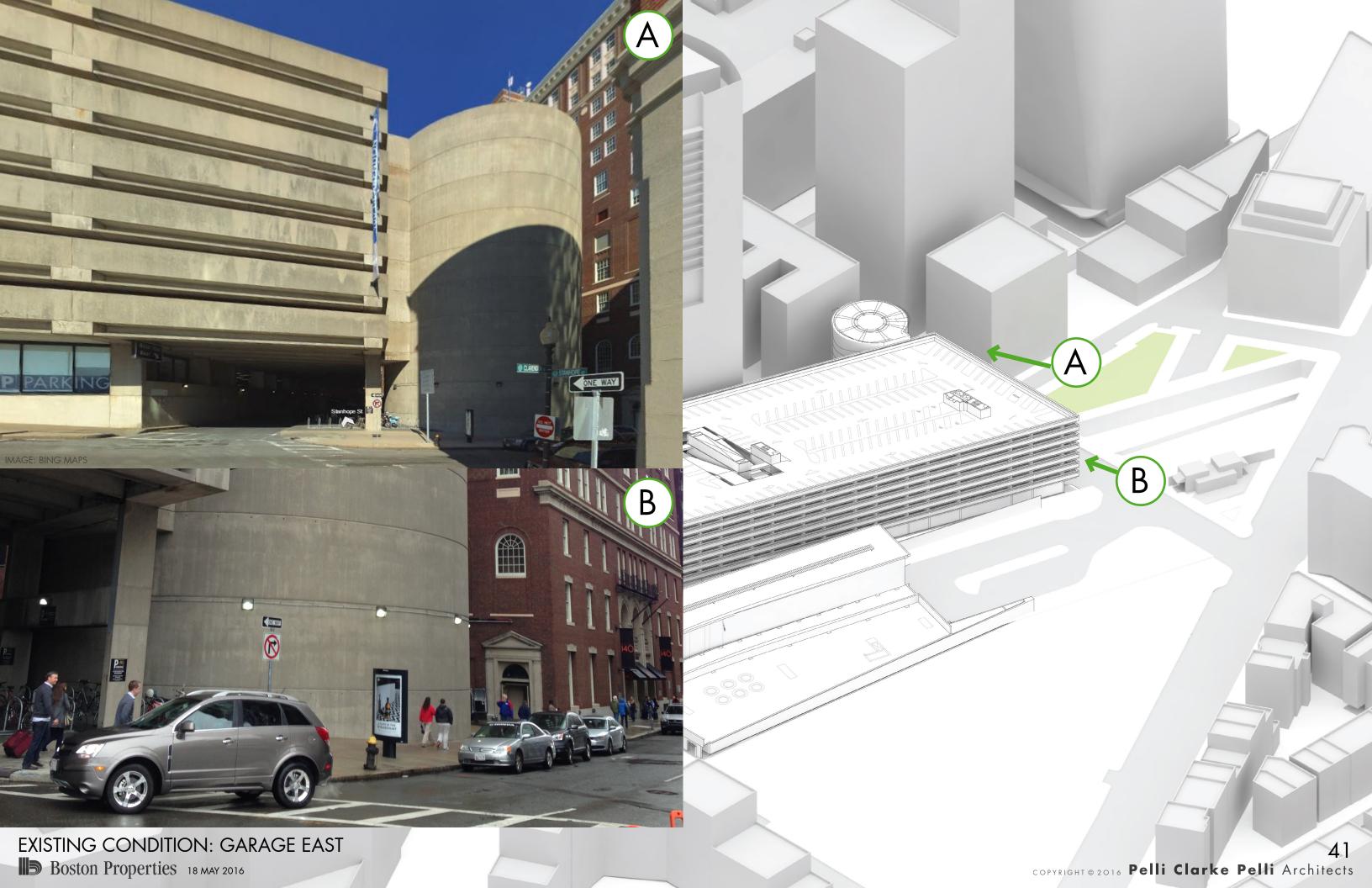
- Create A Better Place
- Improve Our Transportation Infrastructure
- Be Sensitive to Surrounding Neighborhood Context

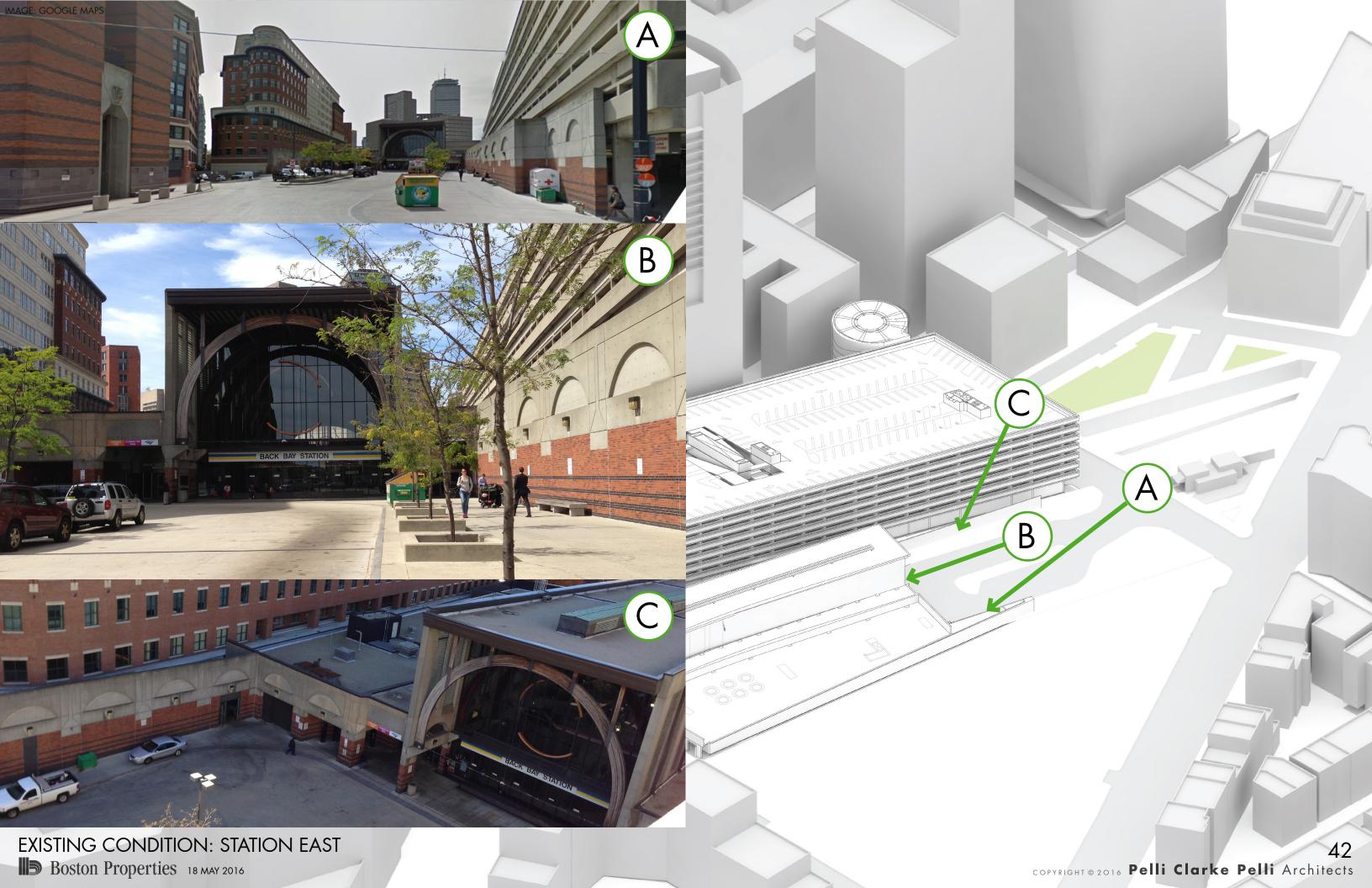


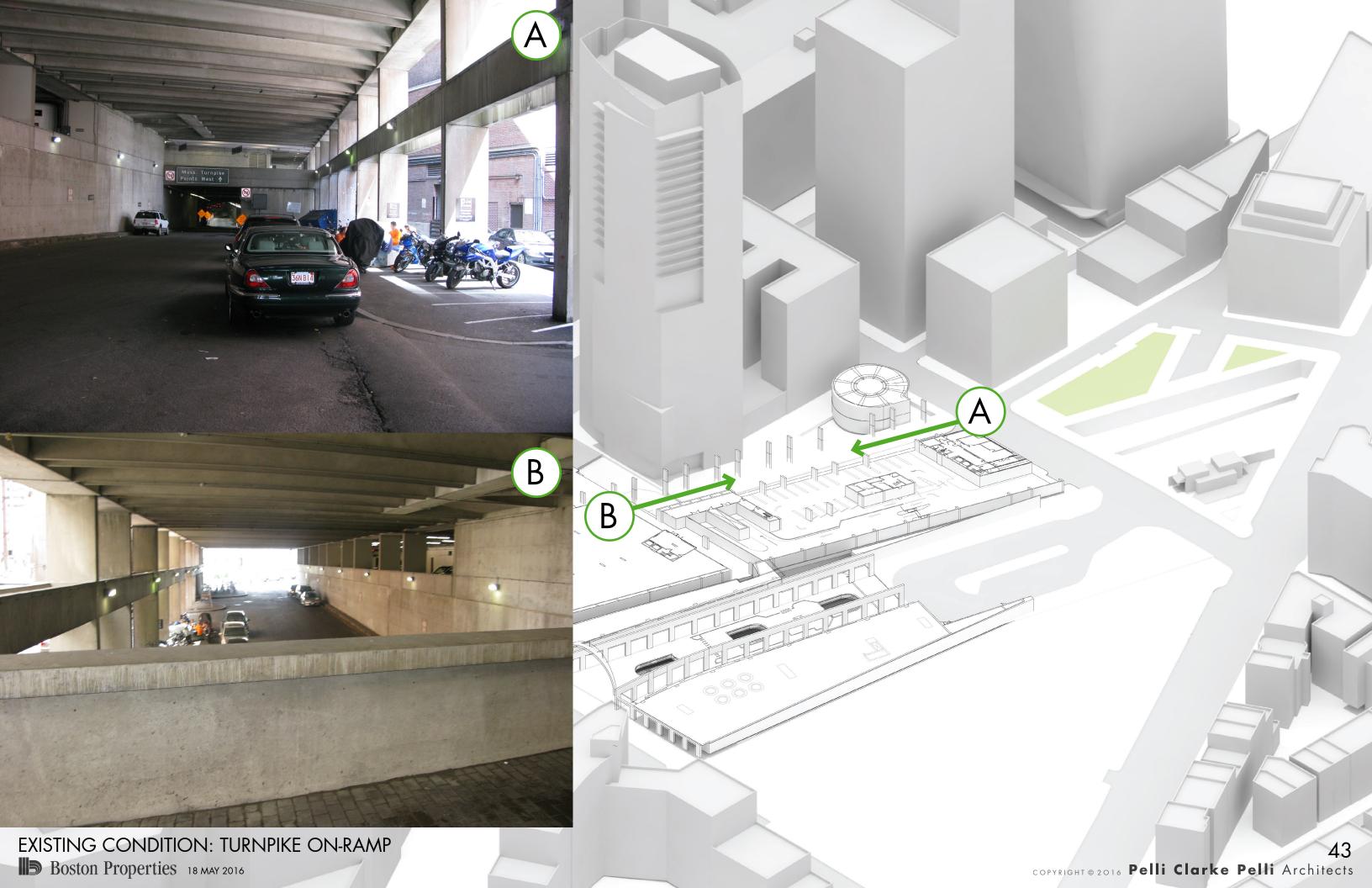


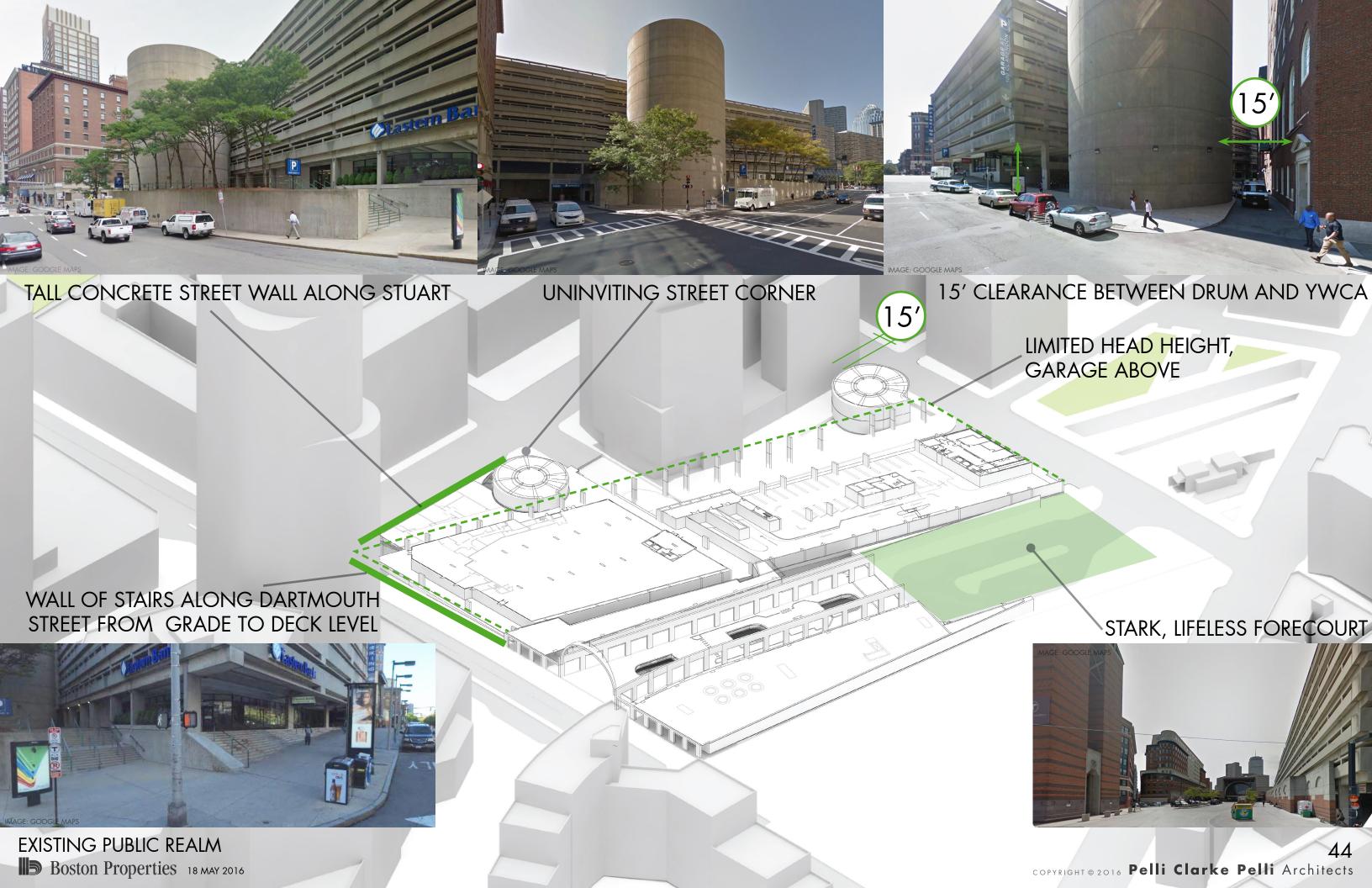


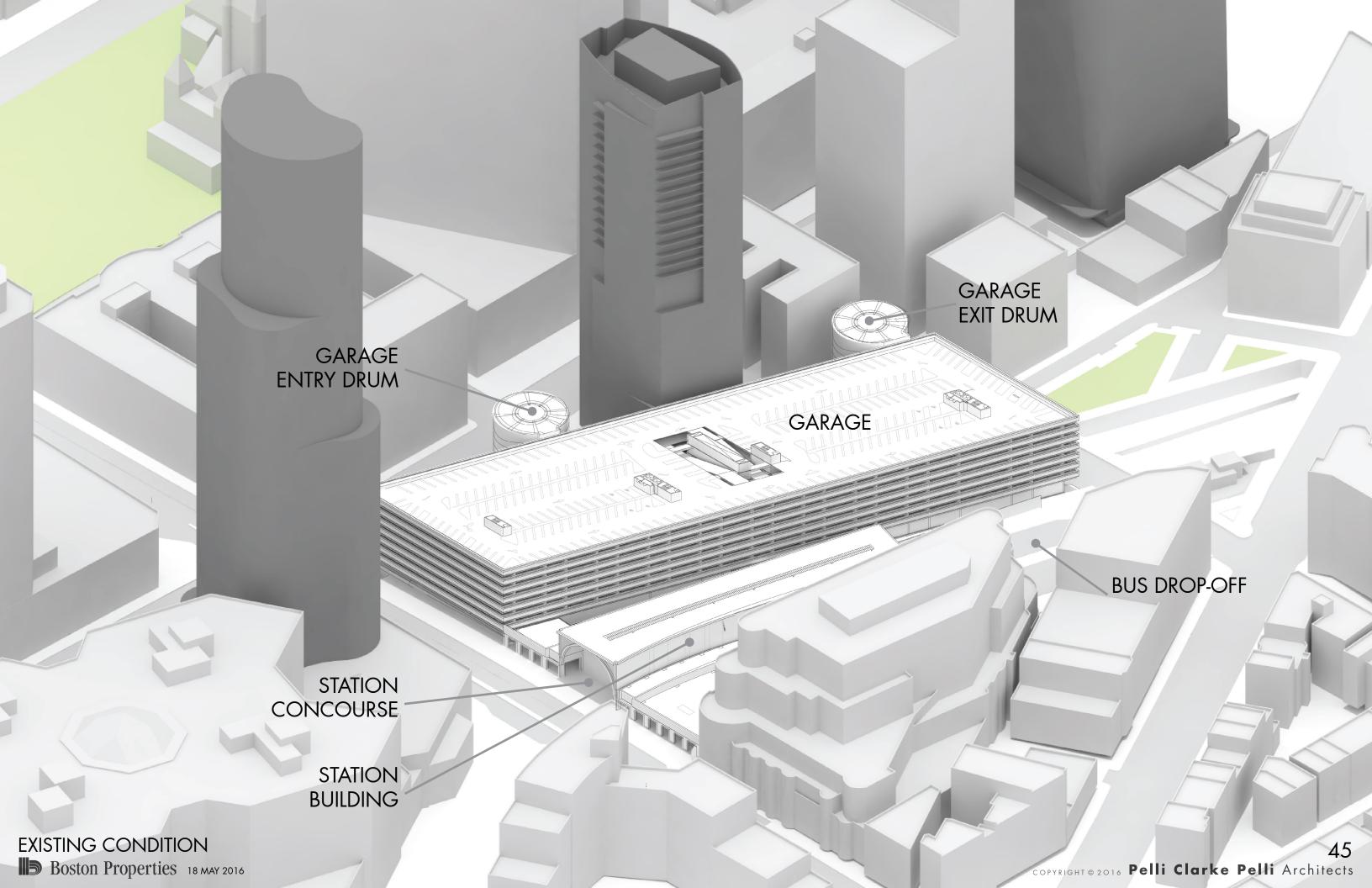


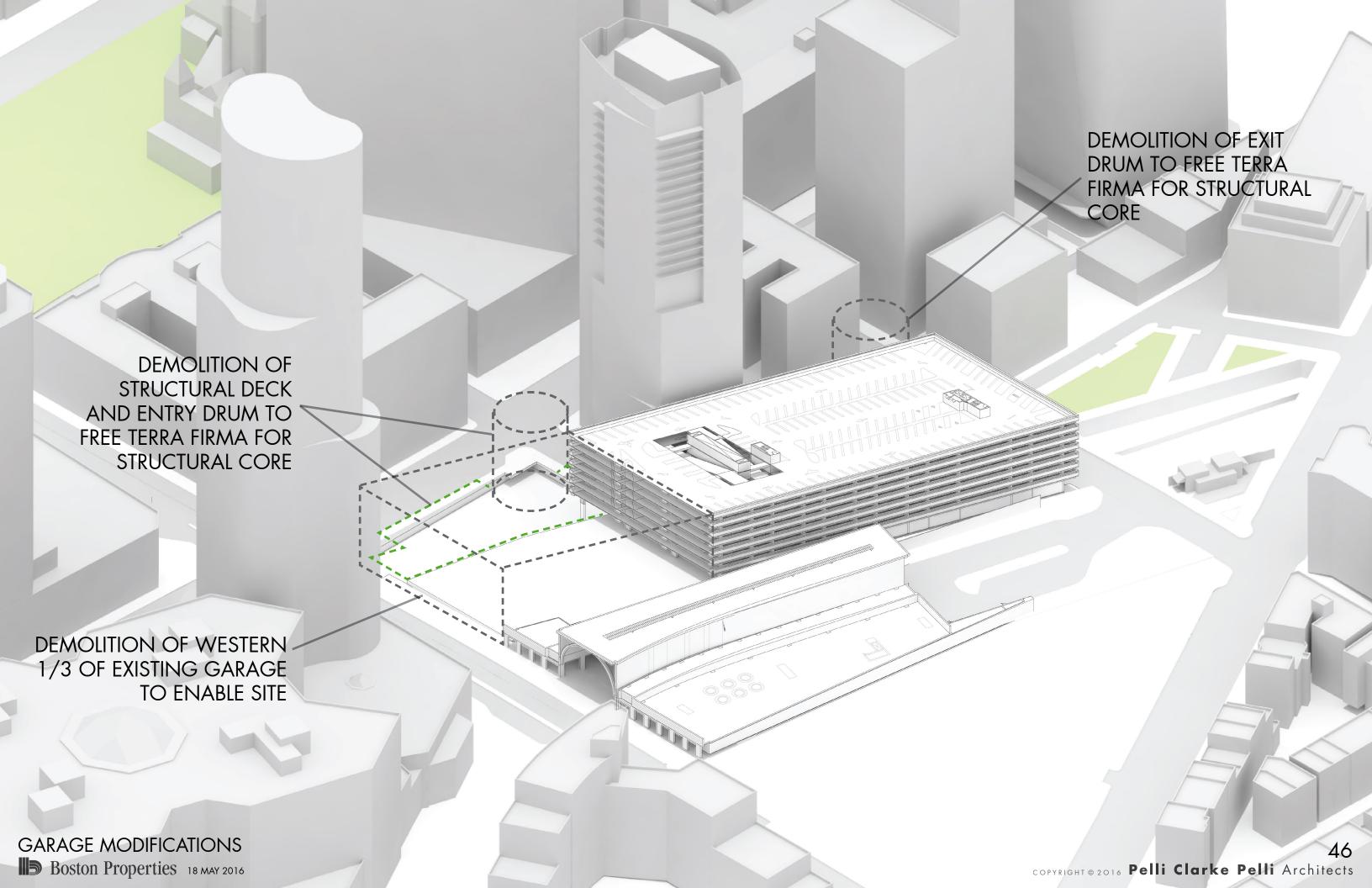


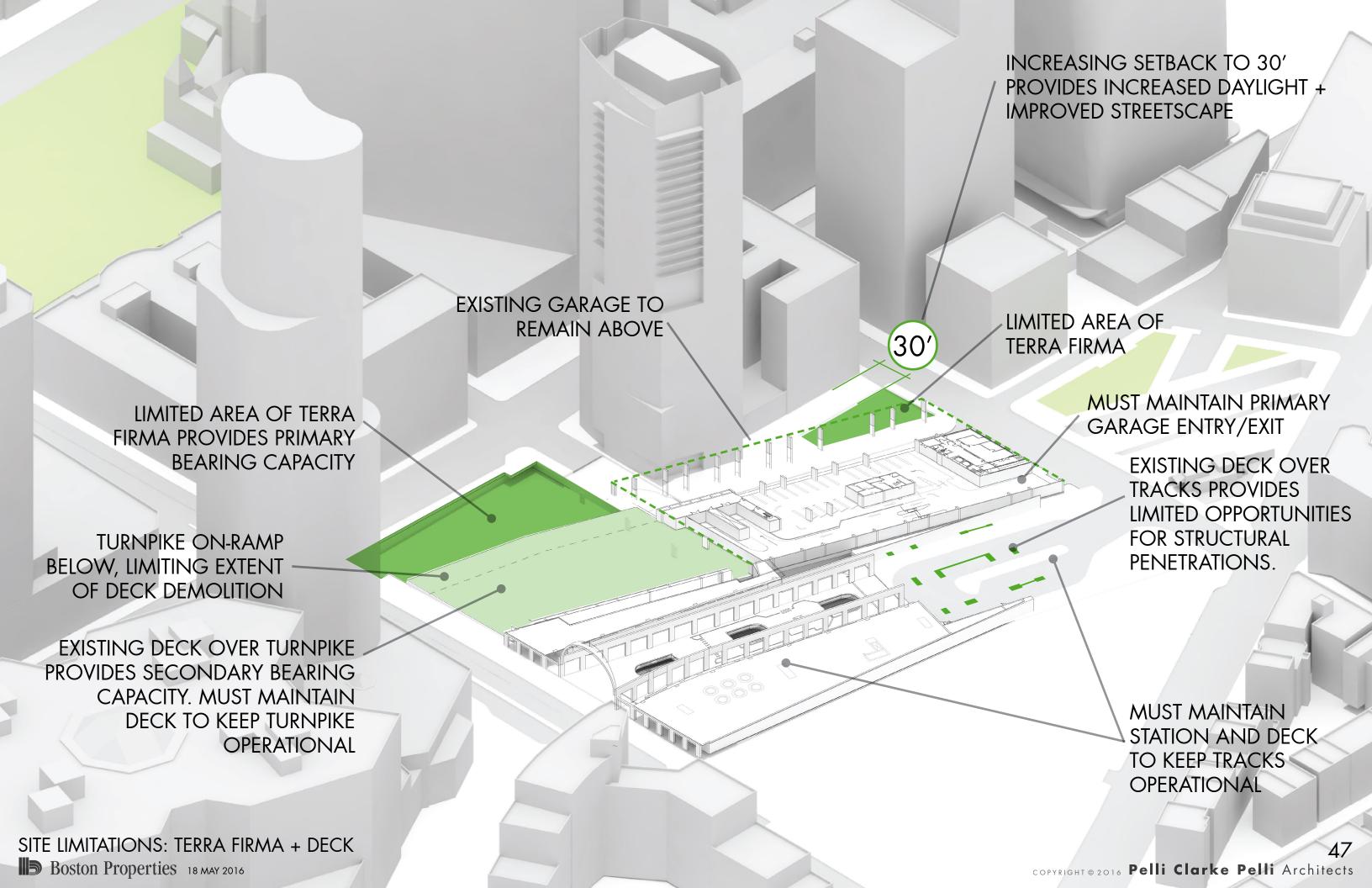


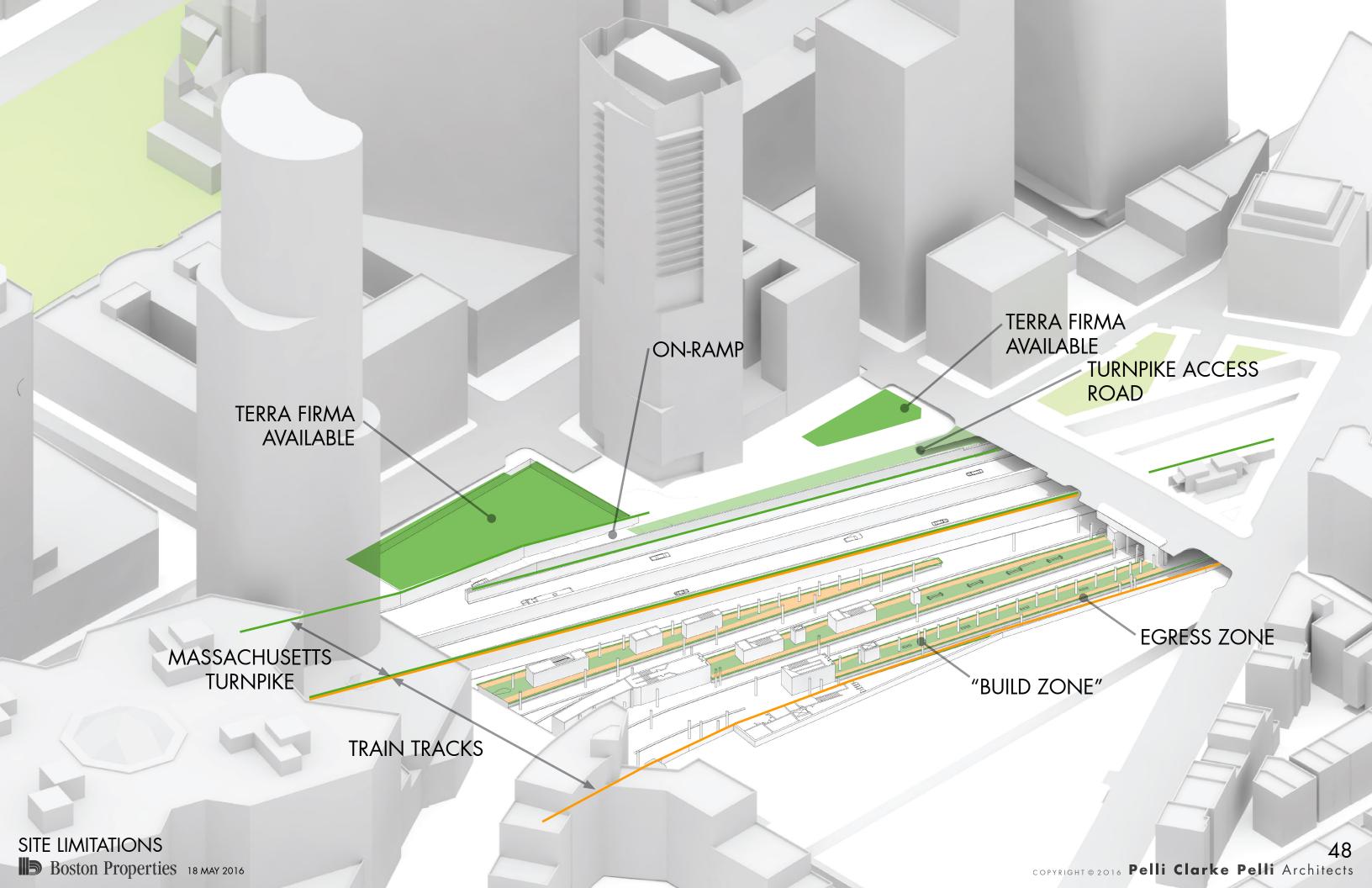












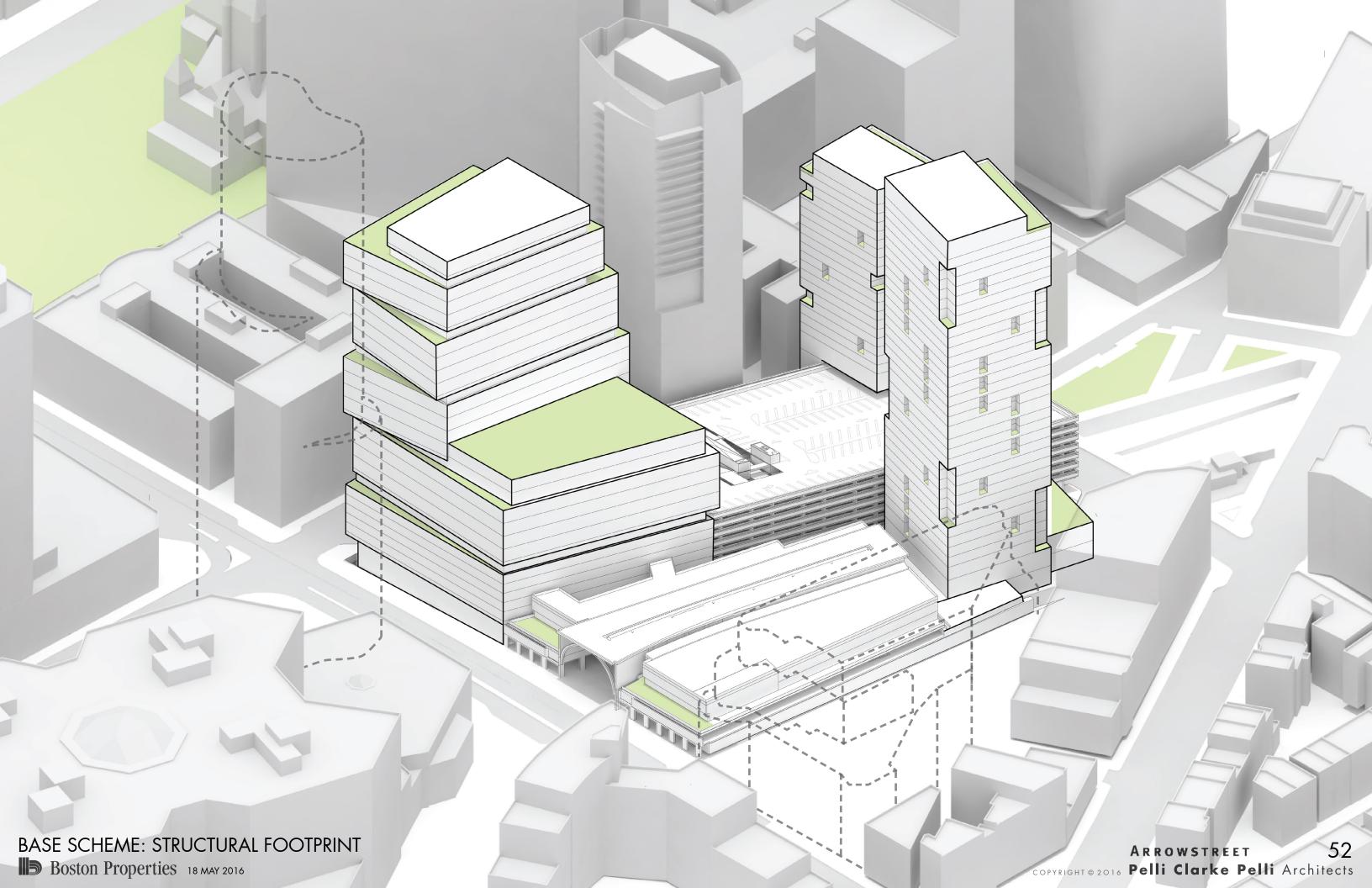


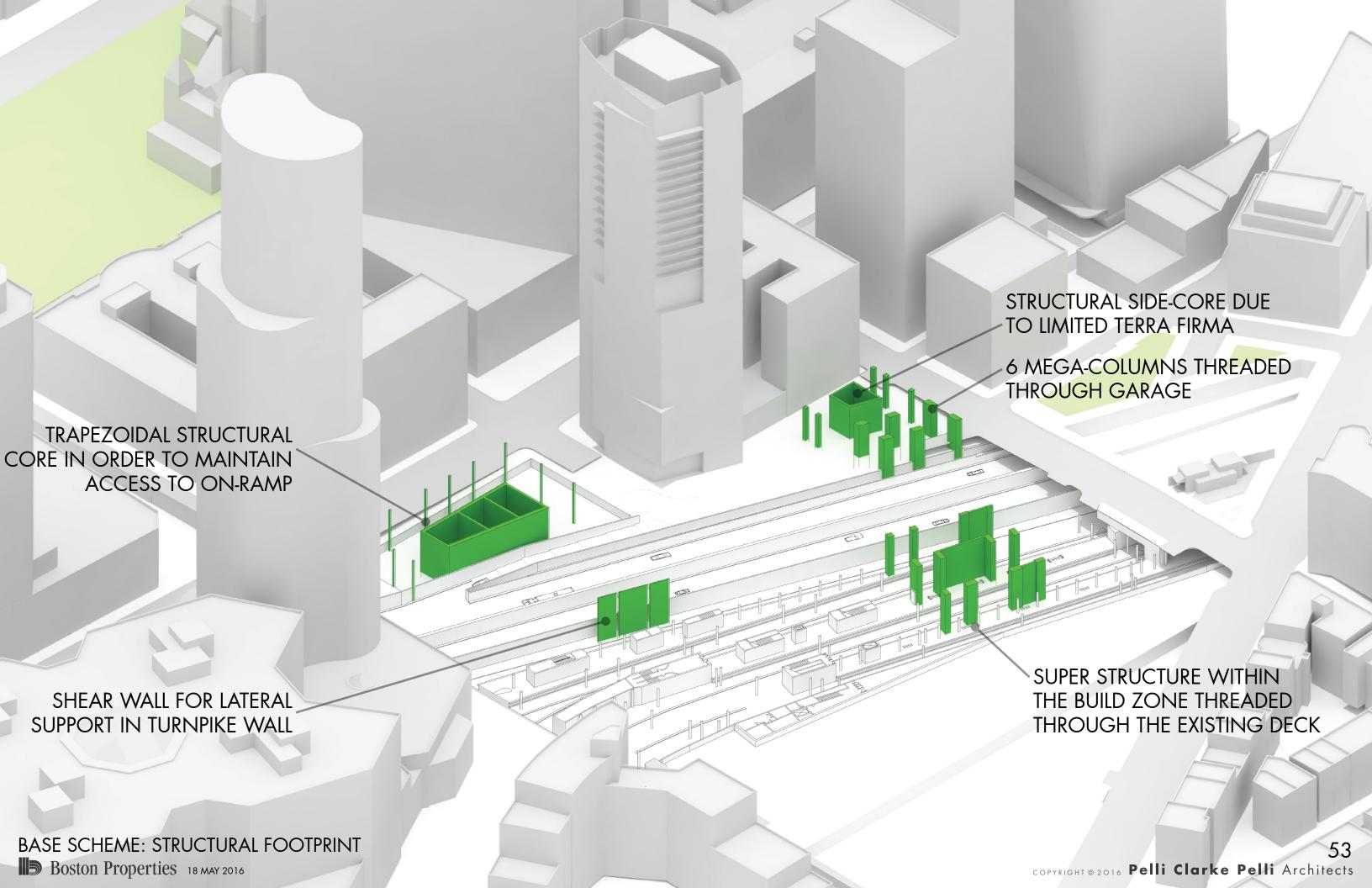


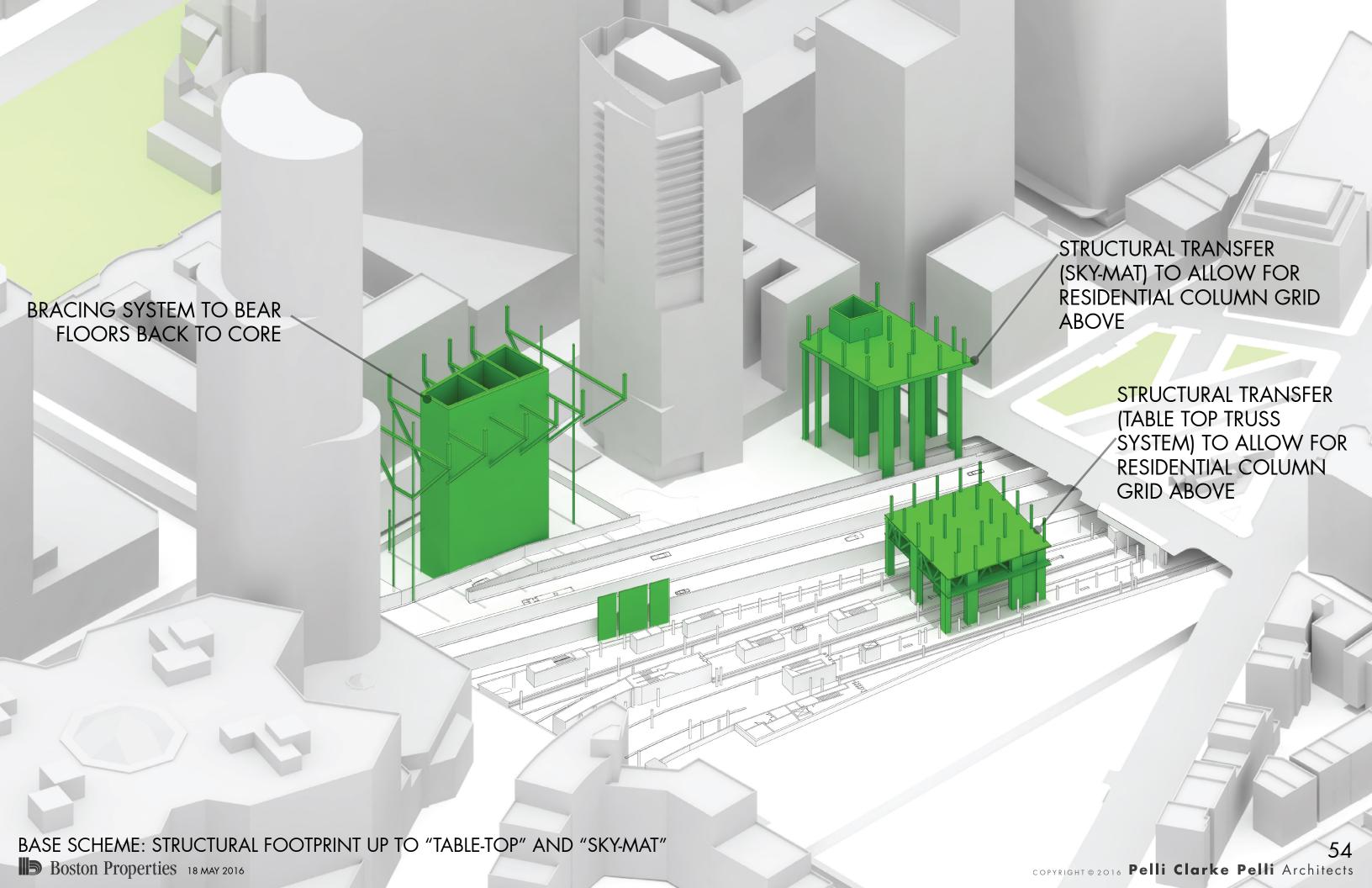


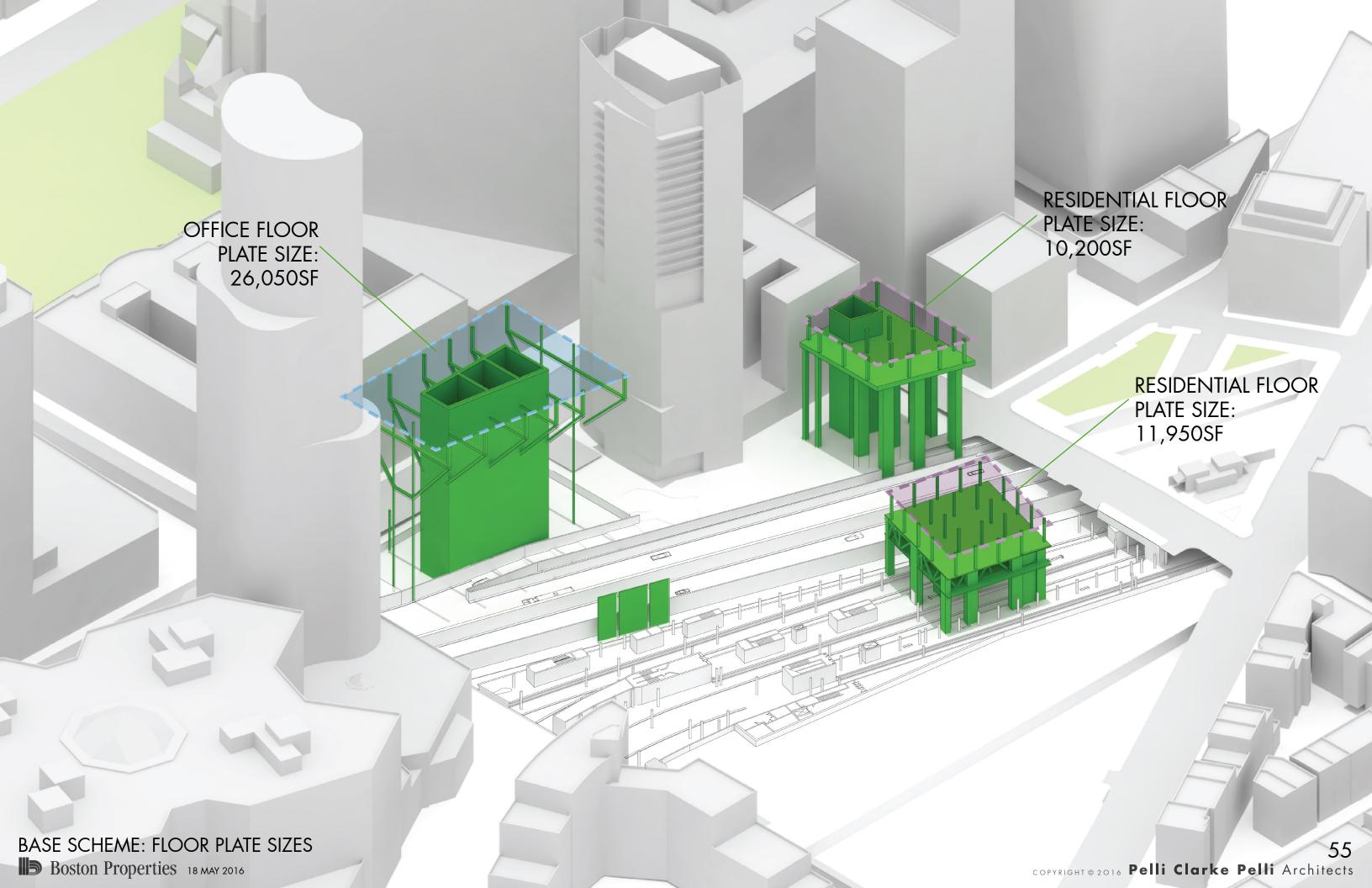
DEVELOPMENT REFERENCE IN BILBAO SPAIN - PELLI CLARKE PELLI ARCHITECTS

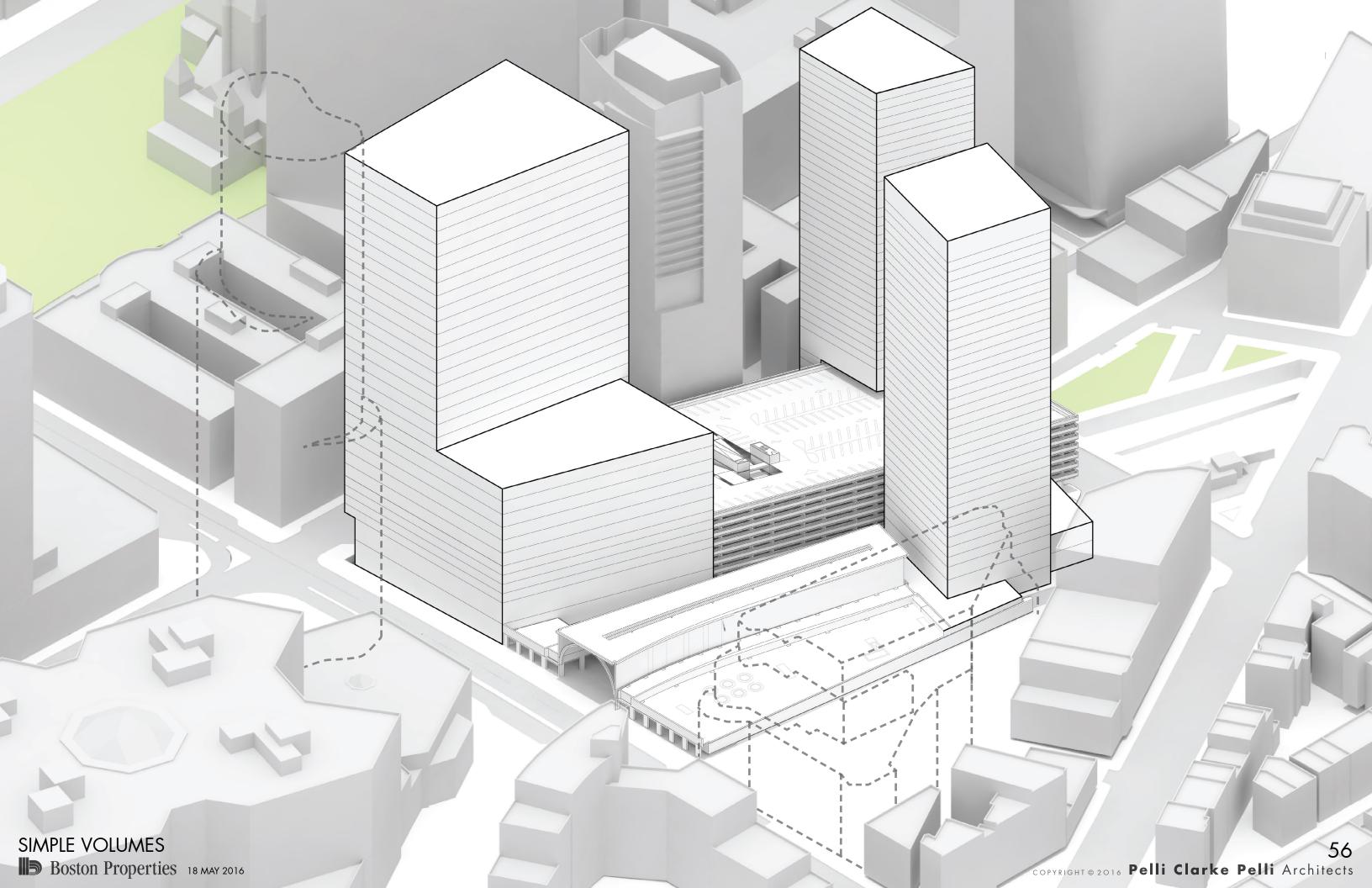






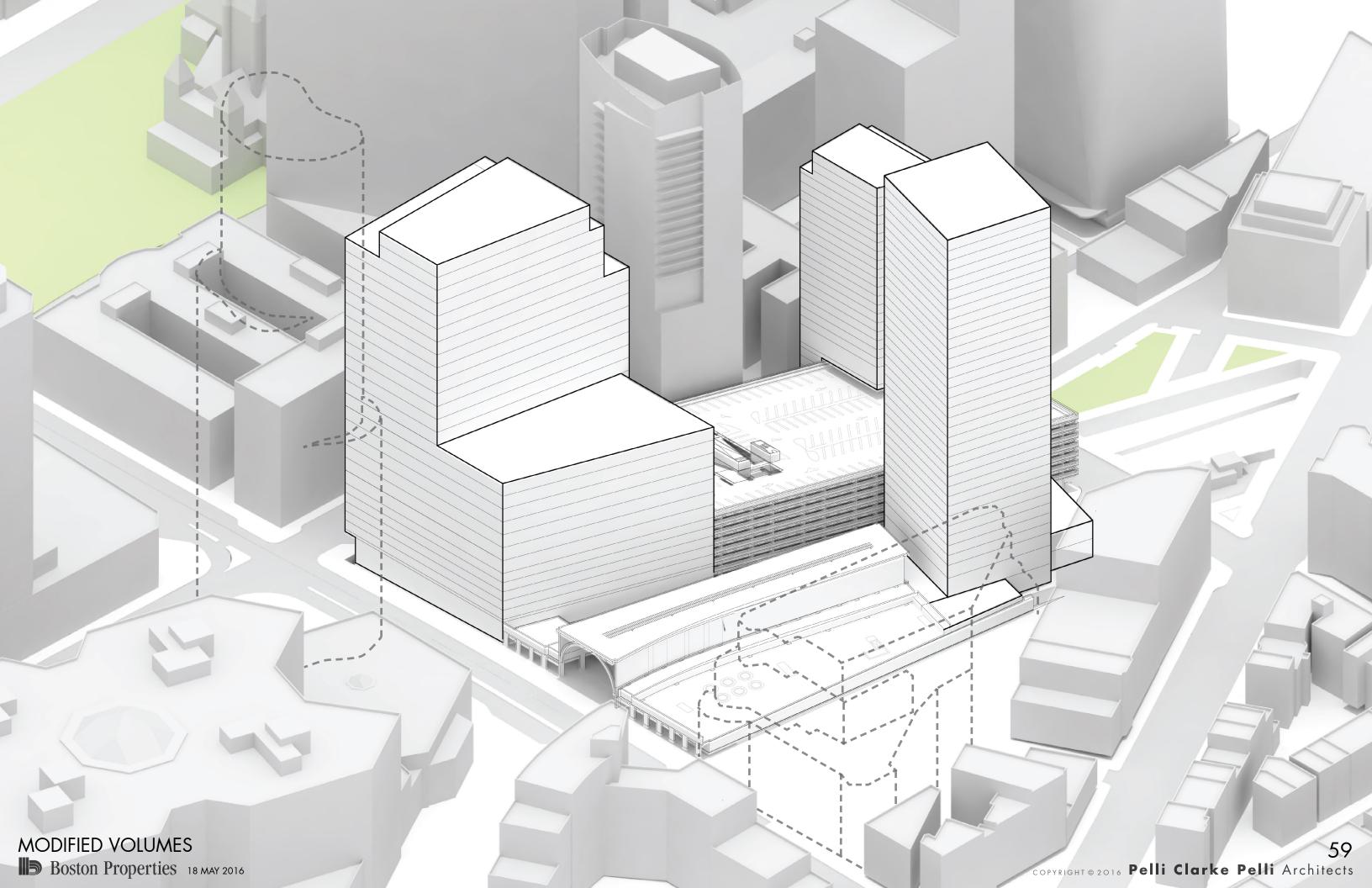


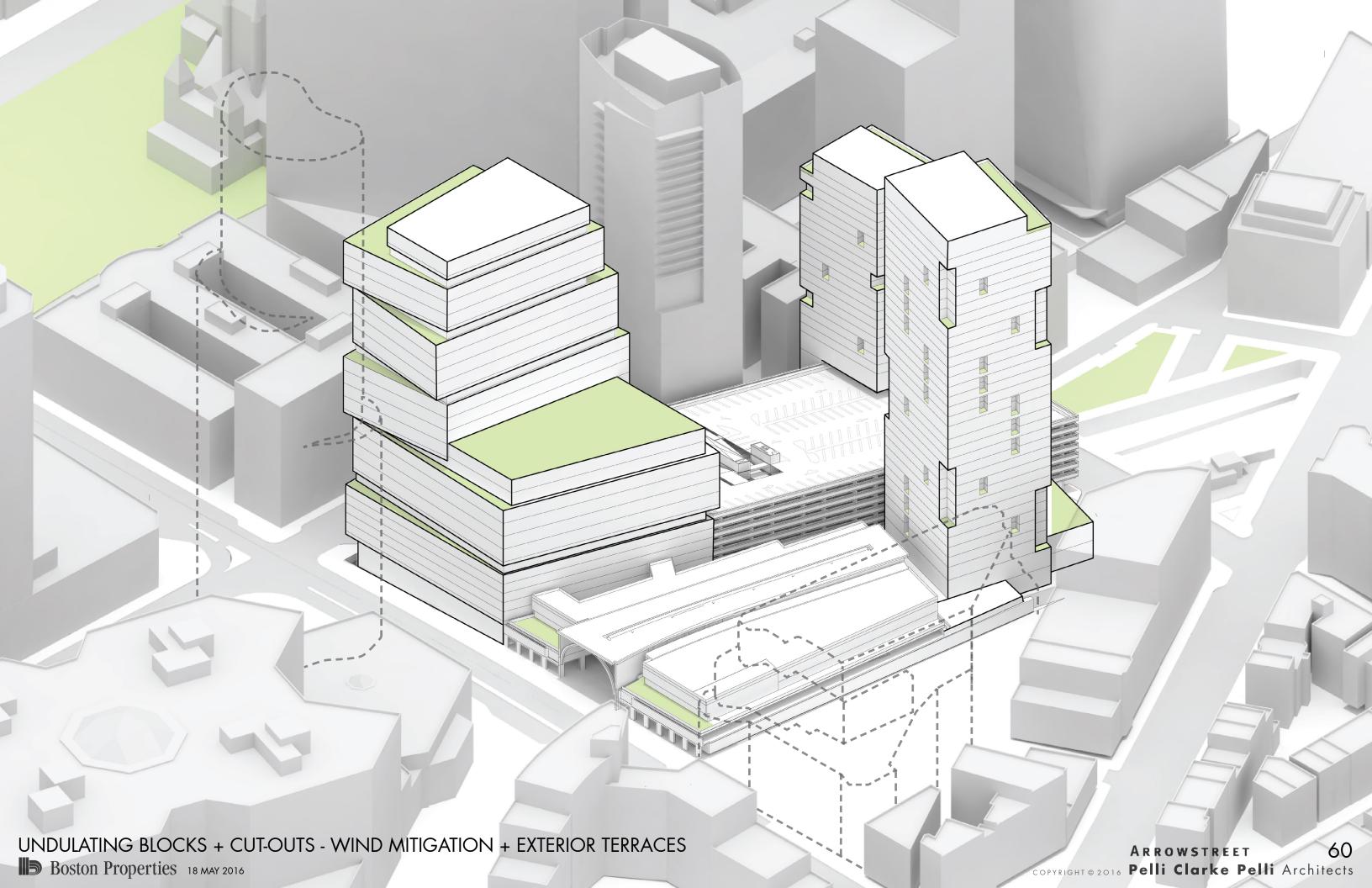














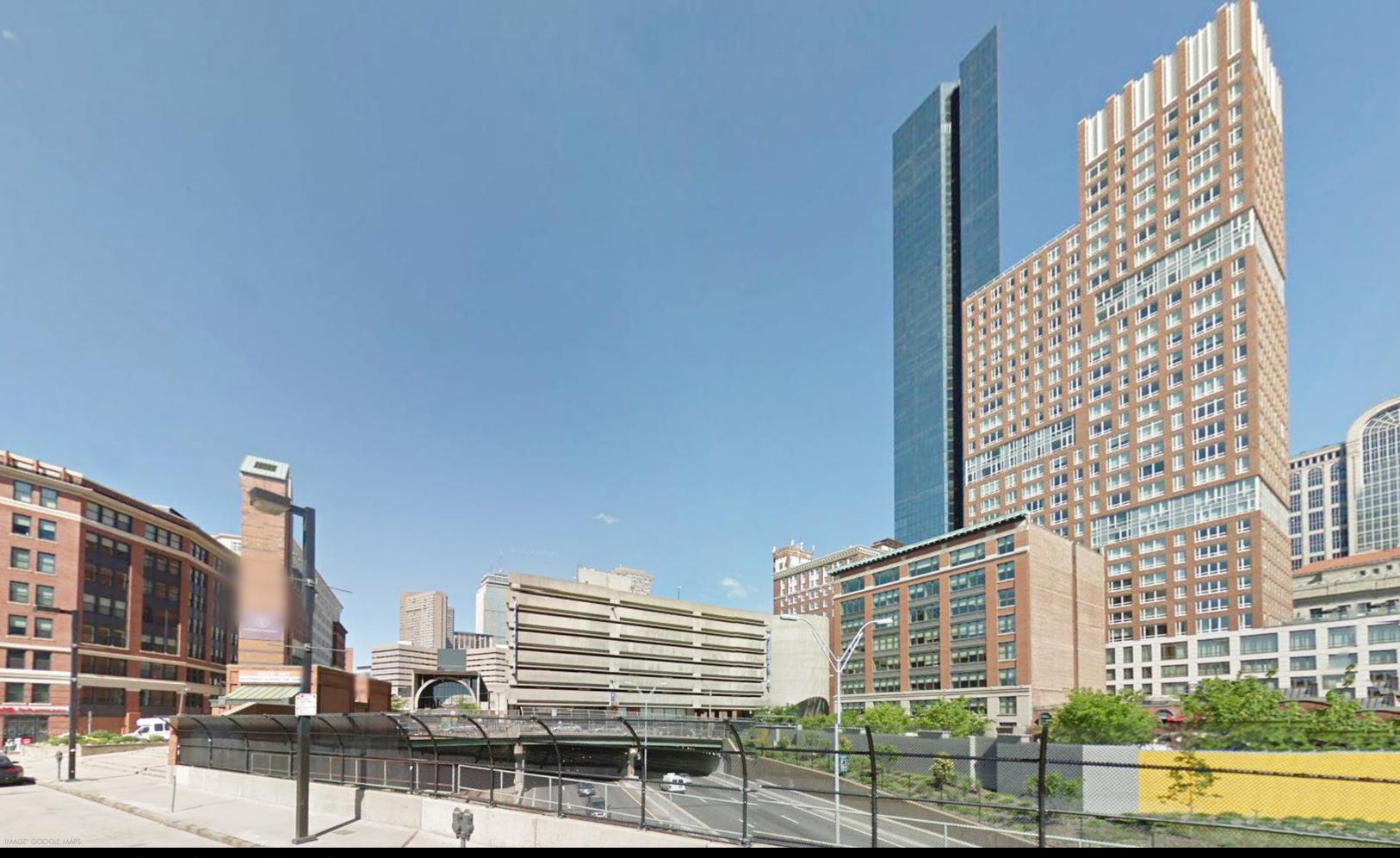








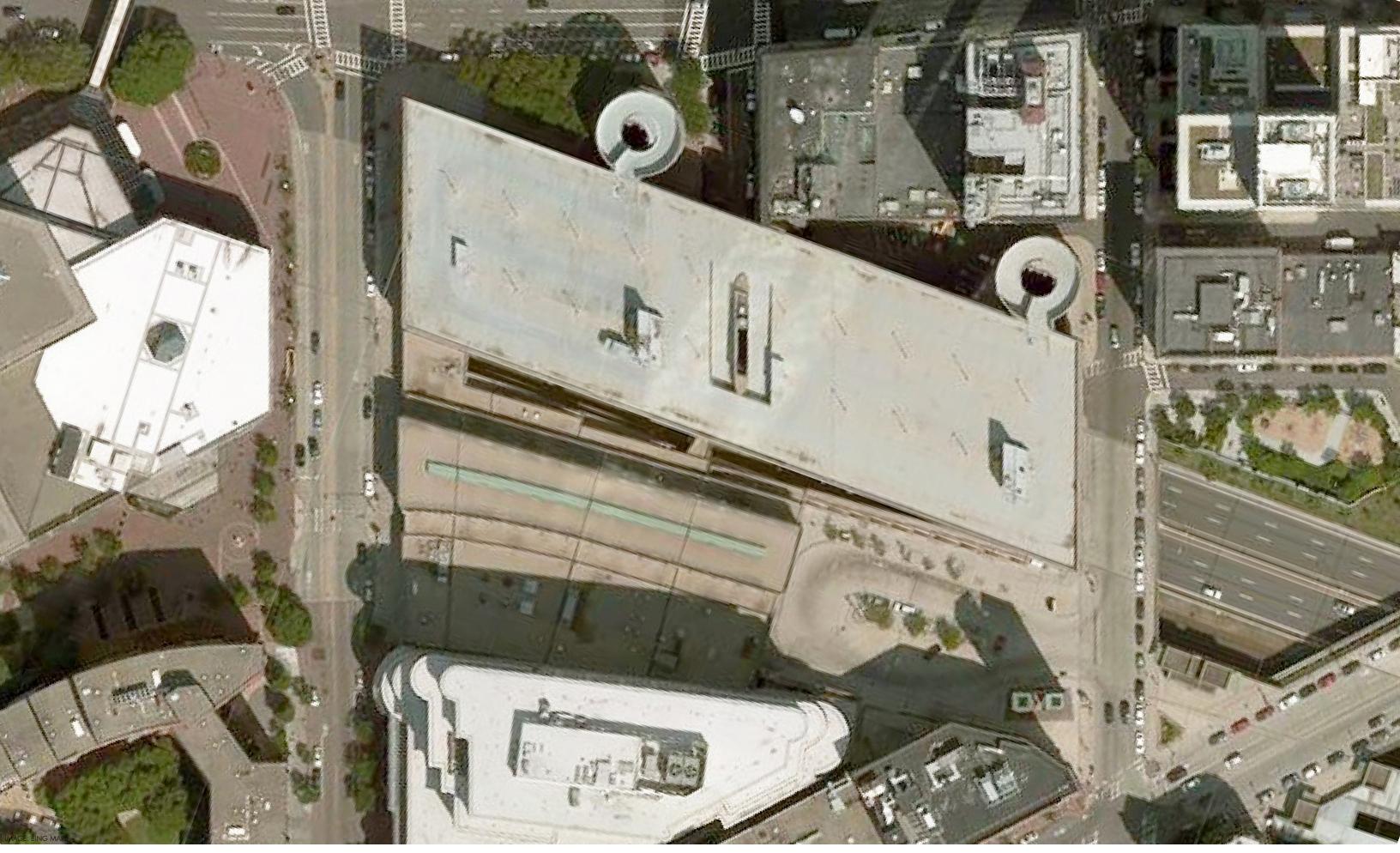




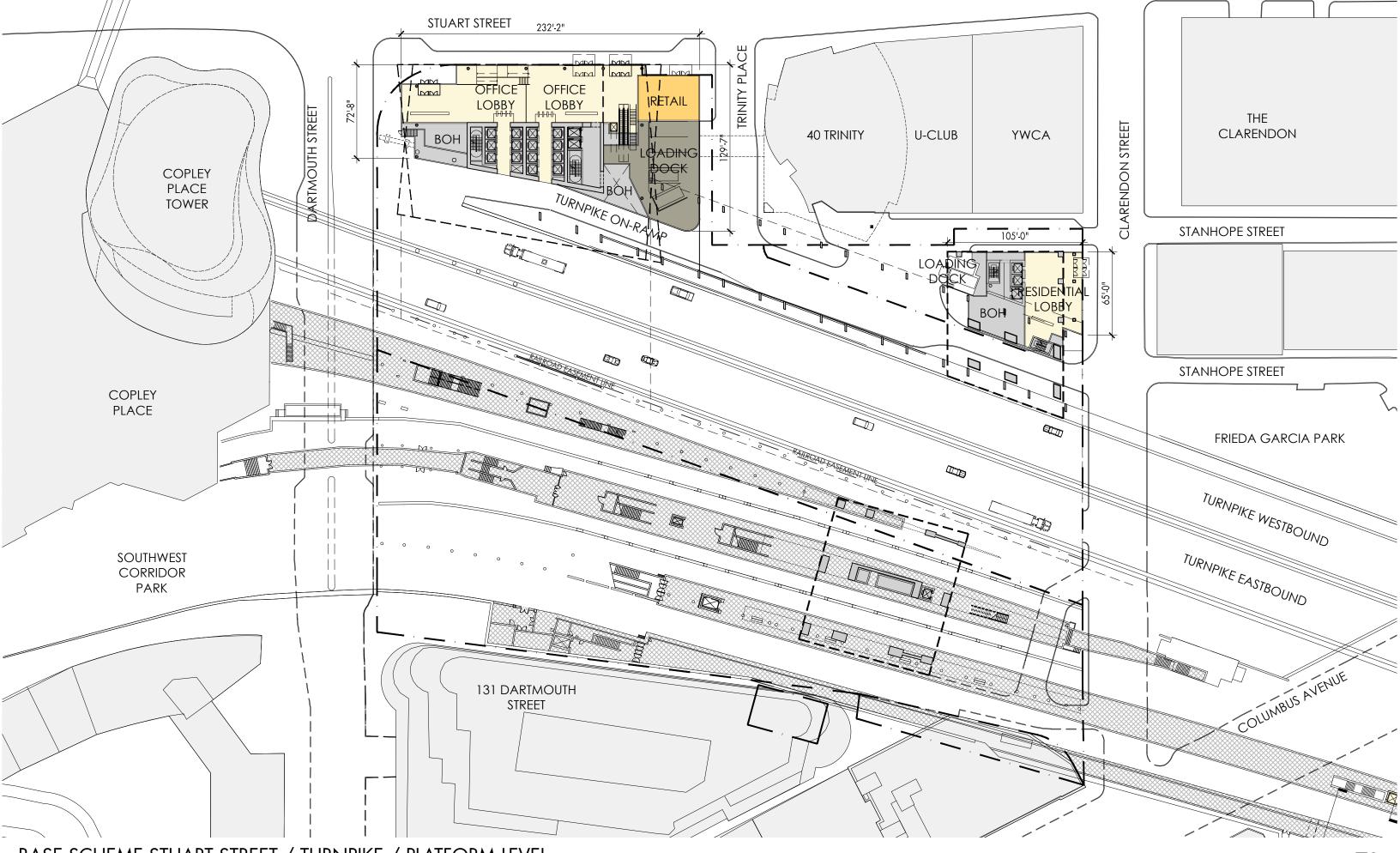






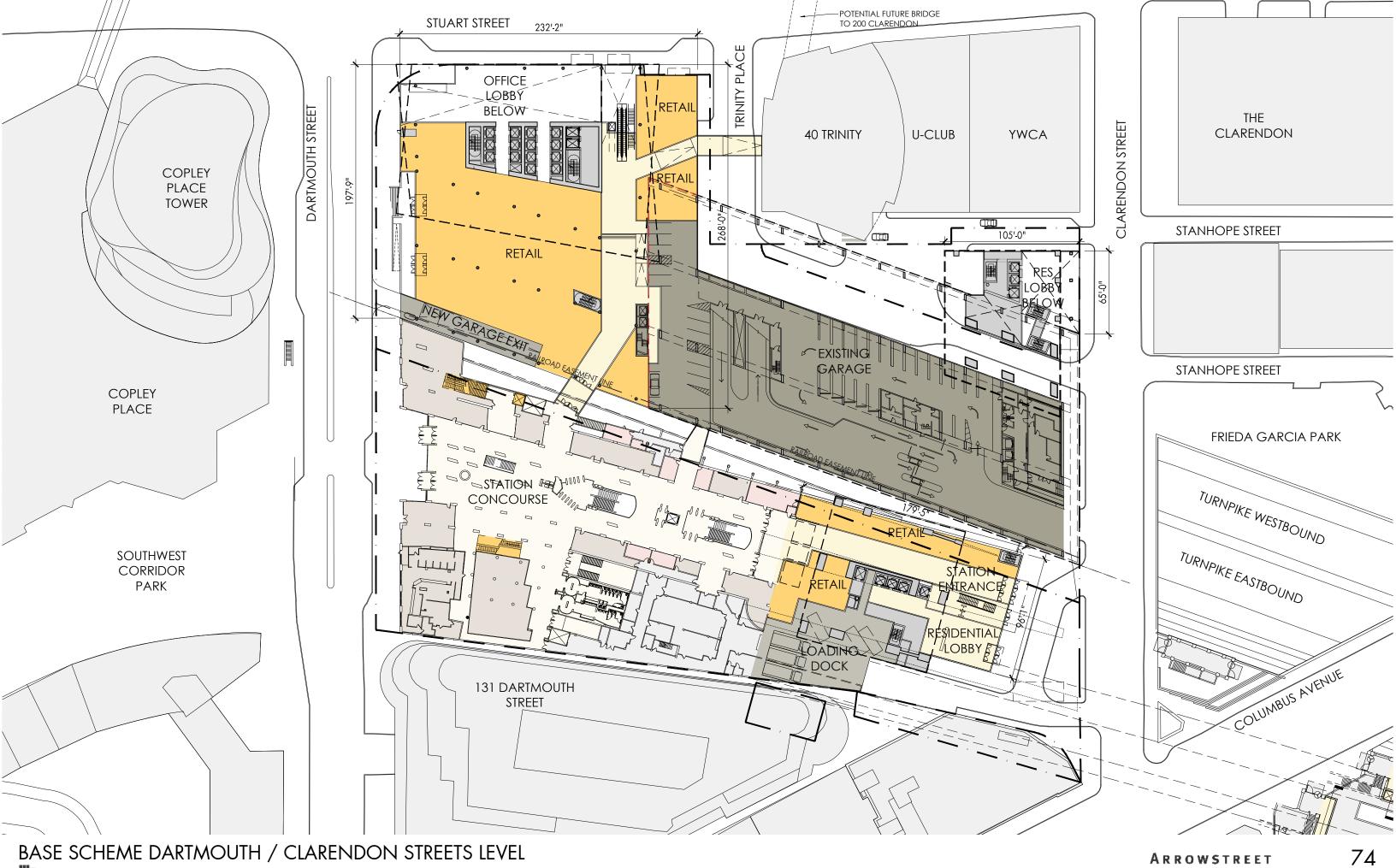




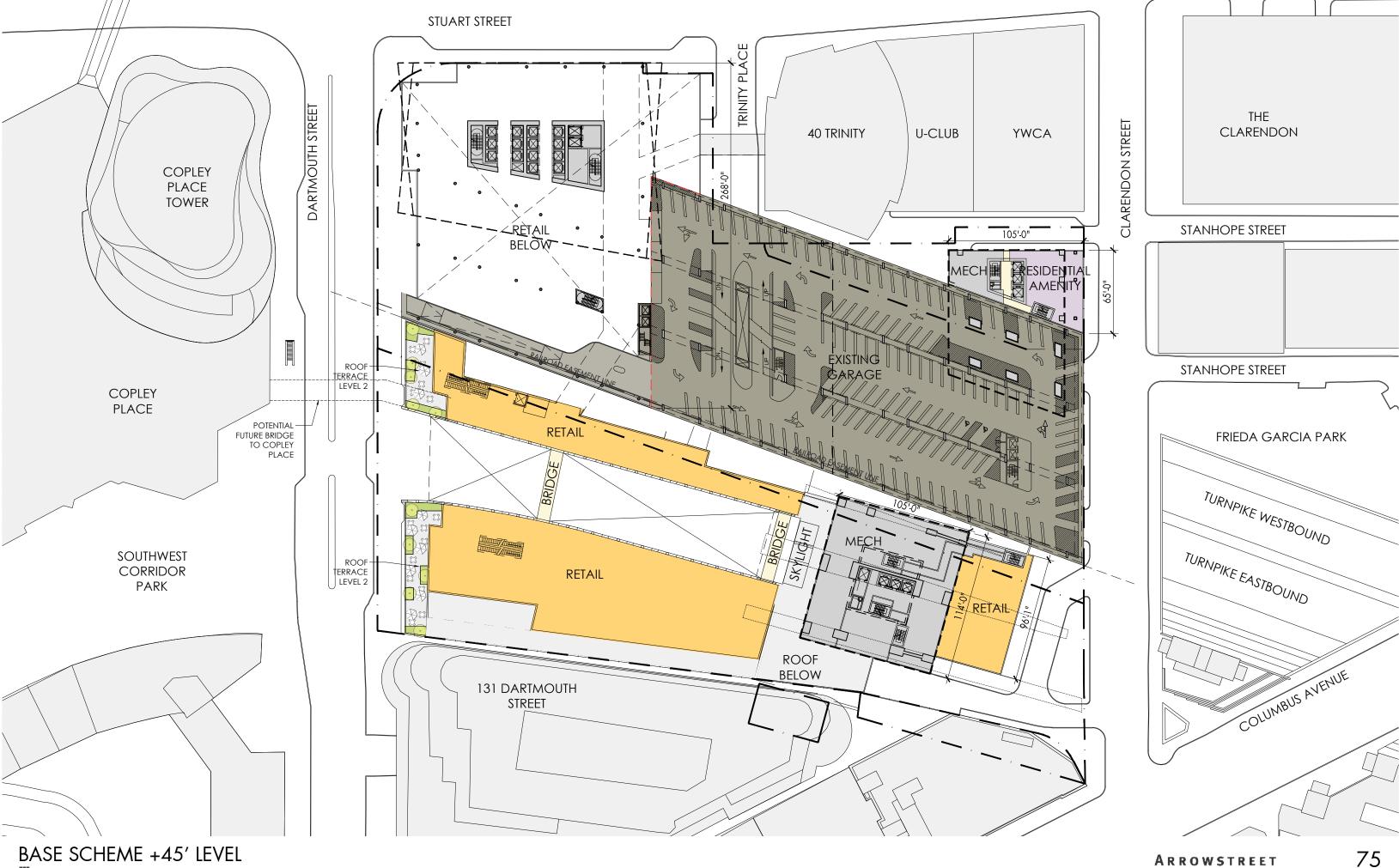


BASE SCHEME STUART STREET / TURNPIKE / PLATFORM LEVEL
Boston Properties 18 MAY 2016

/3



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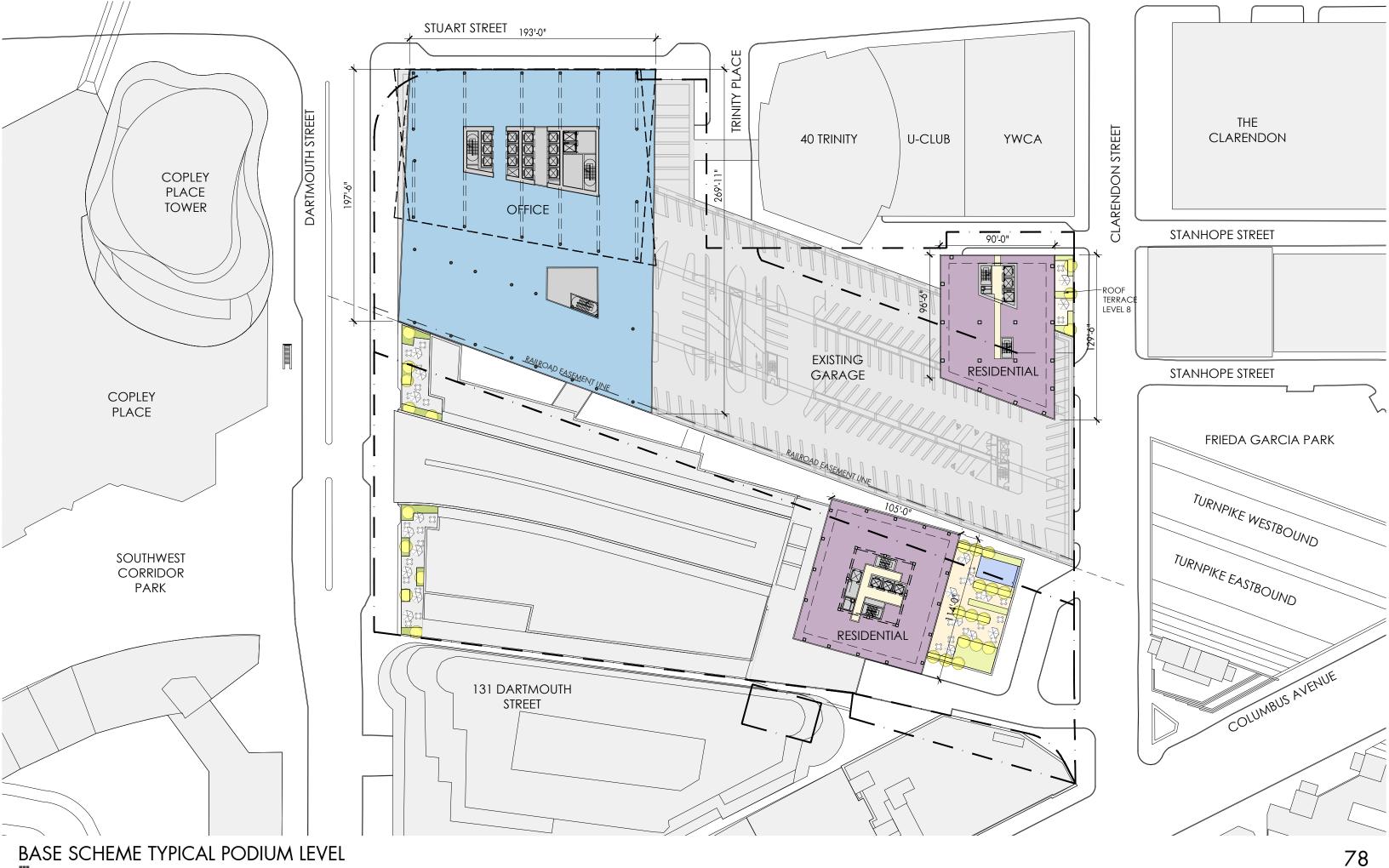
BASE SCHEME +45' LEVEL

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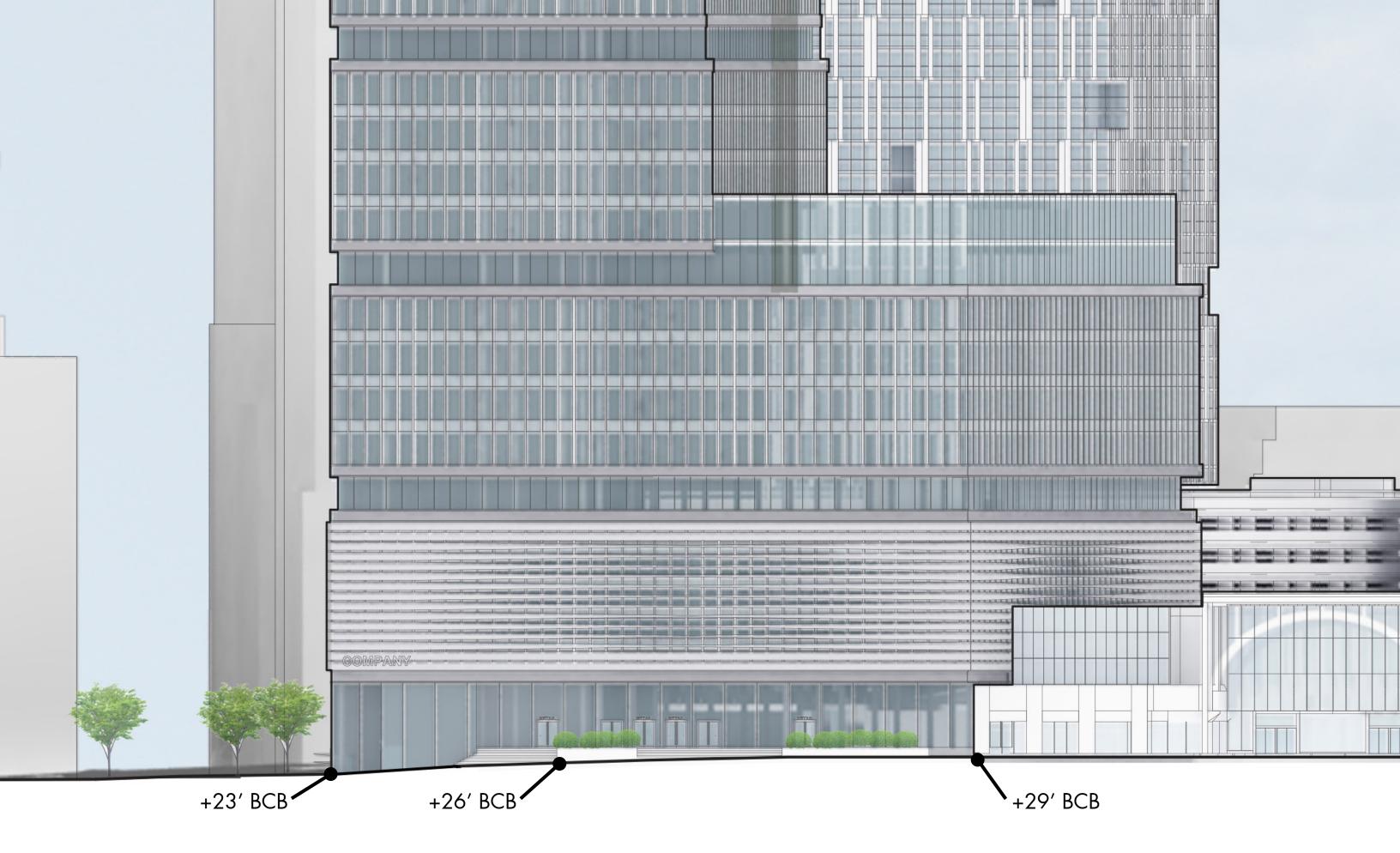


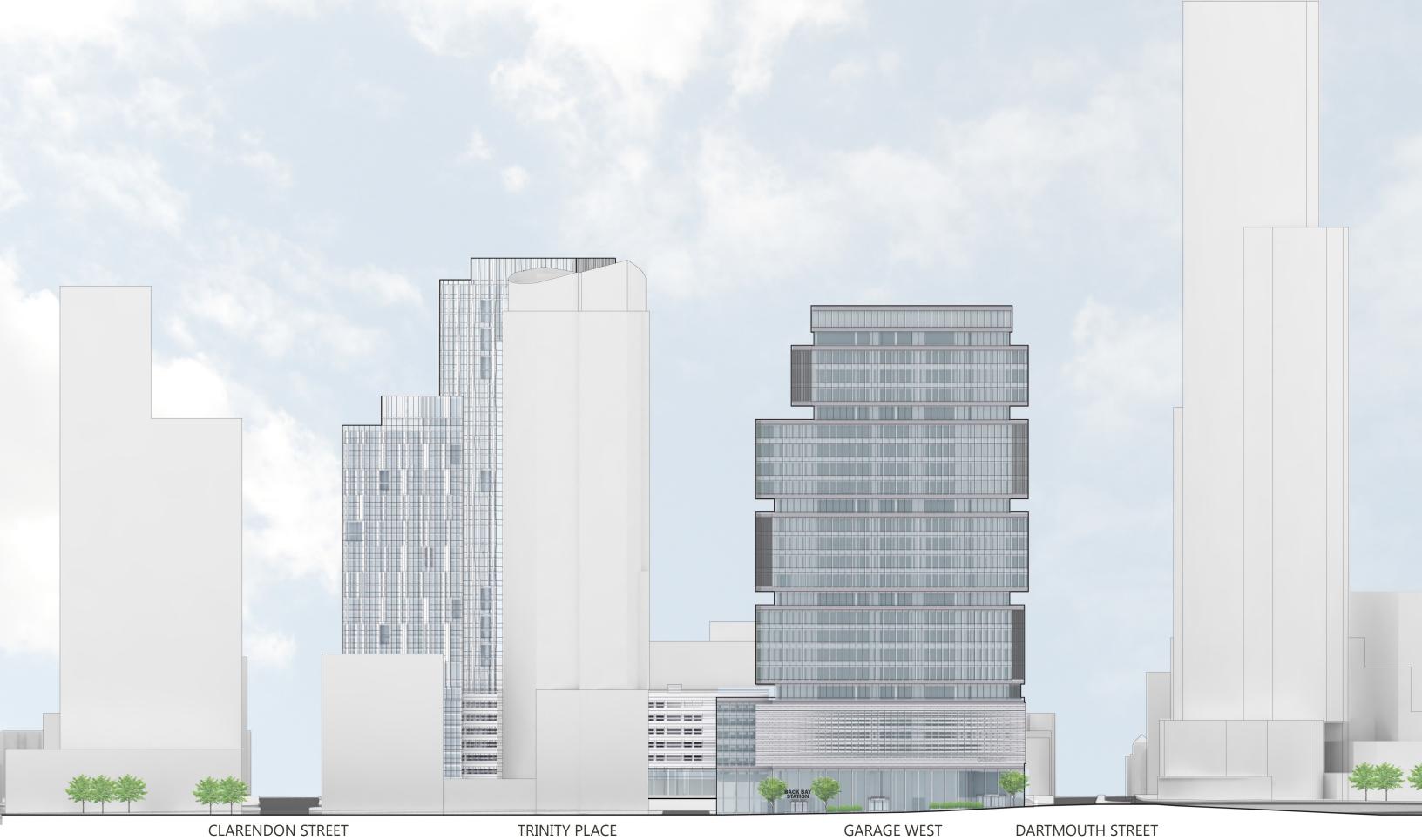






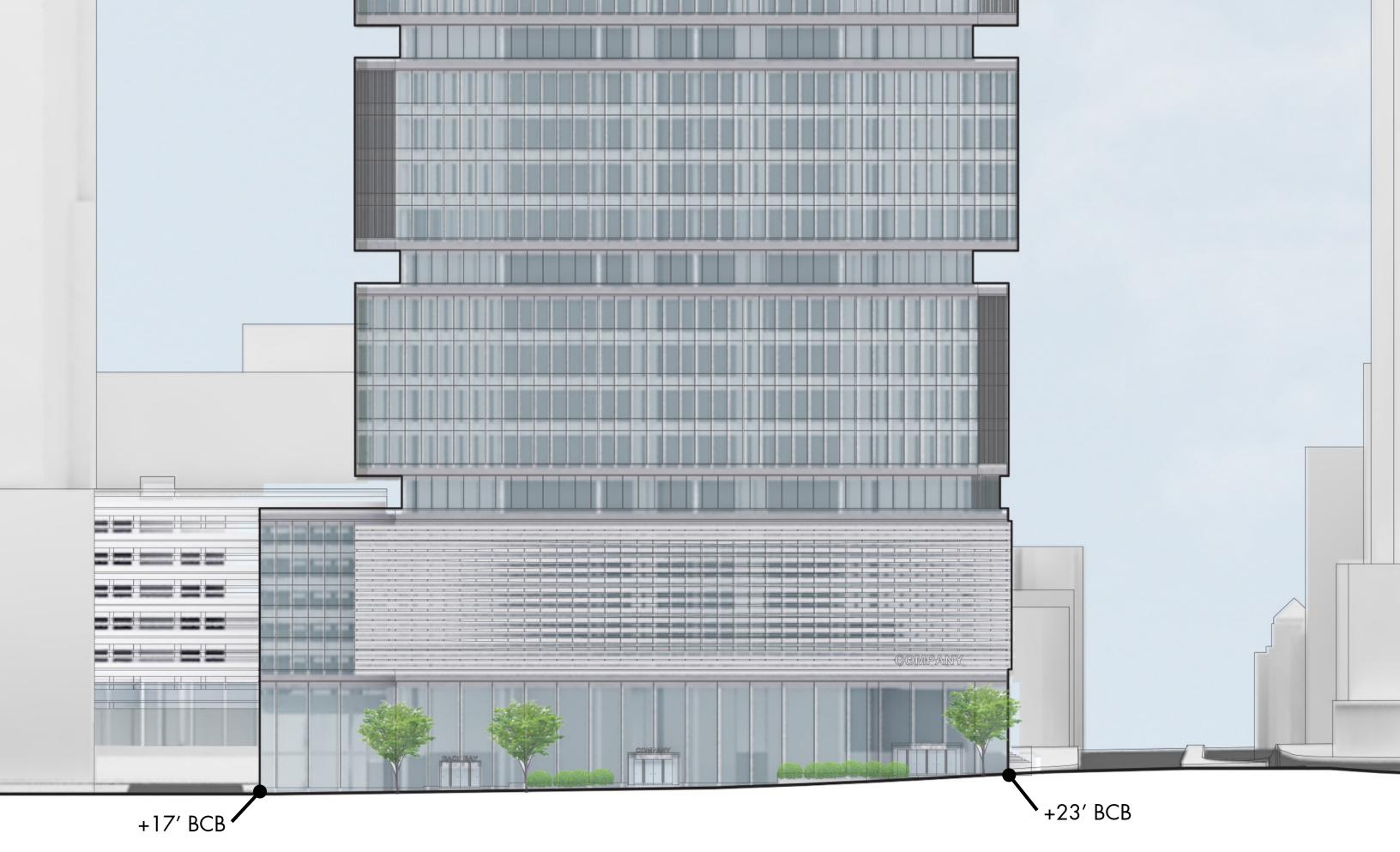
COPLEY SQUARE ST JAMES AVE STUART STREET GARAGE WEST STATION WES T

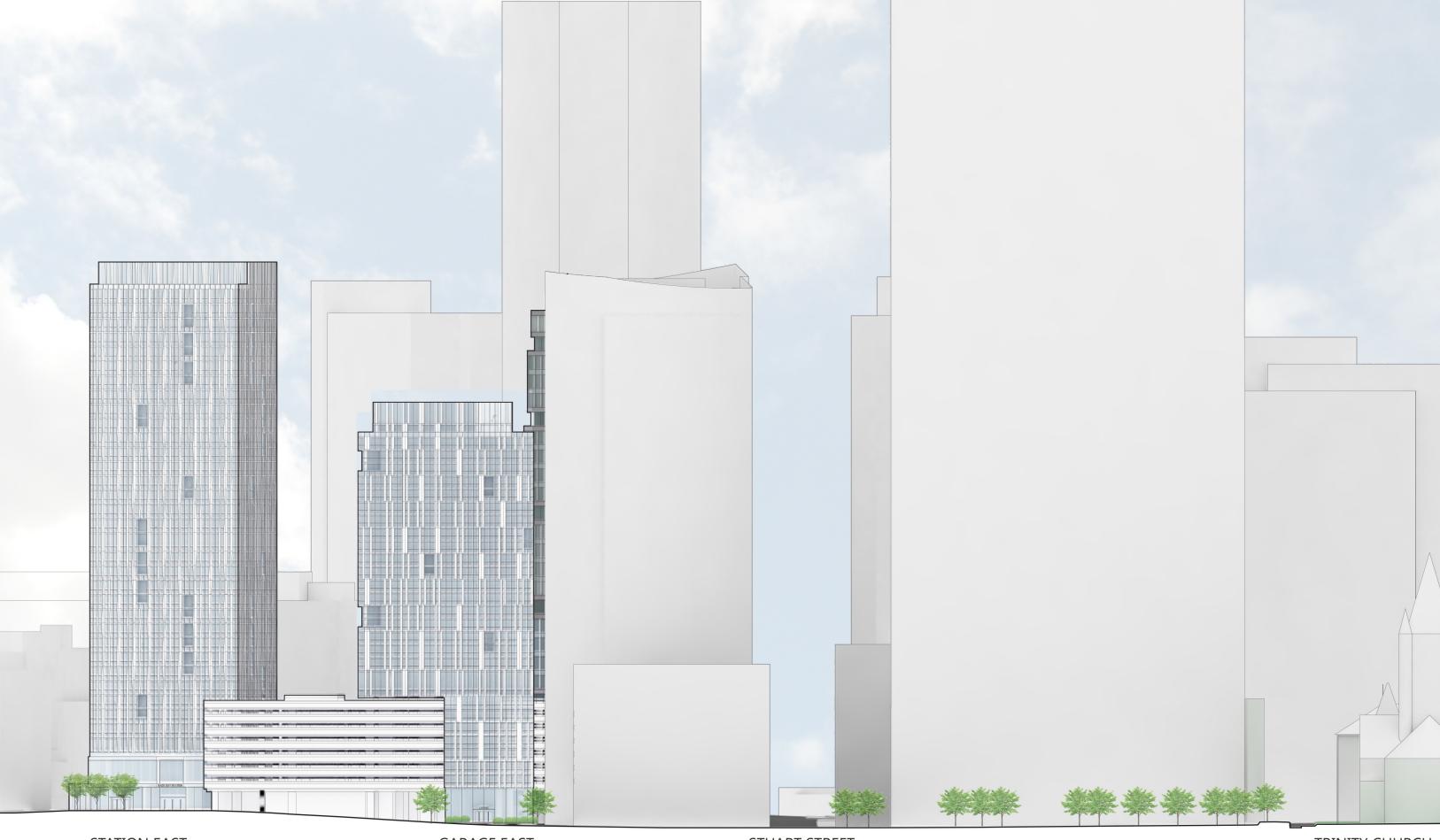




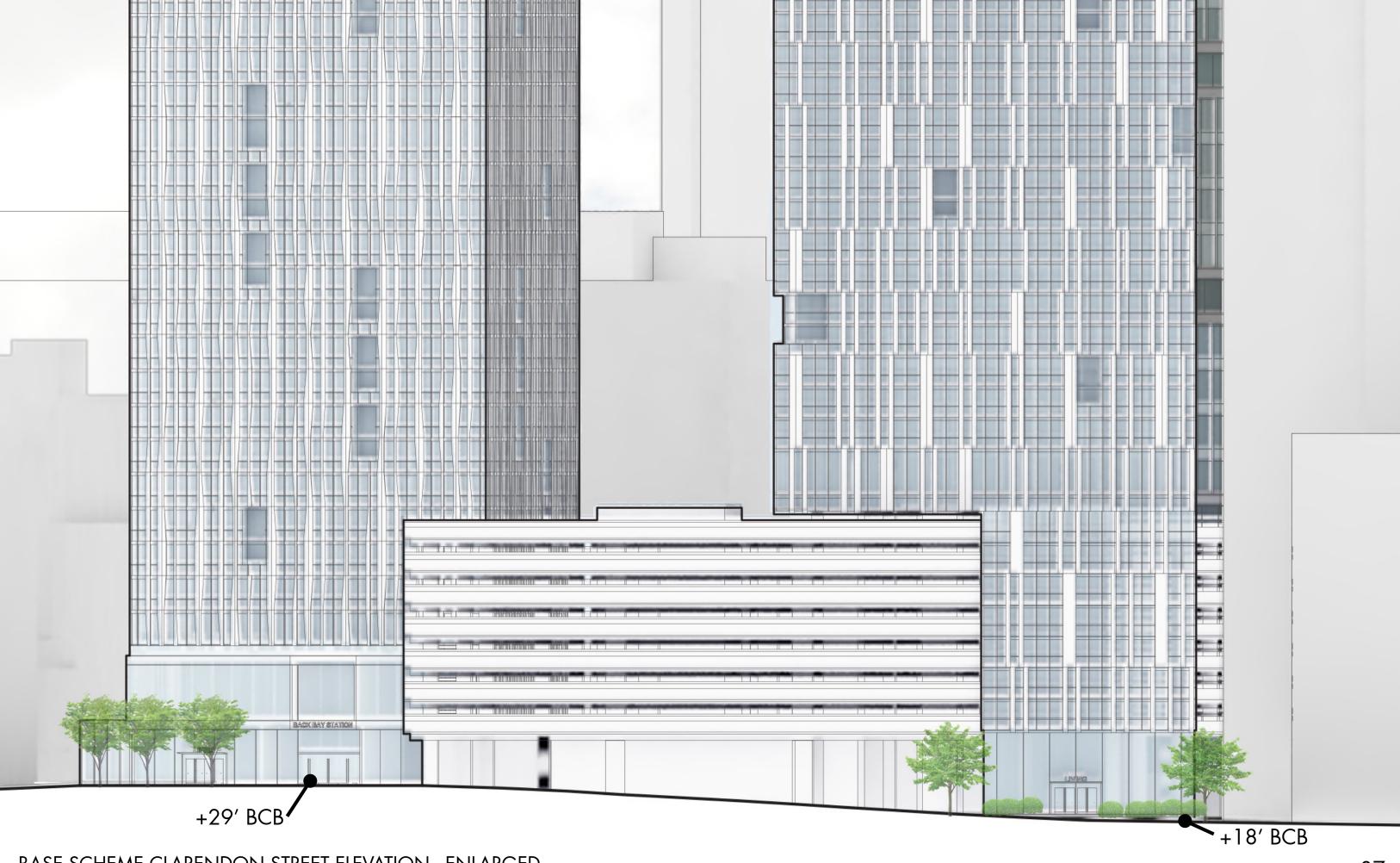
BASE SCHEME STUART STREET ELEVATION

DARTMOUTH STREET



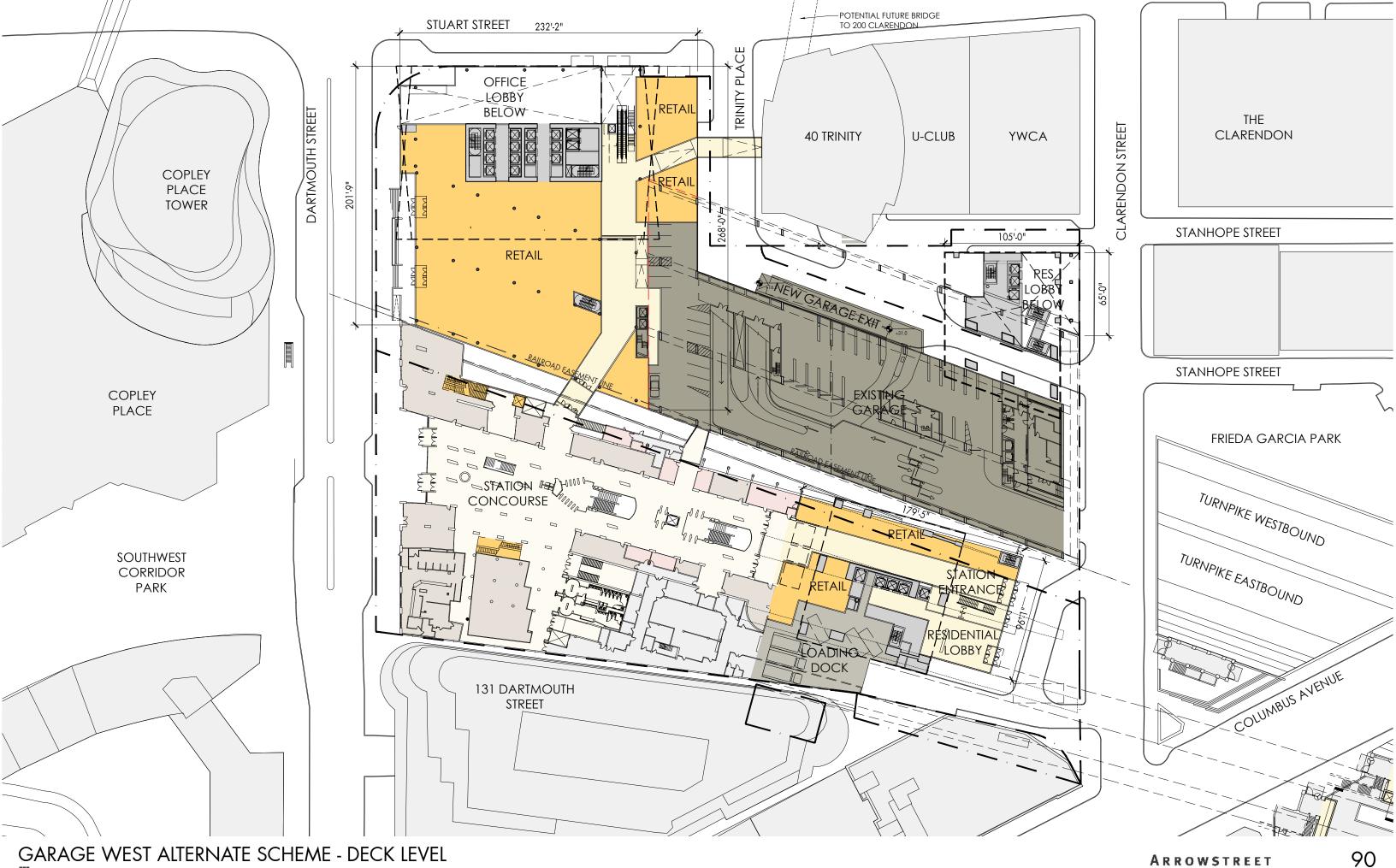


STATION EAST GARAGE EAST STUART STREET TRINITY CHURCH

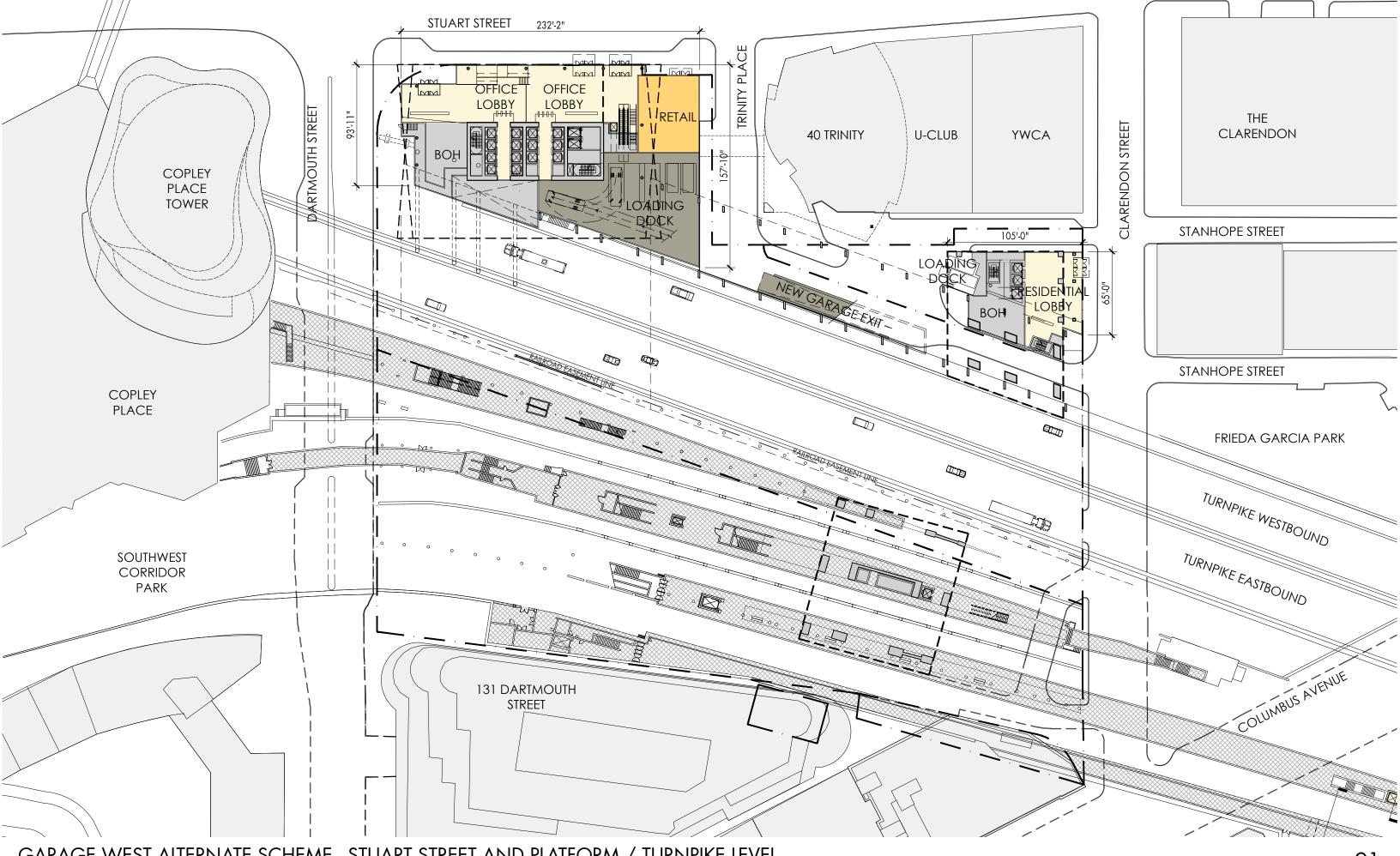








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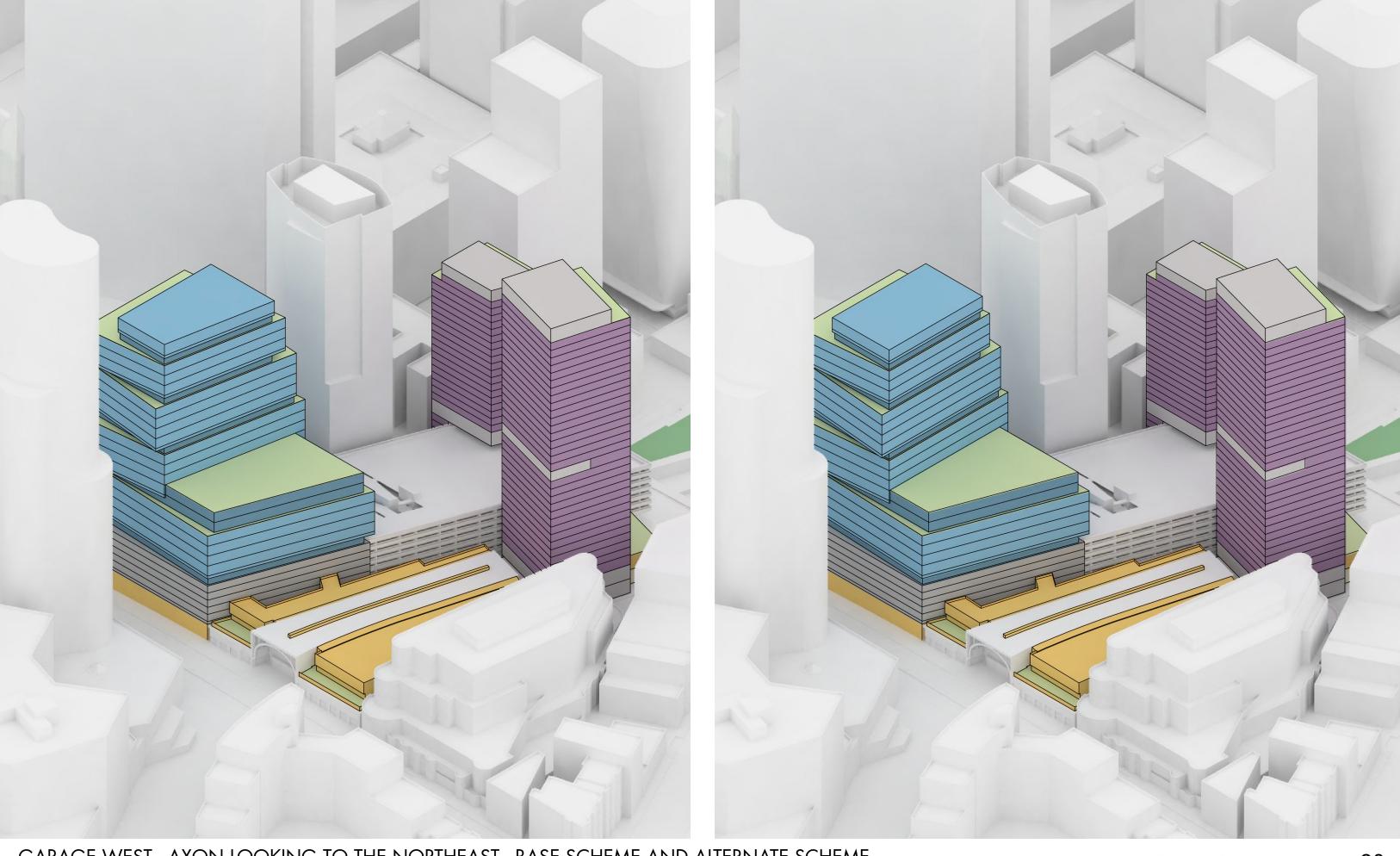


GARAGE WEST ALTERNATE SCHEME - STUART STREET AND PLATFORM / TURNPIKE LEVEL

91

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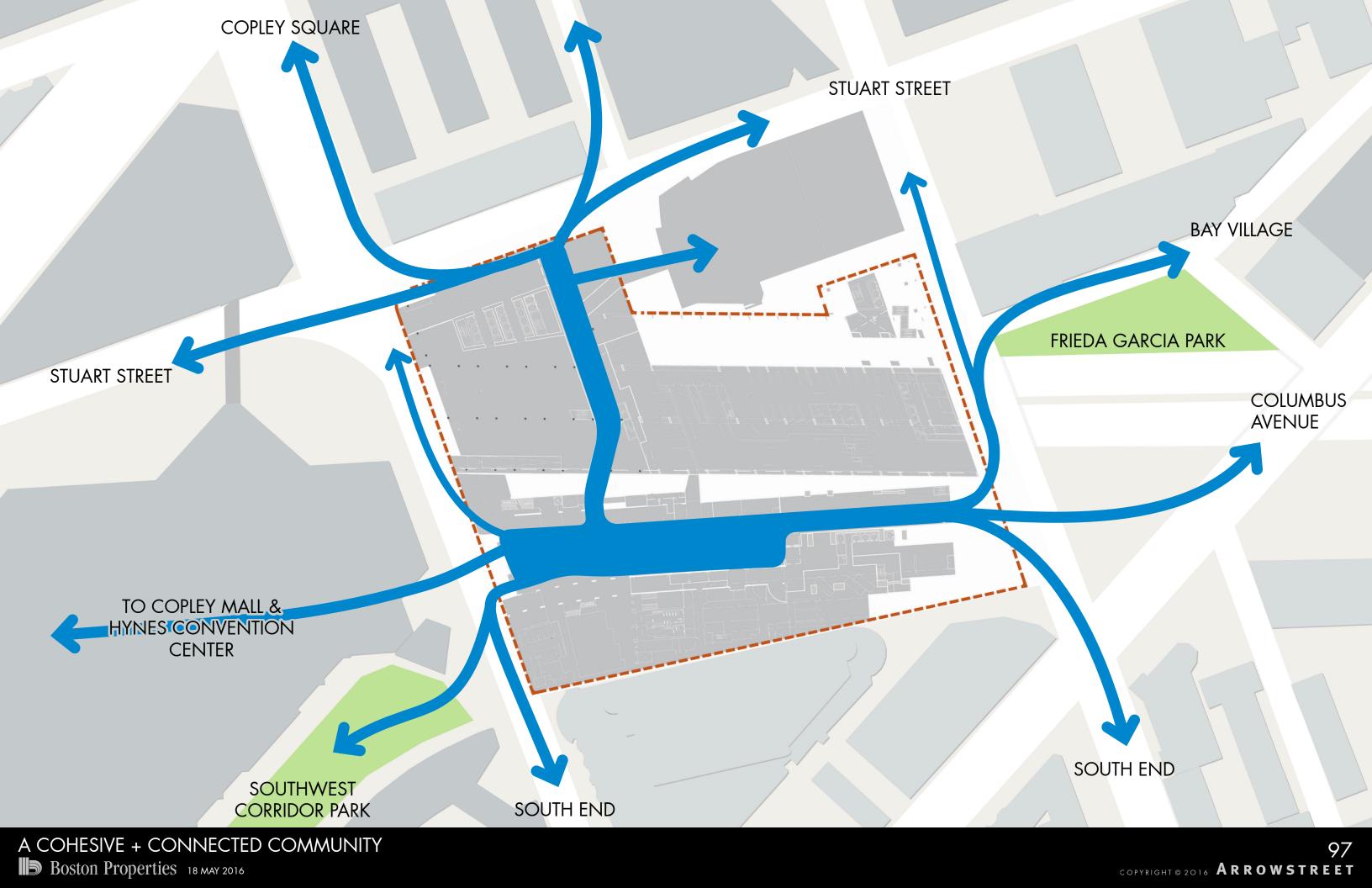
GARAGE WEST - AXON LOOKING TO THE NORTHEAST - BASE SCHEME AND ALTERNATE SCHEME

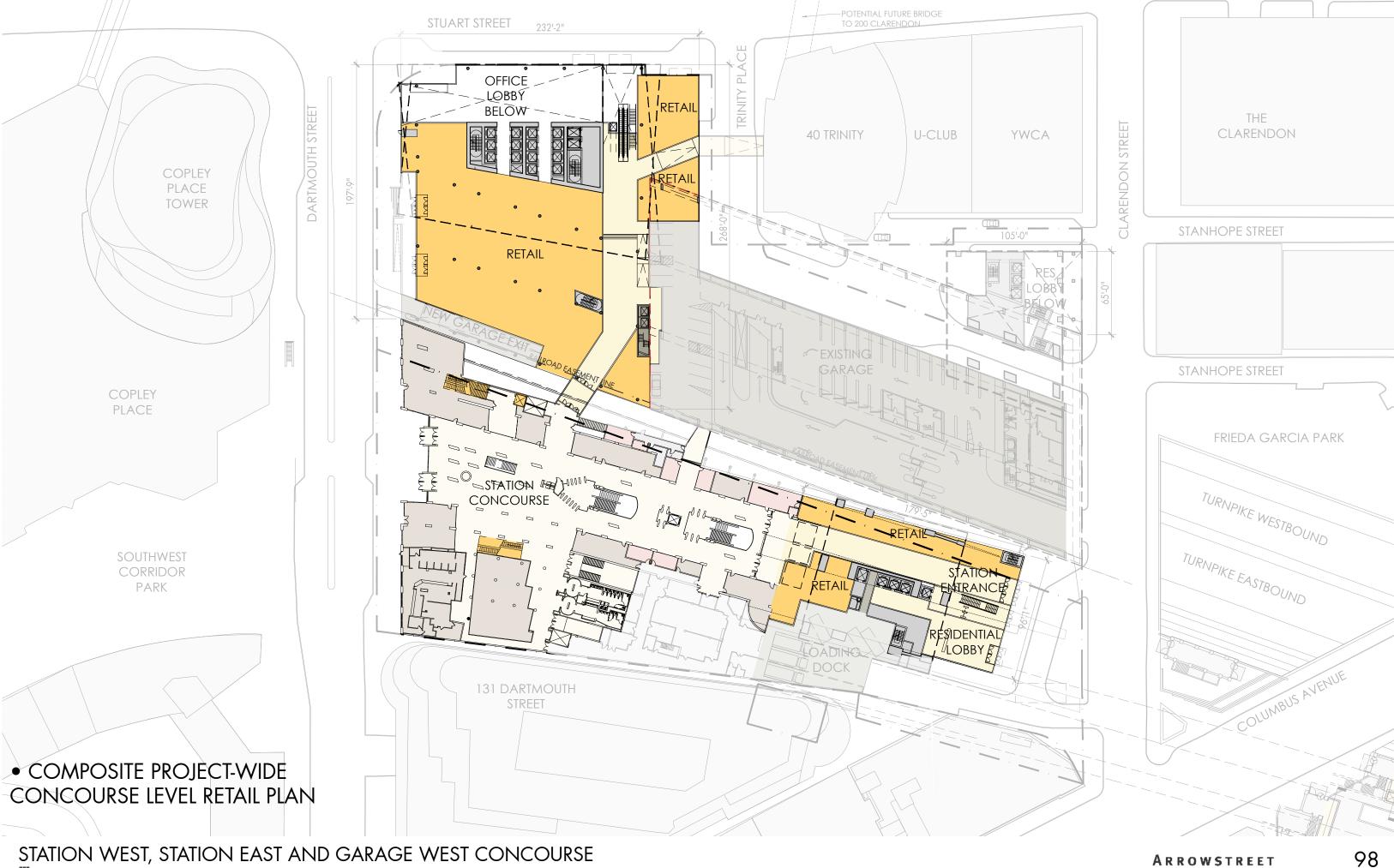
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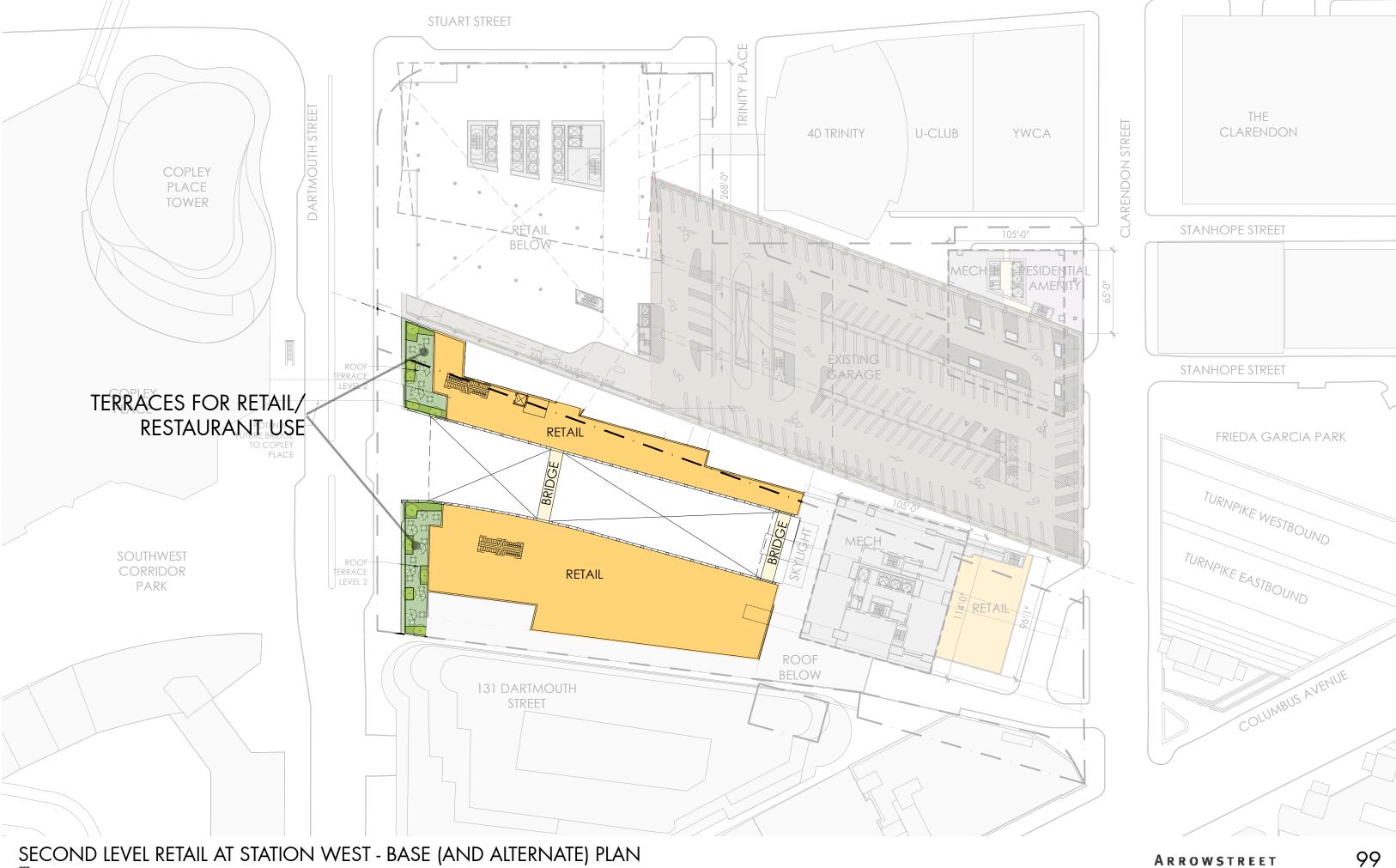








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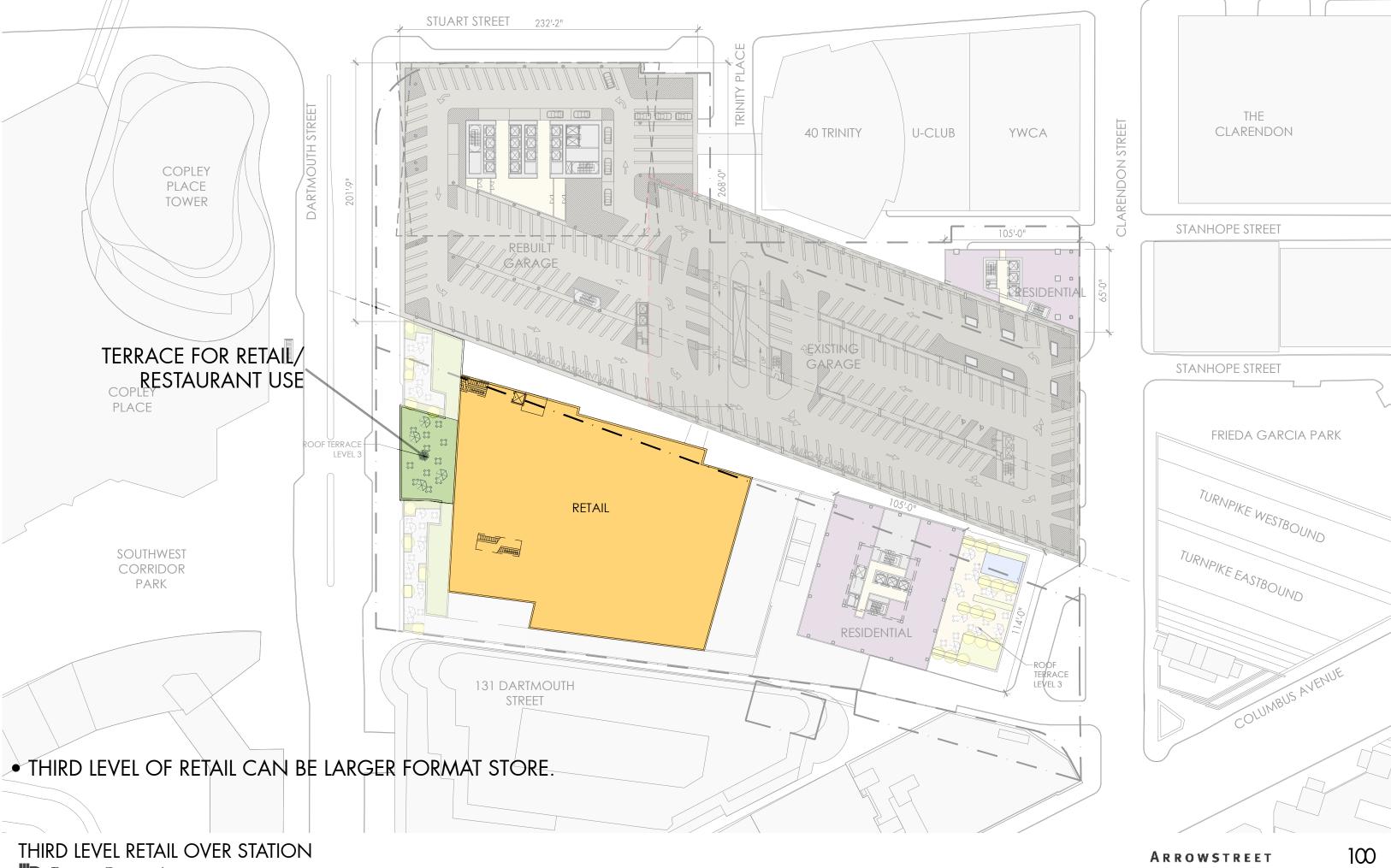


SECOND LEVEL RETAIL AT STATION WEST - BASE (AND ALTERNATE) PLA

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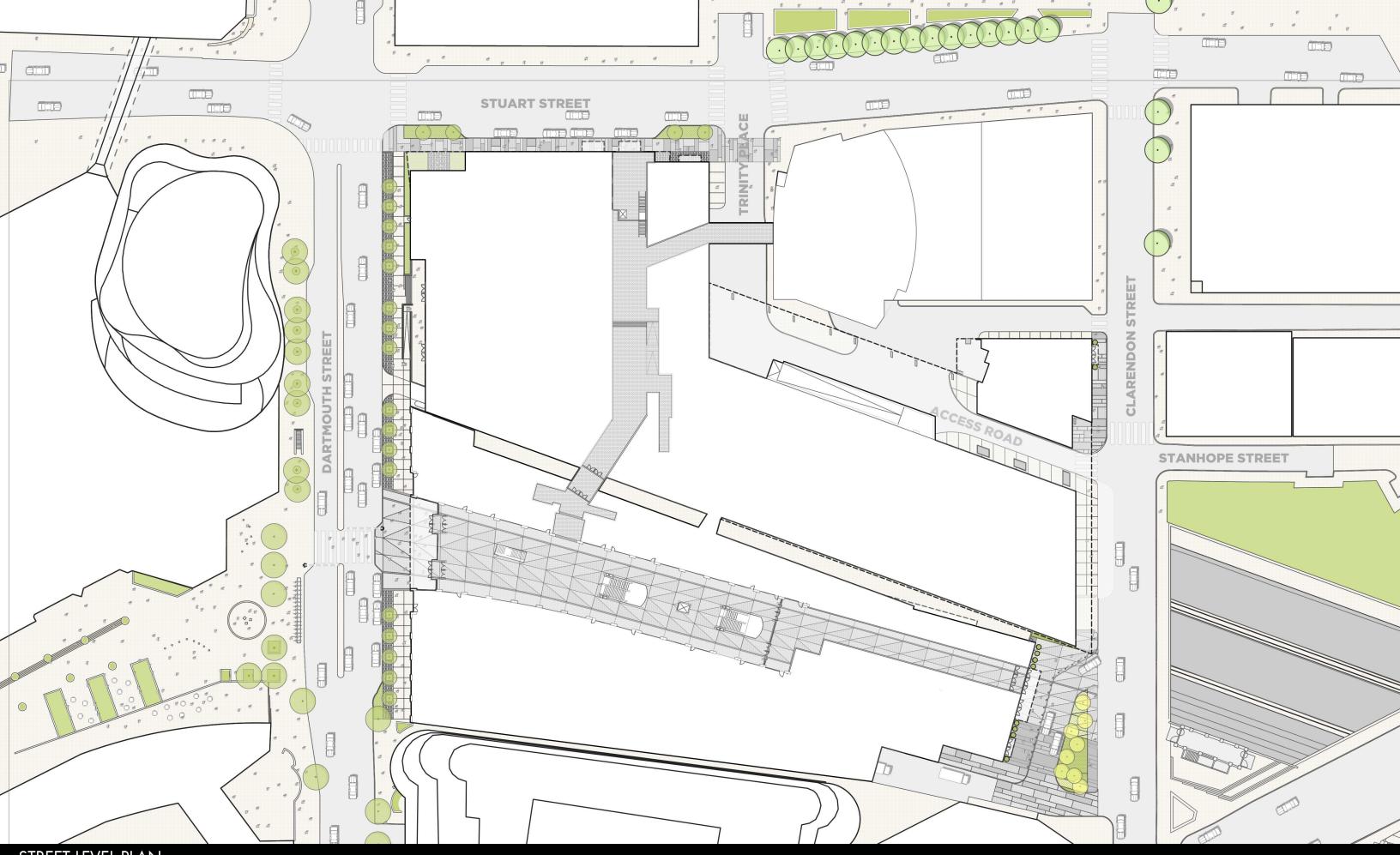
ARROWSTREET 99

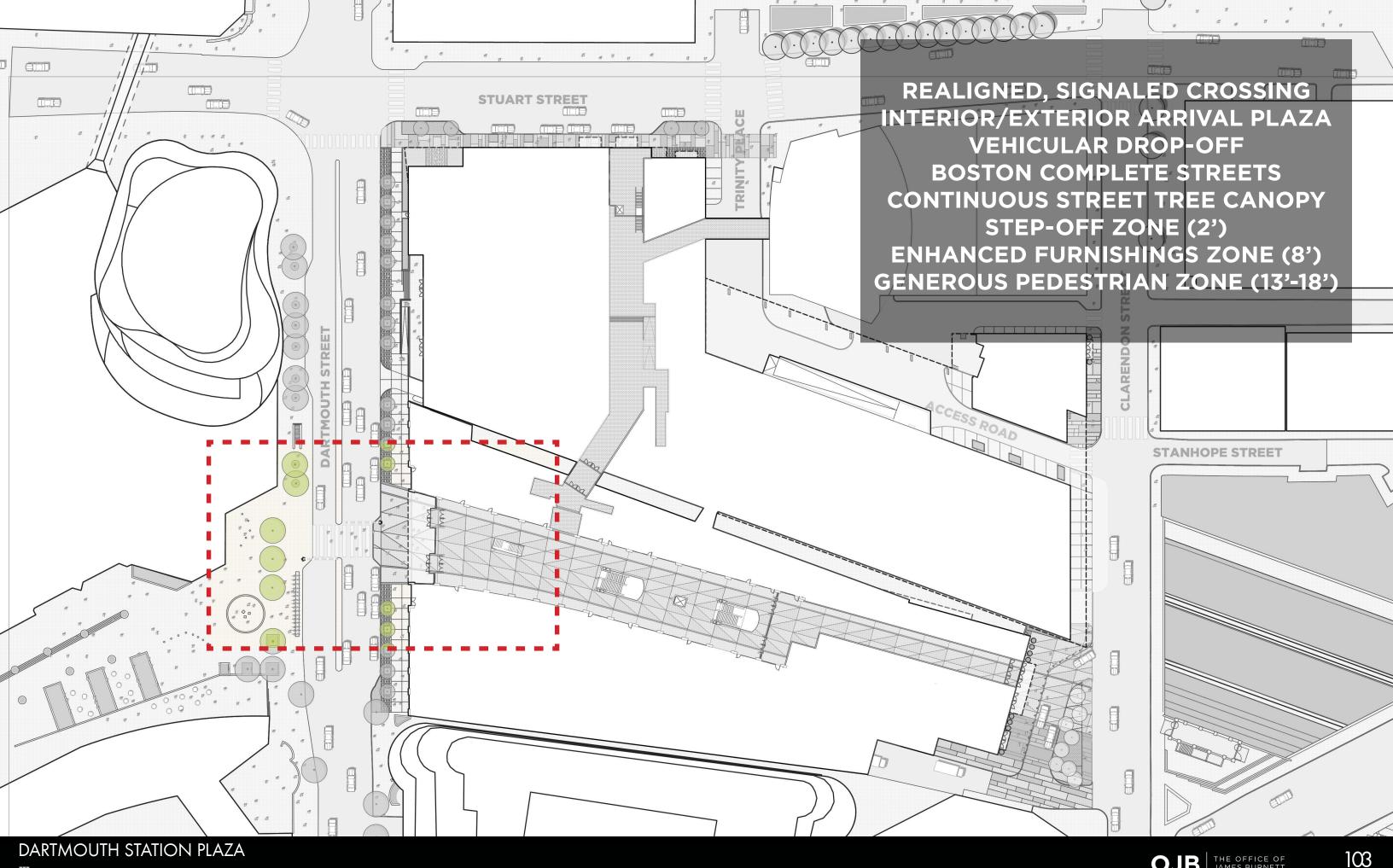
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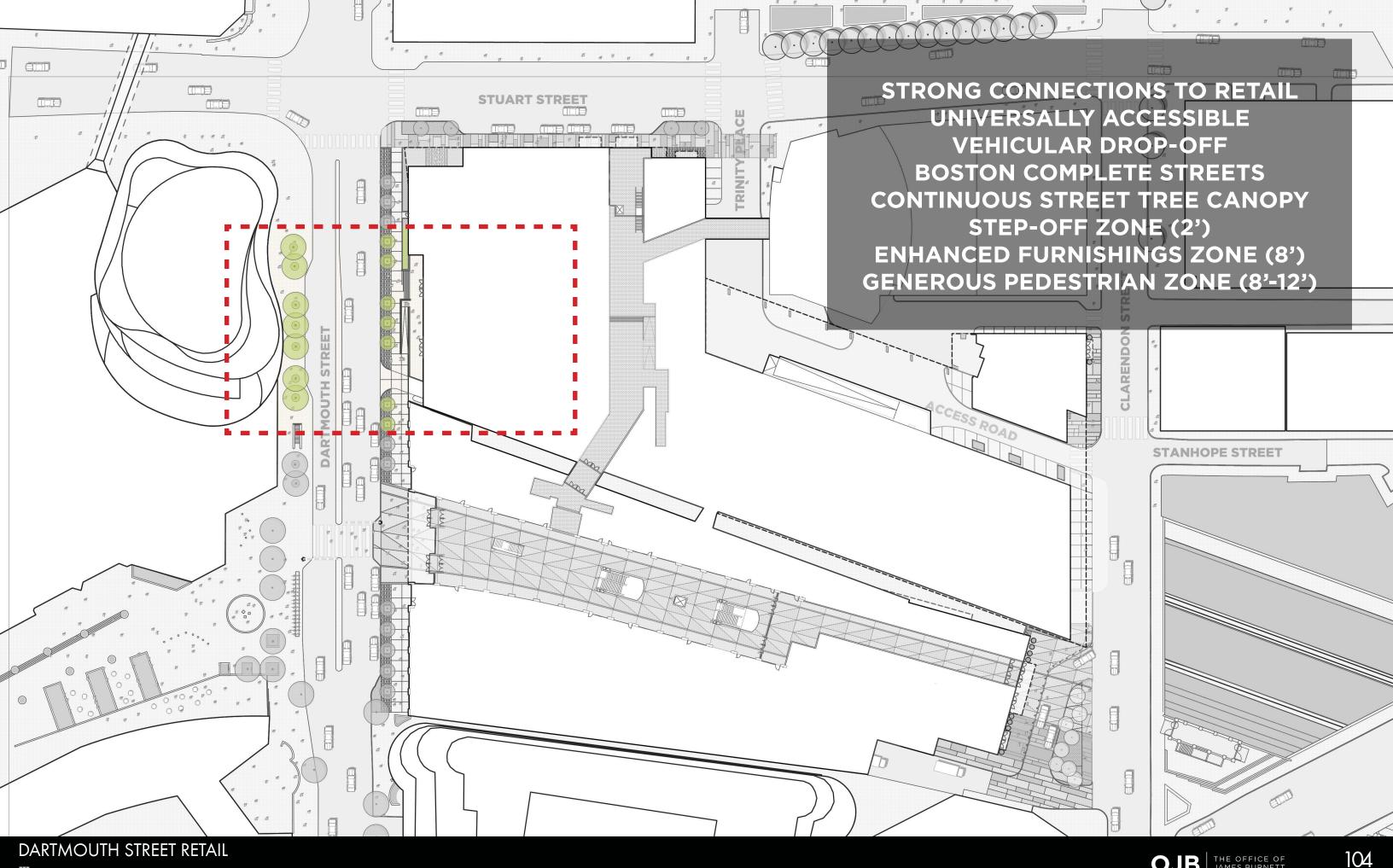


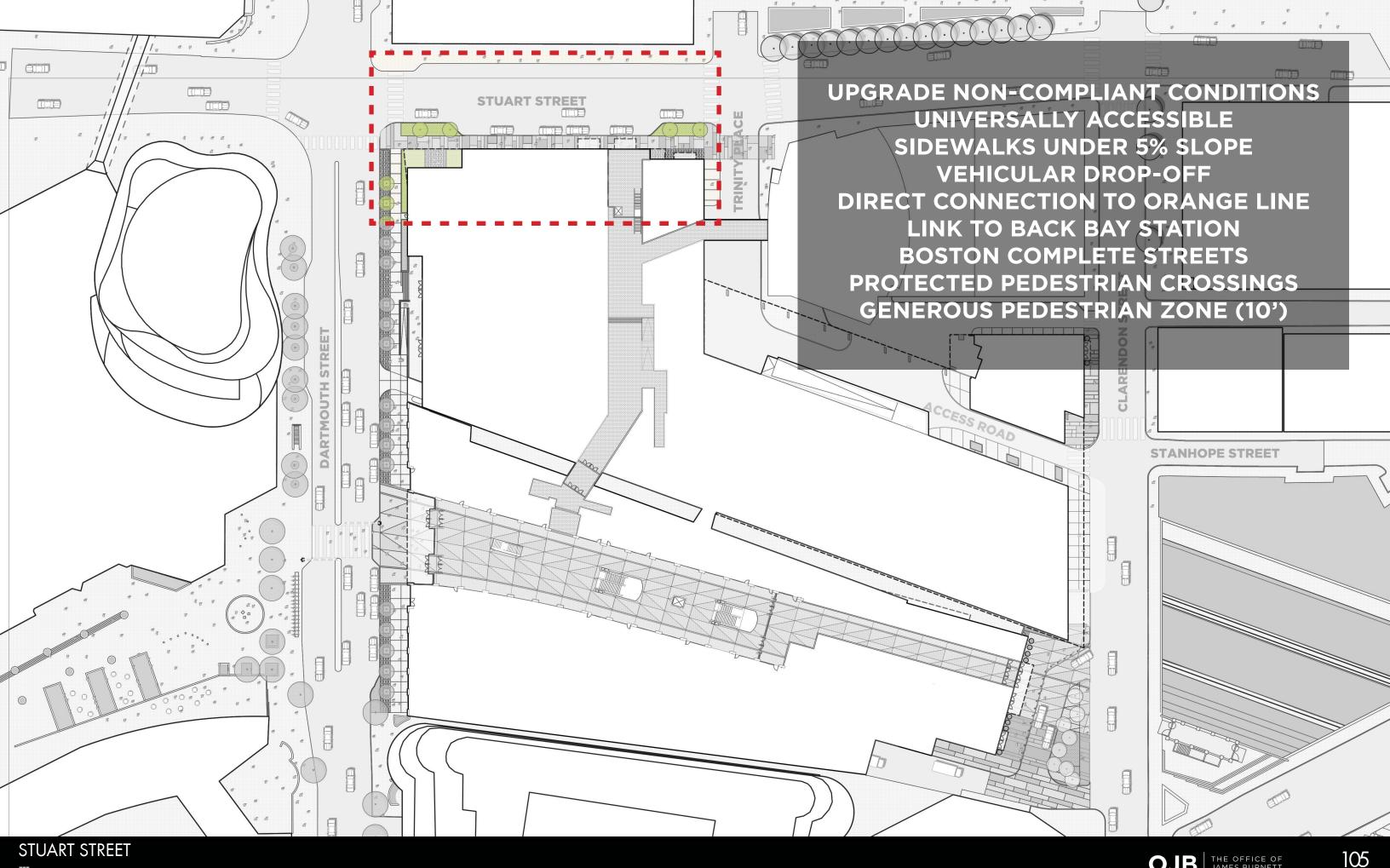
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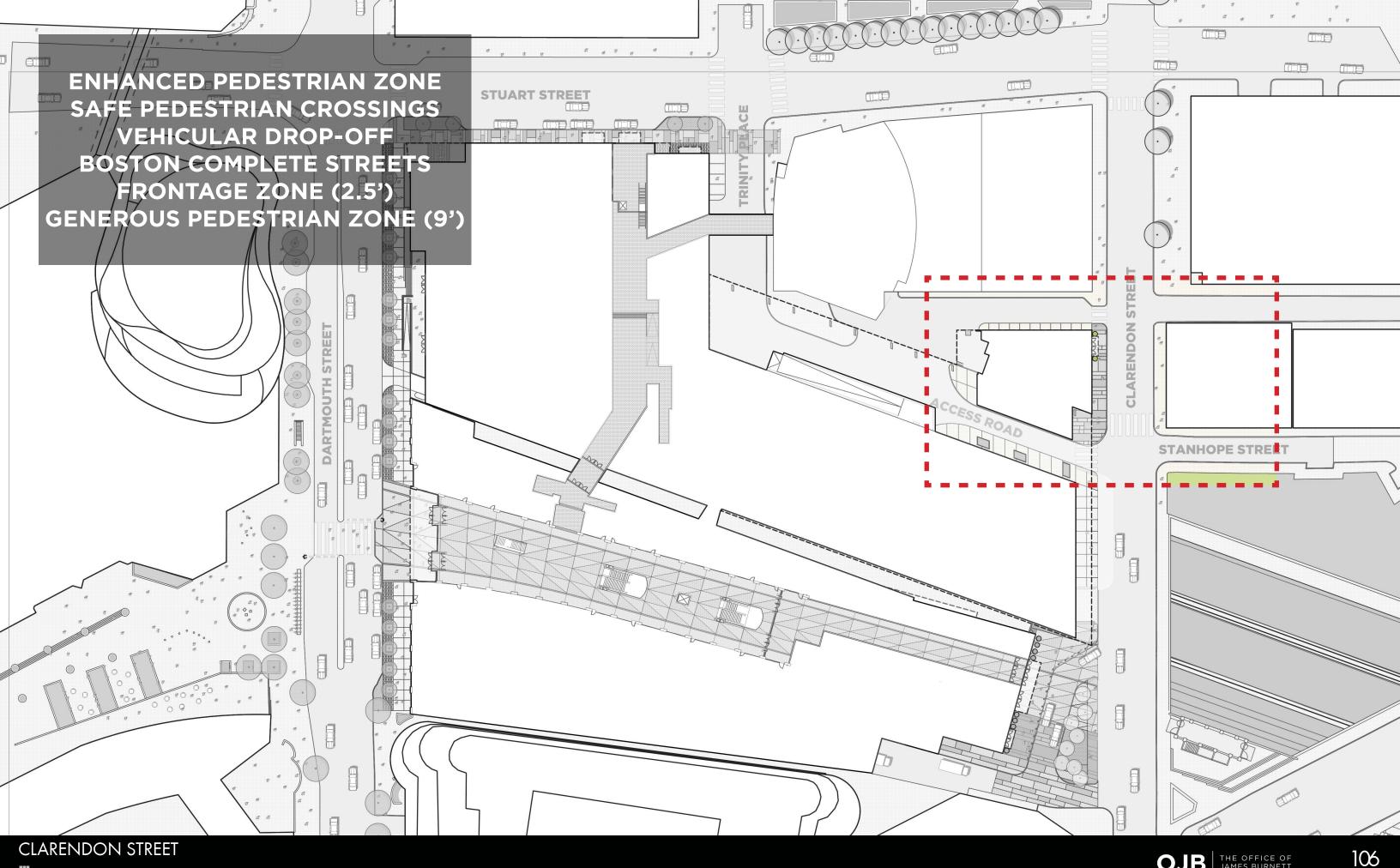


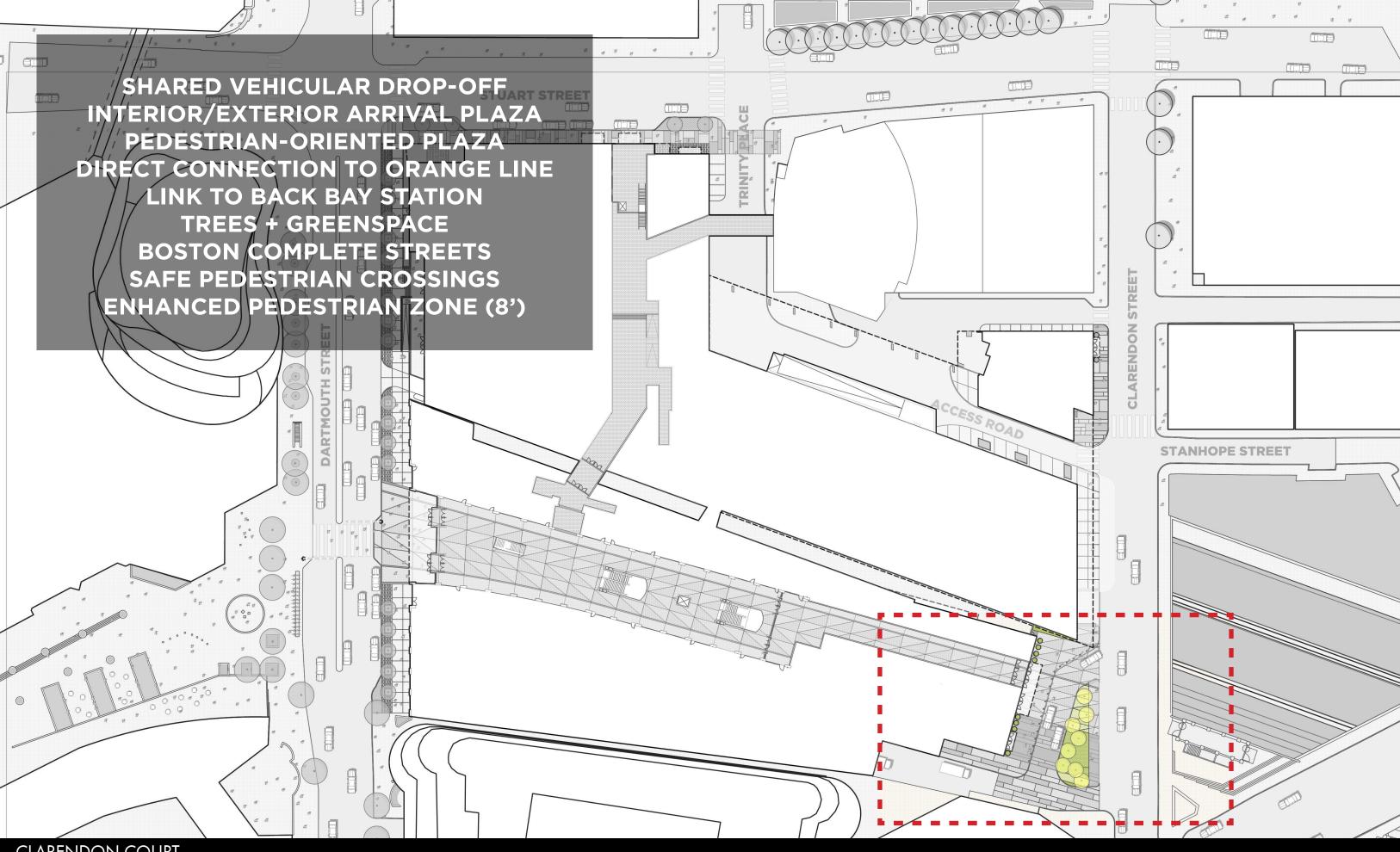


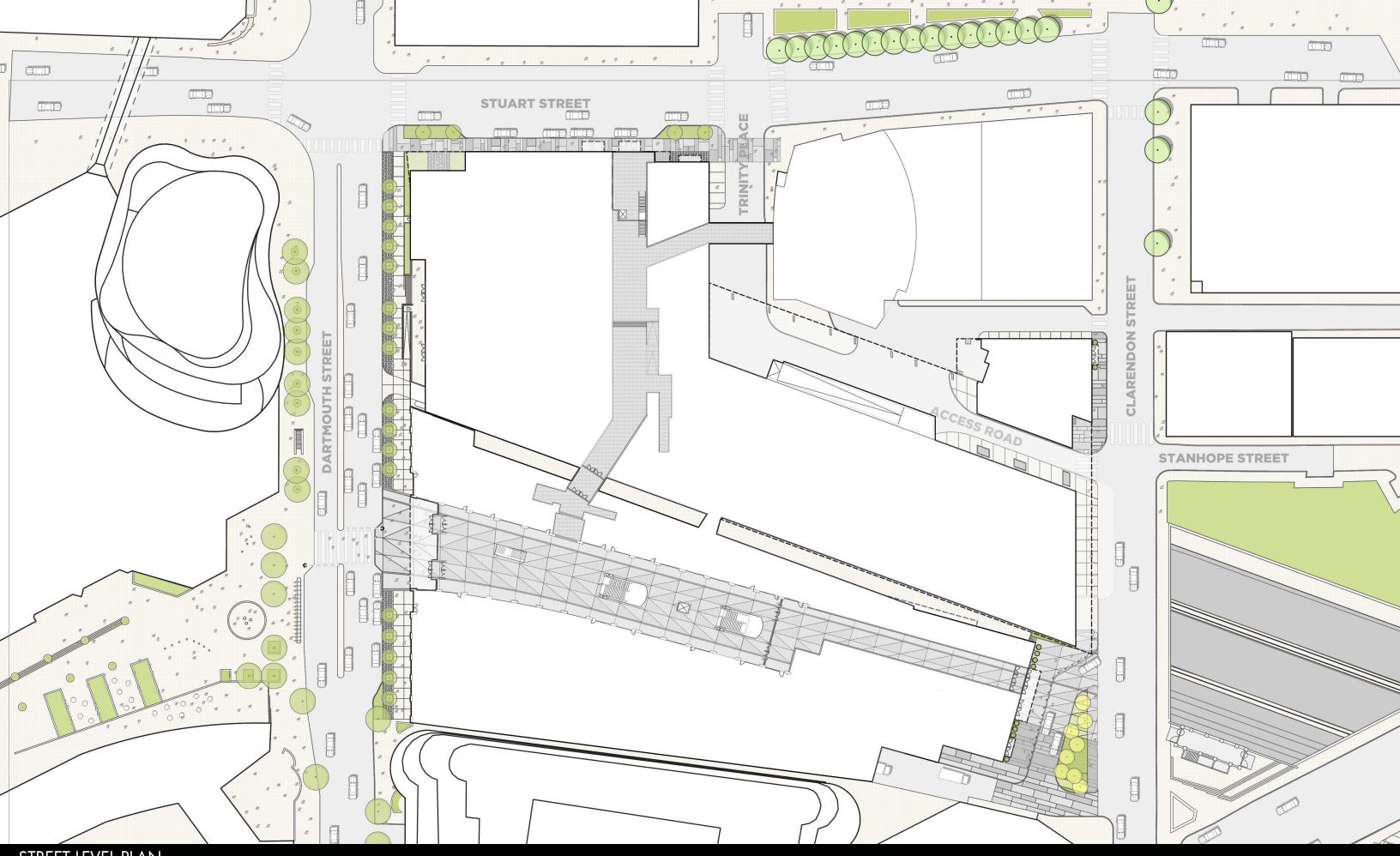














TRAVEL MODE SHARES FOR PROJECT LOCATION

Mode	Office	Residential	Retail	
Vehicles	30%	19%	30%	
Rideshare	7%	4%	7%	
Transit	51%	31%	51%	
Walk	9%	(37%)	9%	
Bike	1%	3%	1%	
Other	2%	6%	2%	



PRELIMINARY PROJECT TRIP GENERATION PROJECTIONS

BASE SCHEMES (TOTAL TRIPS ENTER + EXIT), UN-ADJUSTED FOR SHARED TRIPS

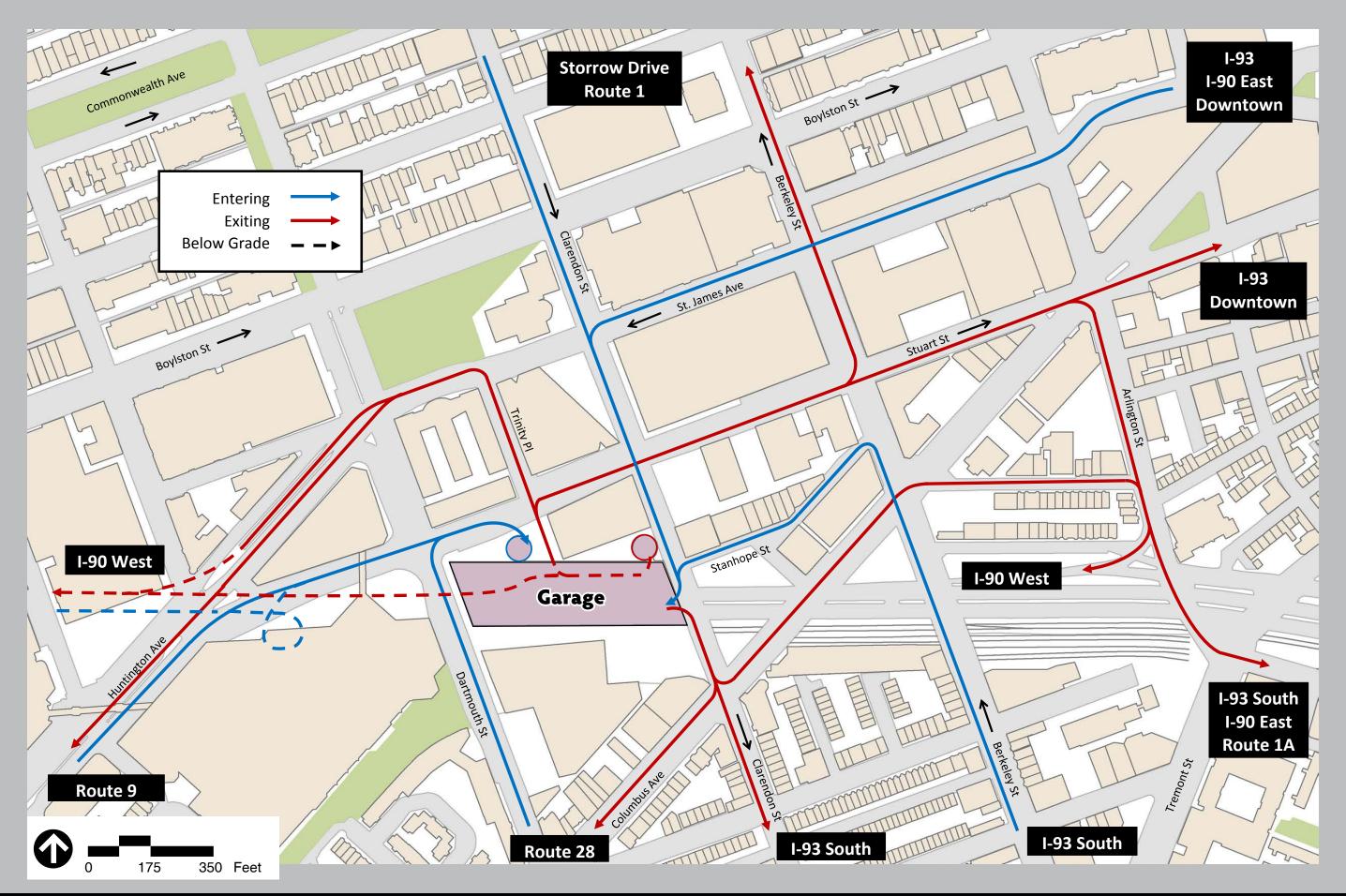
	AVO	Vehicle	Transit	Walk	Bike	Other	
Daily (24-hour)							
Office	1.27	2,084	3,648	644	72	144	
Retail	1.27	1,296	2,266	400	42	88	
Residential	1.30	800	1,398	1,668	136	270	
Total Daily		4,180	7,198	2,692	250	498	
AM Peak Hour		341	595	211	20	39	
PM Peak Hour		344	604	178	16	33	

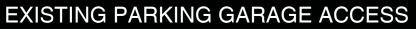


PROJECT PARKING RATIOS

Land Use	Size	Parking Ratio	Parking Spaces	
Office	574,024 SF	0.4 spaces per KSF	230	
Residential	600 units	0.4 spaces per unit	180	
Retail	62,274 SF	0.4 spaces per KSF	25	
Project Sub-to	435			
Existing comm	992			
Permitted pub	Up to 576			
Total			Up to 2,013	

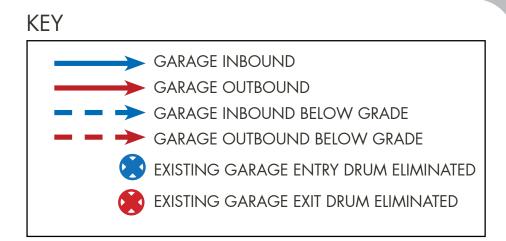


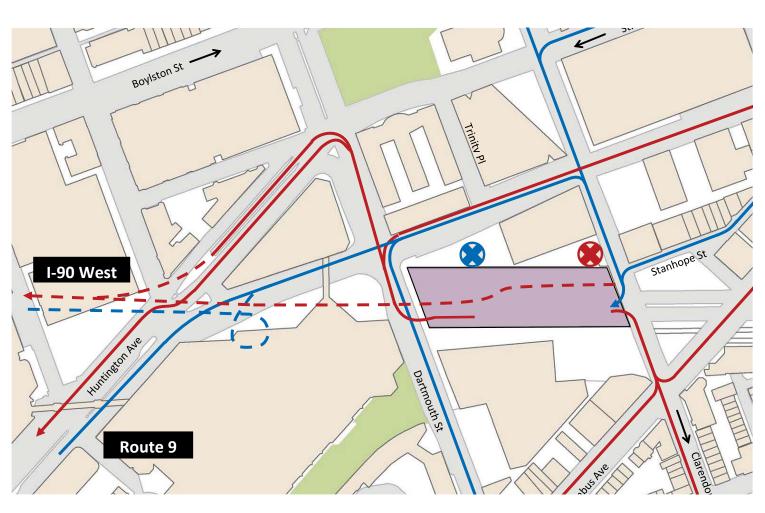


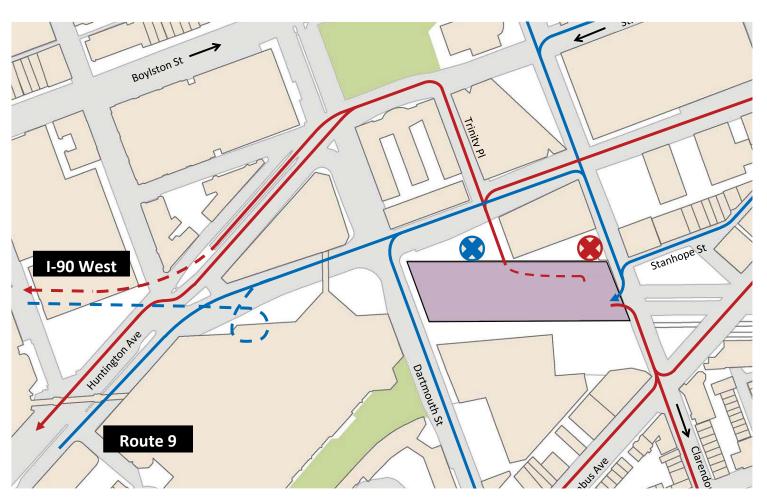






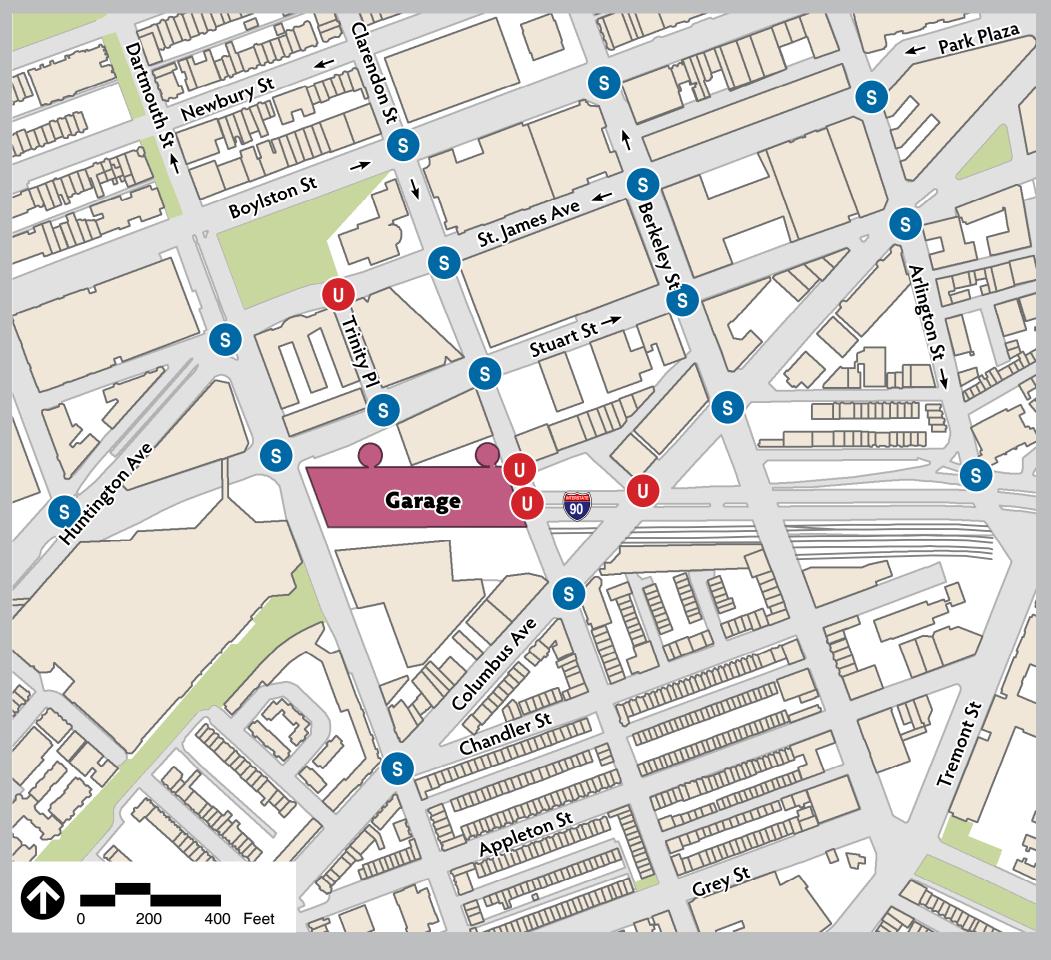






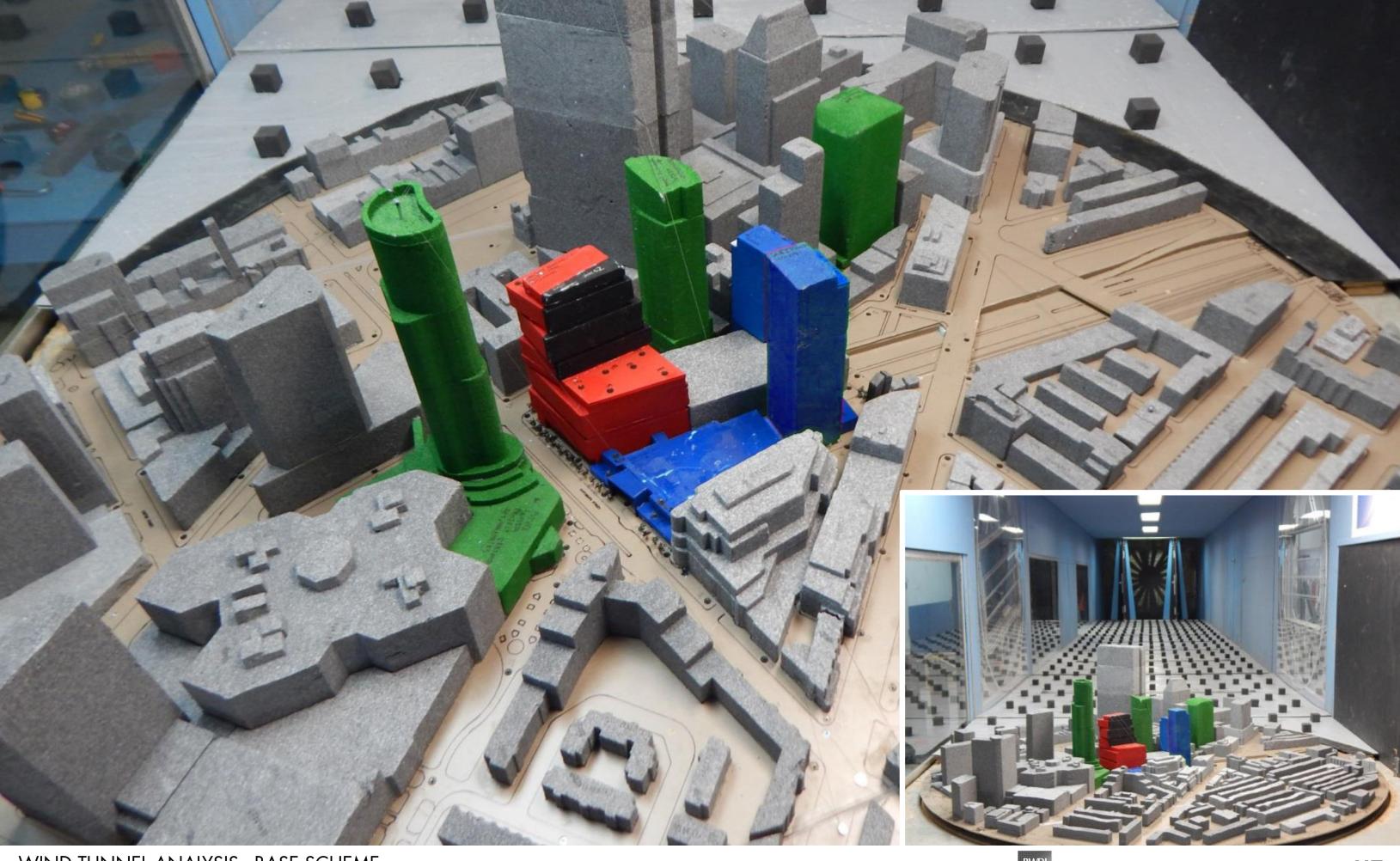
I-90 WESTBOUND ON-RAMP OPEN

I-90 WESTBOUND ON-RAMP CLOSED

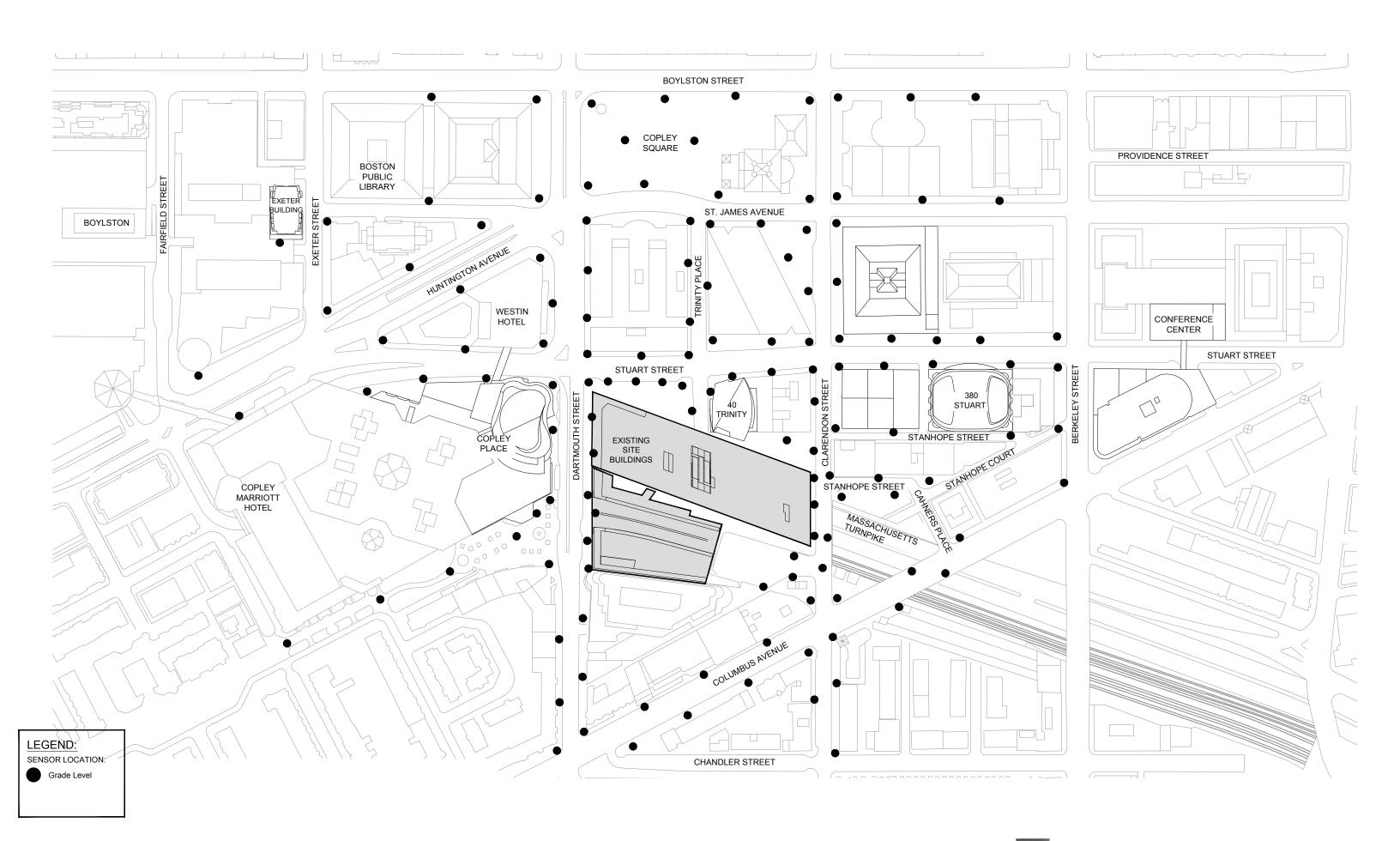


- S Signalized Intersection
 - U Unsignalized Intersection





WIND TUNNEL ANALYSIS - BASE SCHEME
Boston Properties 18 MAY 2016



PRELIMINARY RESULTS

- Complete Analysis Will Be In The Draft Project Impact Report
- Base Scheme And Alternate Scheme Nearly Identical
- Majority Of Locations Showed No Impact From Project
- General Improvement In Other Locations
- Consistent Improvement In Areas Adjacent To Project, Especially Along:
 - o Stuart Street
 - o Clarendon Street
 - o Dartmouth Street
- Some Locations Showed Modest Wind Increases (2-3 mph)
 - o Stuart Street / Trinity Place Intersection
 - o Columbus Avenue
- Continue to Work on Improvements As Design Develops





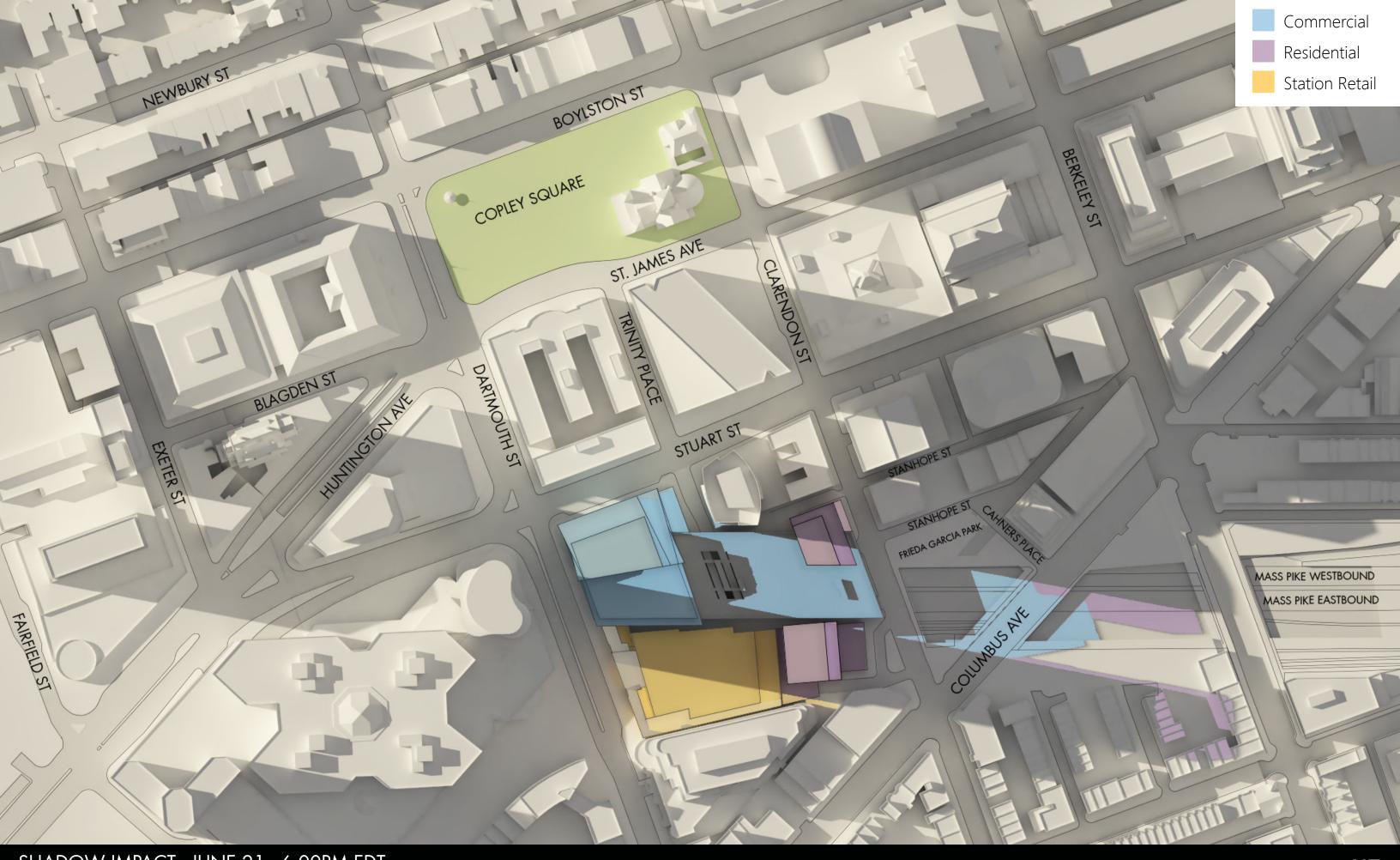


















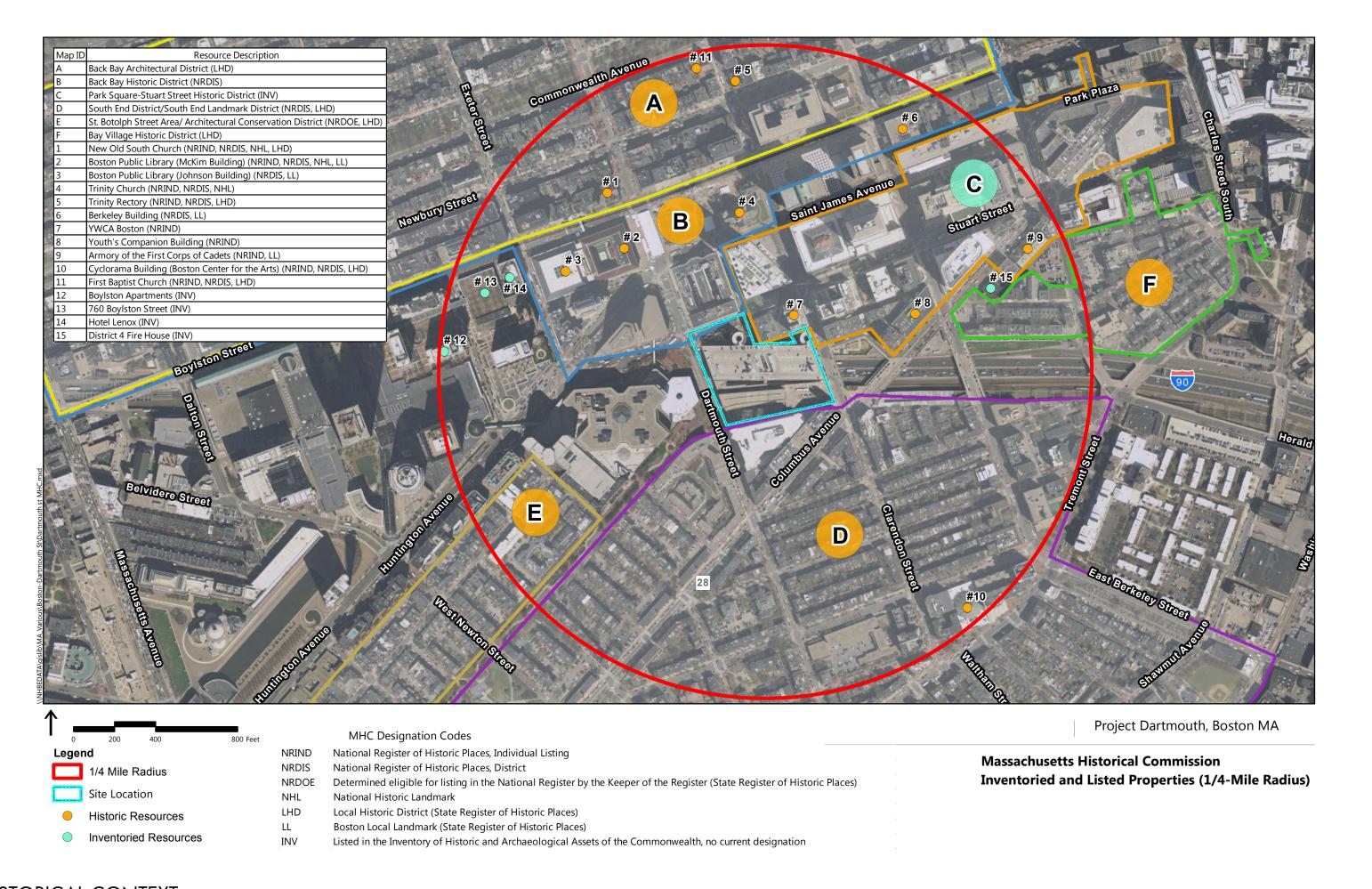












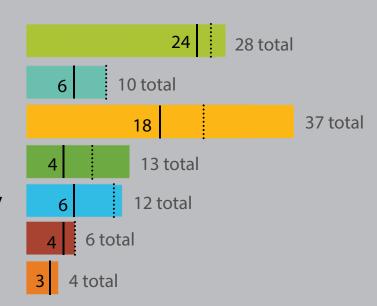




LEED

Garage West (office) LEED-CS

- Sustainable Sites
- Water Efficiency
- 🜕 Energy & Atmosphere
- Materials and Resources
- Indoor Environmental Quality
- Innovation in Design
- Regional Priority

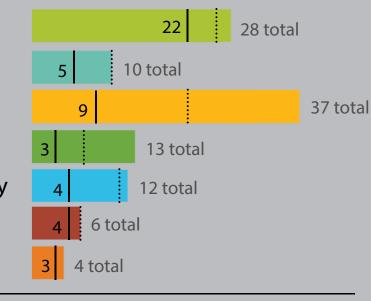


65 (23) 110 total 'yes' 'maybe'



Station West (retail) LEED-CS

- Sustainable Sites
- Water Efficiency
- Energy & Atmosphere
- Materials and Resources
- Indoor Environmental Quality
- Innovation in Design
- Regional Priority



50 (34) 110 total 'yes' 'maybe'

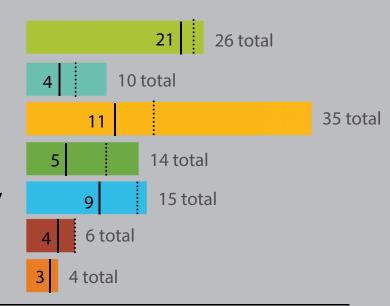


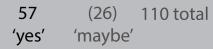


LEED

Garage East (residential) LEED-NC

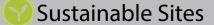
- Sustainable Sites
- Water Efficiency
- 🜕 Energy & Atmosphere
- Materials and Resources
- Indoor Environmental Quality
- Innovation in Design
- Regional Priority



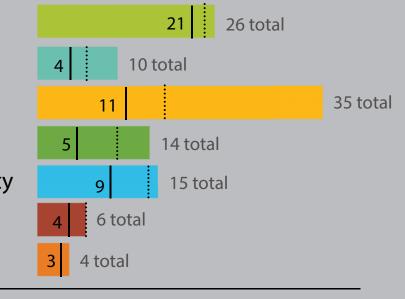




Station East (residential) LEED-NC

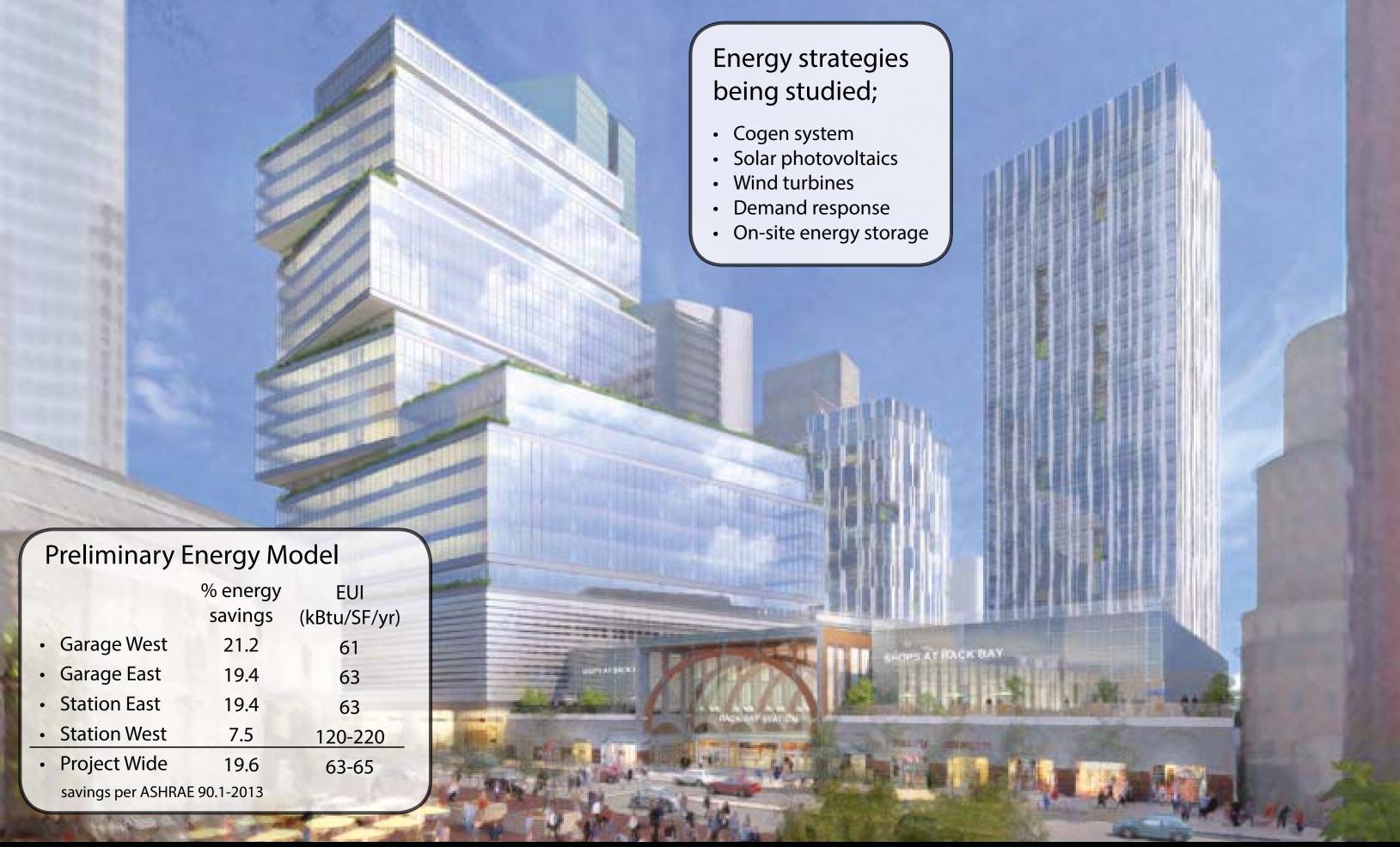


- Water Efficiency
- 🜕 Energy & Atmosphere
- Materials and Resources
- (S) Indoor Environmental Quality
- Innovation in Design
- Regional Priority



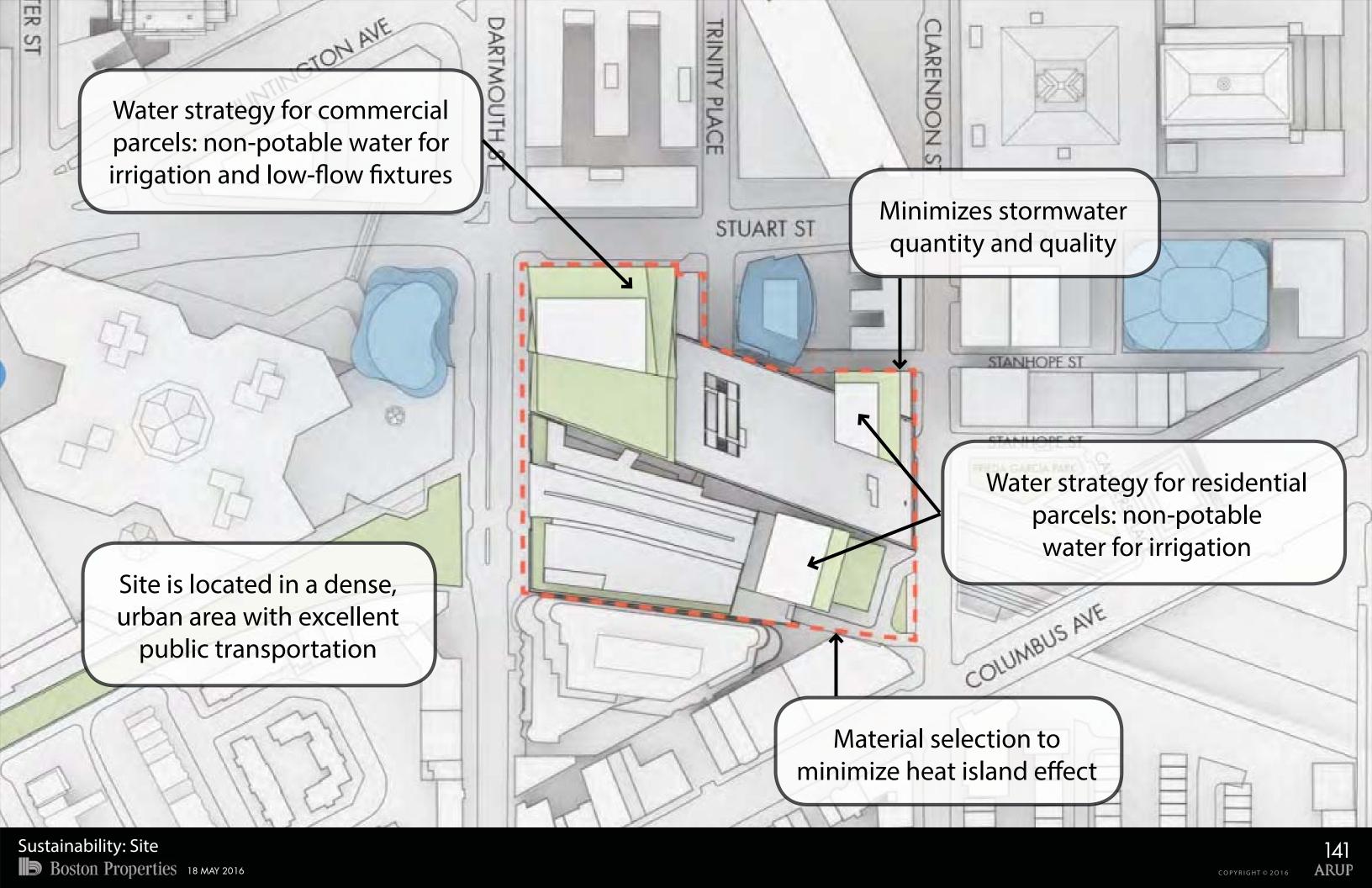
57 (26) 110 total 'yes' 'maybe'





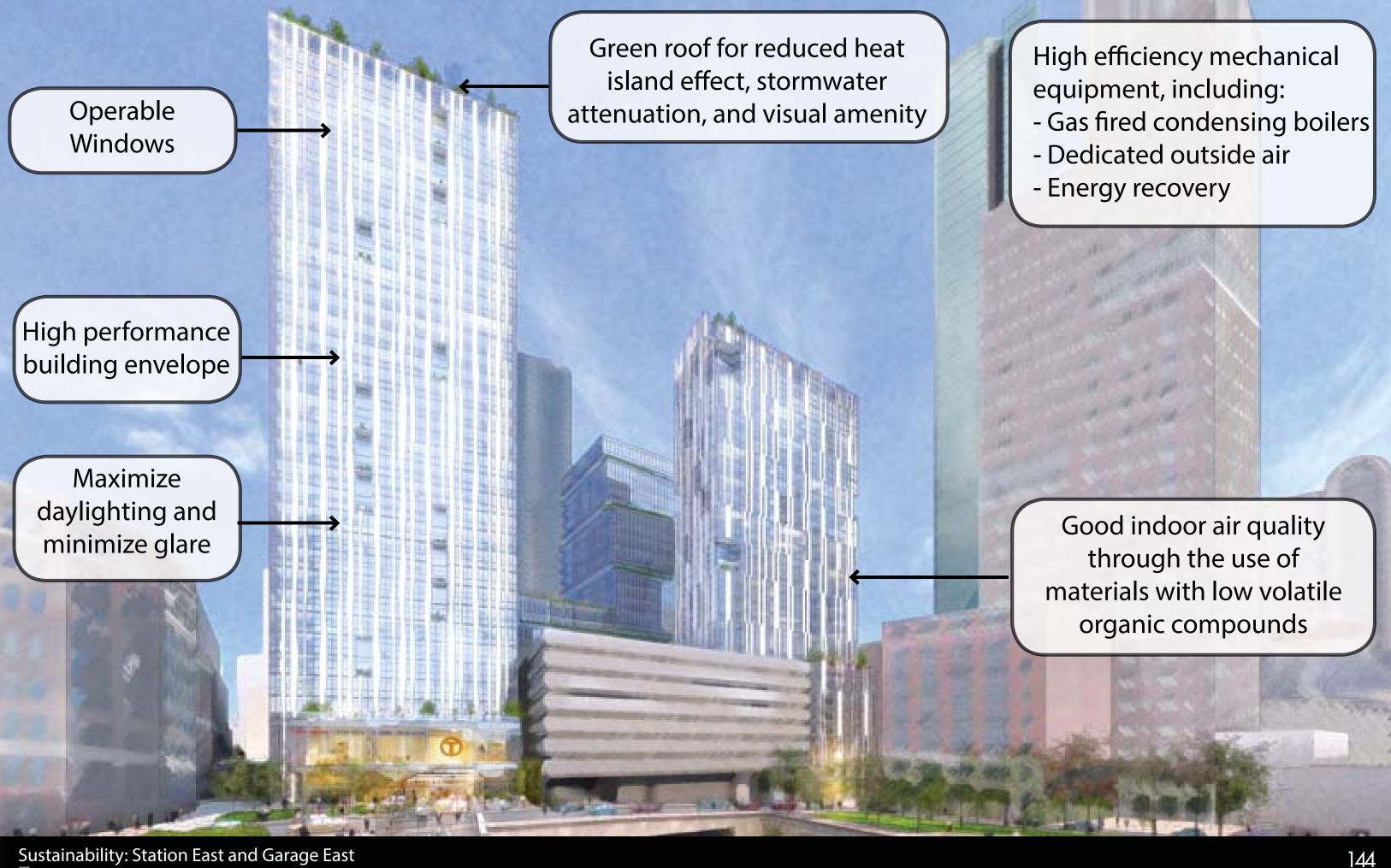
Sustainability: Energy





High efficiency mechanical equipment, including: Low lighting - Gas fired condensing boilers power densities - Active chilled beams from efficient - Dedicated outside air LED lighting - Heat recovery High performance building envelope Green roof for reduced heat island effect, stormwater attenuation, and visual amenity Maximize daylighting and minimize glare Good indoor air quality through demand controlled ventilation and use of materials with low volatile organic compounds Sustainability: Garage West 142







KEY DATES + CONTACT INFORMATION

- MEPA Public Comment Period Ends
 May 31st
- BCDC Meeting
 June 7th
- PNF Public Comment Period Ends June 17th

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