

### THE BACK BAY SOUTH END GATEWAY PROJECT BOSTON, MASSACHUSETTS FEBRUARY 23, 2017 CAC MEETING #8

OPS AT BACK BAY

### AGENDA

- Introductions (5 Min.)
- Review Of Article 80 Process And Project Status (5 Min.)
- Project Design & Refinements Since PNF/ENF (15 Min.)
- Public Realm Improvements (15 Min.)
- Wind And Shadow (15 Min.)
- CAC Comment (20 Min.)
- Public Comment (20 Min.)
- Next Steps (5 Min.)



### 5 Min.) Min.)

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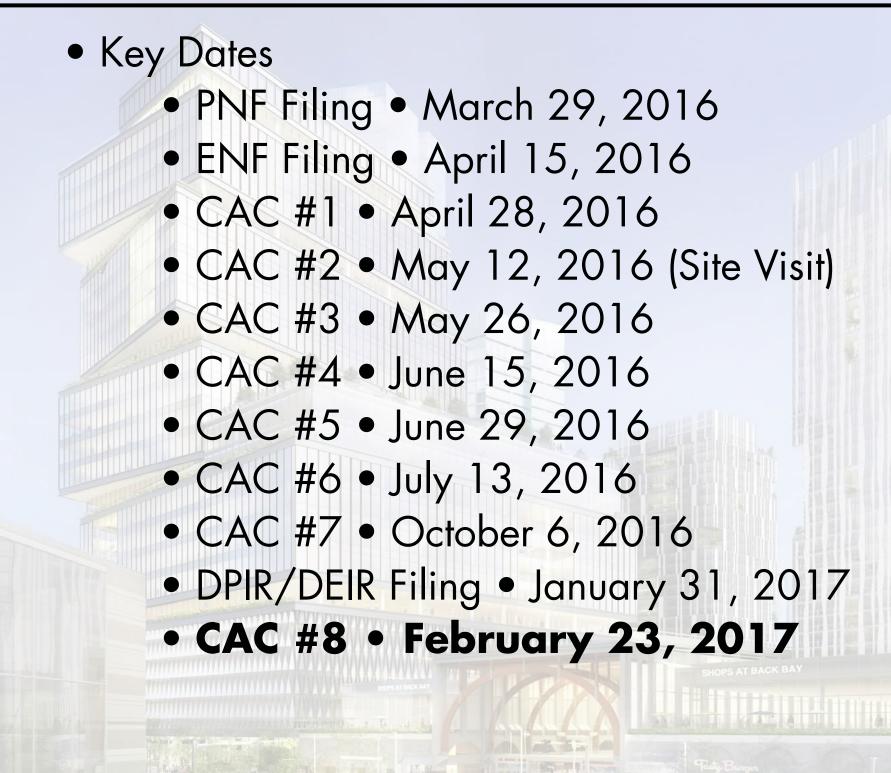
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### **PROJECT PROCESS**

- Article 80 Review
  - PNF
  - DPIR (Draft Project Impact Report)
  - FPIR (Final Project Impact Report) Or Supplemental Information As Requested
- MEPA Review (Concurrent)
  - ENF
  - DEIR (Draft Environmental Impact Report)
  - FEIR (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



### PROJECT STATUS



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### PROJECT DESCRIPTION



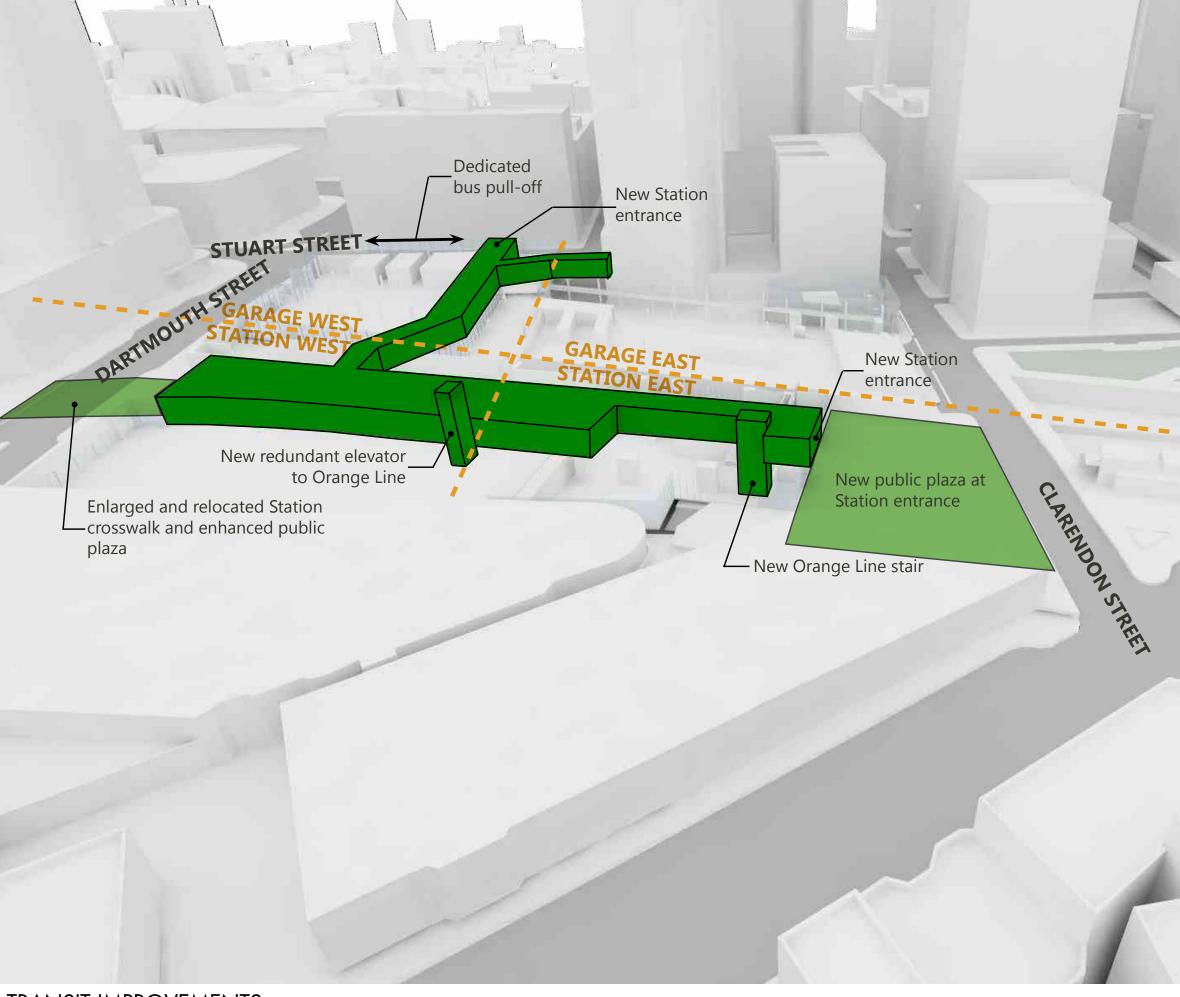
PROJECT PROGRAM bxp Boston Properties 23 FEBRUARY 2017

## PUBLIC BENEFITS

- Approximately \$15.3 Million In New Annual Real Estate Tax Revenues For The City Of Boston
- Approximately \$5,500,000 In Housing Linkage And \$1,100,000 In Job Linkage Payments
- Approximately 2,500 Construction Jobs And Approximately 3,200 Permanent Jobs Across All Four Air Rights Parcel
- A Variety Of New High Quality Housing Opportunities, Including The Creation Of Affordable Housing
- New Entrances And Accessible Connections To The Station, Increasing Neighborhood Connectivity And Public Safety
- Significant Public Realm Improvements Within The Project Site Including The Creation Of An 11,000sf Public Plaza
- New And Diverse Retail Opportunities For Neighborhood Residents, Transit Customers And The Public At Large
- Innovative New Workplace Opportunities For A Variety Of Business Types

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TRANSIT IMPROVEMENTS bxp Boston Properties 23 FEBRUARY 2017 COLUMBUS AVENUE Potential new redundant elevator to Tracks 1/3 Eng

Potential new redundant elevatorto Track 2

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## COMMUNITY/AGENCY FEEDBACK & PROJECT EVOLUTION

- Desire For Public Open Space
- Desire To Preserve Architectural Integrity Of Back Bay Station
- Desire To See More Detail On Public Realm Design
- Station East
  - Addition Of 11,000sf Public Plaza
- Station West
  - Abandoned Two-Story Addition
- Site Wide
  - Detailed Development & Phasing Of Public Realm Improvements







VIEW 7 - AERIAL LOOKING TO THE NORTHEAST - FUTURE EXISTING CONDITION Boston Properties 23 FEBRUARY 2017



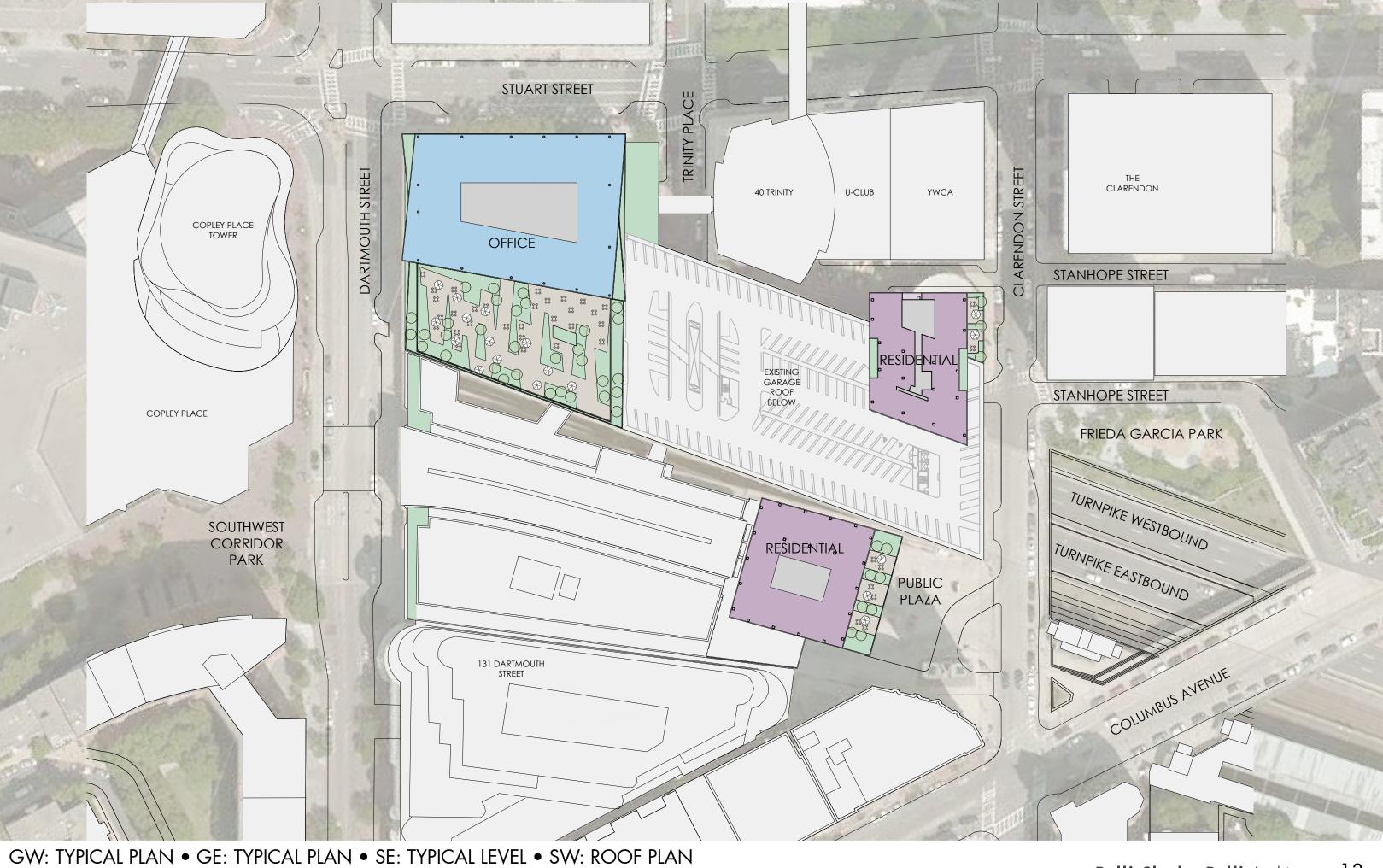
VIEW 7 - AERIAL LOOKING TO THE NORTHEAST - FUTURE PROPOSED BASE SCHEME Boston Properties 23 FEBRUARY 2017



VIEW 7 - AERIAL LOOKING TO THE NORTHEAST - FUTURE PROPOSED ALTERNATE SCHEME Boston Properties 23 FEBRUARY 2017

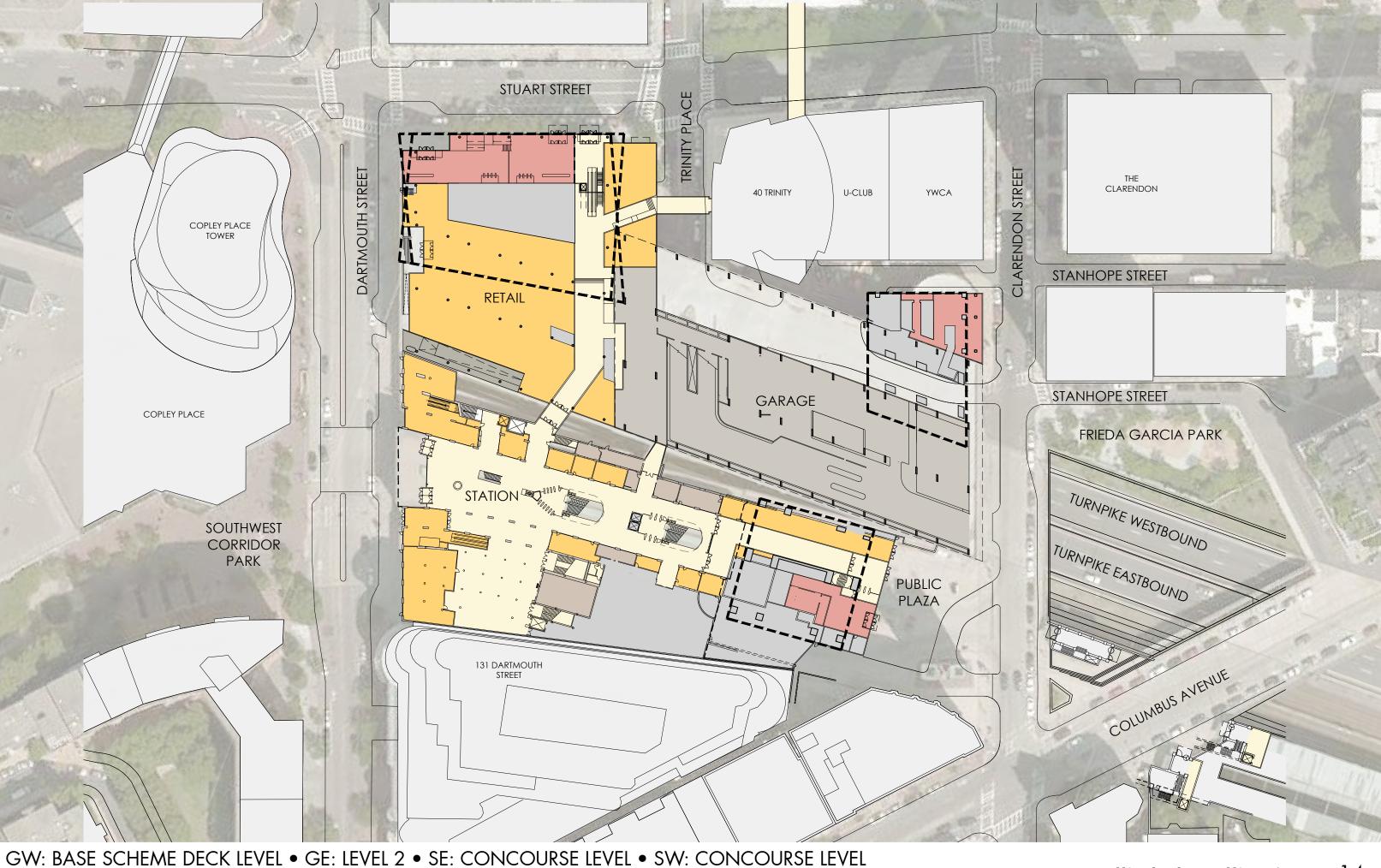




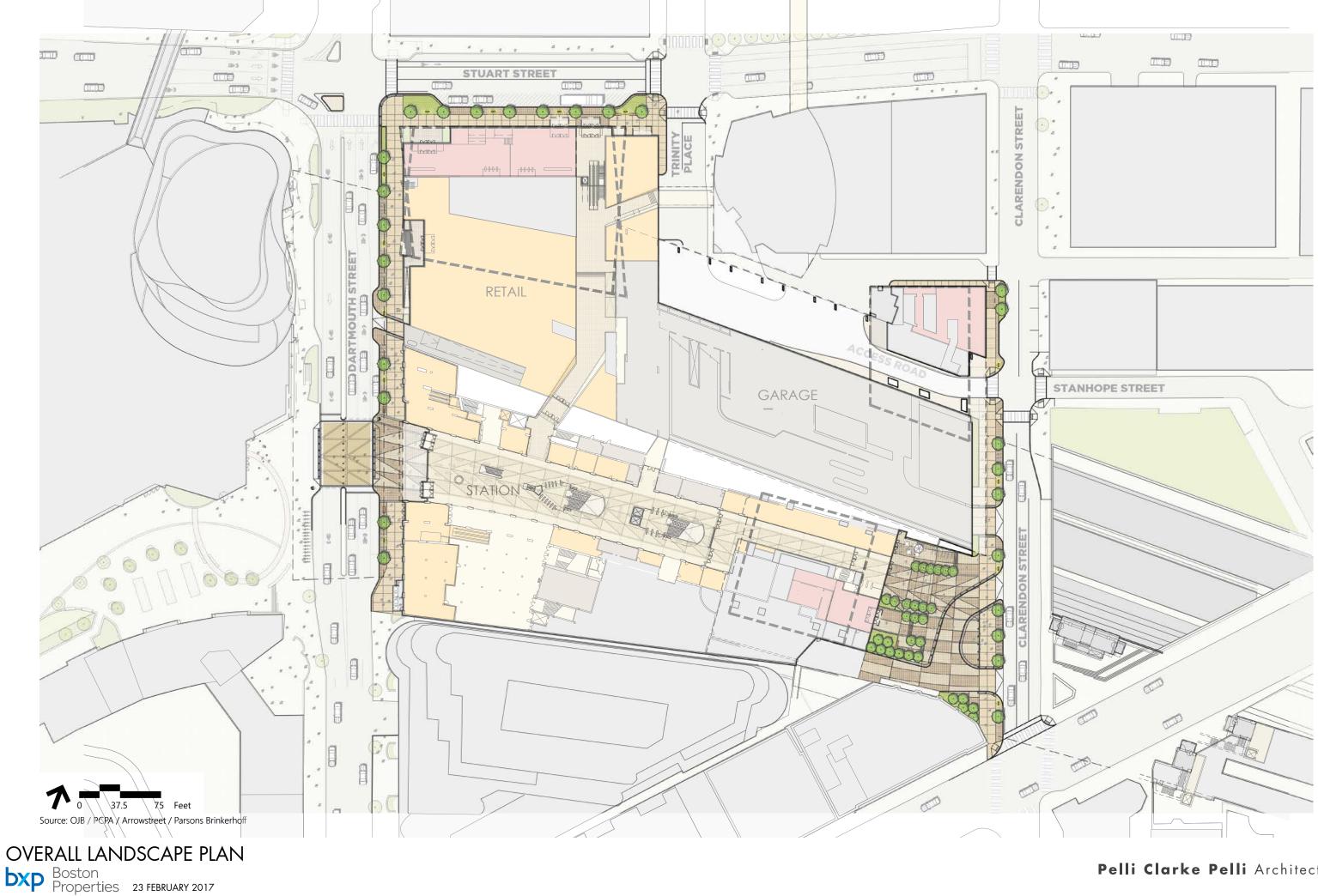


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VIEW FROM SOUTHWEST CORRIDOR - EXISTING CONDITIONS Boston Properties 23 FEBRUARY 2017

### SECOND FLOOR EXTENSION ABANDONED

VIEW FROM SOUTHWEST CORRIDOR - ABANDONED SCHEME Boston Properties 23 FEBRUARY 2017





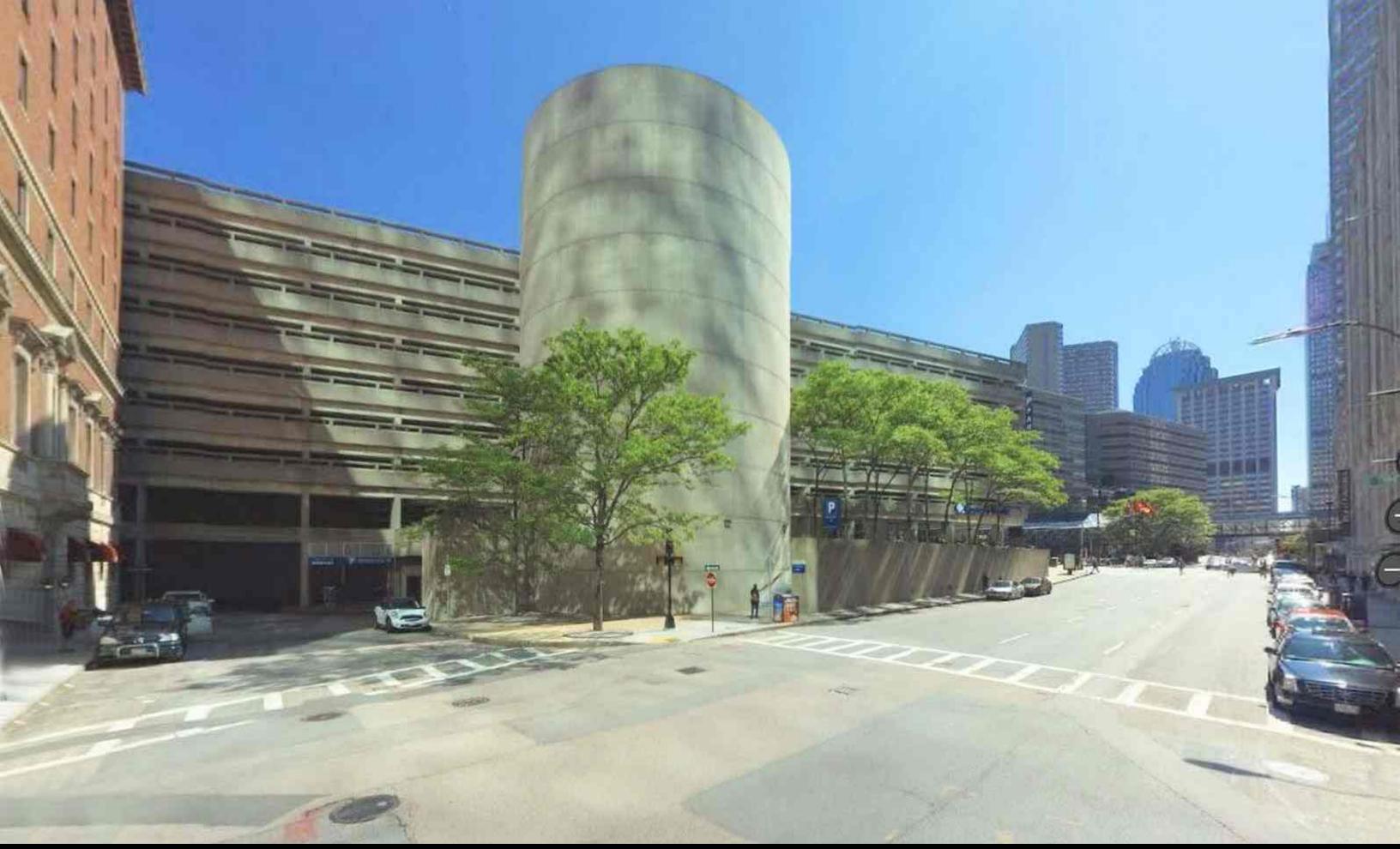
VIEW FROM SOUTHWEST CORRIDOR - BASE SCHEME Boston Properties 23 FEBRUARY 2017



VIEW FROM SOUTHWEST CORRIDOR - ALTERNATE SCHEME Boston Properties 23 FEBRUARY 2017



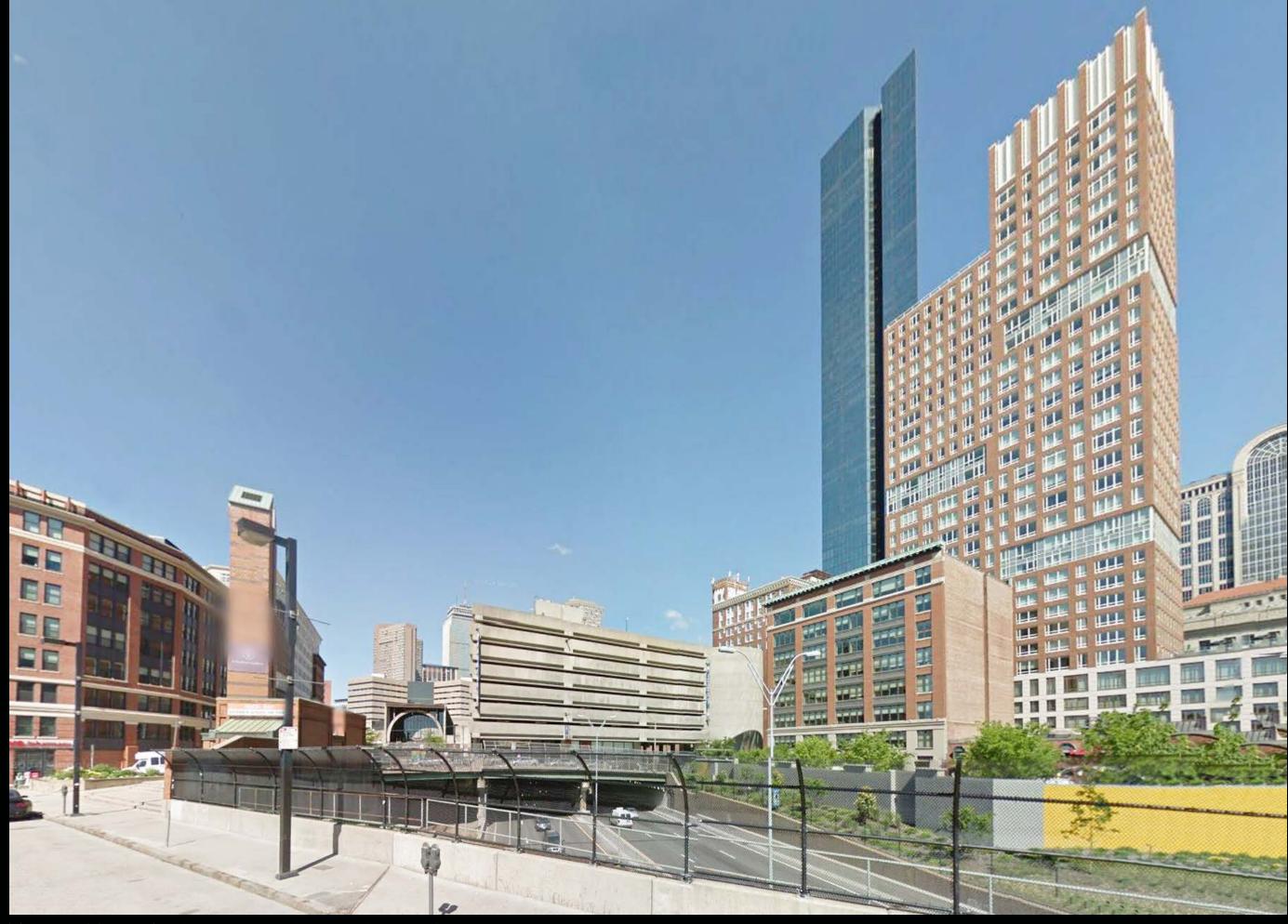




VIEW FROM STUART STREET AND TRINITY PLACE - EXISTING CONDITION Boston Properties 23 FEBRUARY 2017



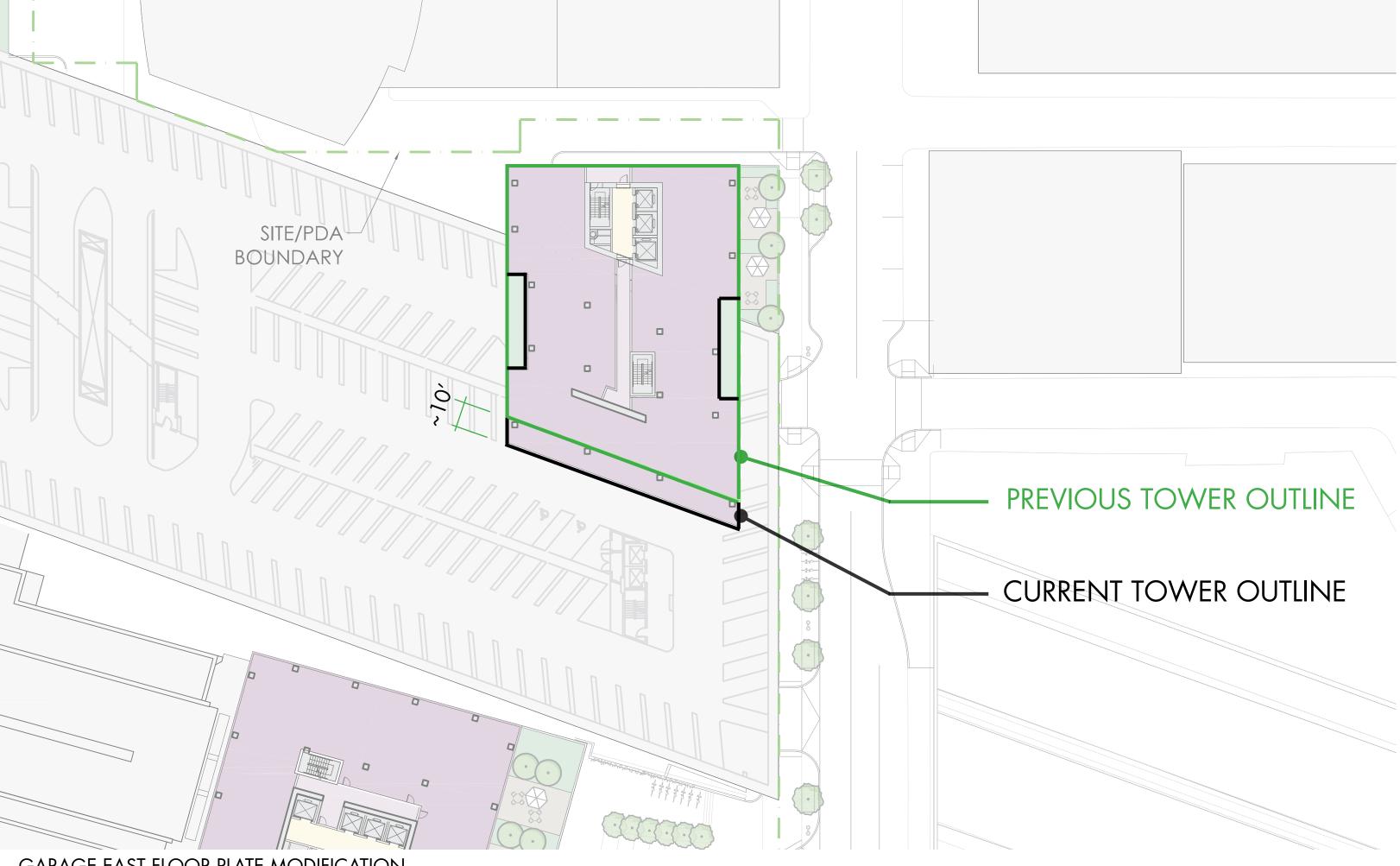
# NEW STATION ENTRANCE



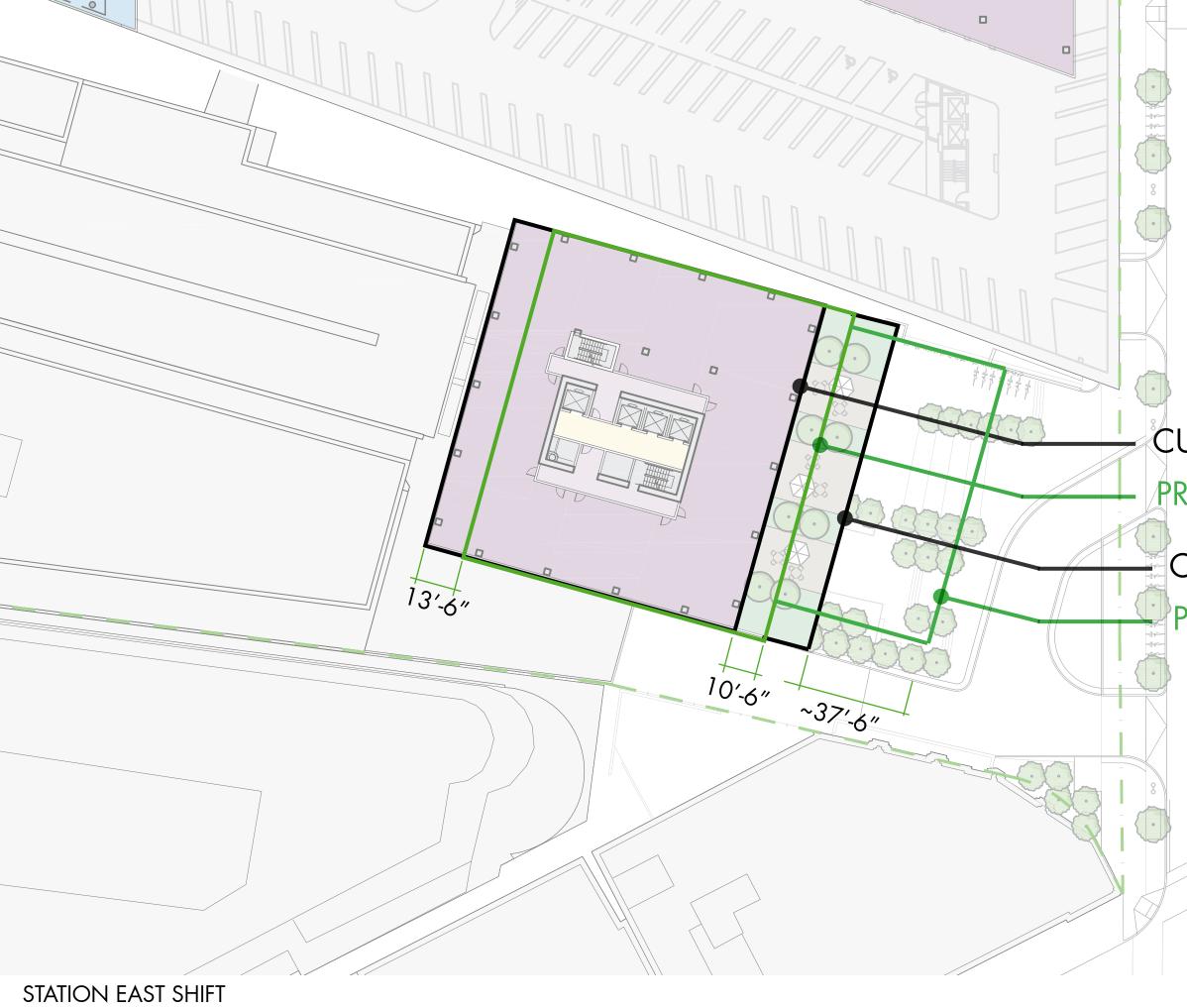
VIEW FROM COLUMBUS AVENUE - EXISTING CONDITION Boston Properties 23 FEBRUARY 2017



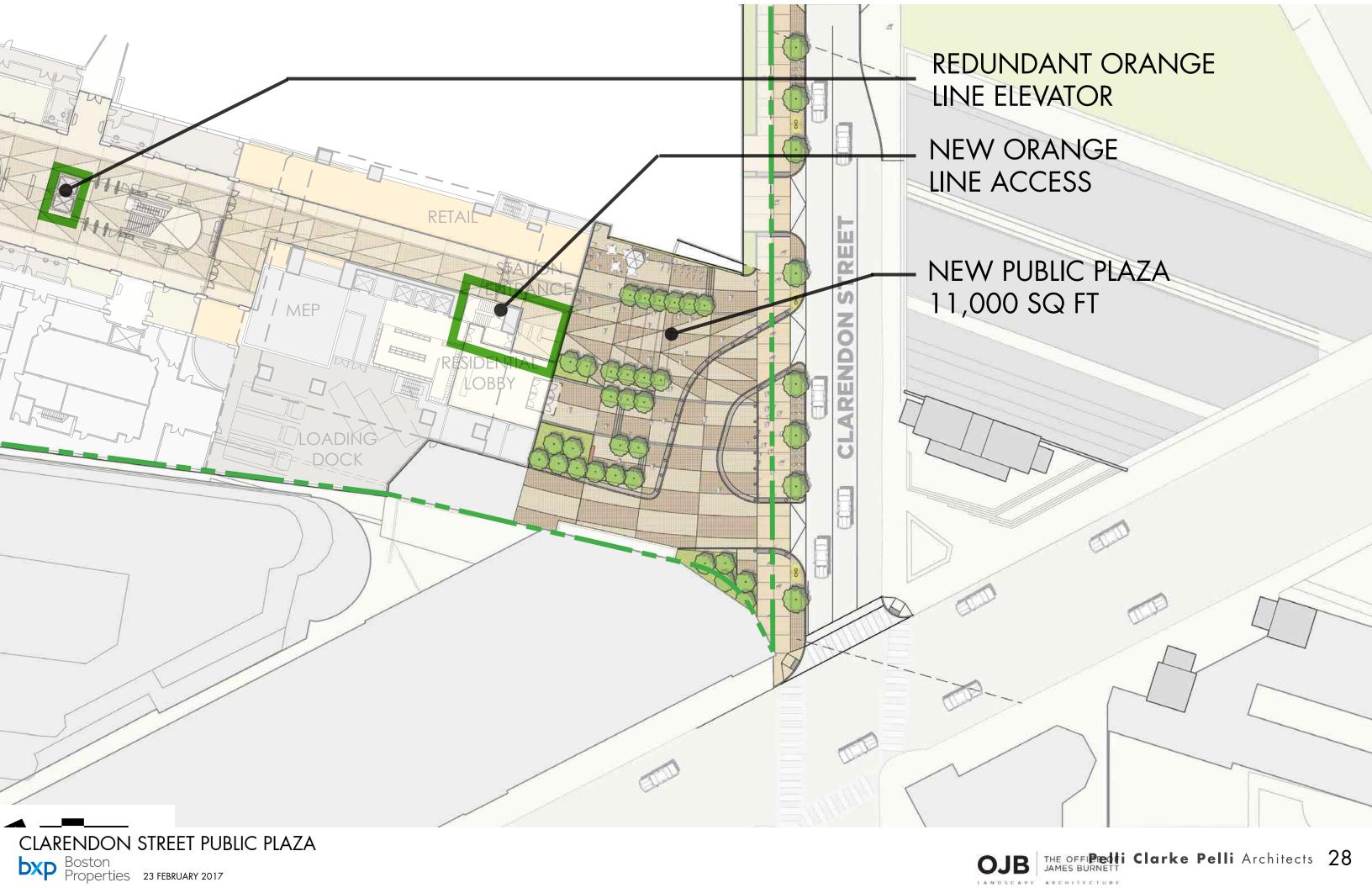
VIEW FROM COLUMBUS AVENUE - PROJECT RENDERING Boston Properties 23 FEBRUARY 2017

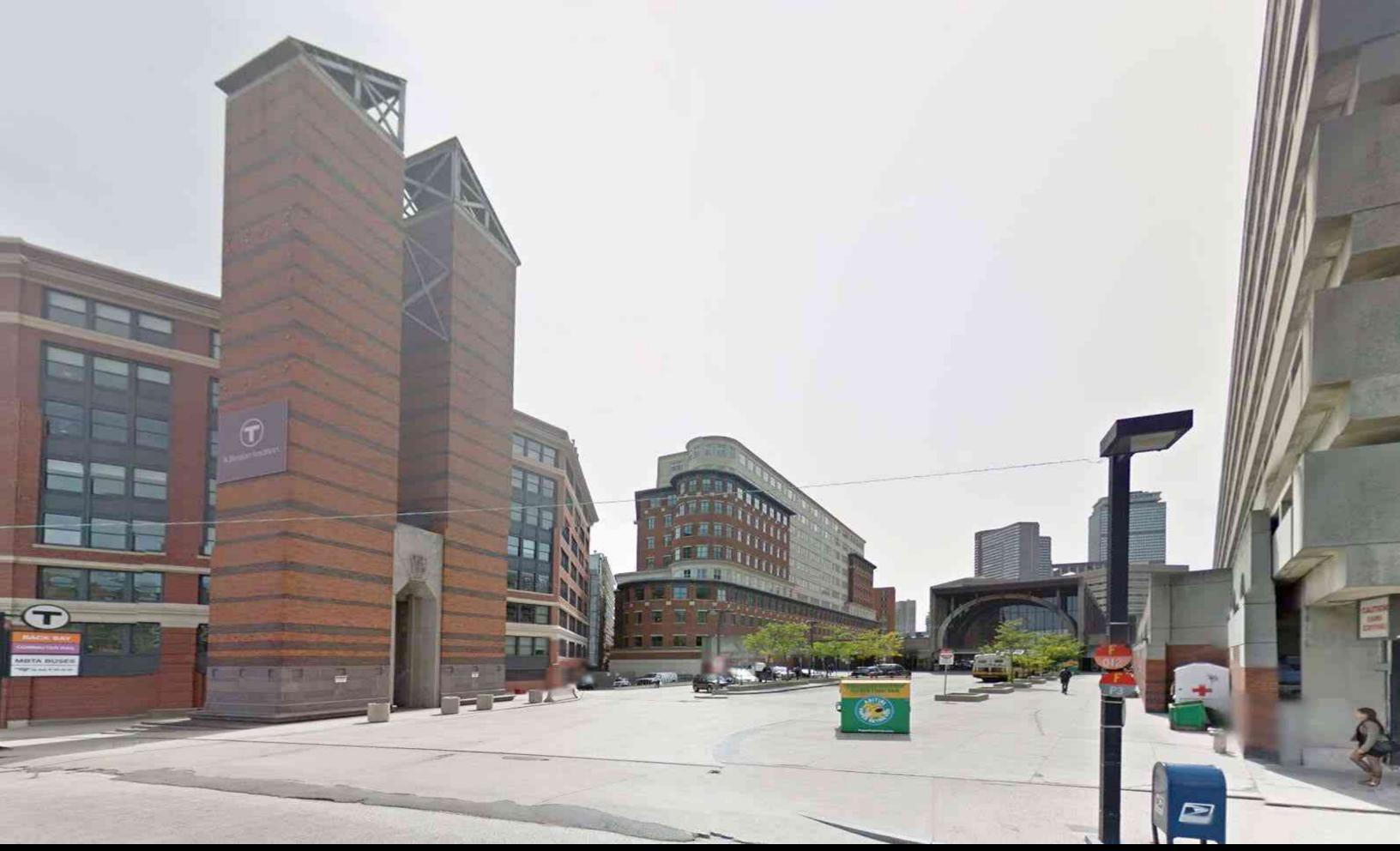


GARAGE EAST FLOOR PLATE MODIFICATION bxp Boston Properties 23 FEBRUARY 2017



bxp Boston Properties 23 FEBRUARY 2017 CURRENT TOWER OUTLINE PREVIOUS TOWER OUTLINE CURRENT BASE OUTLINE PREVIOUS BASE OUTLINE Pelli Clarke Pelli Architects 27

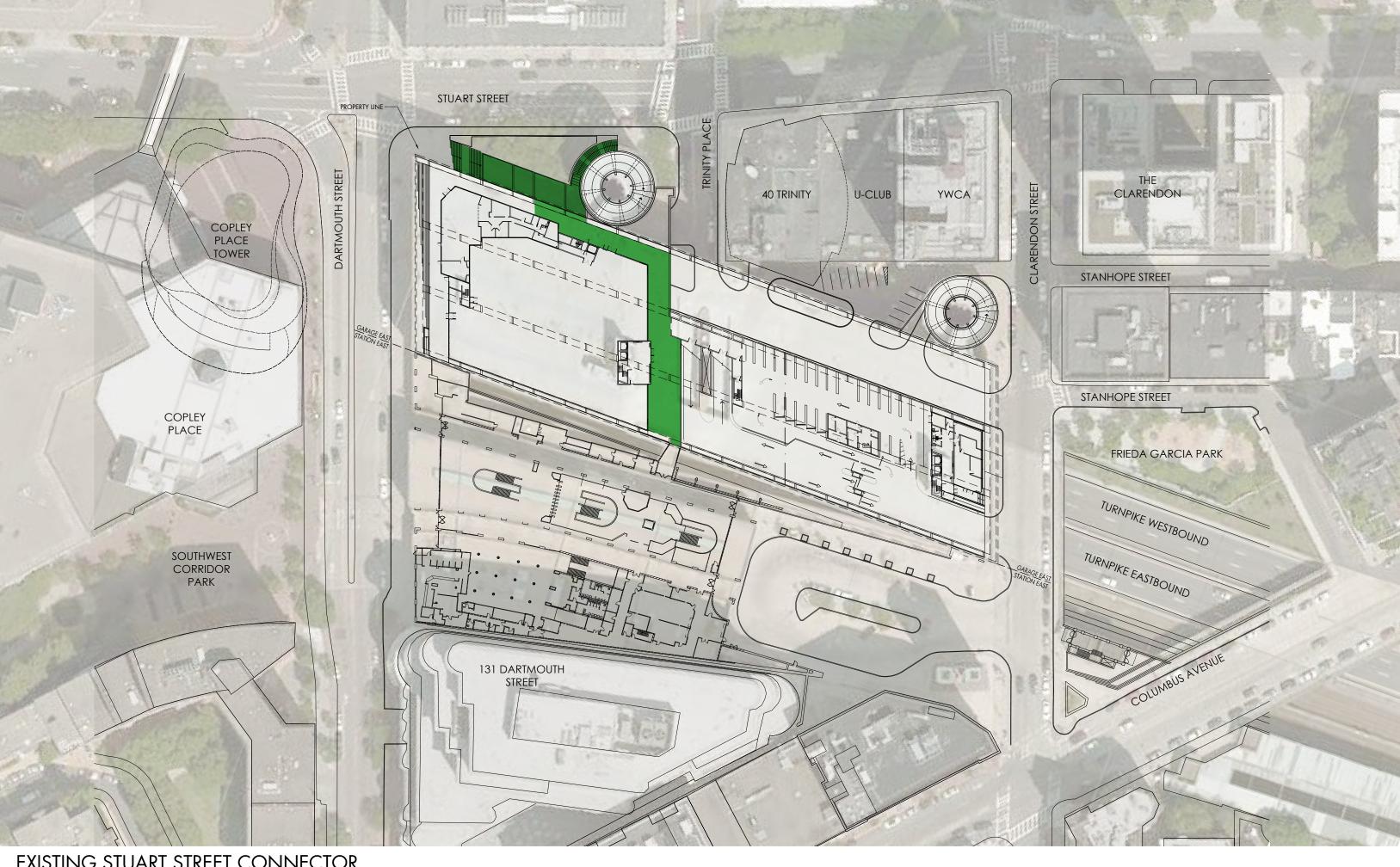




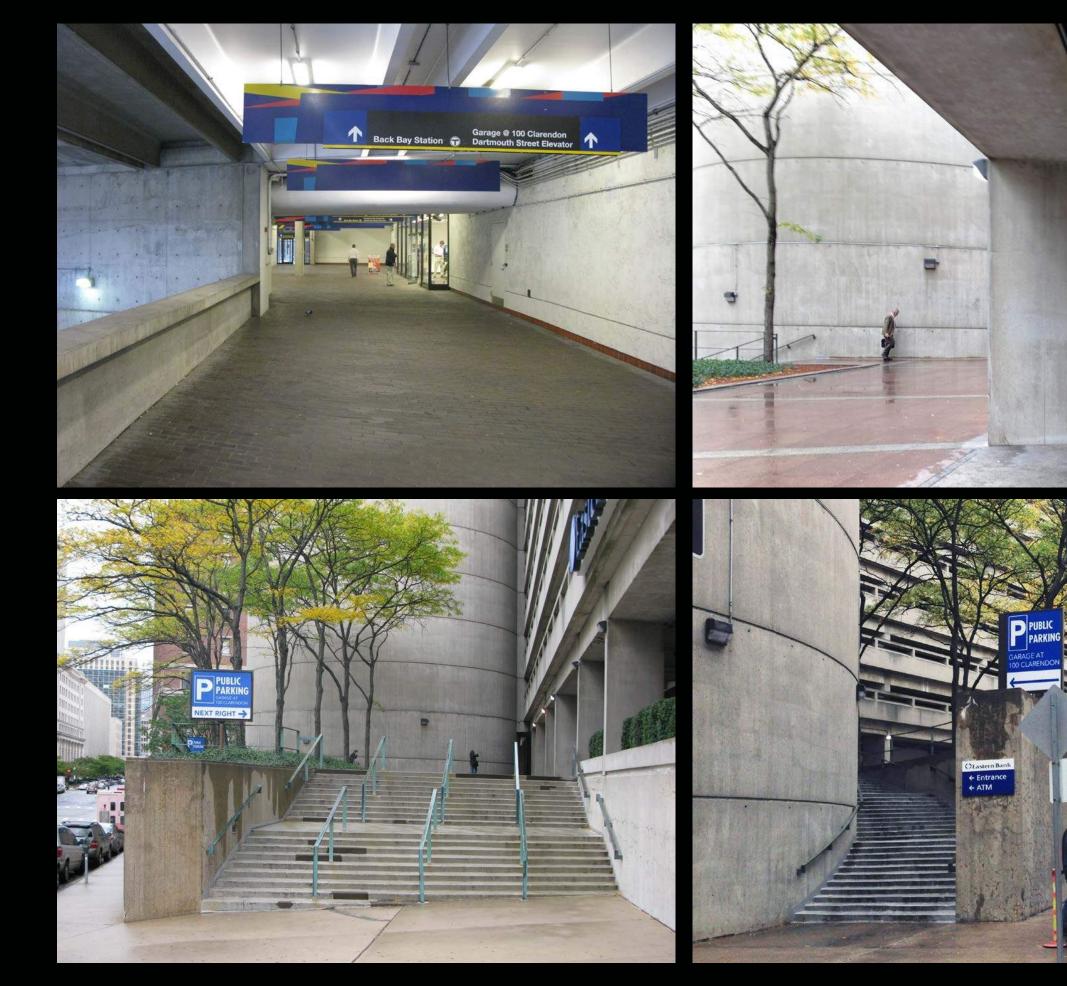
VIEW FROM CLARENDON STREET - EXISTING CONDITION Boston Properties 23 FEBRUARY 2017



VIEW FROM CLARENDON STREET - PROJECT RENDERING Boston Properties 23 FEBRUARY 2017

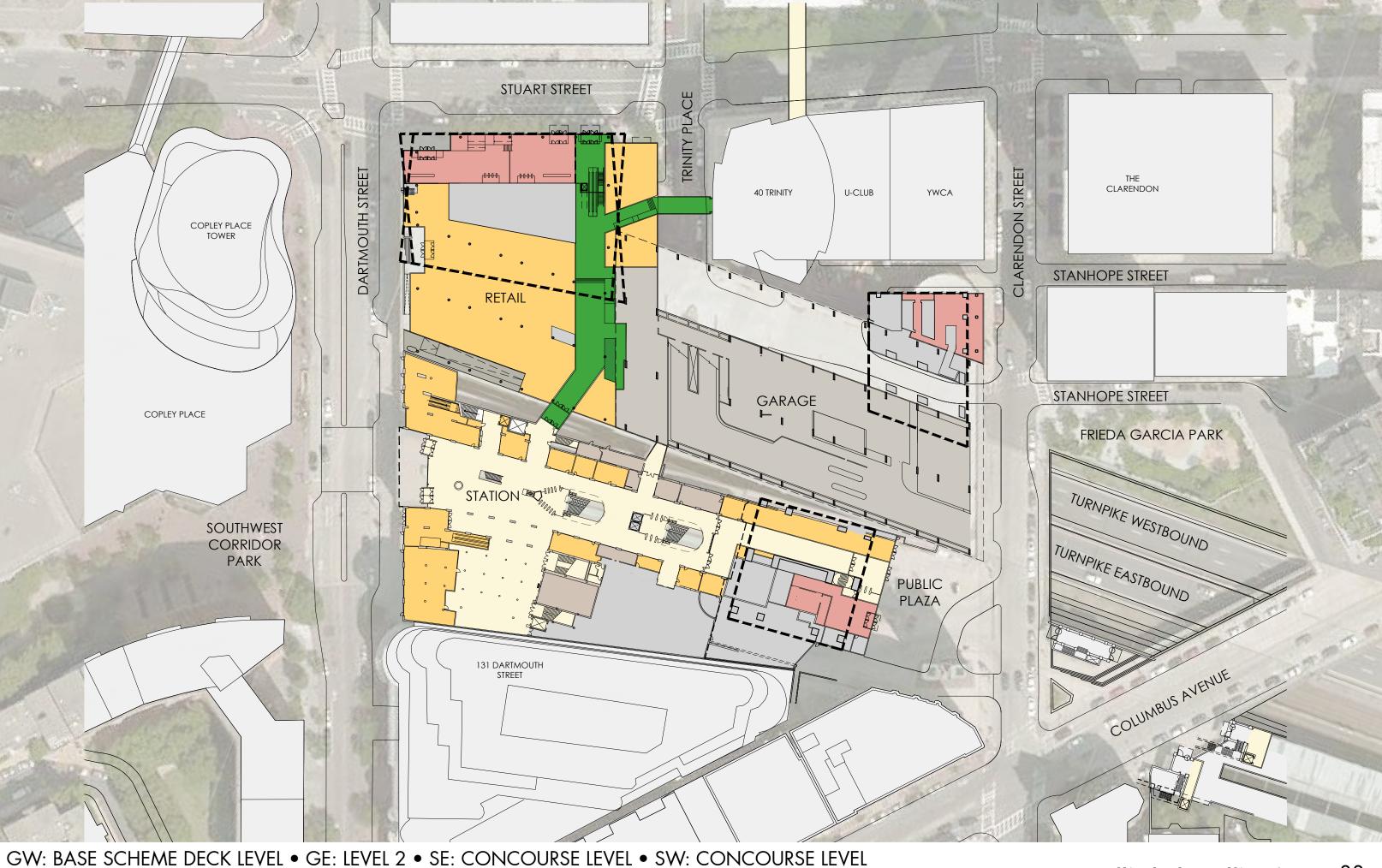


EXISTING STUART STREET CONNECTOR Boston Properties 23 FEBRUARY 2017



EXISTING STUART STREET CONNECTOR - VIEWS Boston Properties 23 FEBRUARY 2017

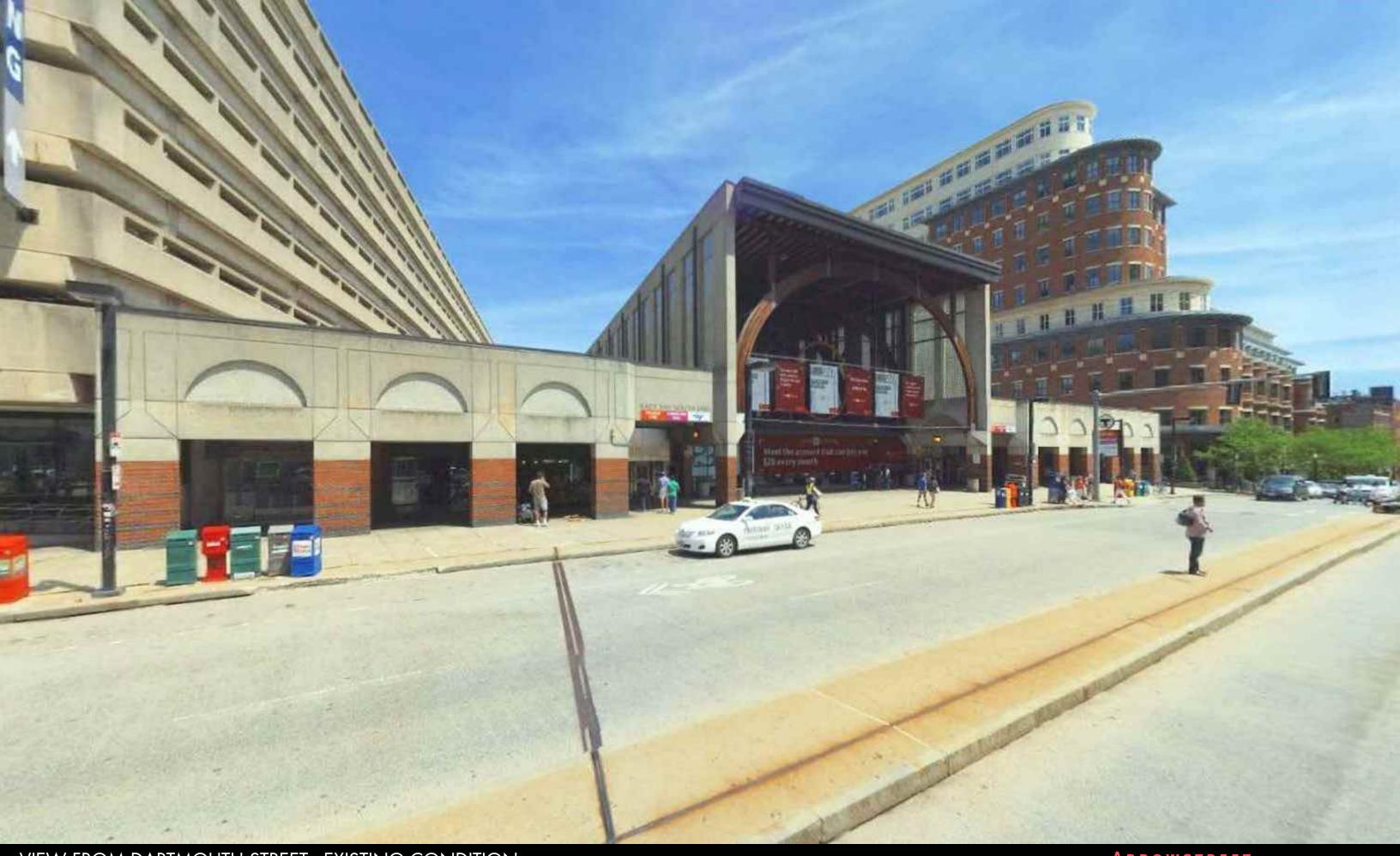




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VIEW OF STUART STREET CONNECTOR - PROJECT RENDERING Boston Properties 23 FEBRUARY 2017

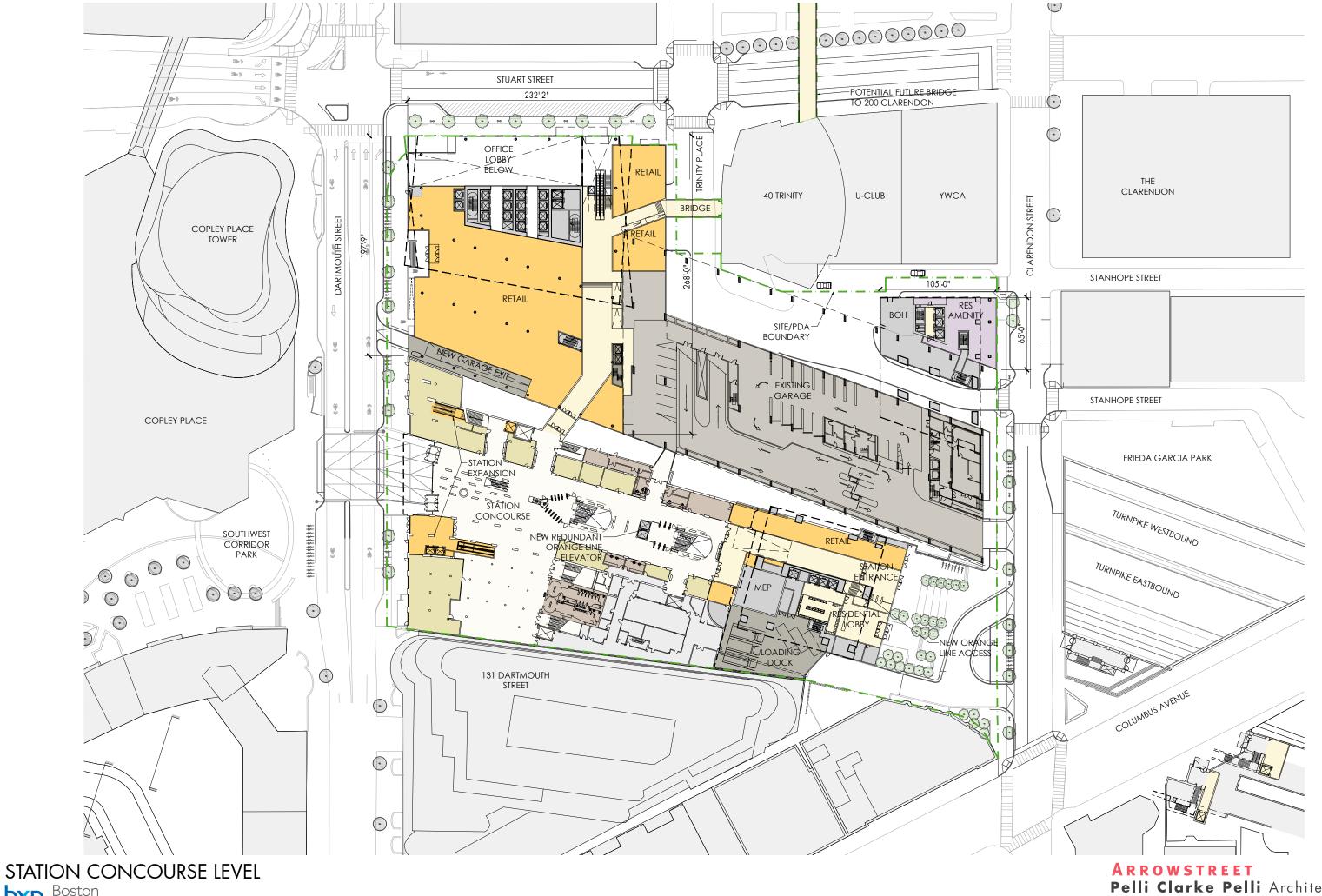


VIEW FROM DARTMOUTH STREET - EXISTING CONDITION Boston Properties 23 FEBRUARY 2017

### ARROWSTREET Pelli Clarke Pelli Architects 35

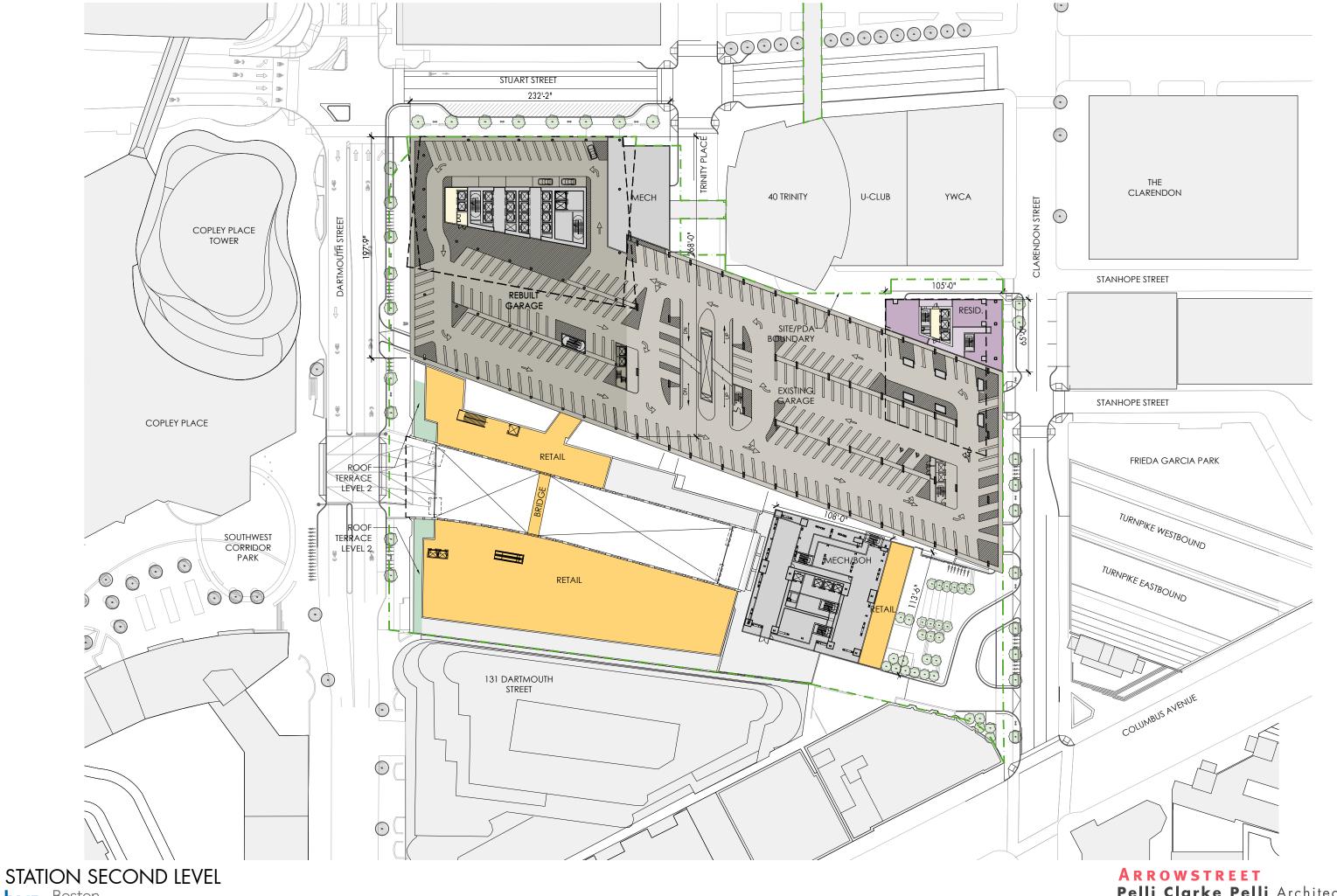


ARROWSTREET Pelli Clarke Pelli Architects 36



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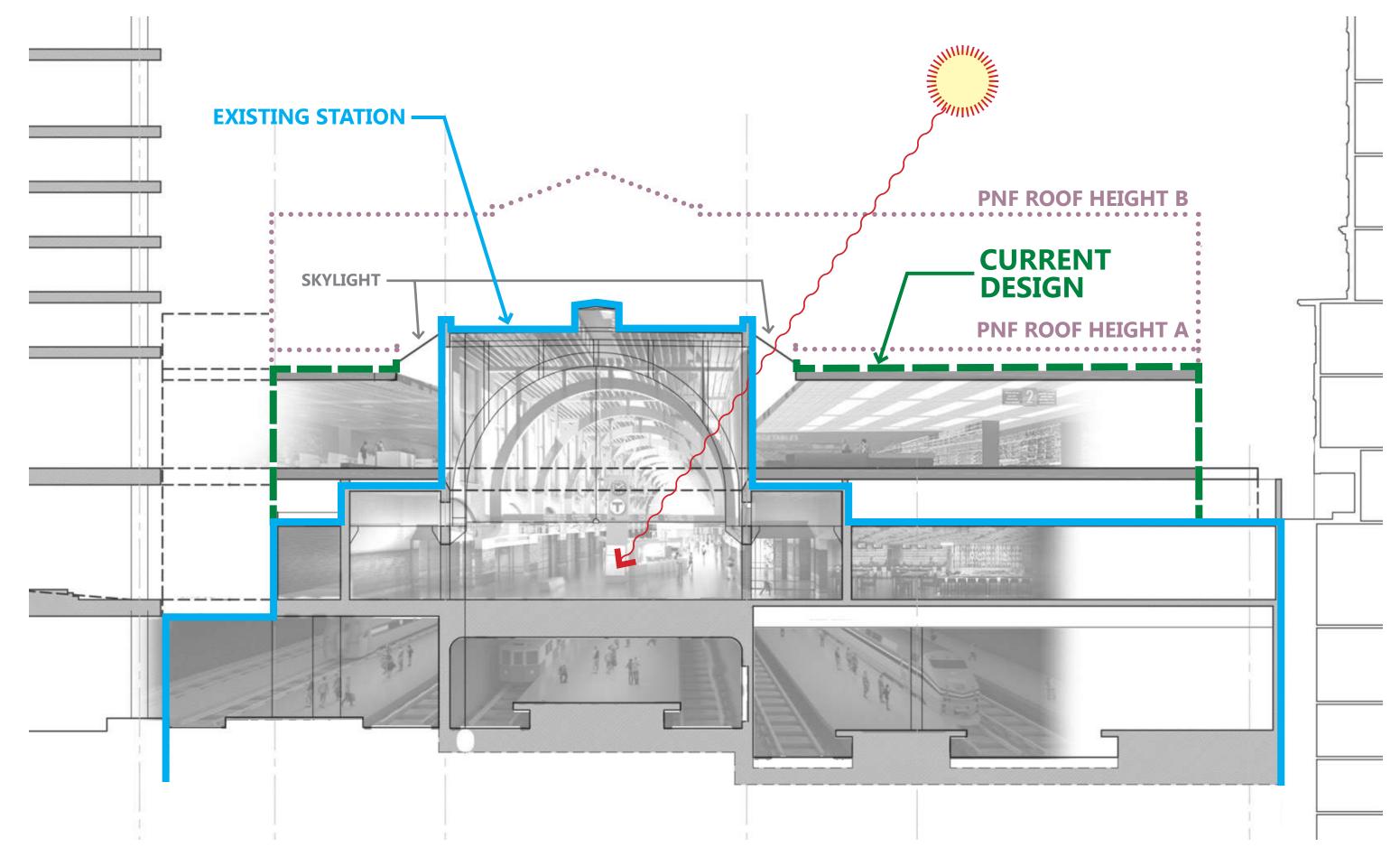
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DPIR SECTION COMPARISON by Boston Properties 23 FEBRUARY 2017

ARROWSTREET 40

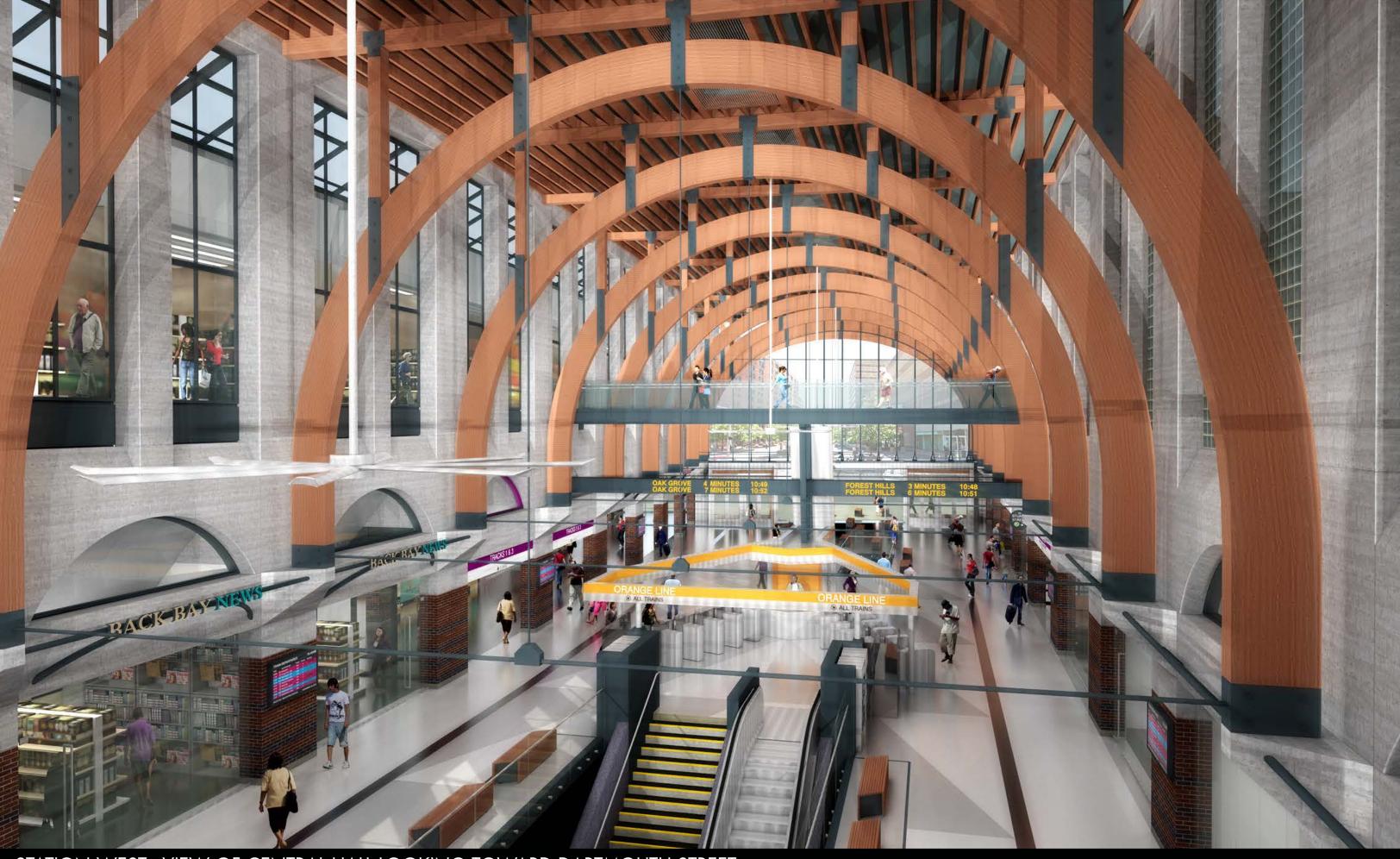


STATION WEST - VIEW OF POTENTIAL PEDESTRIAN BRIDGE Boston Properties 23 FEBRUARY 2017



STATION WEST - VIEW TOWARD NEW CLARENDON STREET ENTRY Boston Properties 23 FEBRUARY 2017

Arrowstreet 42

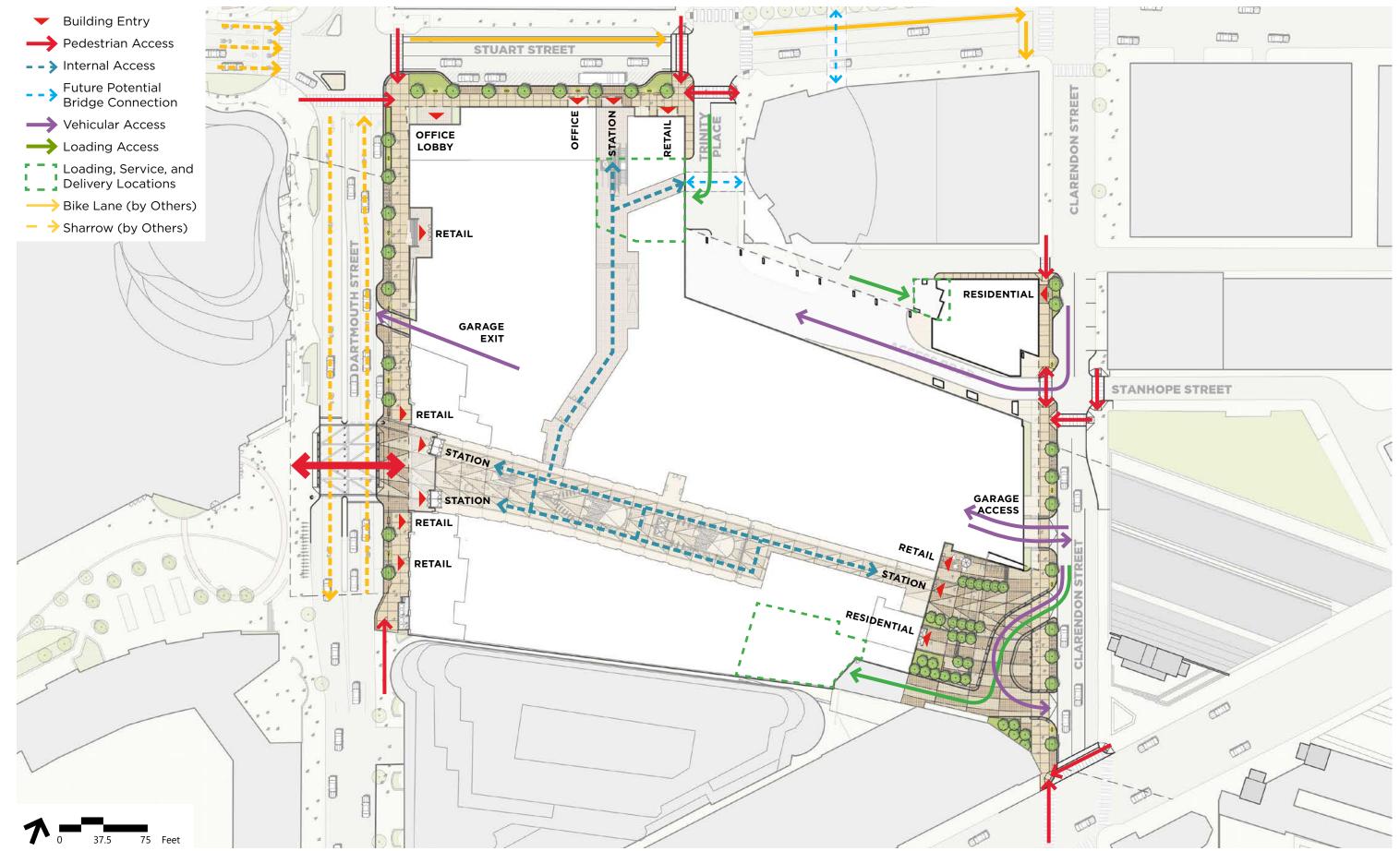


STATION WEST - VIEW OF CENTRAL HALL LOOKING TOWARD DARTMOUTH STREET Boston Properties 23 FEBRUARY 2017

### Arrowstreet 43

# PUBLIC REALM IMPROVEMENTS

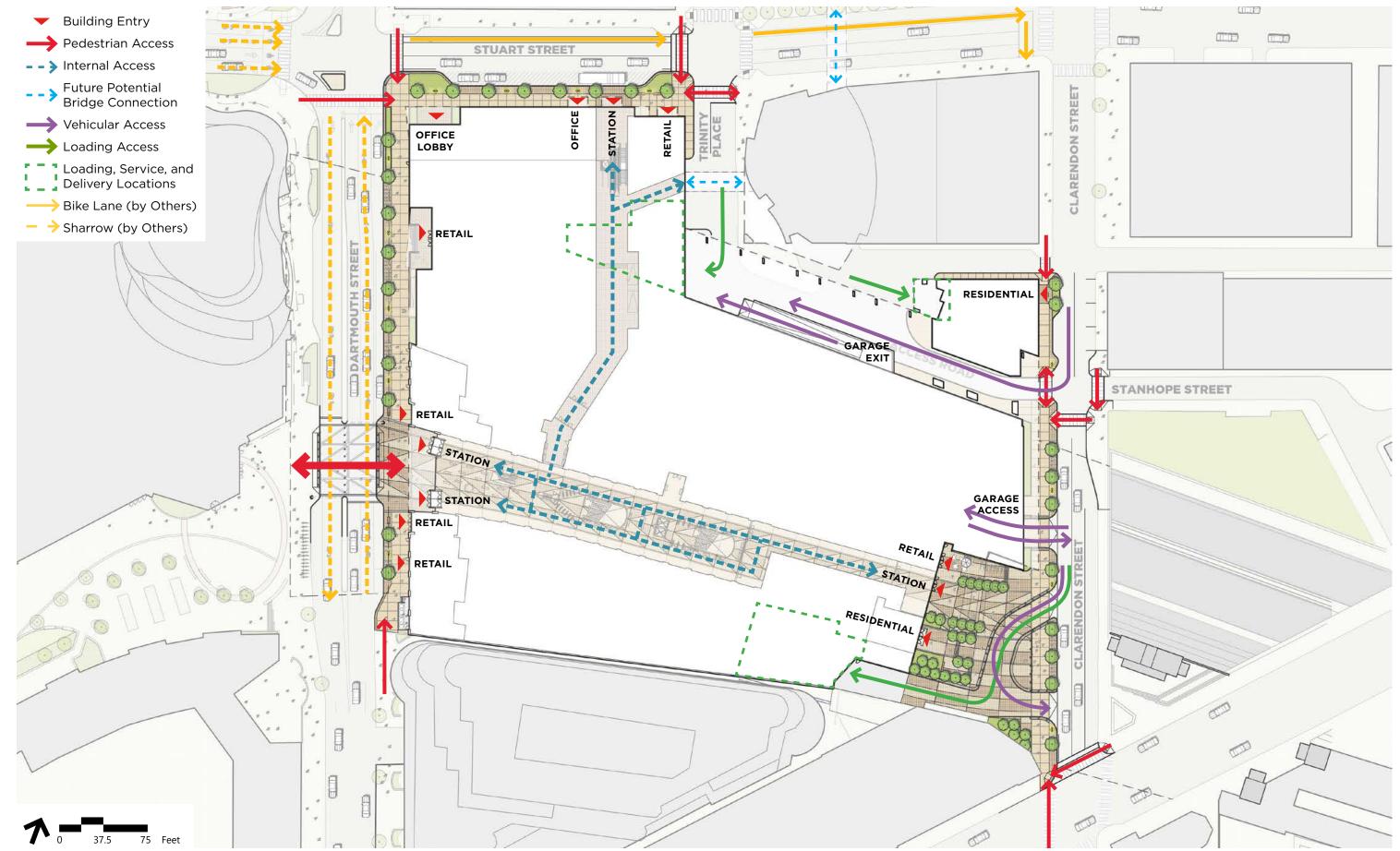




Source: OJB / PCPA / Arrowstreet / Parsons Brinkerhoff

### CIRCULATION AND ACCESS PLAN - BASE SCHEME by Boston Properties 23 FEBRUARY 2017

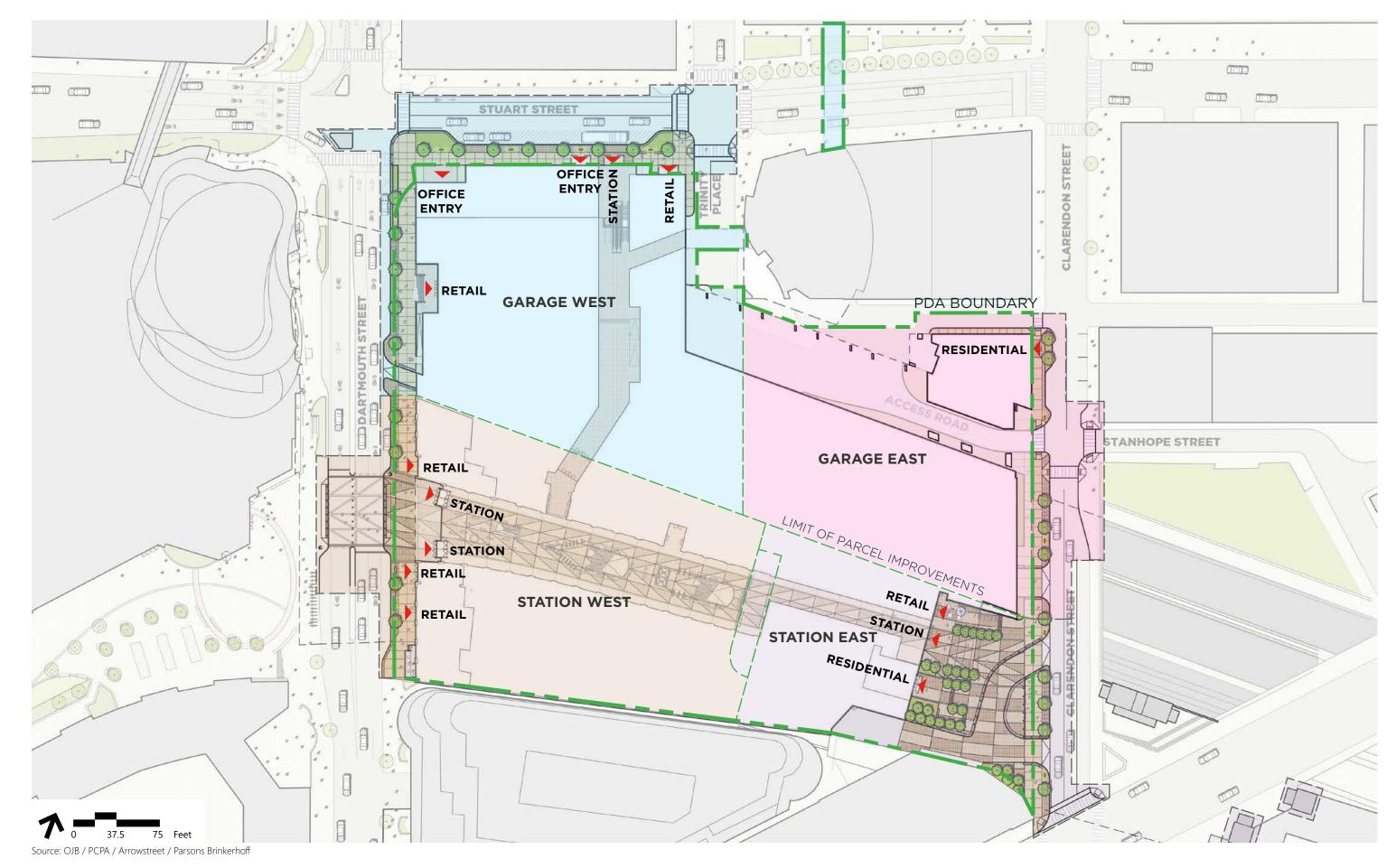




Source: OJB / PCPA / Arrowstreet / Parsons Brinkerhoff

CIRCULATION AND ACCESS PLAN - ALTERNATE SCHEME bxp Boston Properties 23 FEBRUARY 2017



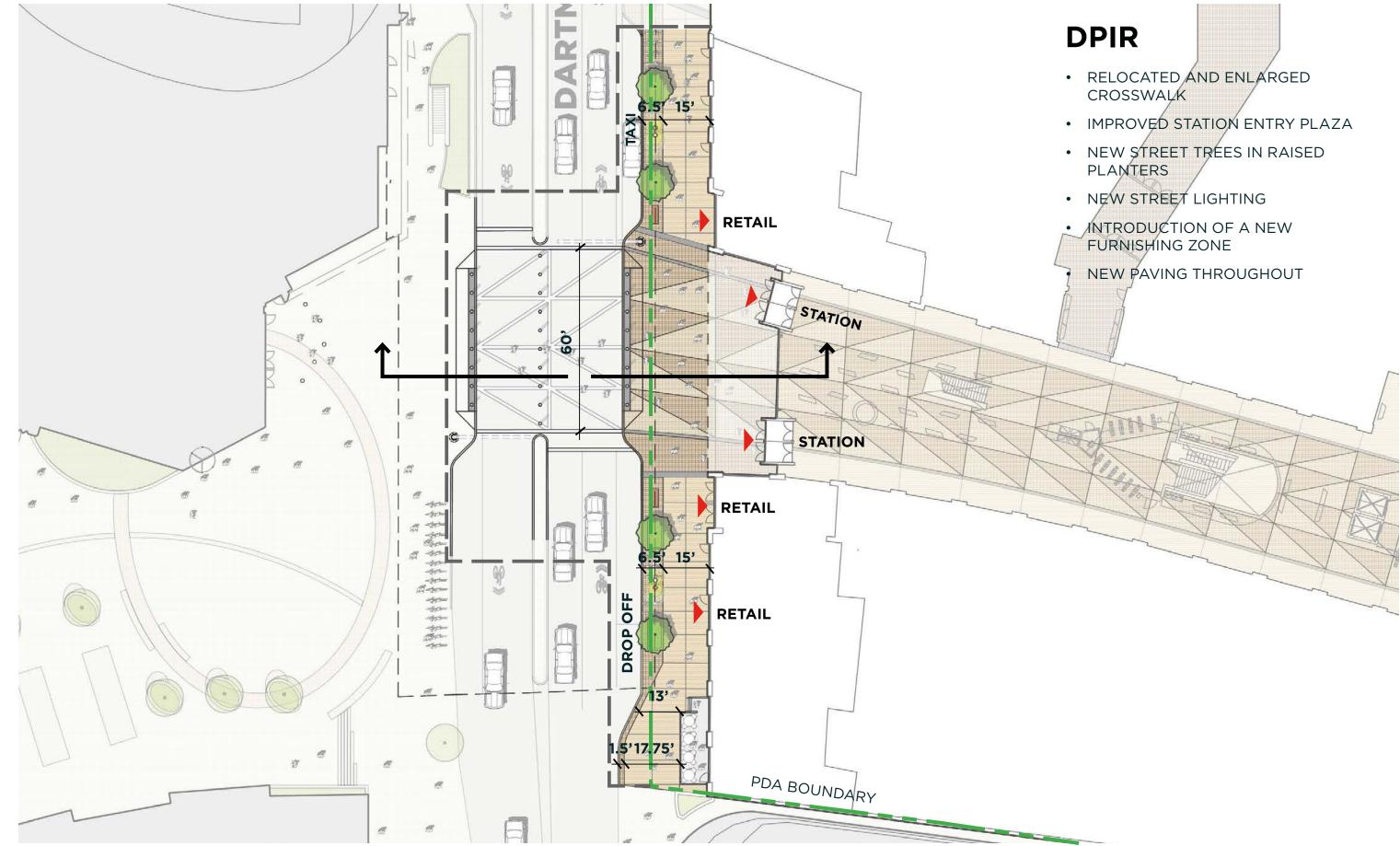


OVERALL PUBLIC REALM IMPROVEMENTS by Boston Properties 23 FEBRUARY 2017

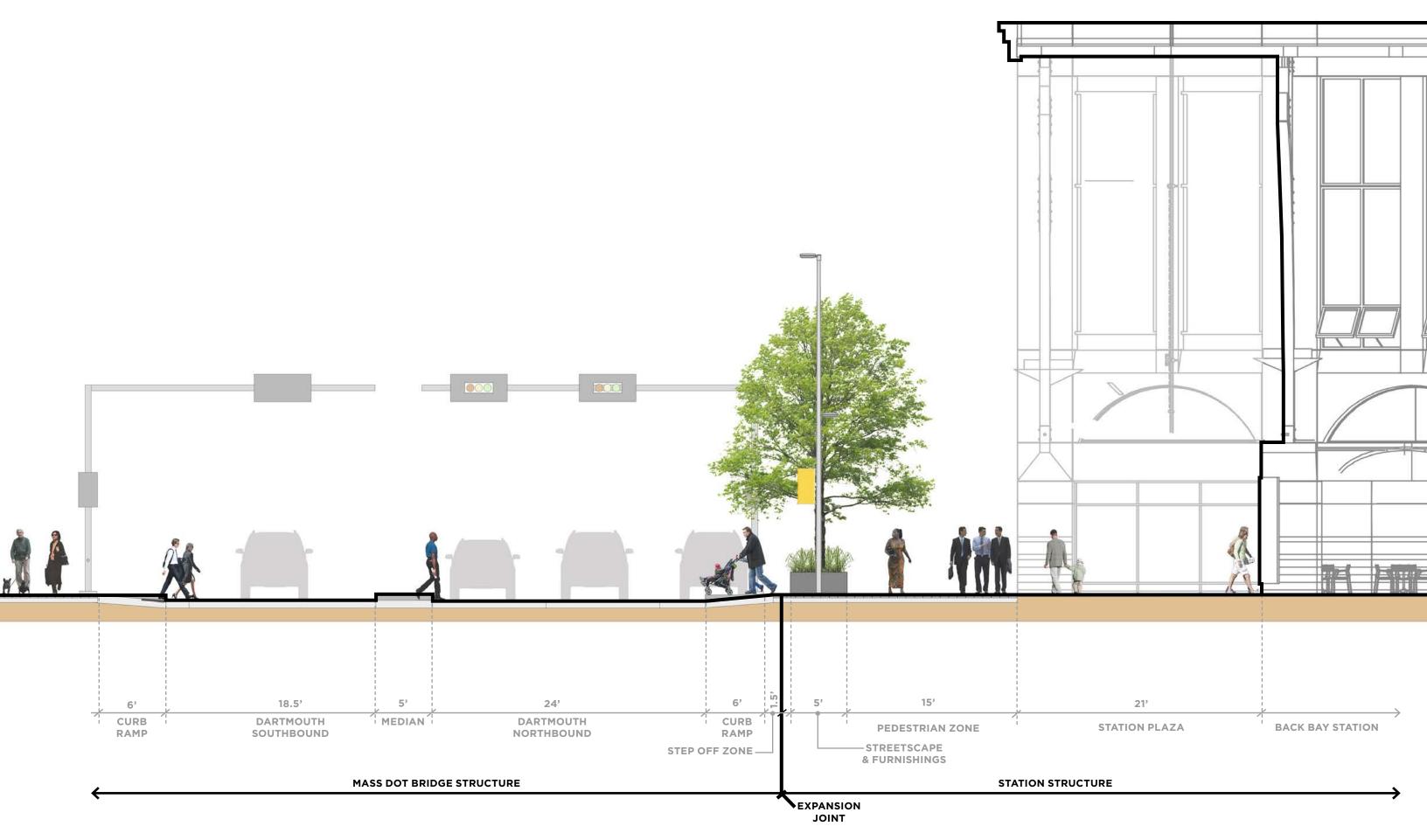




PUBLIC REALM IMPROVEMENTS PLAN - STATION WEST - PNF bxp Boston Properties 23 FEBRUARY 2017

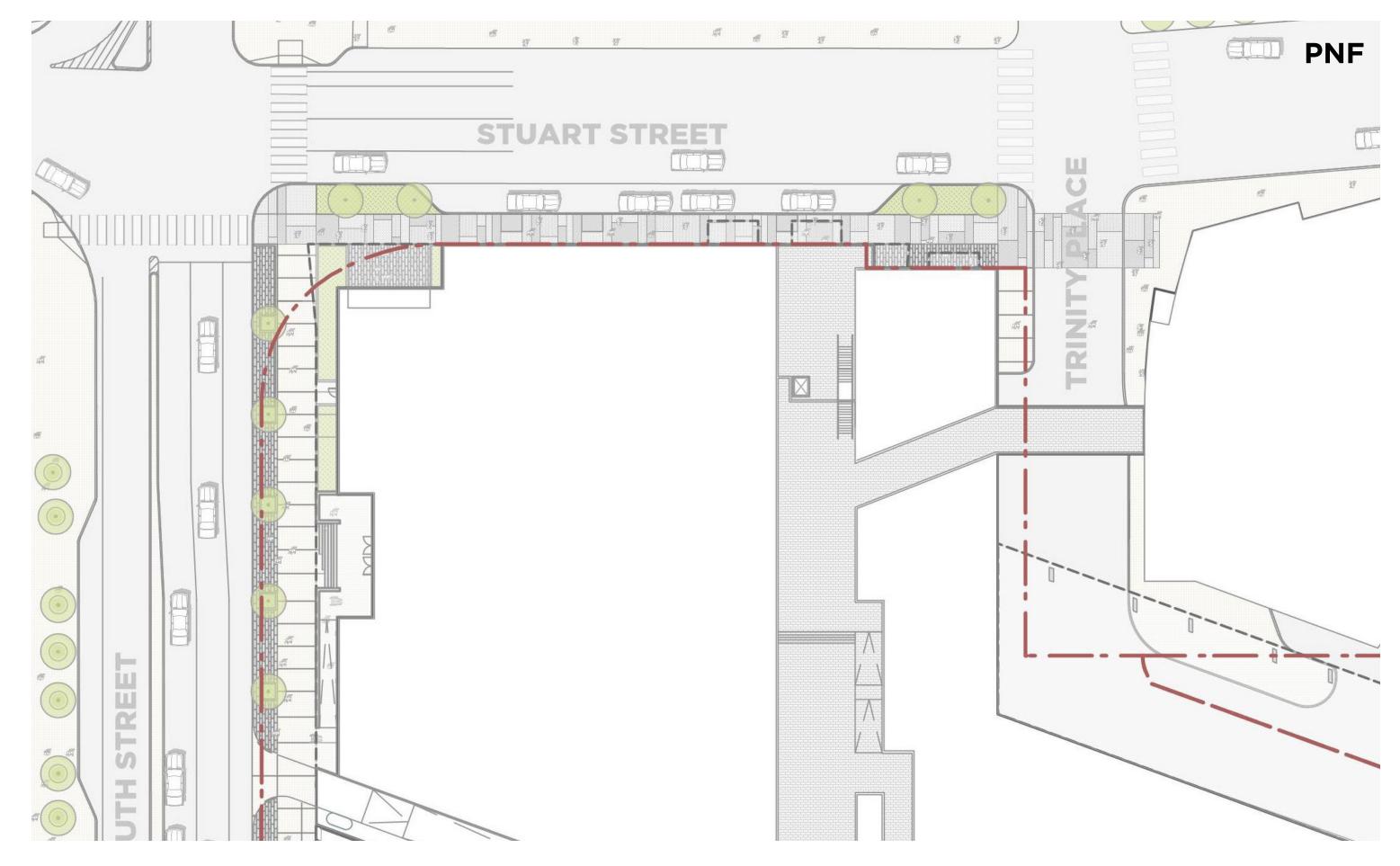


PUBLIC REALM IMPROVEMENTS PLAN - STATION WEST- DPIR bxp Boston Properties 23 FEBRUARY 2017

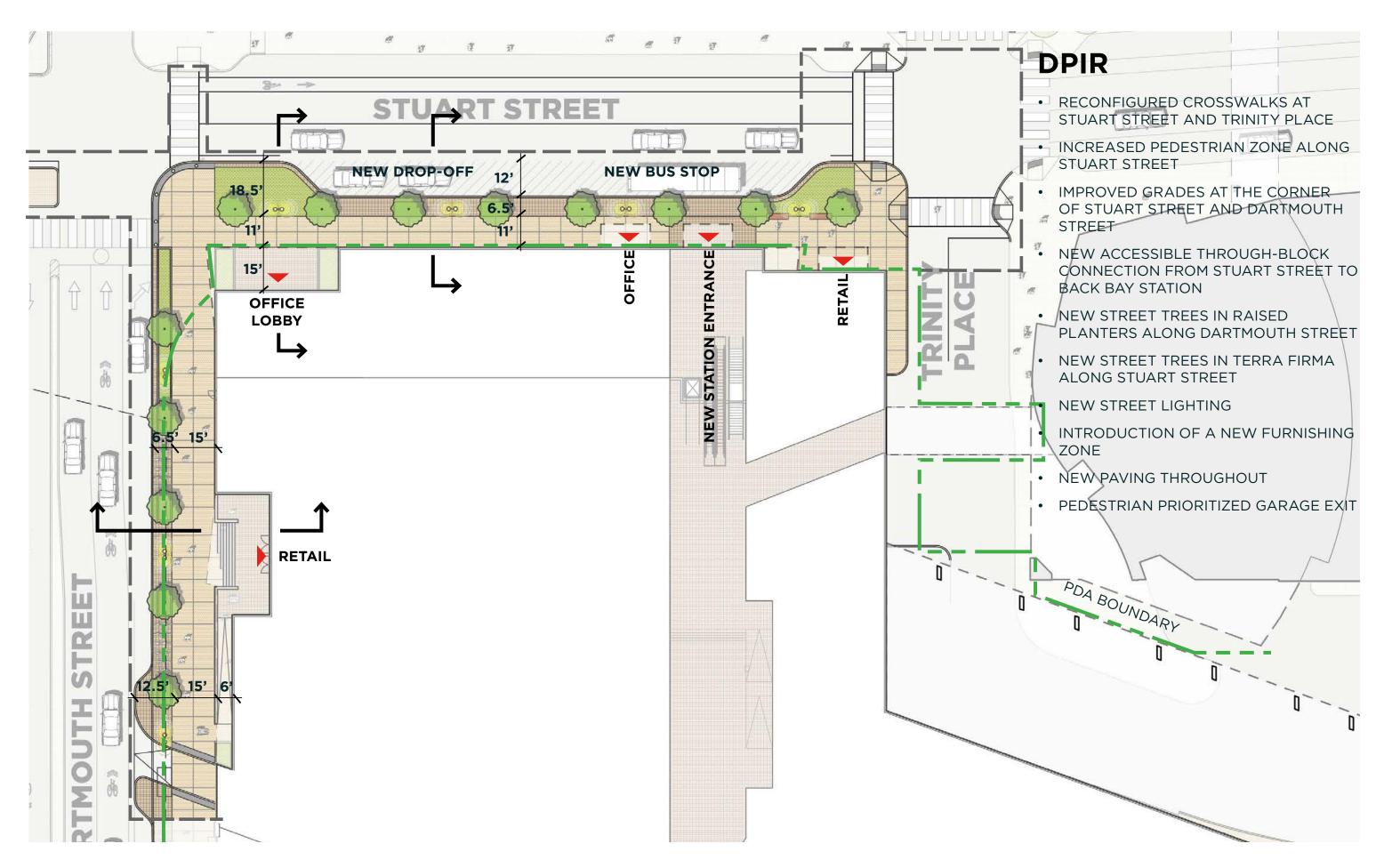


DARTMOUTH STATION PLAZA SECTION

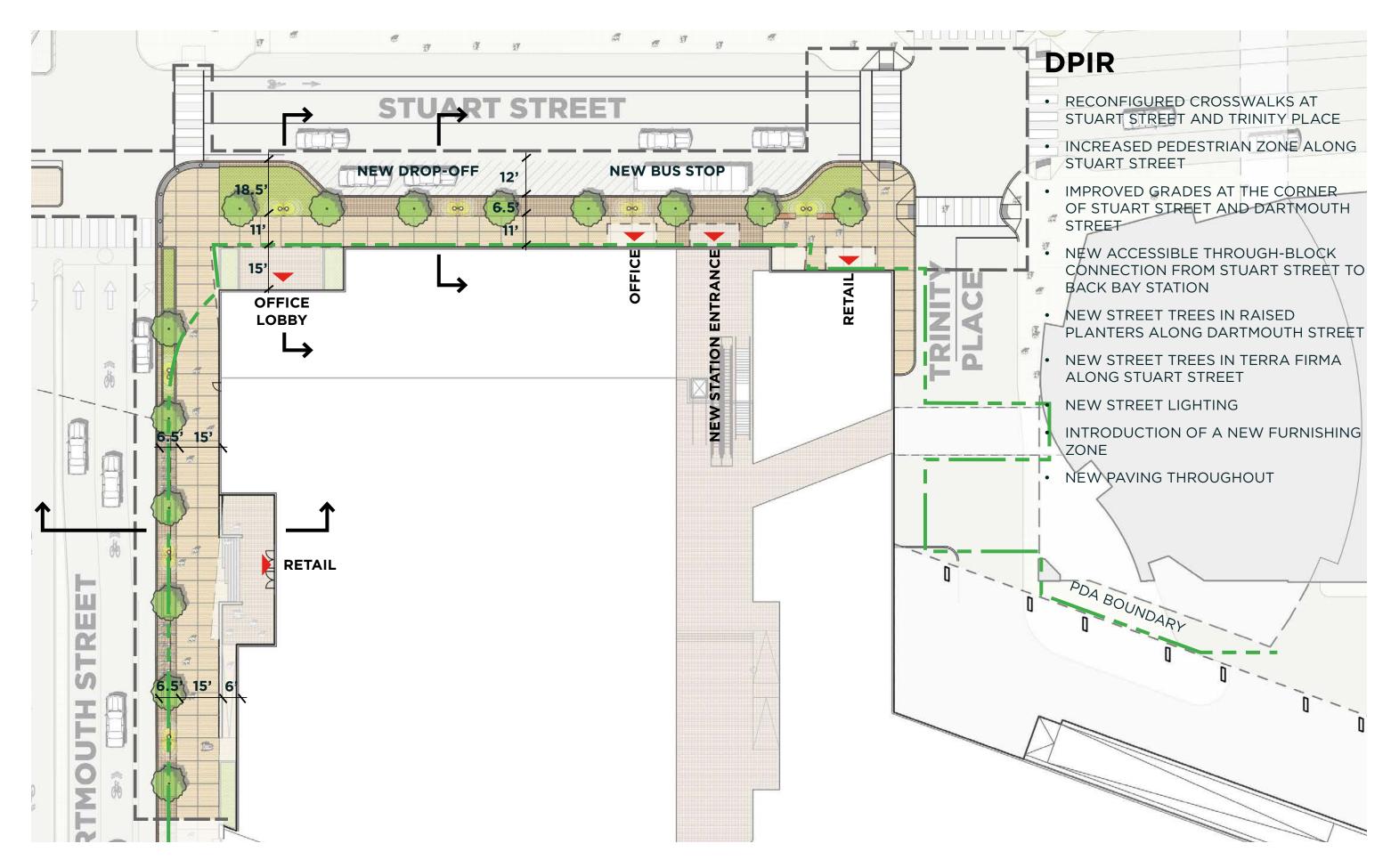




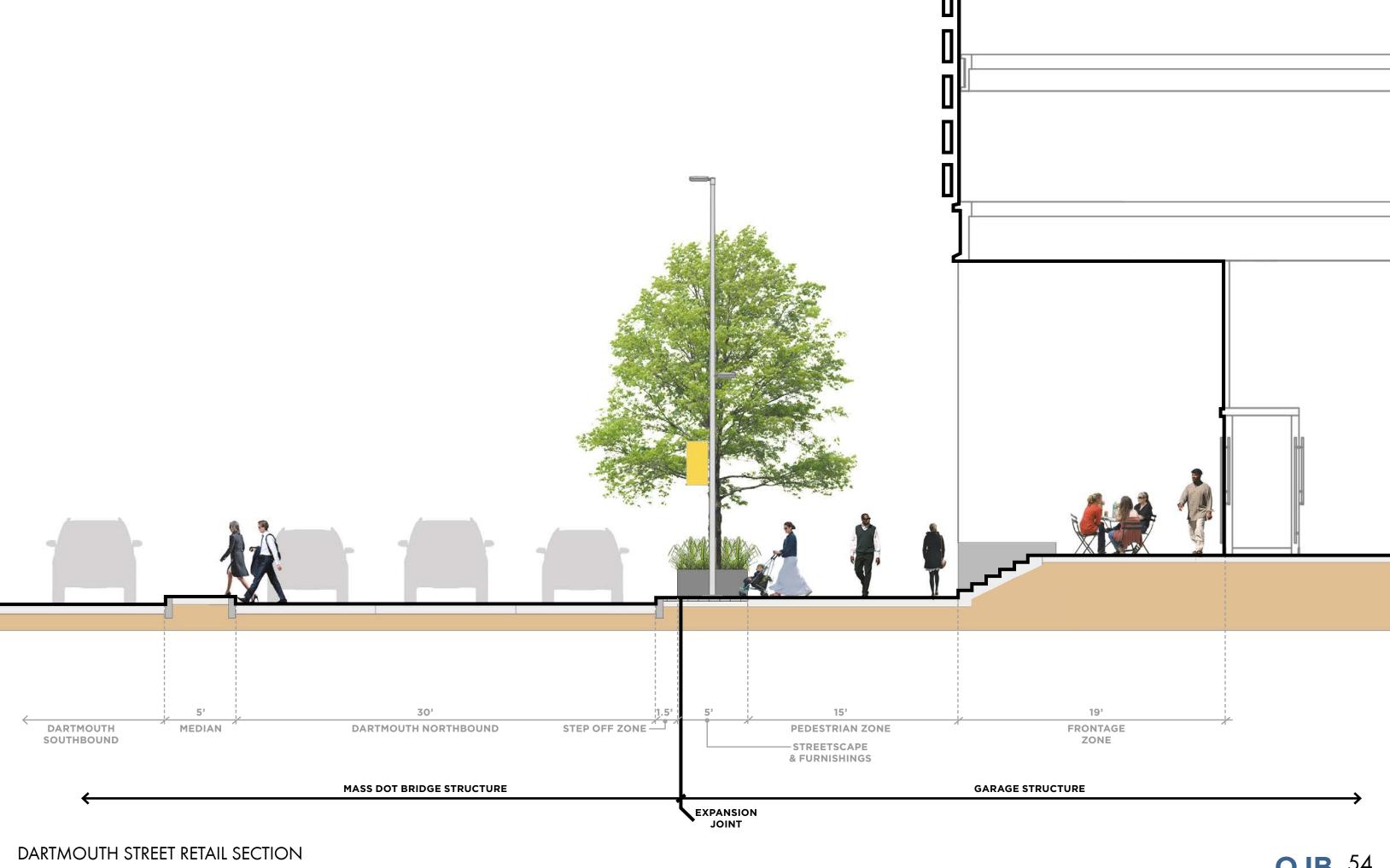
PUBLIC REALM IMPROVEMENTS PLAN - GARAGE WEST BASE SCHEME - PNF Boston Properties 23 FEBRUARY 2017



PUBLIC REALM IMPROVEMENTS PLAN - GARAGE WEST BASE SCHEME - DPIR Boston Properties 23 FEBRUARY 2017



PUBLIC REALM IMPROVEMENTS PLAN - GARAGE WEST ALTERNATE SCHEME - DPIR Boston Properties 23 FEBRUARY 2017



Boston Properties 23 FEBRUARY 2017



STUART STREET SECTION AT OFFICE LOBBY ENTRY bxp Boston Properties 23 FEBRUARY 2017

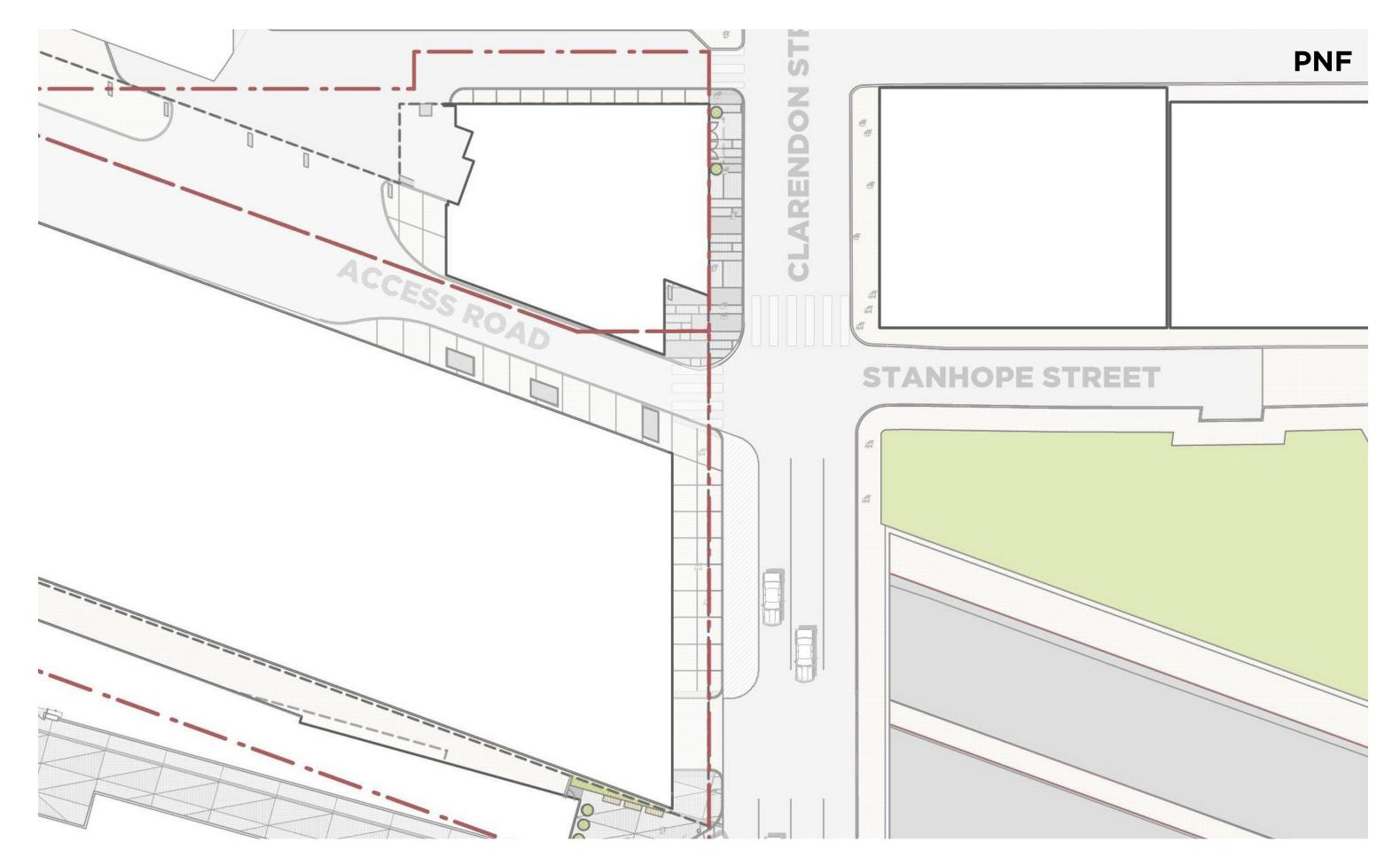


STUART STREET SECTION TYPICAL Boston Properties 23 FEBRUARY 2017

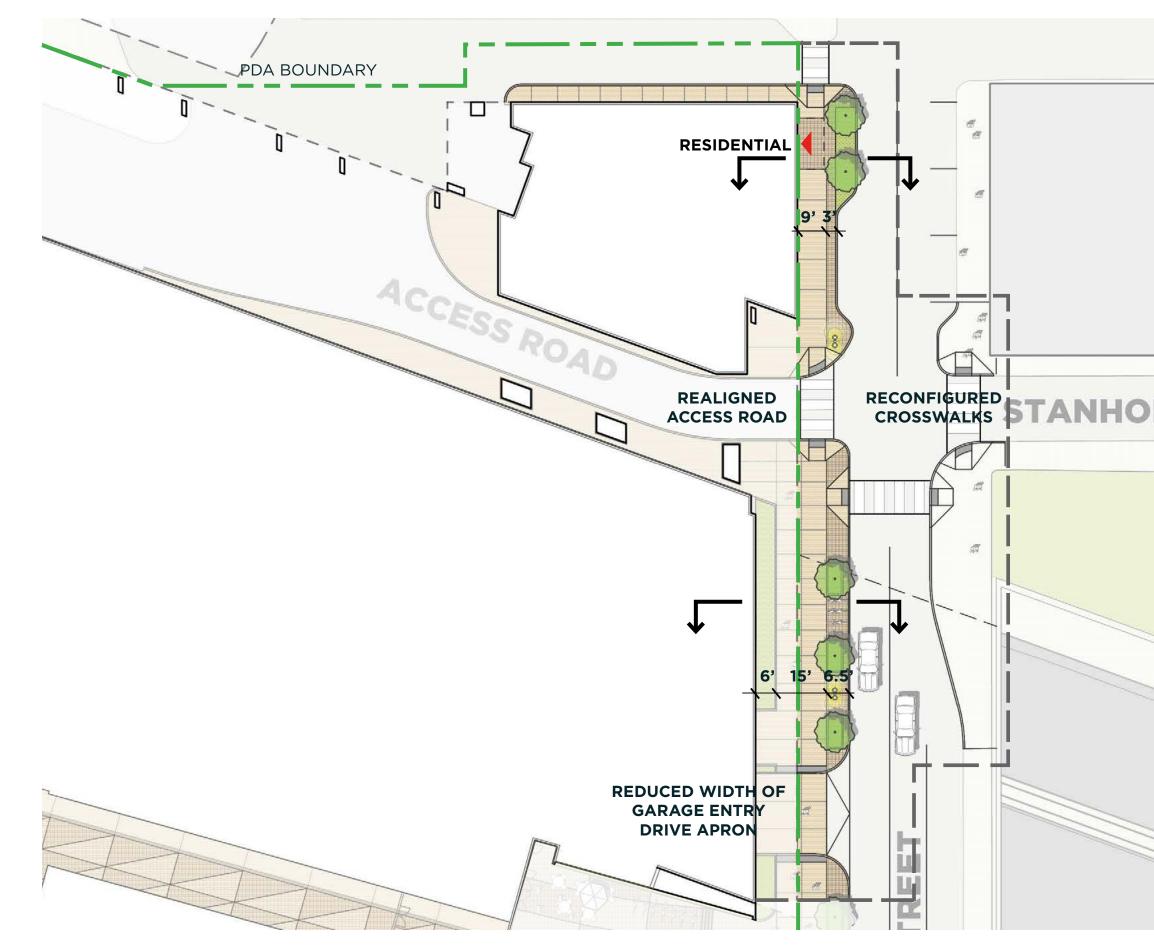


OFFICES

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PUBLIC REALM IMPROVEMENTS PLAN - GARAGE EAST - PNF Boston Properties 23 FEBRUARY 2017



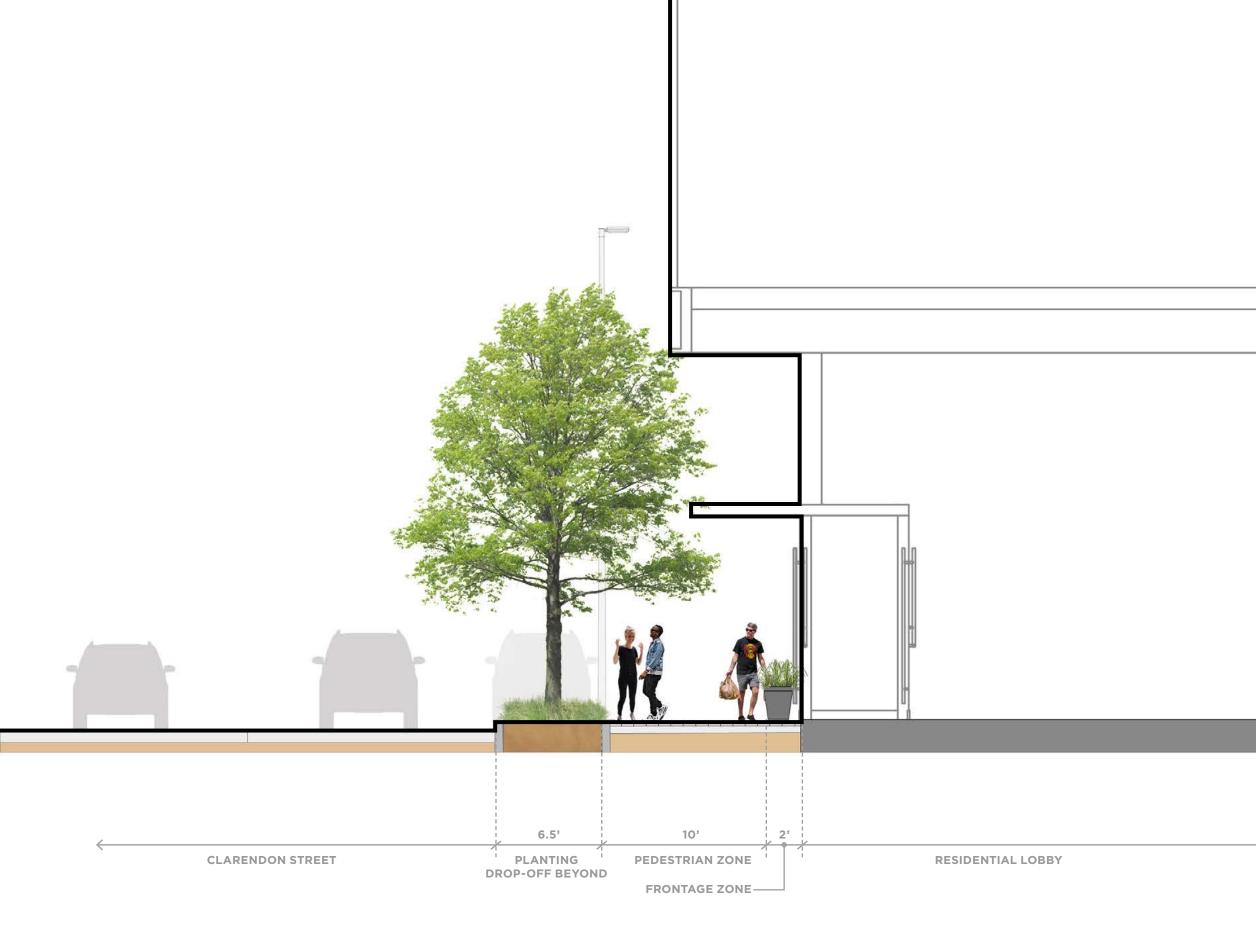
PUBLIC REALM IMPROVEMENTS PLAN - GARAGE EAST - DPIR bxp Boston Properties 23 FEBRUARY 2017

### DPIR

- RECONFIGURED CROSSWALKS AT STANHOPE AND CLARENDON STREET
- INCREASED PEDESTRIAN ZONE ALONG CLARENDON STREET
- ACCESS ROAD REALIGNED TO STANHOPE STREET
- NEW STREET TREES IN RAISED
  PLANTERS ALONG DARTMOUTH STREET
- NEW STREET LIGHTING
- INTRODUCTION OF A NEW FURNISHING ZONE
- NEW PAVING THROUGHOUT

PE REDUCED WIDTH OF GARAGE ENTRY DRIVE APRON





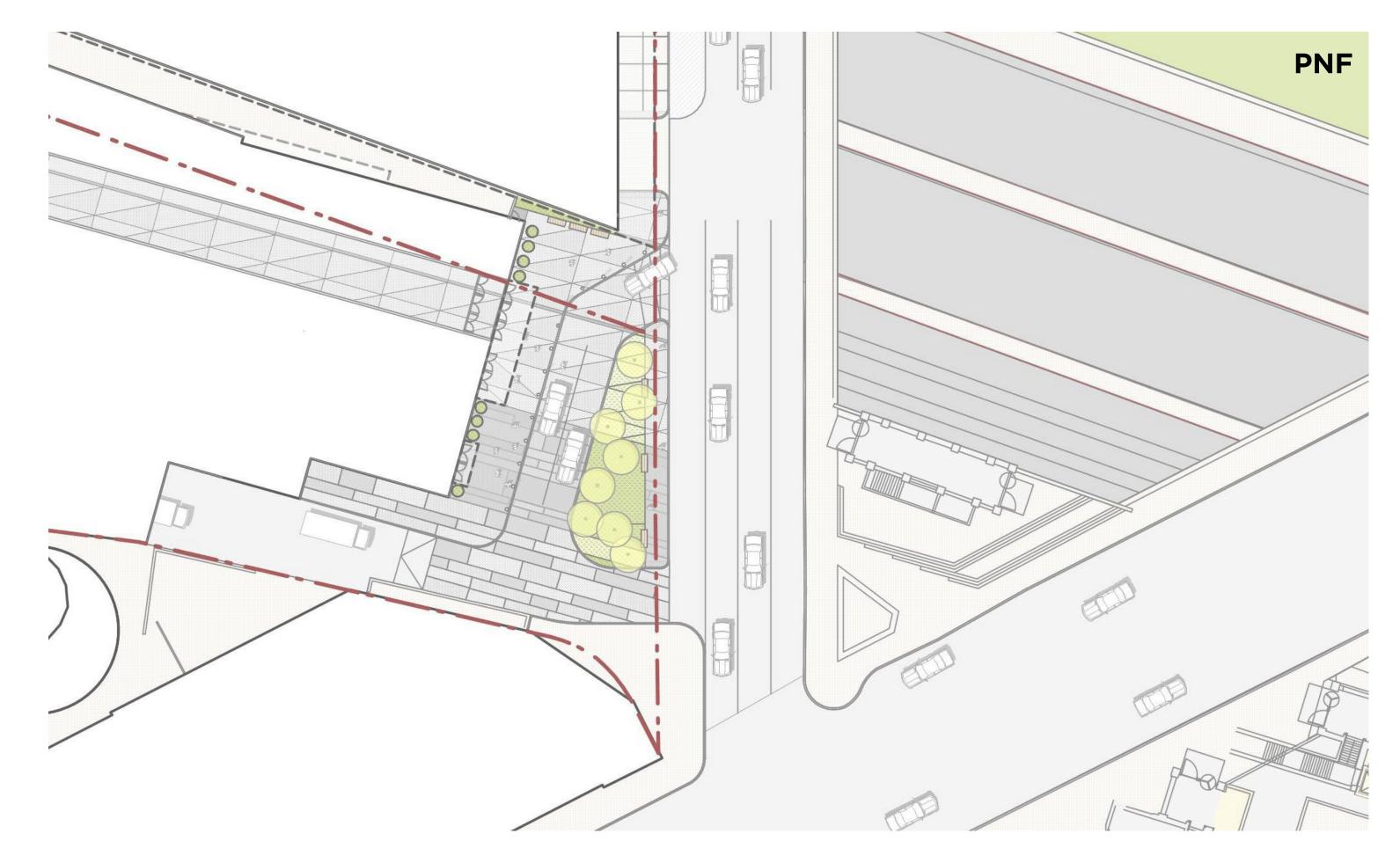
CLARENDON STREET SECTION AT RESIDENTIAL TOWER Boston Properties 23 FEBRUARY 2017





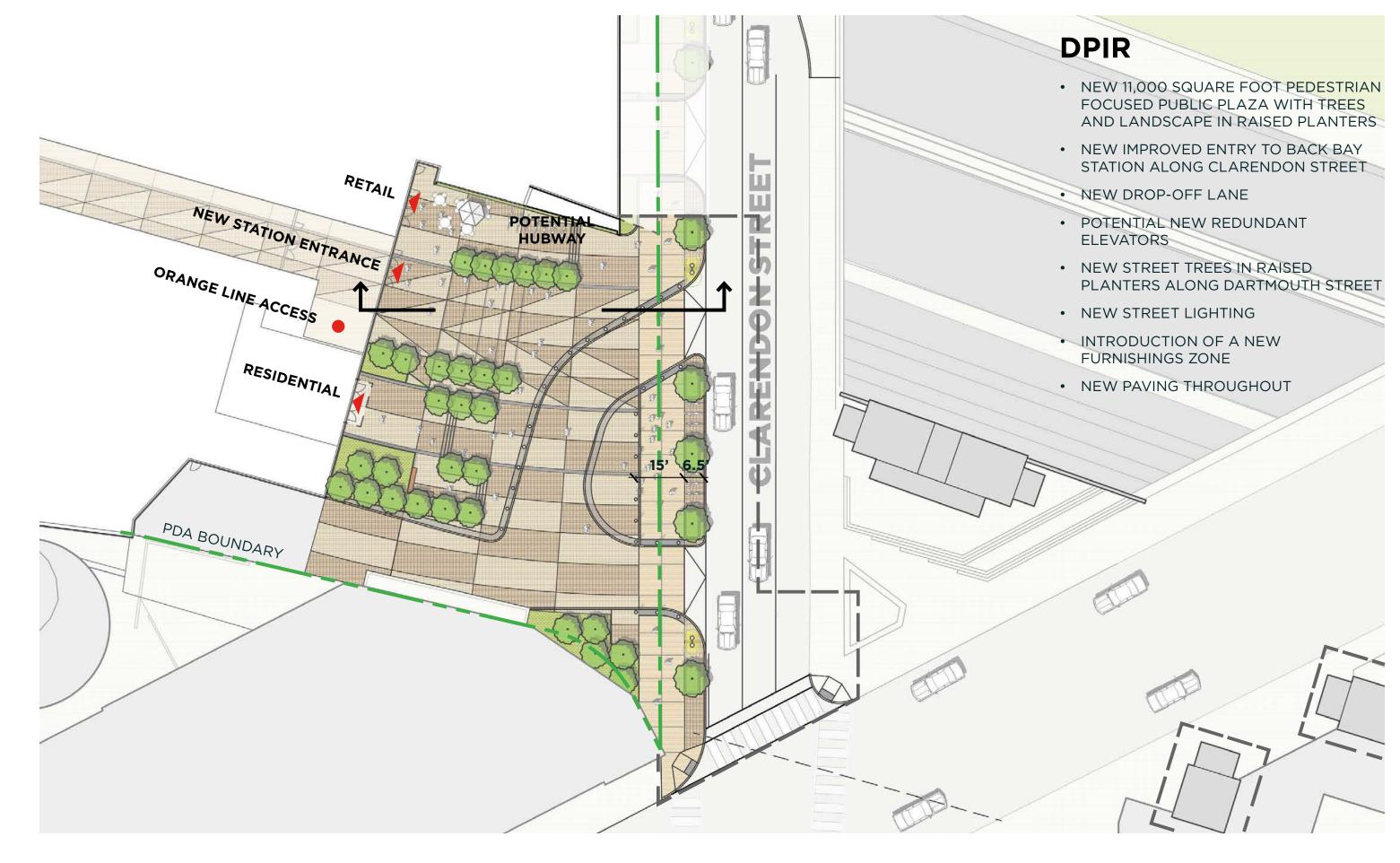
CLARENDON STREET SECTION AT GARAGE Boston Properties 23 FEBRUARY 2017 GARAGE





PUBLIC REALM IMPROVEMENTS PLAN - STATION EAST - PNF Boston Properties 23 FEBRUARY 2017





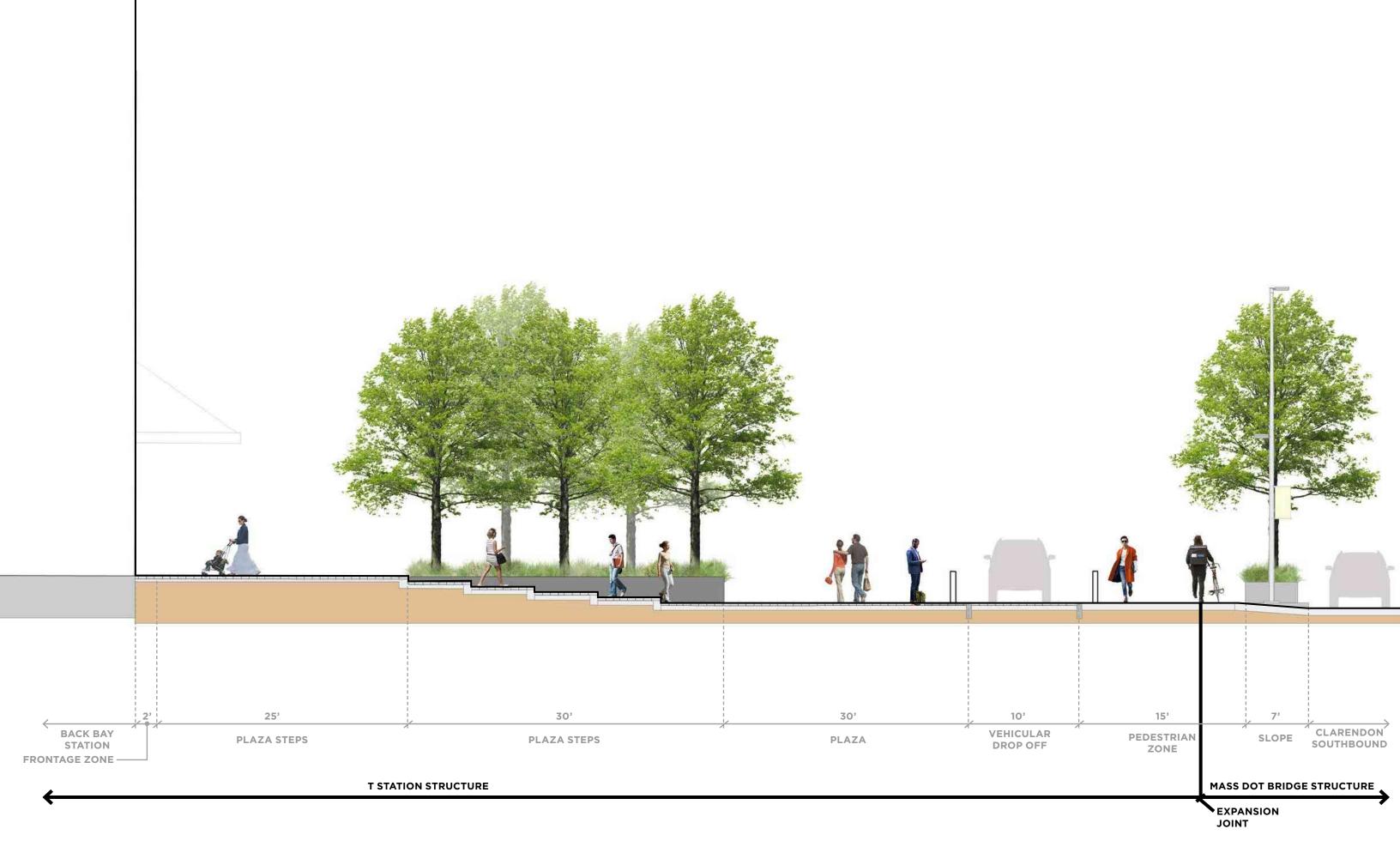
PUBLIC REALM IMPROVEMENTS PLAN - STATION EAST - DPIR bxp Boston Properties 23 FEBRUARY 2017



VIEW FROM CLARENDON STREET - PROJECT RENDERING Boston Properties 23 FEBRUARY 2017

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CLARENDON COURT SECTION bxp Boston Properties 23 FEBRUARY 2017





PUBLIC REALM IMPROVEMENTS PLAN - WIDTHS FOR SIDEWALK ZONES - DPIR Boston Properties 23 FEBRUARY 2017



## PEDESTRIAN LEVEL WIND STUDY

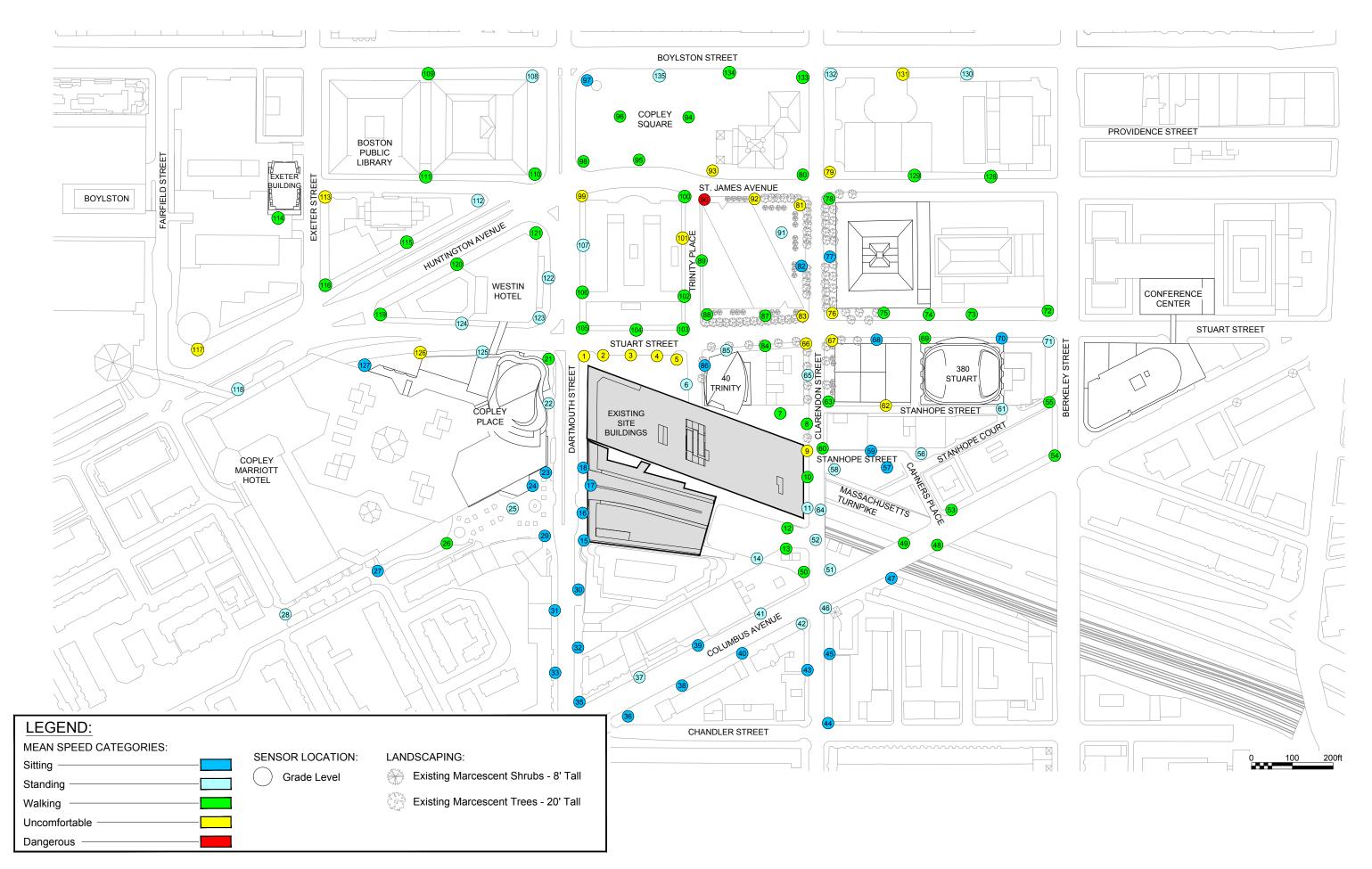


## PEDESTRIAN WIND COMFORT SUMMARY

- Base Scheme and Alternate Scheme nearly identical results
- **On-Site Wind Comfort Conditions:** 
  - o Similar or better than No-Build conditions at most locations
  - o Wind comfort conditions improve at 10 on-site locations
  - o Existing uncomfortable conditions improve at 5 on-site locations
- **Off-Site Wind Comfort Conditions:** 
  - o Similar or better than No-build conditions at most locations o No new uncomfortable or dangerous off-site wind conditions are anticipated

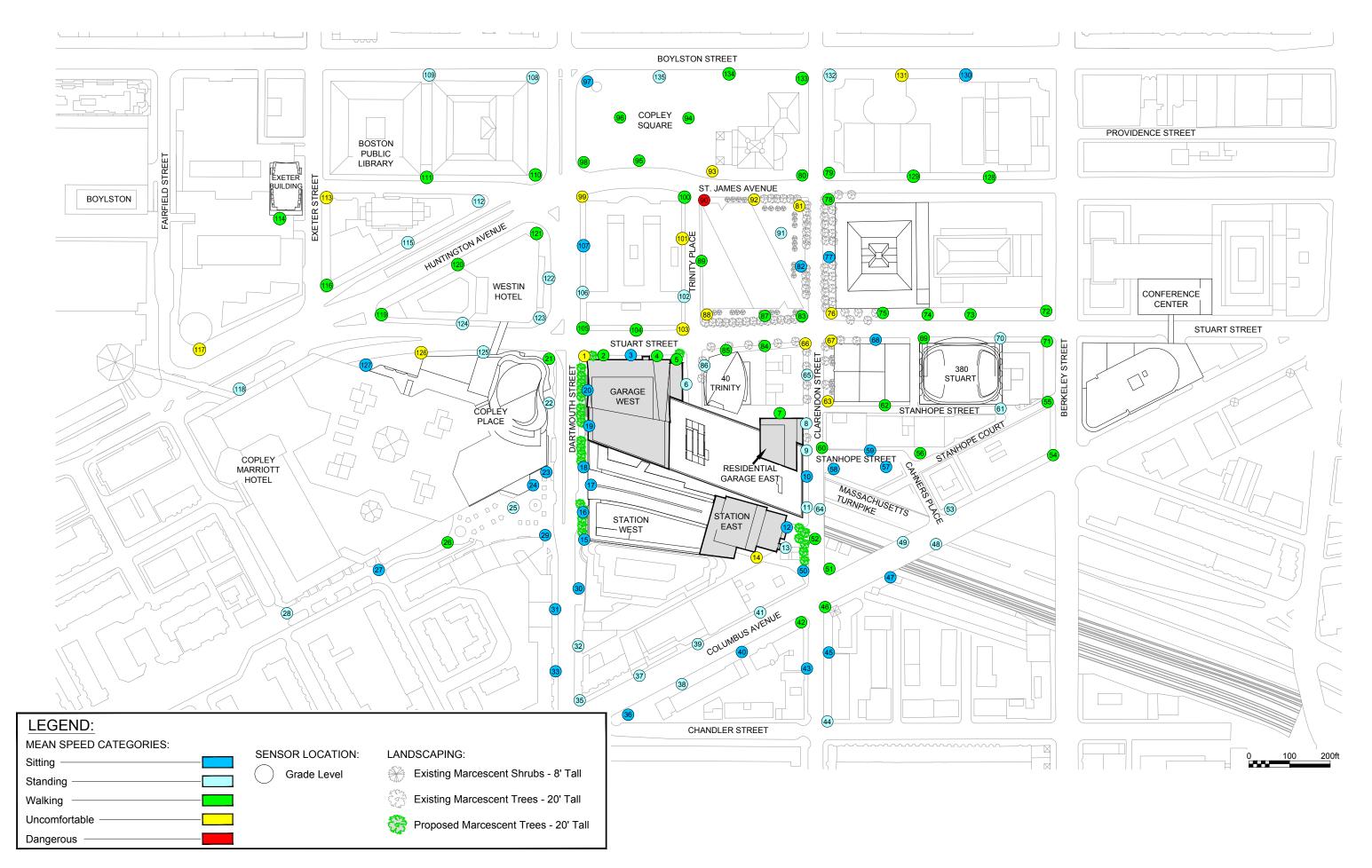






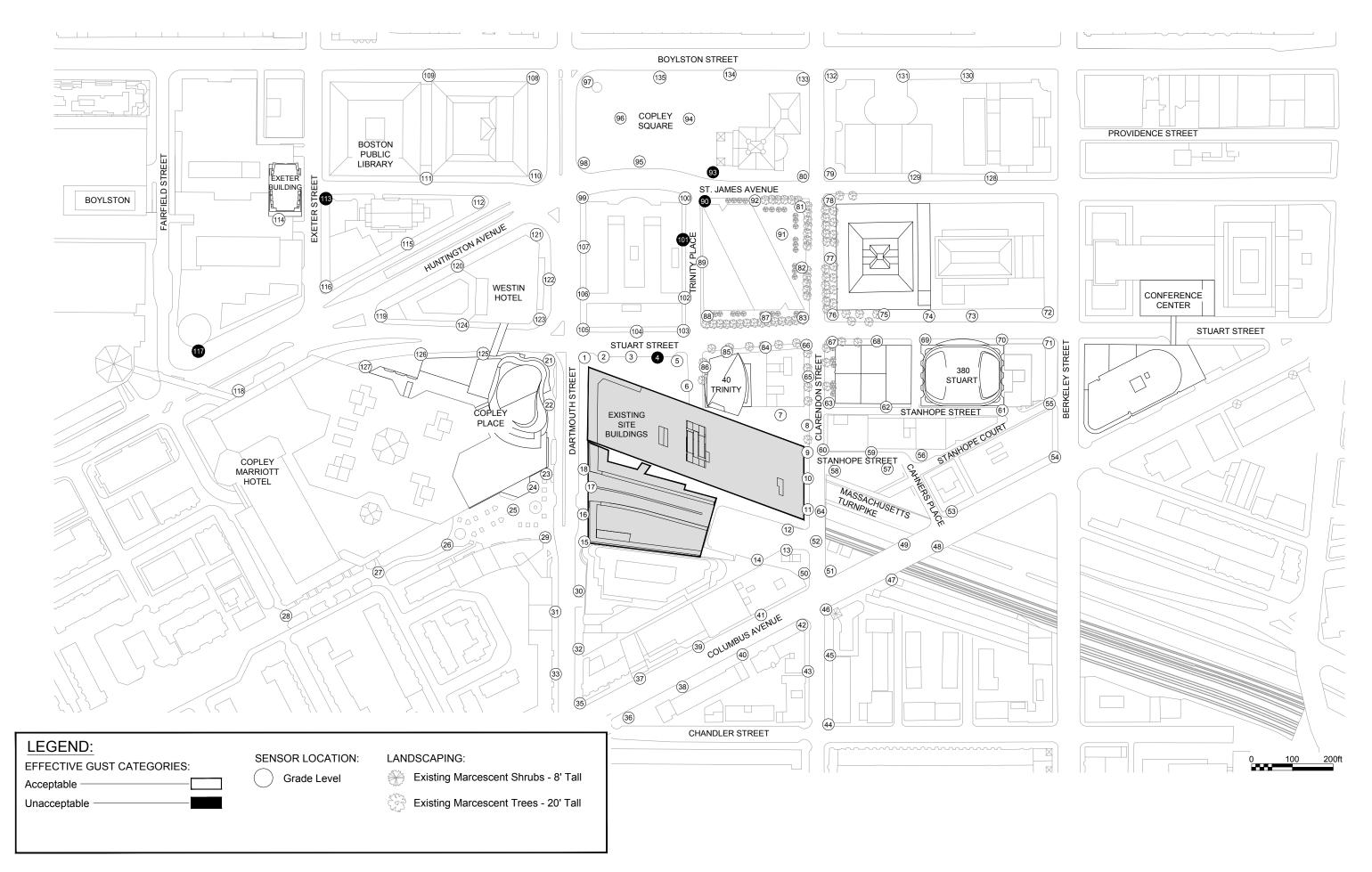
PEDESTRIAN WIND CONDITIONS - MEAN SPEED - NO BUILD





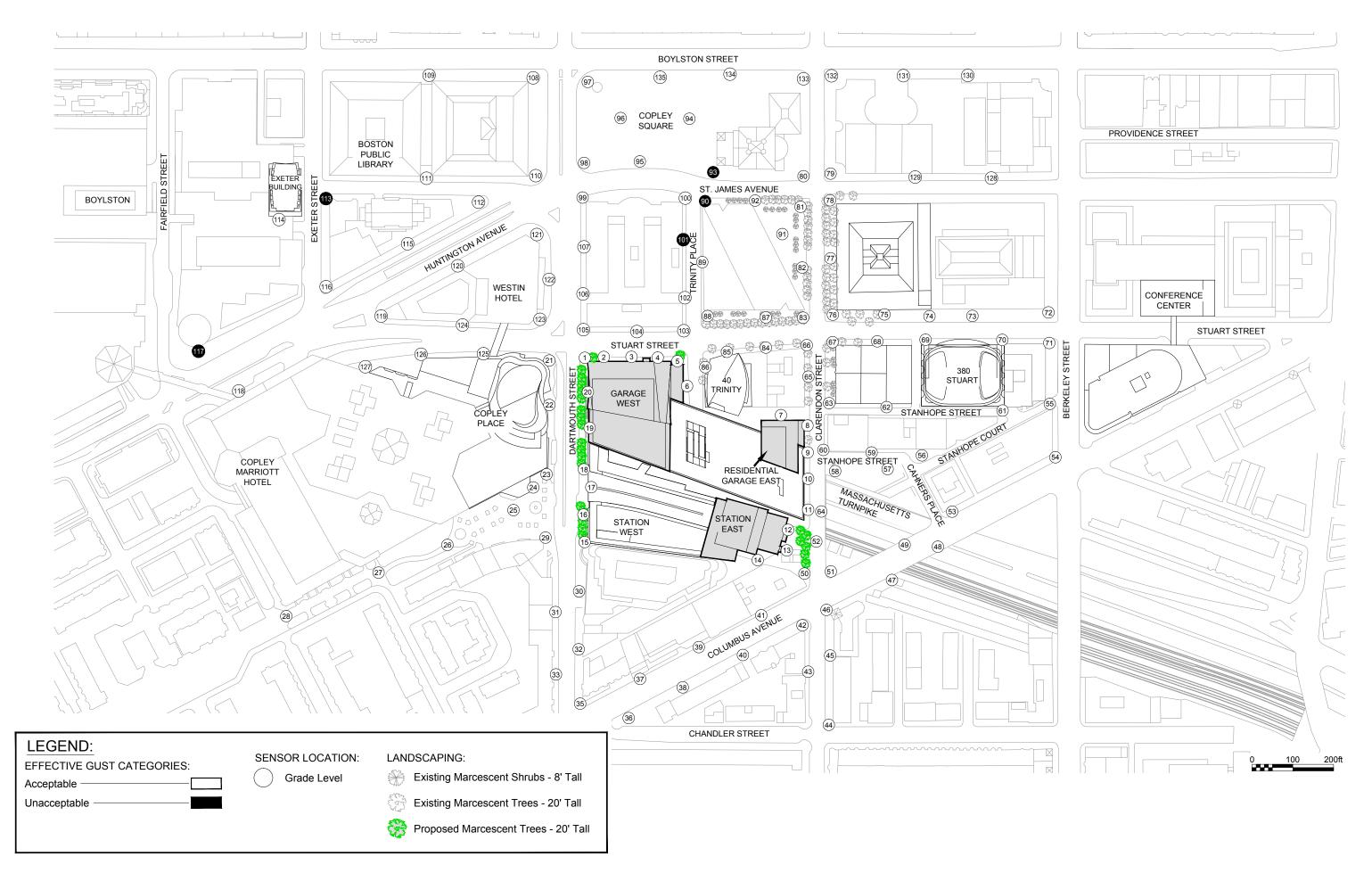
PEDESTRIAN WIND CONDITIONS - MEAN SPEED - BASE SCHEME





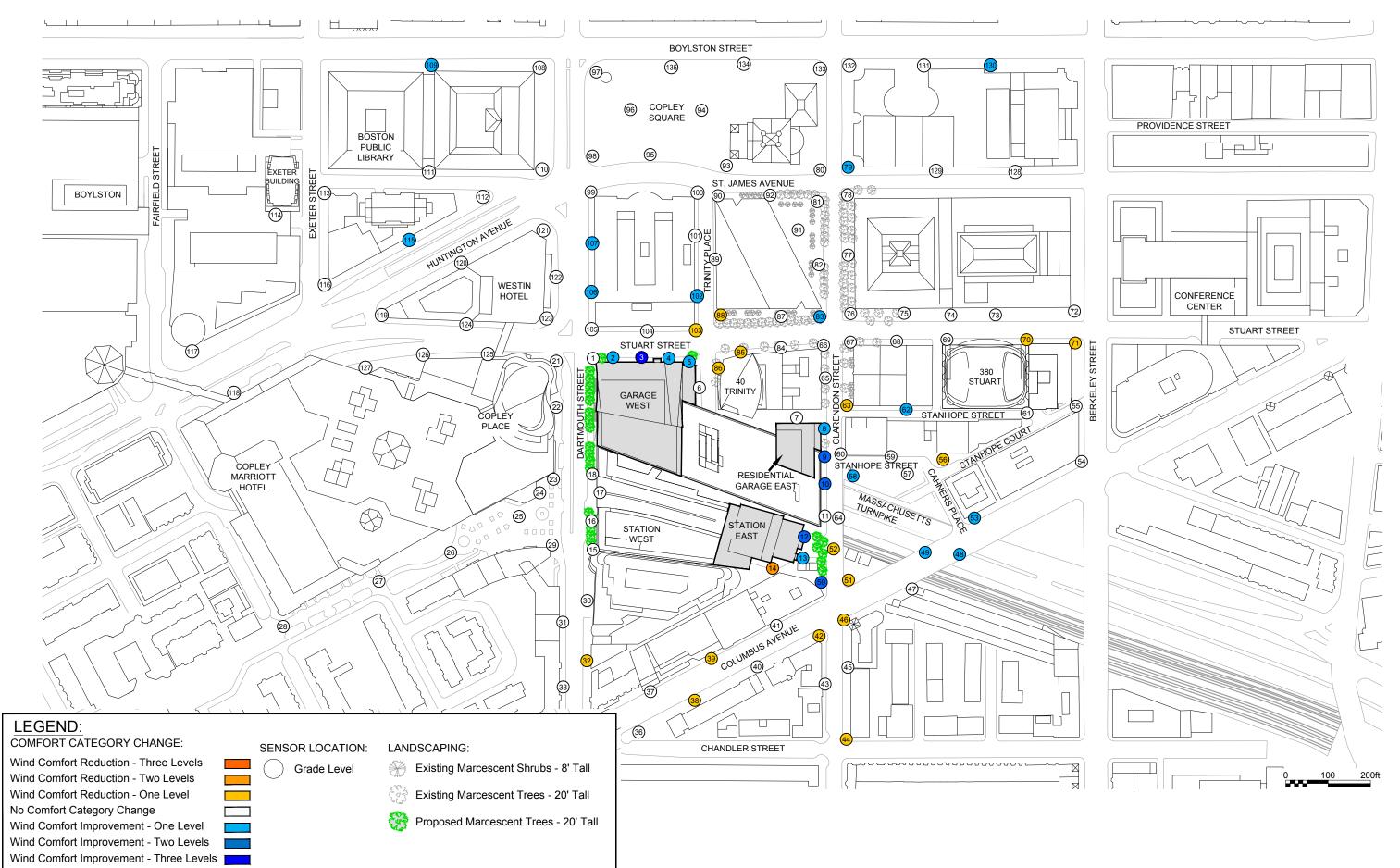
PEDESTRIAN WIND CONDITIONS - EFFECTIVE GUST - NO-BUILD





PEDESTRIAN WIND CONDITIONS - EFFECTIVE GUST - BASE SCHEME bxp Boston Properties 23 FEBRUARY 2017





PEDESTRIAN WIND CONDITIONS - CATEGORY CHANGE - NO-BUILD TO BASE SCHEME



# SEASONAL SHADOW STUDIES







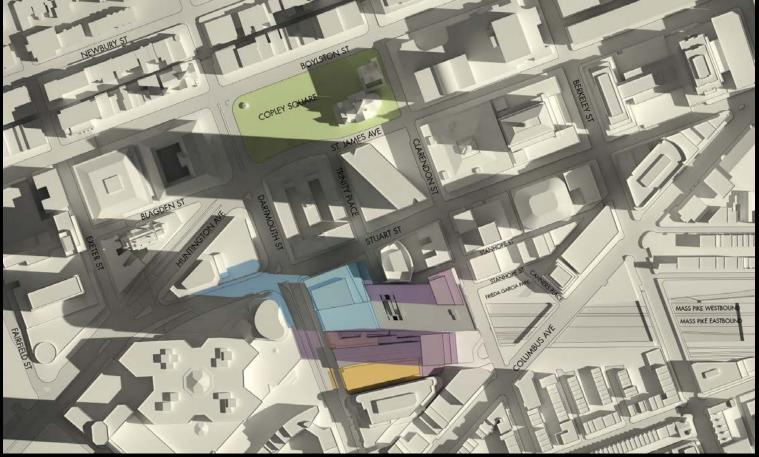
9:00AM EDT



3:00PM EDT

SHADOW IMPACT - MARCH 21 AND SEPTEMBER 21 by Boston Properties 23 FEBRUARY 2017





9:00AM EDT







SHADOW IMPACT - JUNE 21 Boston Properties 23 FEBRUARY 2017

## 3:00PM EDT

## Pelli Clarke Pelli Architects 75

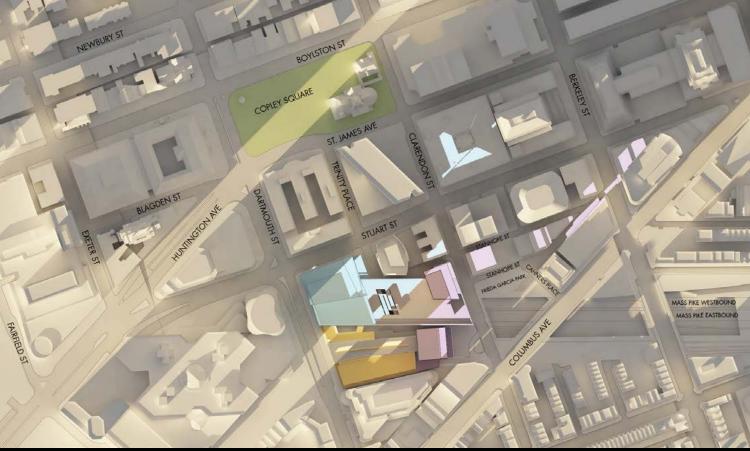
## 6:00PM EDT

## 12:00PM EDT









## 3:00PM EST

SHADOW IMPACT - DECEMBER 21 Boston Properties 23 FEBRUARY 2017

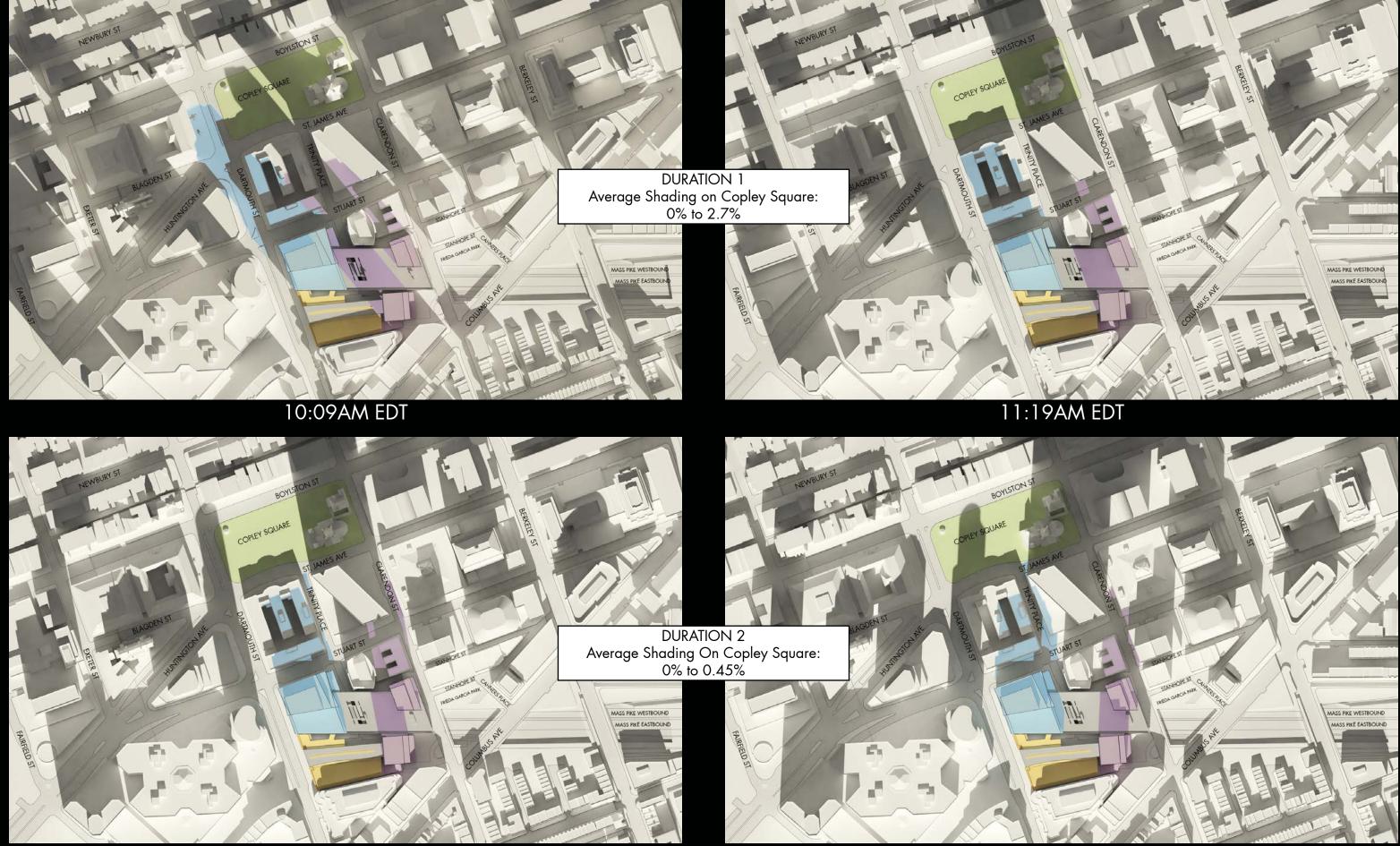
## 12:00PM EST

# SHADOW LIMIT ON COPLEY SQUARE



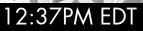




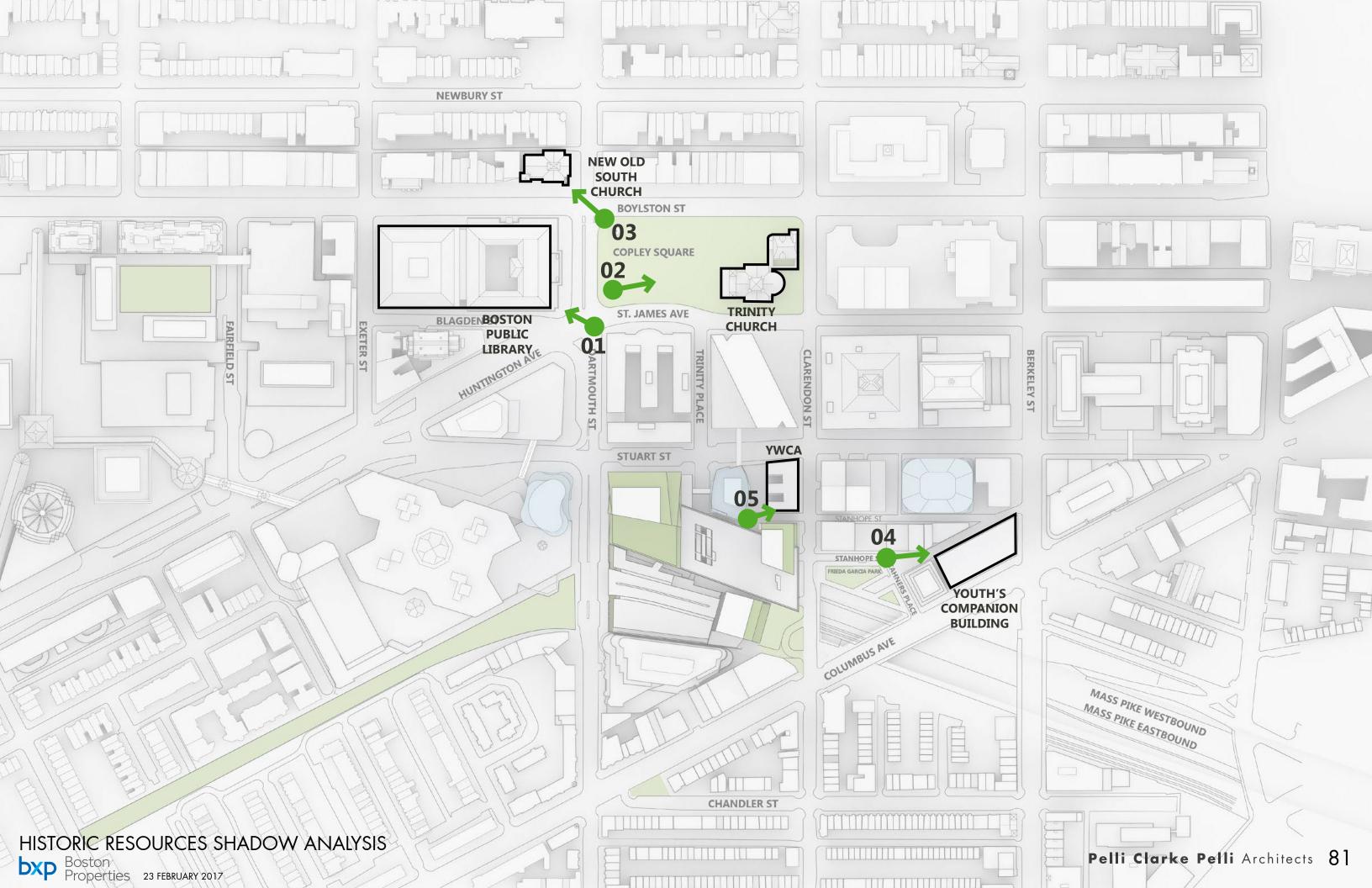


11:53AM EDT

SHADOW IMPACT - OCTOBER 21 Boston Properties 23 FEBRUARY 2017



# HISTORIC RESOURCE SHADOW ANALYSIS



#### **01 - BOSTON PUBLIC LIBRARY**

Garage West casts a small amount of net new shadow on portions of the Secondary Facade of the Boston Public Library in the morning from 8:05am to 9:32am for a total of 87 Minutes.







#### **DECEMBER 21 (Solstice)**

Garage West casts net new shadow on portions of the South and East Facades of the Boston Public Library in the early morning from 7:30am to 9:30am for a total of 120 Minutes.



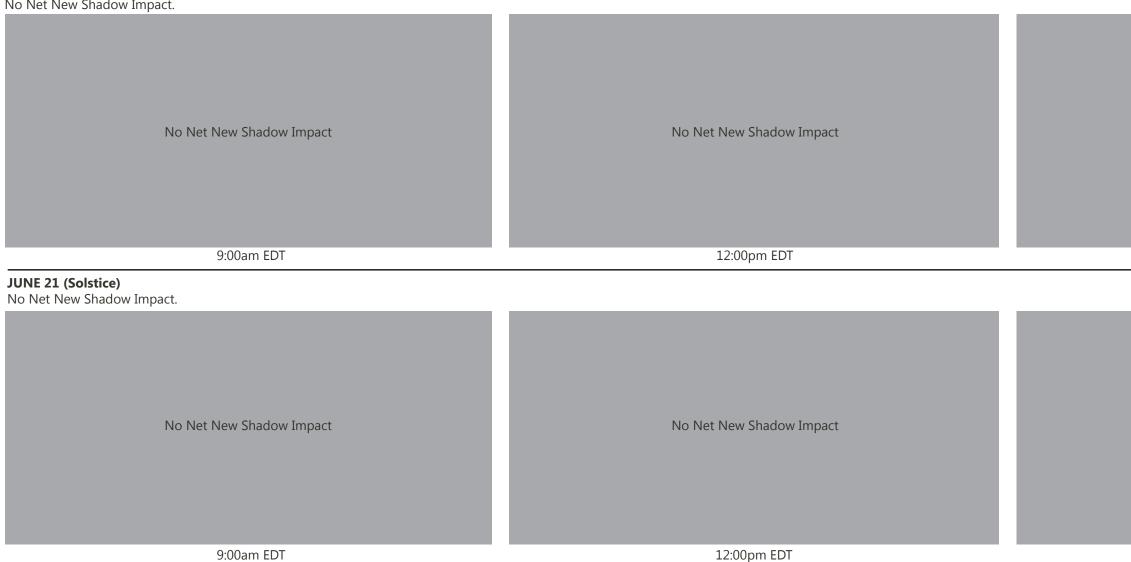
HISTORIC RESOURCES SHADOW ANALYSIS - 01 - BOSTON PUBLIC LIBRARY

Boston Properties 23 FEBRUARY 2017 No Net New Shadow Impact

3:00pm EDT

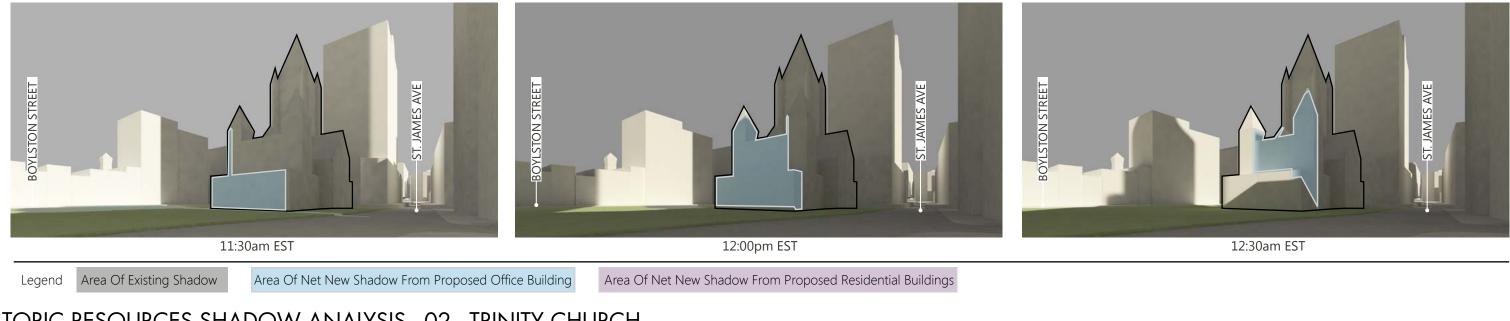
#### No Net New Shadow Impact.

### 02 - TRINITY CHURCH



#### **DECEMBER 21 (Solstice)**

Garage West casts net new shadow on portions of the West Facade of Trinty Curch from 11:15am to 12:45pm for a total of 90 Minutes.



## HISTORIC RESOURCES SHADOW ANALYSIS - 02 - TRINITY CHURCH

Boston Properties 23 FEBRUARY 2017

No Net New Shadow Impact

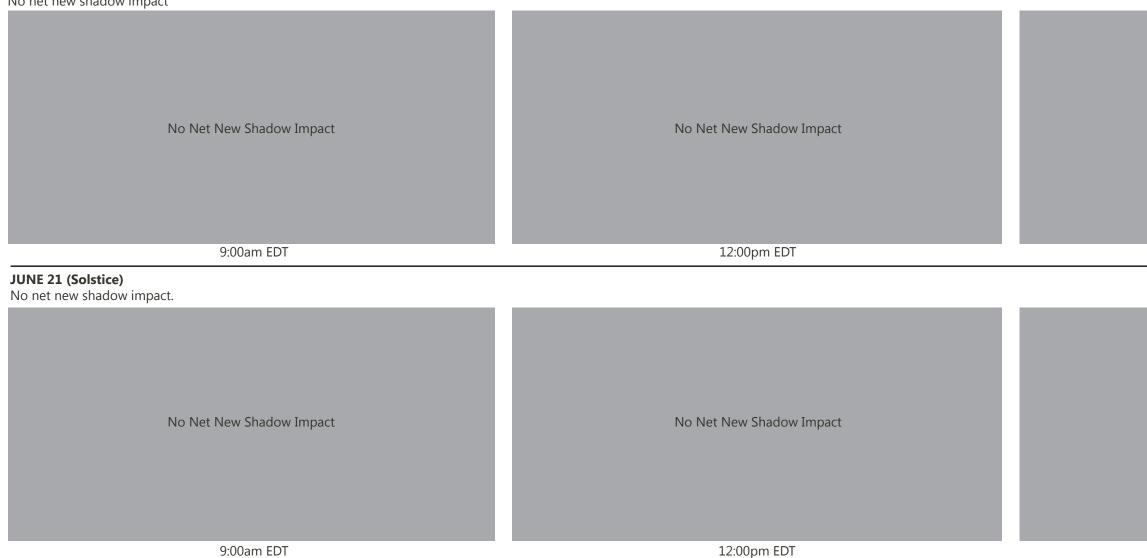
#### 3:00pm EDT

No Net New Shadow Impact

#### 3:00pm EDT

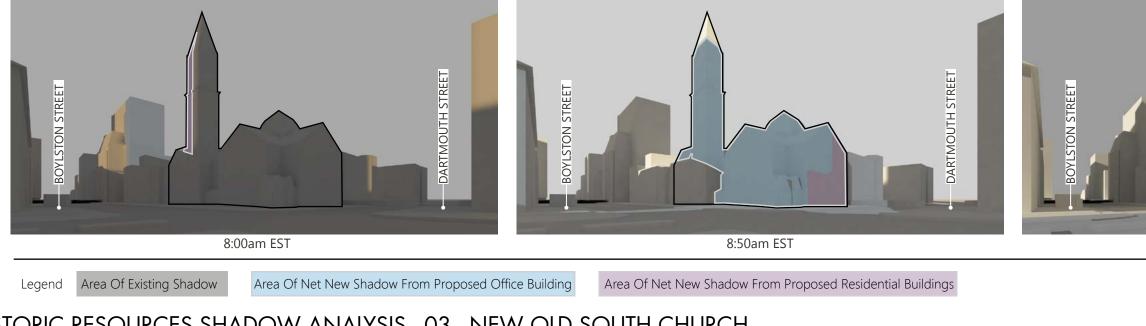
#### No net new shadow impact

### 03 - NEW OLD SOUTH CHURCH



#### **DECEMBER 21 (Solstice)**

Garage West and Station East cast net new shadow on portions of the South and East Facades of the New Old South Church in the early morning from 7:45am to 9:55am for a total of 130 Minutes.



## HISTORIC RESOURCES SHADOW ANALYSIS - 03 - NEW OLD SOUTH CHURCH

Boston Properties 23 FEBRUARY 2017

No Net New Shadow Impact

#### 3:00pm EDT

No Net New Shadow Impact

#### 3:00pm EDT

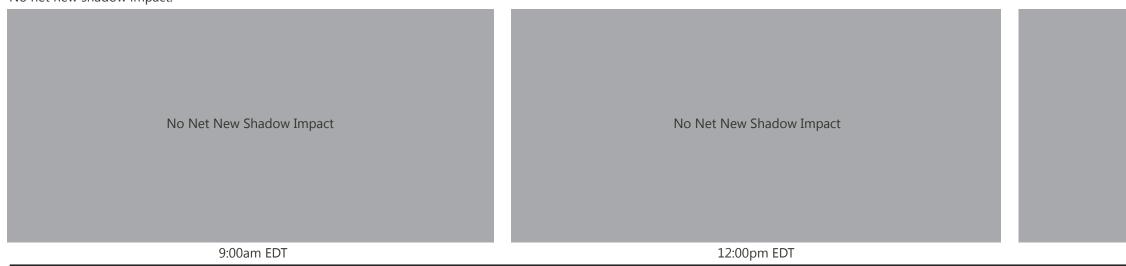
DARTMOUTH STREET 9:40am EST

### 04 - YOUTH'S COMPANION BUILDING (SECONDARY FACADE)

Garage East and Station East cast some net new shadow on portions of the Rear Elevation of the Youth's Companion Building from 3:26pm to 5:15pm for a total of 109 Minutes.

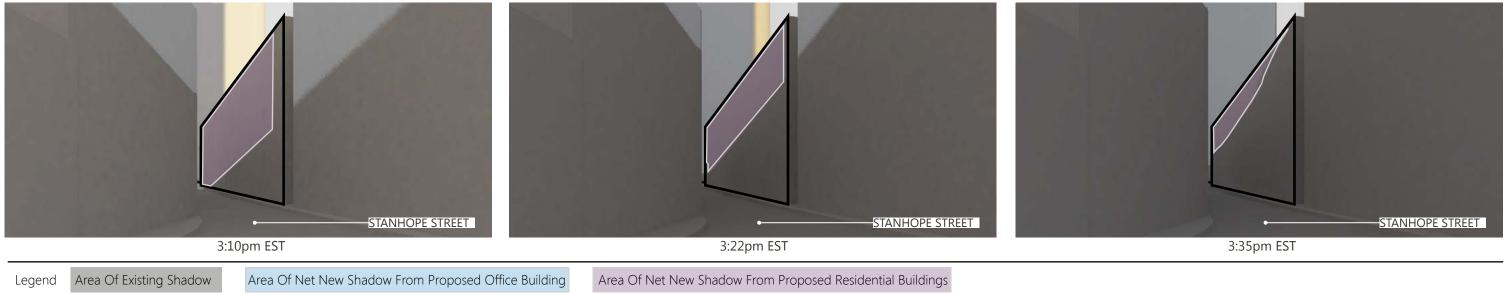




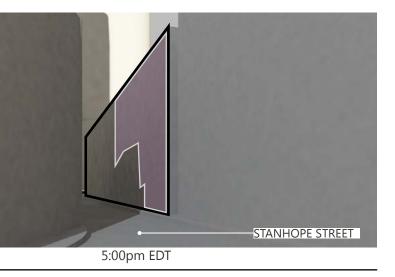


**DECEMBER 21 (Solstice)** 

Garage East and Station East cast net new shadow on portions of the Rear Elevation of the Youth's Companion Building from 3:00pm to 3:45pm for a total of 45 Minutes.



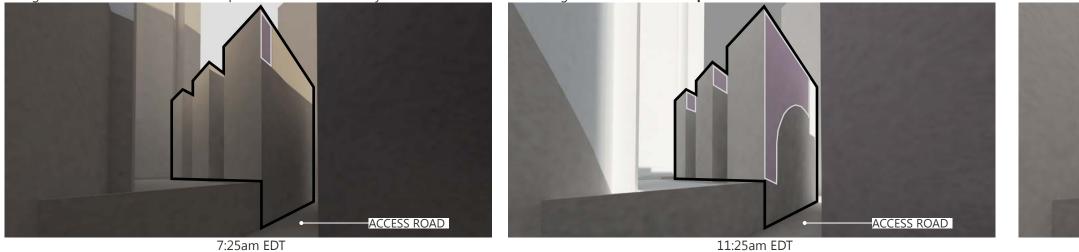
HISTORIC RESOURCES SHADOW ANALYSIS - 04 - YOUTH'S COMPANION BUILDING (SECONDARY FACADE) Boston Properties 23 FEBRUARY 2017



No Net New Shadow Impact

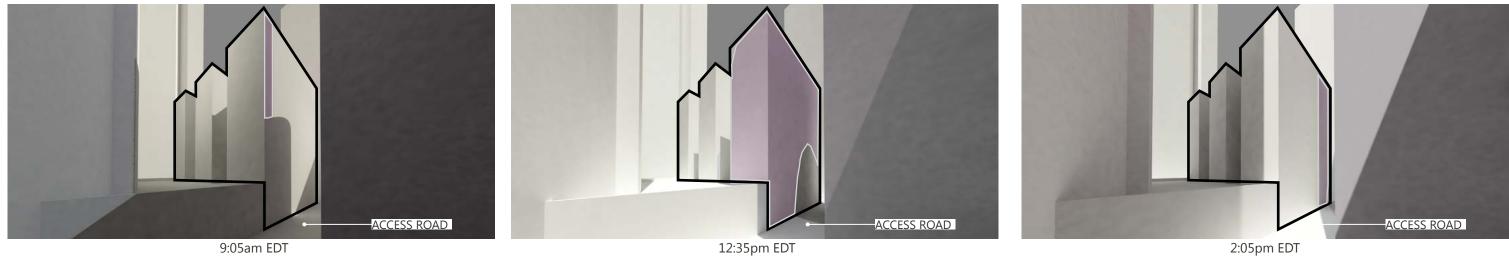
3:00pm EDT

Garage East casts net new shadow on portions of the Secondary Elevation of the YWCA Building from 7:10am to 3:41pm for a total of 7 Hours and 31 Minutes.



#### JUNE 21 (Solstice)

Garage East casts net new shadow on portions of the Secondary Elevations of the YWCA Building from 8:50am to 2:20pm for a total of 5 Hours and 30 Minutes.



#### **DECEMBER 21 (Solstice)**

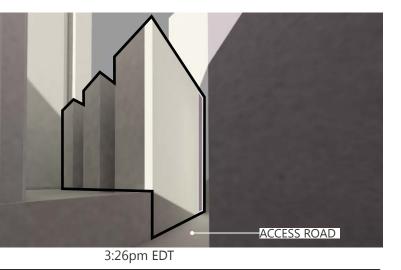
Garage East casts net new shadow on portions of the Secondary Elevations of the YWCA Building from Sunrise (7:11am) to 3:50pm for a total of 8 Hours and 39 Minutes.

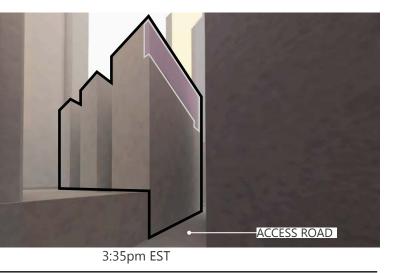


## HISTORIC RESOURCES SHADOW ANALYSIS - 05 - YWCA

Boston Properties 23 FEBRUARY 2017

### 05 - YWCA





# NEXT STEPS + CONTACT INFORMATION

- Public Meeting #1: March 1, 2017 6:00PM - 8:00PM Boston Common Hotel & Conference Center, 40 Trinity Place
- MEPA DEIR Comment Period Closes March 10, 2017
- BPDA DPIR Comment Period Closes April 16, 2017
- Future CAC Meeting Topics:
  - Traffic and Parking
  - Sustainability
  - Additional Topics TBD

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Michael Rooney, Senior Project Manager, Boston Planning & Development Agency Michael.Rooney@boston.gov • 617.918.4237



# THANK YOU!

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