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Station Improvements

Structural Considerations

Development Options

Implementation



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LOCATION



Boylston Street

Boylston Street

Mass Ave

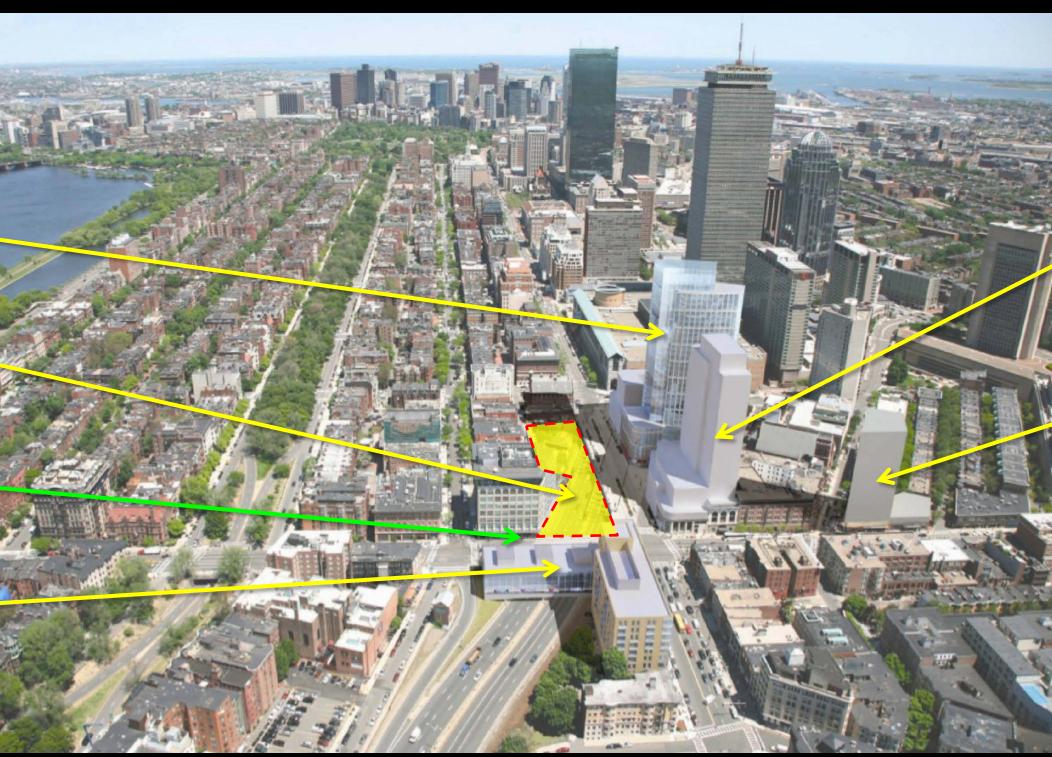
OTHER PROJECTS

Parcel 15

Parcel 13

Hynes Station

Parcel 12



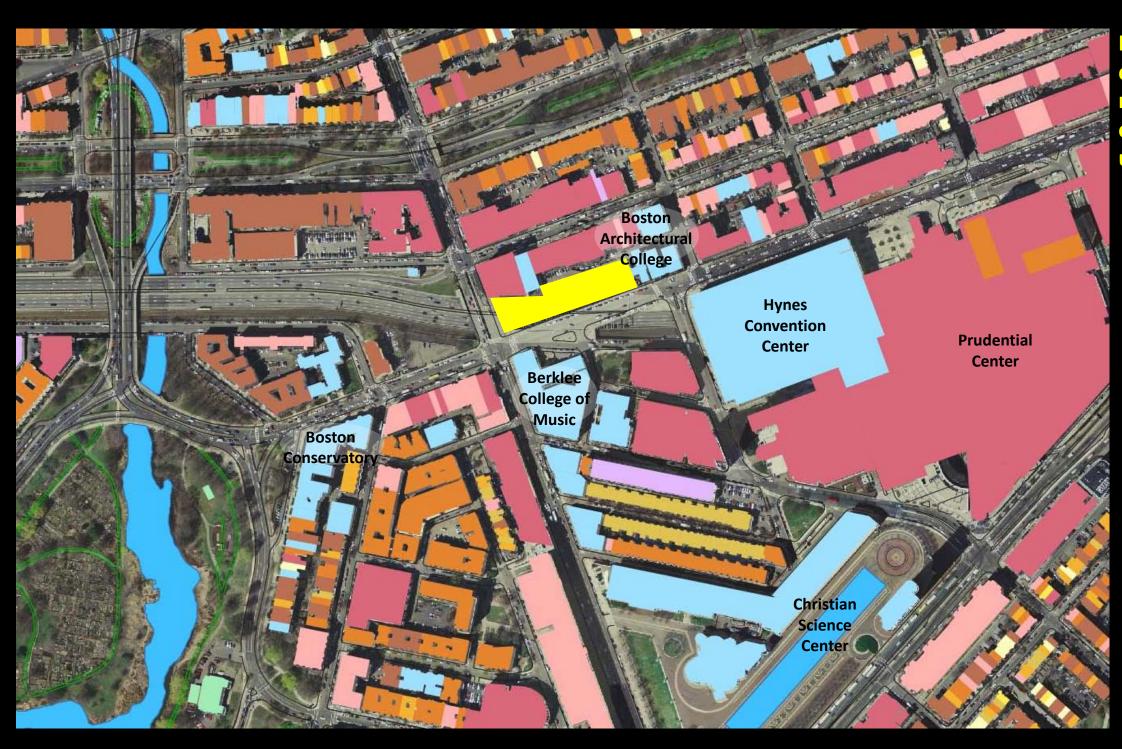
Berklee Crossroads

Berklee
130 Mass Ave
(Recently Completed)

From ADG SCOTIA II LLC (an affiliate of Weiner Ventures LLC and Samuels & Associates Development LLC) March 16, 2012



LAND USE BY BUILDING



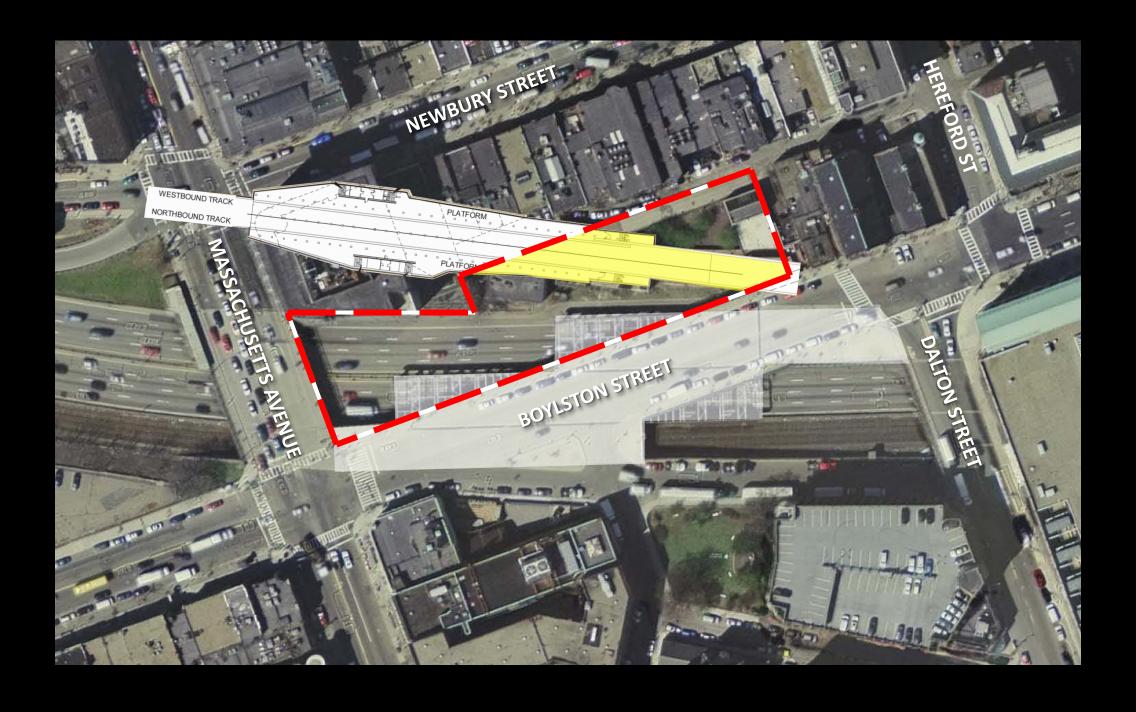
Interspersed among commercial and residential buildings are clusters of institutional uses

KEY
Residential
Residential
Residential
Commercial
Institutional
Public Facility
Mixed Use

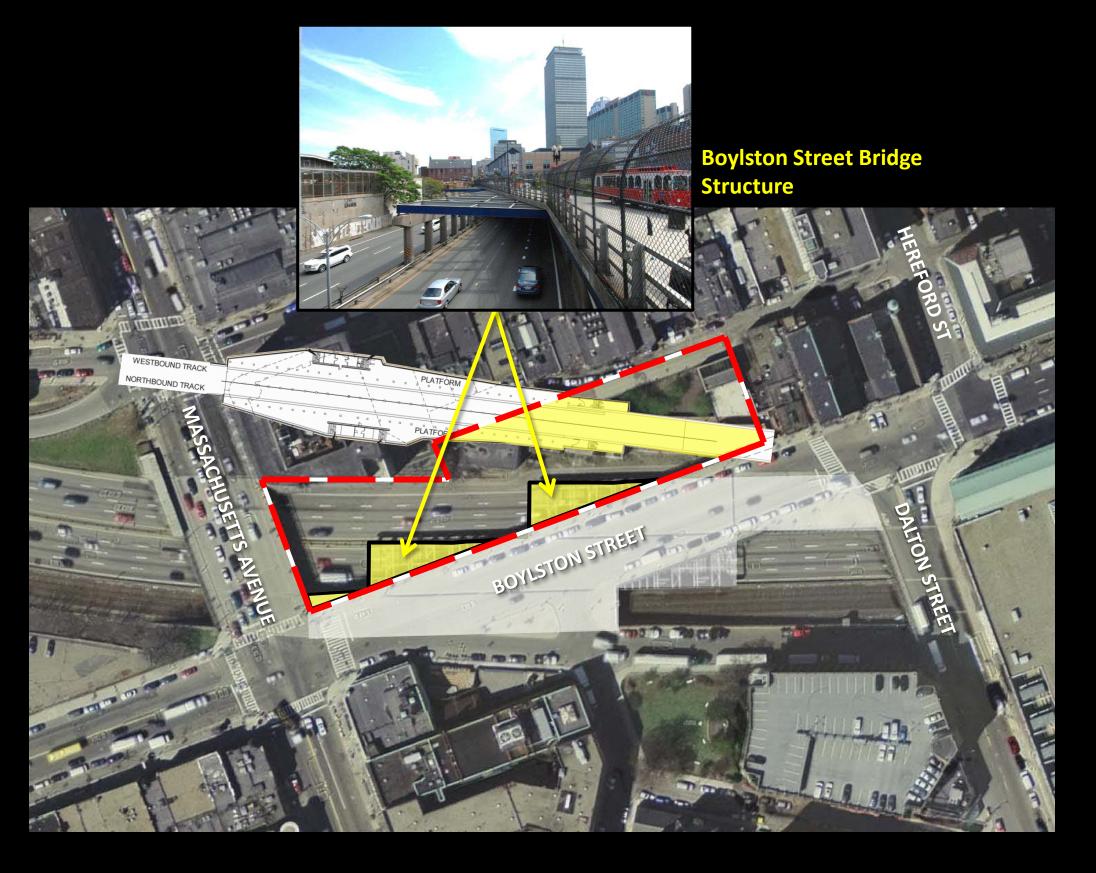




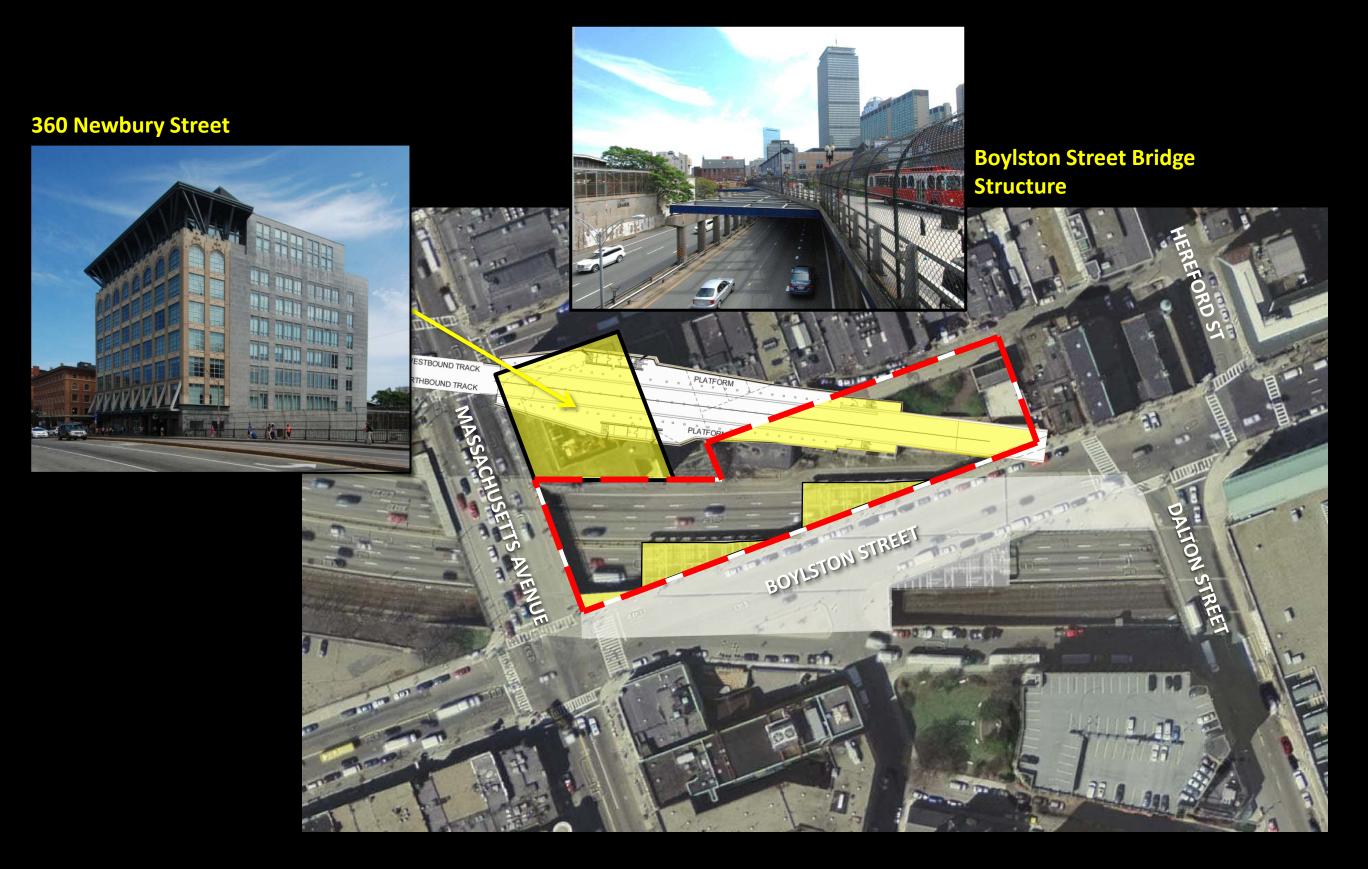
PARCEL CONSTRAINTS



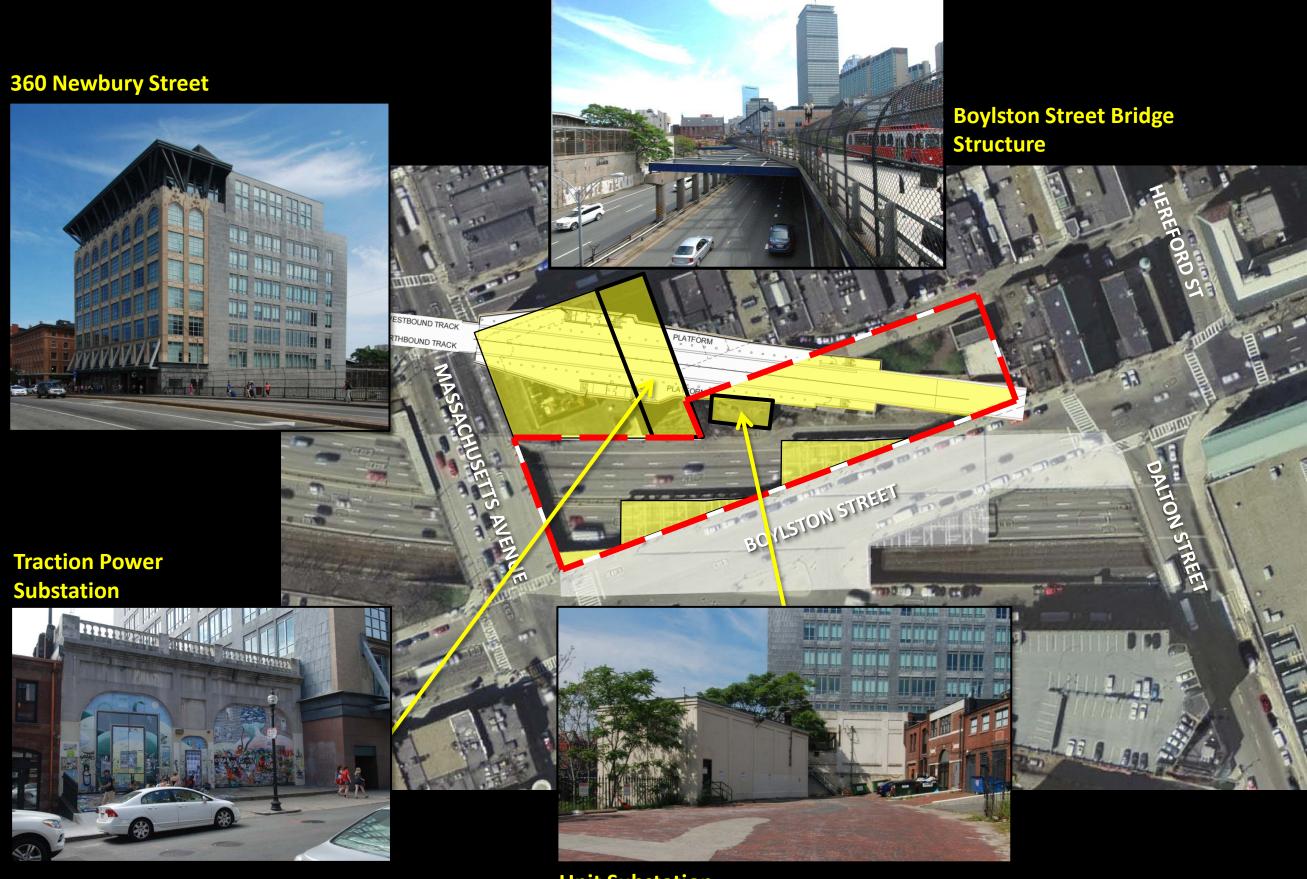








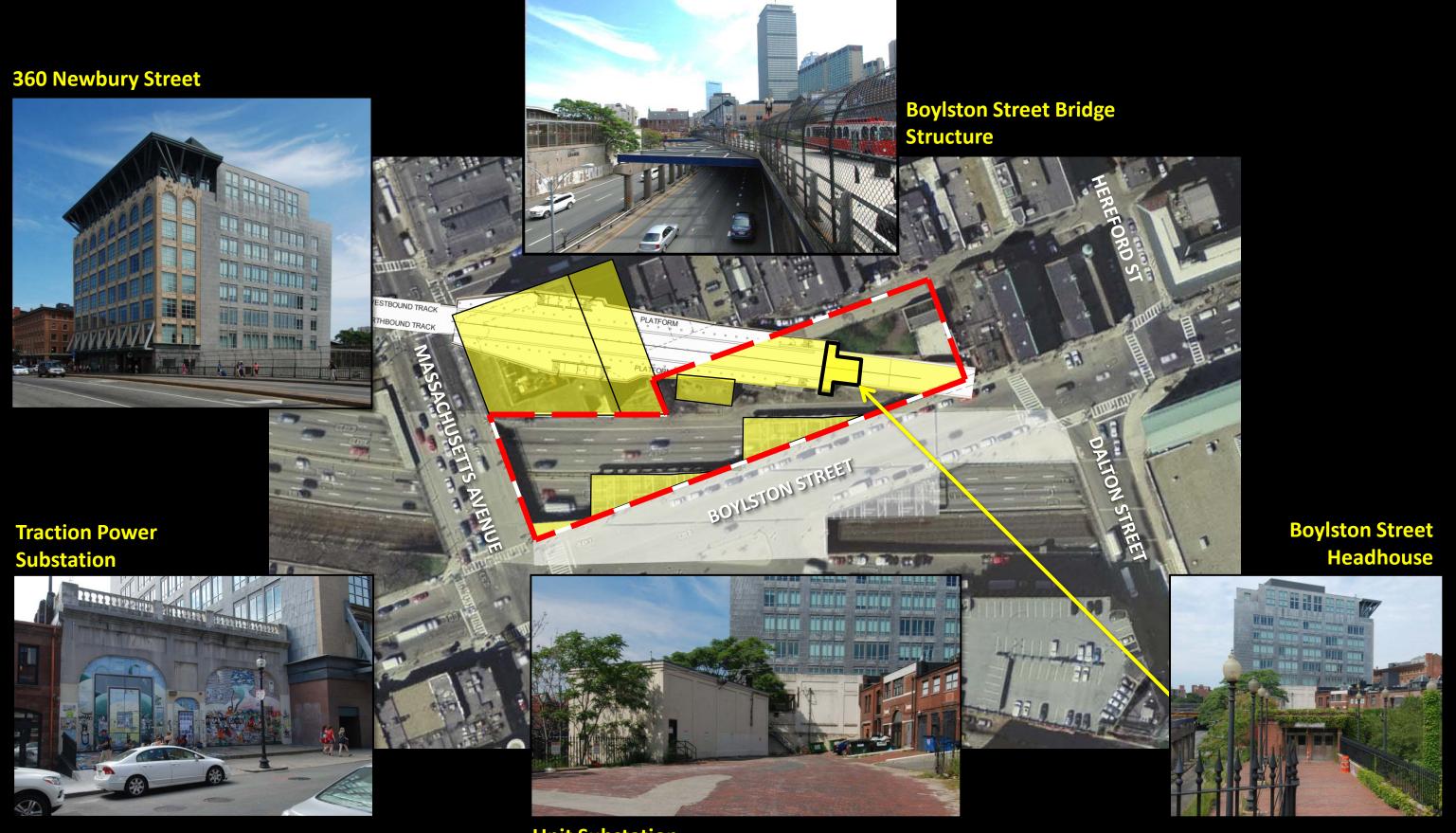




Unit Substation



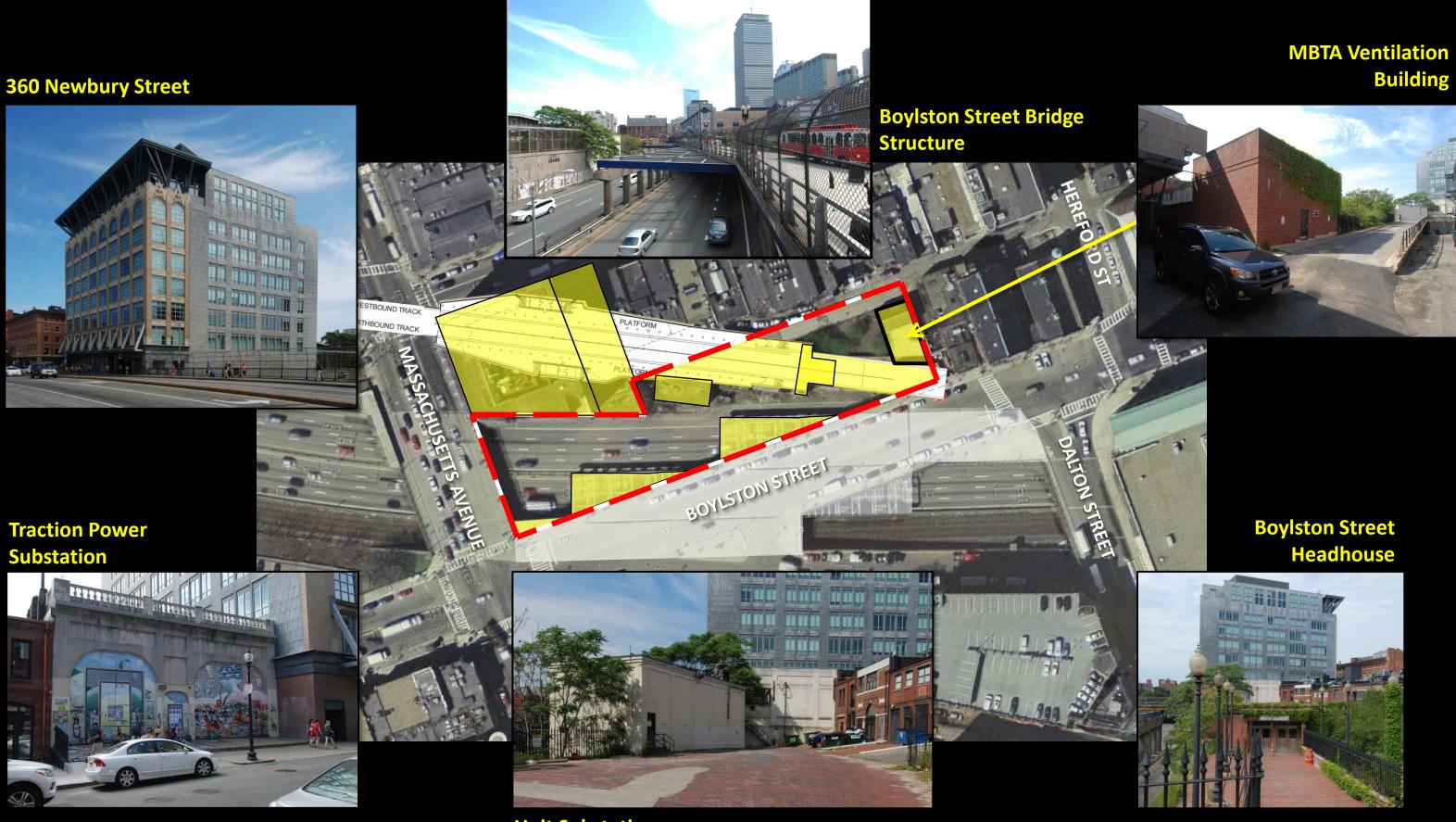




Unit Substation



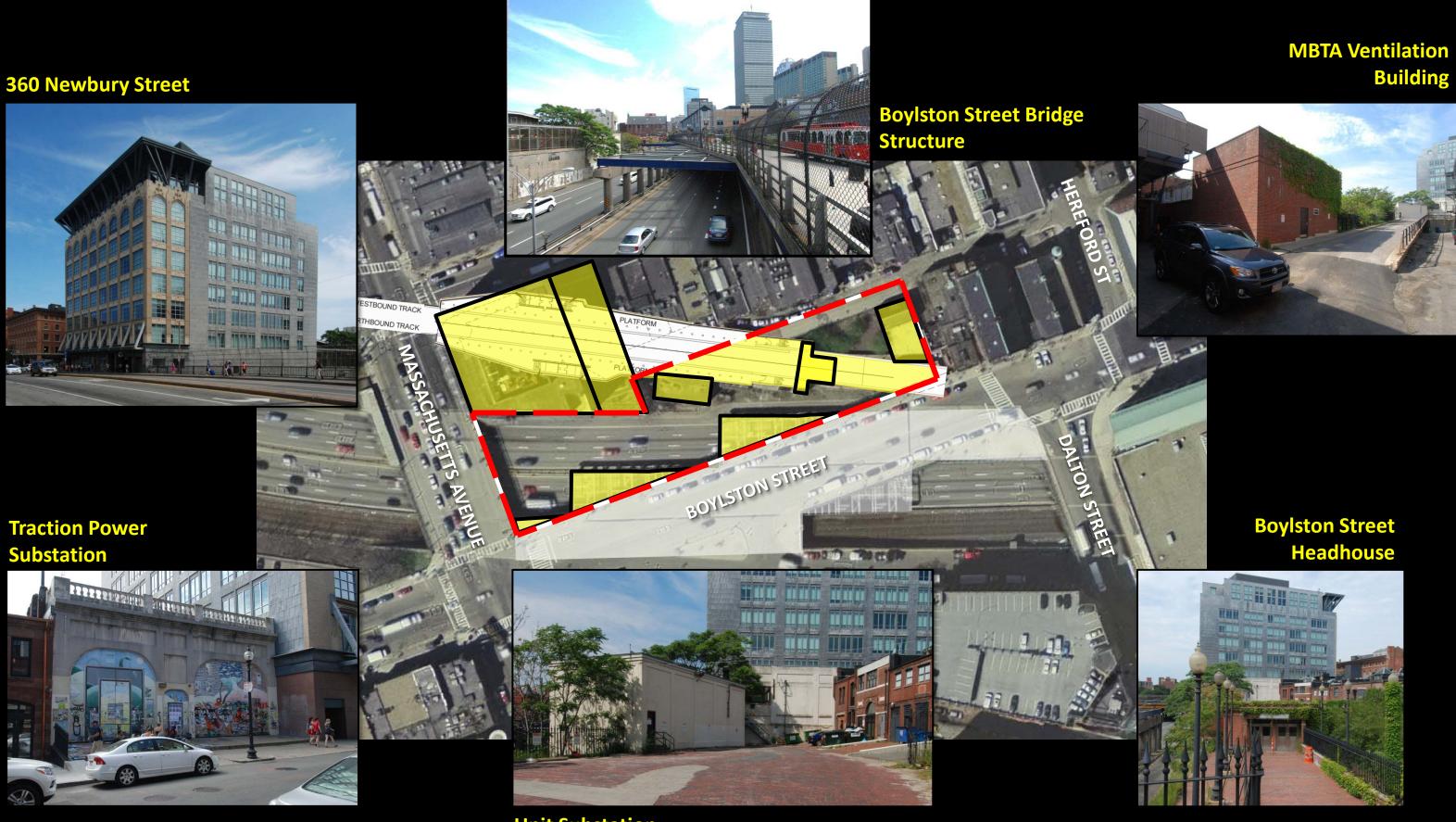




Unit Substation







Unit Substation





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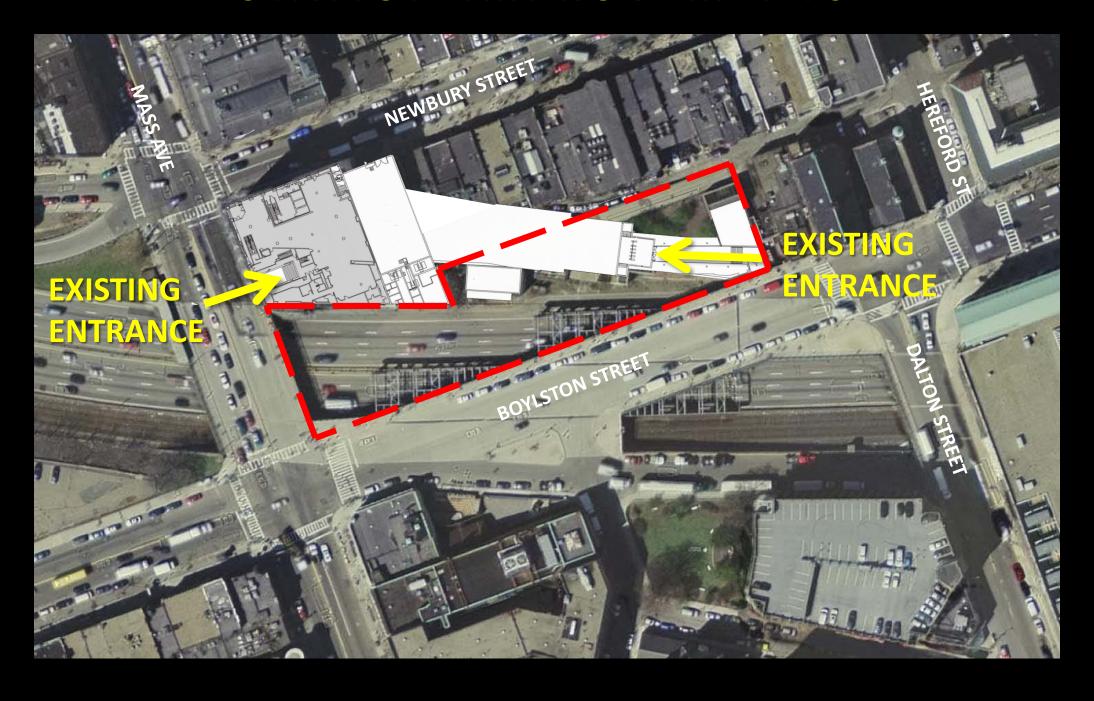
Development Options

Implementation





STATION IMPROVEMENTS

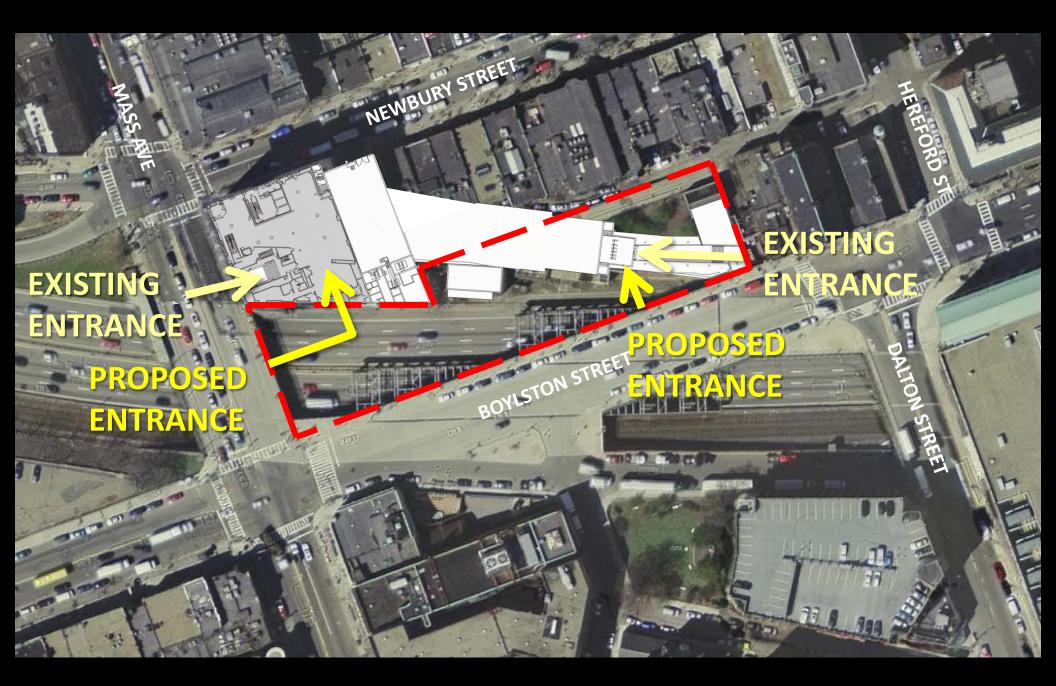




STATION IMPROVEMENTS

Replace existing entrance at <u>Mass</u> <u>Ave</u> to allow:

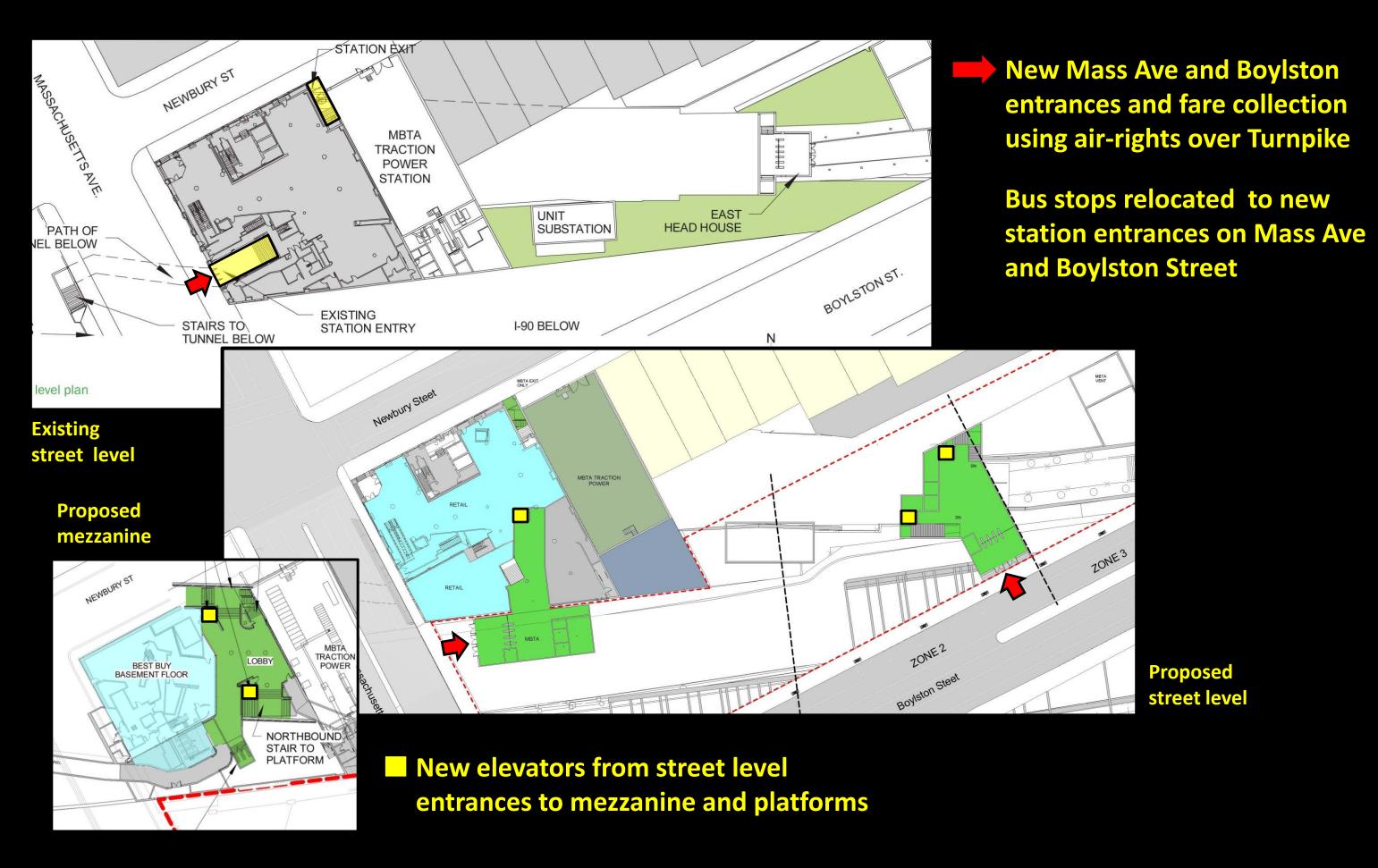
- Fare collection at street level and
- Direct elevator service to platform level



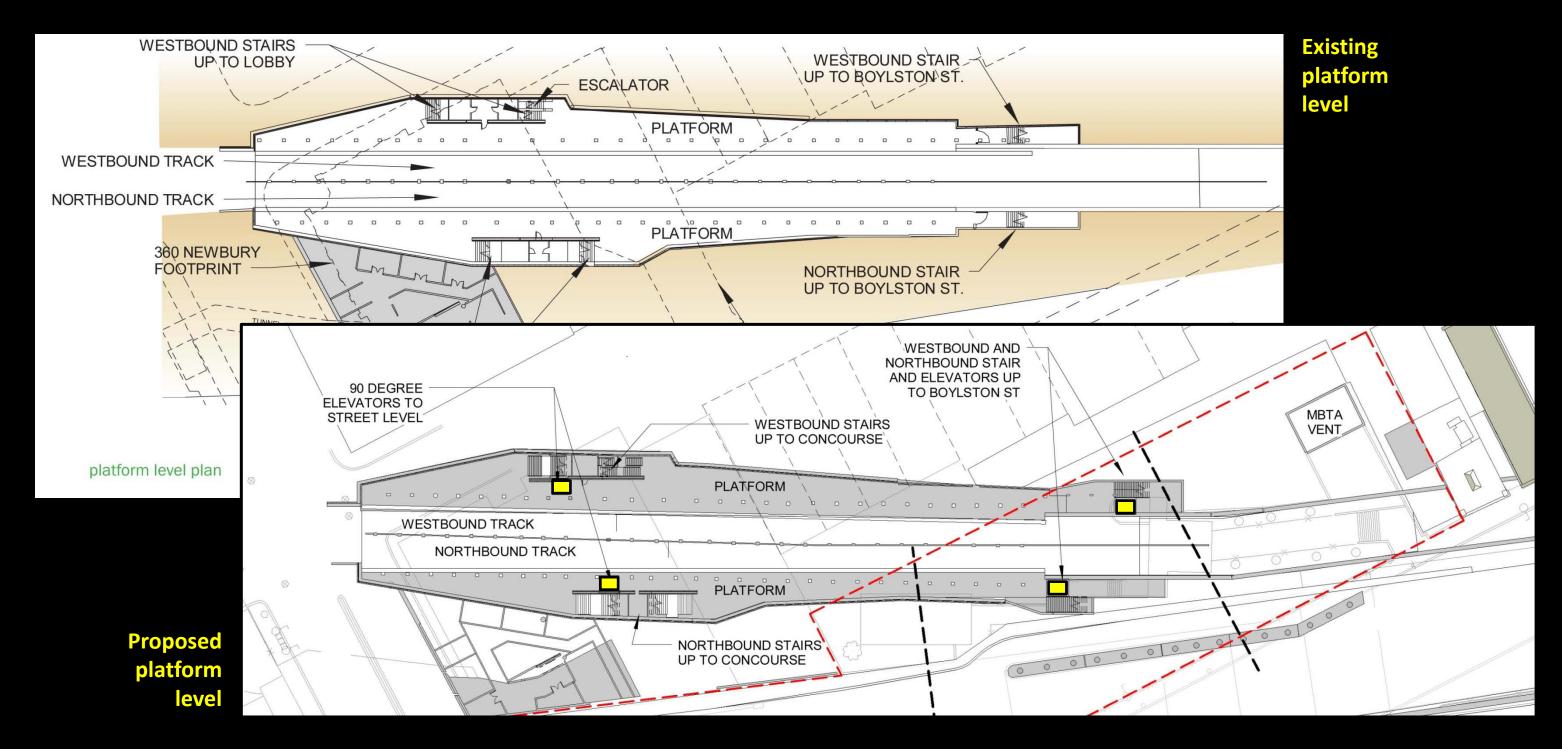
New entrance at **Boylston Street**

- Direct elevator service to platform level
- Optional fullservice entrance







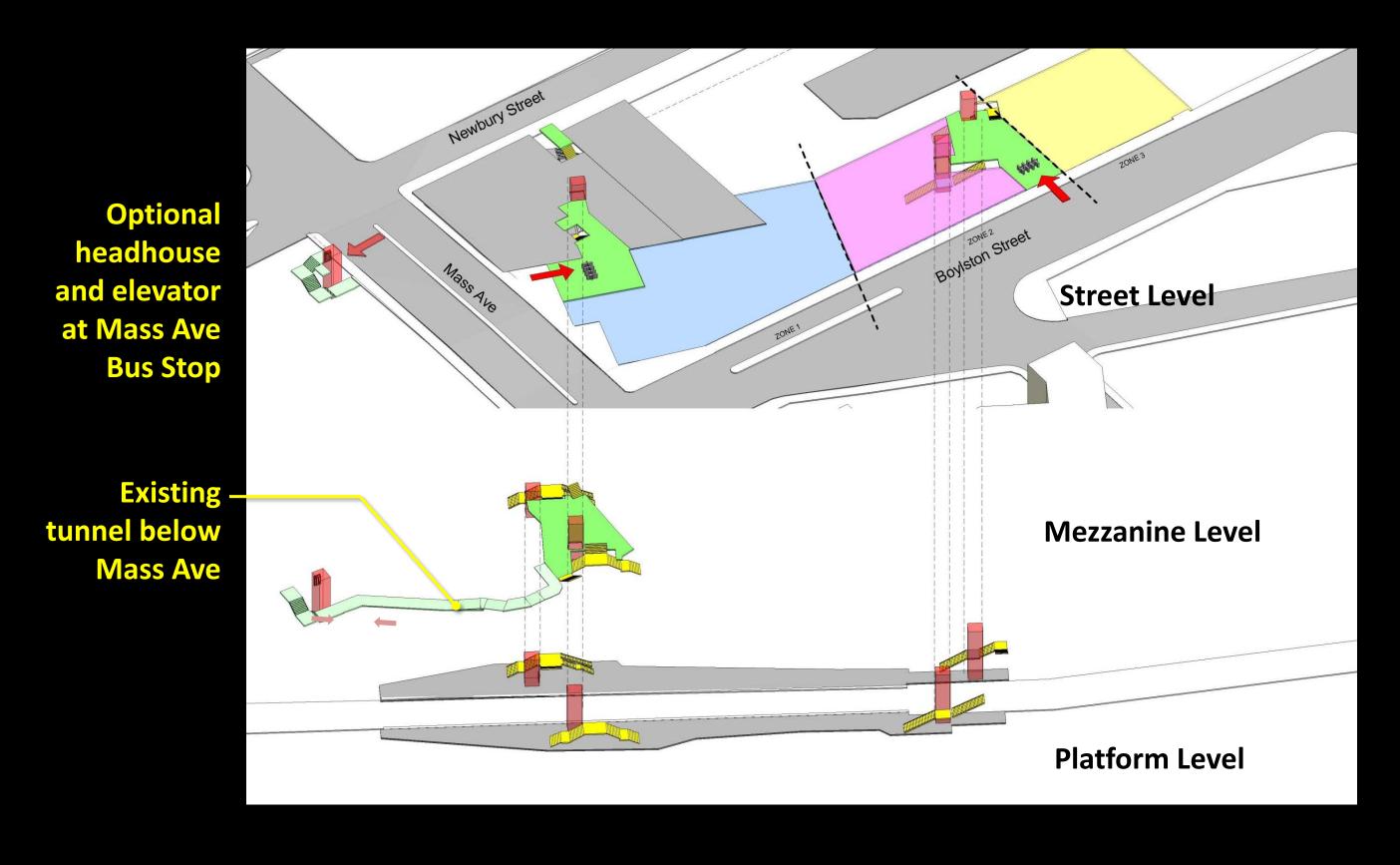


New elevators from street level entrances to mezzanine and platforms





STATION ACCESSIBILITY





PROJECT UPDATE March 3, 2014

The Site

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Parcel covers Turnpike and Green Line tunnel



Existing bridge structure covers portion of Turnpike





Limited areas for foundations





Drilled caissons provide support





Tying caissons together provides lateral support





Trusses span areas with limited space for foundations



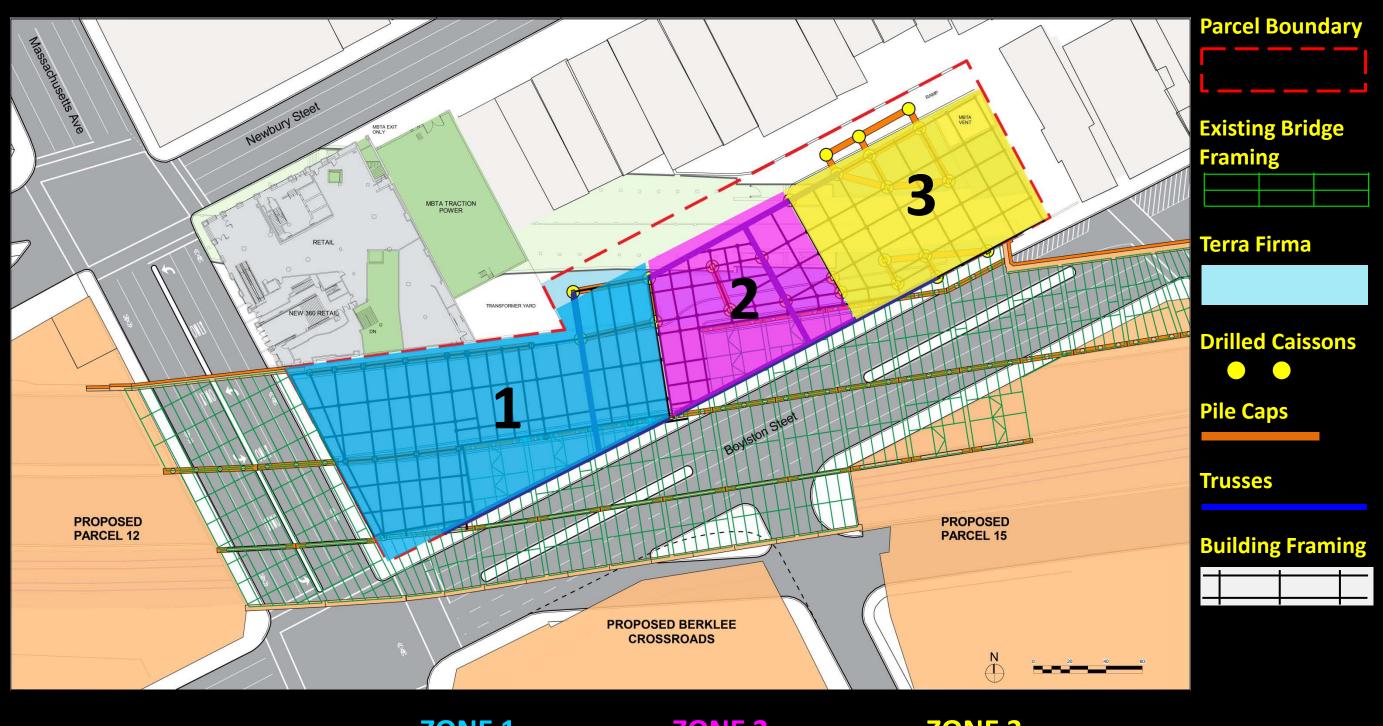


Additional framing maximizes building coverage





Structural analysis recommends three zones



ZONE 1
Most
Challenging

ZONE 2 Moderate Capacity ZONE 3
Highest
Capacity





Reduced building footprint can eliminate trusses



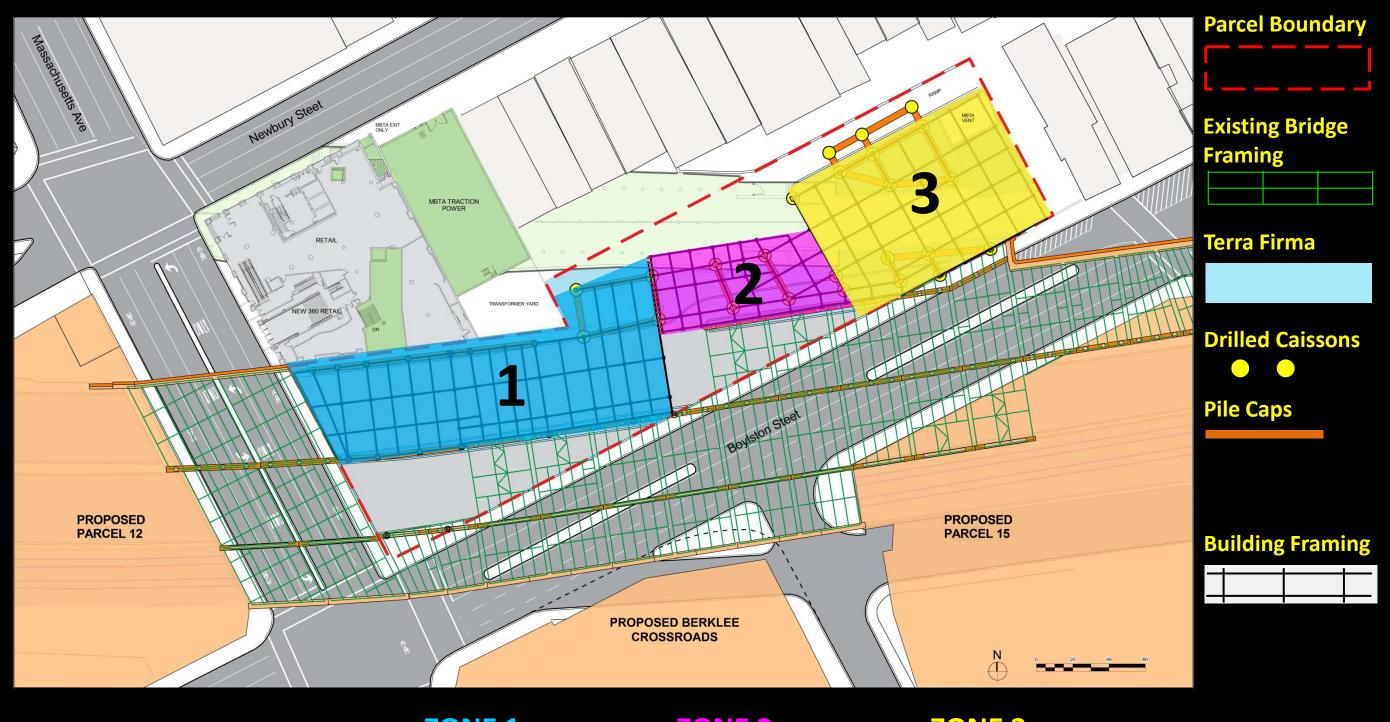


Not building over bridge supports simplifies structure

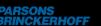




Modified building footprint reduces complexity



ZONE 1 Most Challenging ZONE 2 Moderate Capacity ZONE 3
Highest
Capacity





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Station Improvements

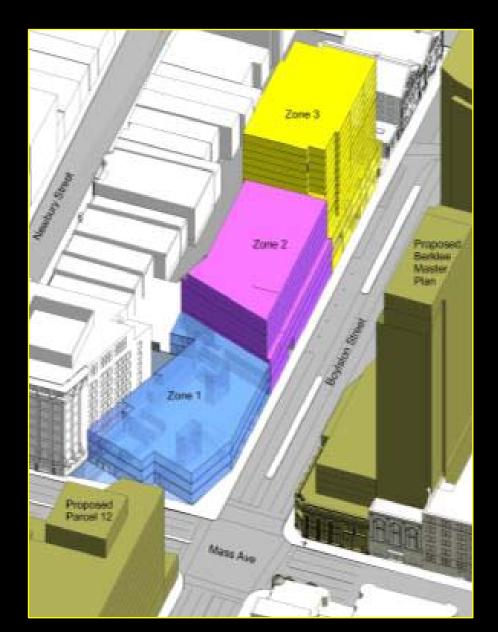
Structural Considerations

Development Options

Implementation







Option A: Maximum Floor Plate, Full Development to Boylston Street (retail, residential)

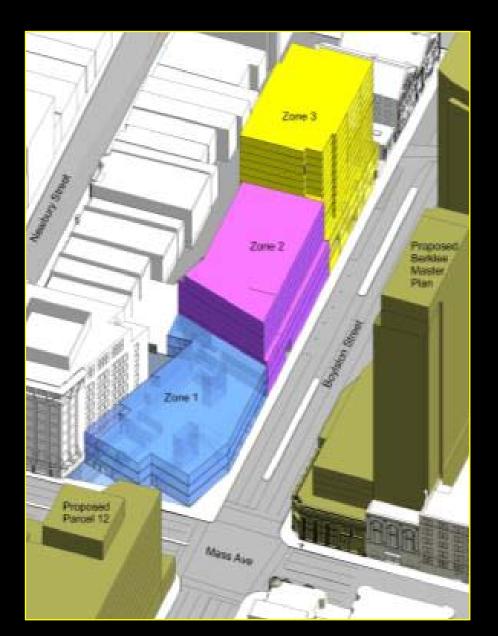
Street Level



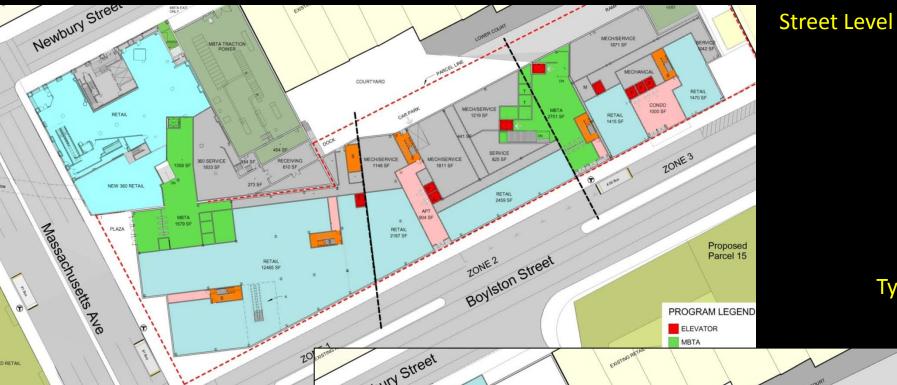
Zone 1 – 3 floors Zone 2 – 8 floors Zone 3 – 15 floors MBTA 7,588 SF
Retail 53,092 SF
Residential 174,273 SF
Parking 28,910 SF
Common 56,406 SF

Total Floor Area 320,269 SF FAR 6.0

(75% of allowable FAR)



Option A: Maximum Floor Plate, Full Development to Boylston Street (retail, residential)



Typical Upper Level

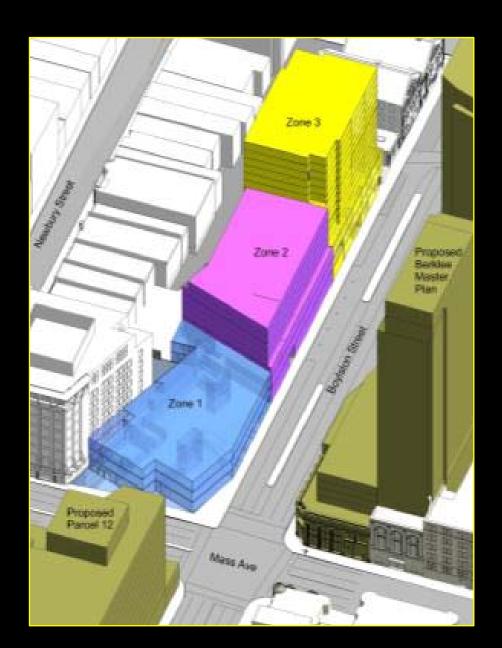
Retail Space

Zone 1-3 floors Zone 2-8 floors Zone 3-15 floors MBTA 7,588 SF
Retail 53,092 SF
Residential 174,273 SF
Parking 28,910 SF
Common 56,406 SF

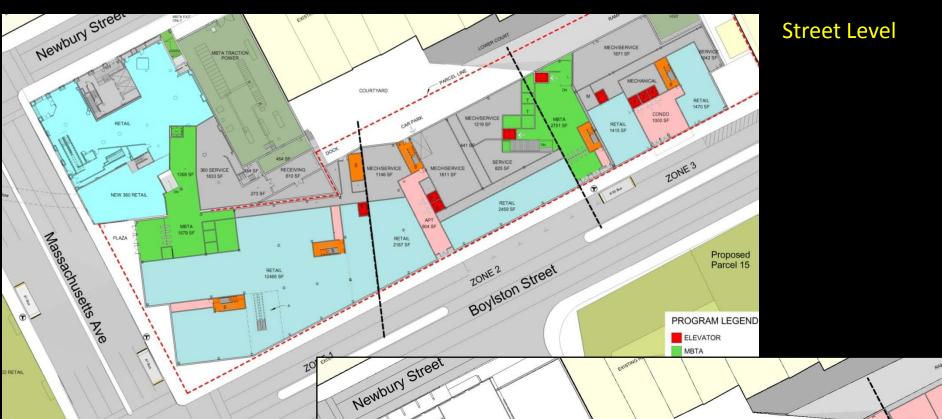
Total Floor Area 320,269 SF FAR 6.0

(75% of allowable FAR)





Option A: Maximum Floor Plate, Full Development to **Boylston Street (retail, residential)**



MBTA TRACTION

Zone 1

PROGRAM LEGEND

DECK/ROOF GARDEN ELEVATOR PARKING

RESIDENTIA

SERVICE

Roof Plan

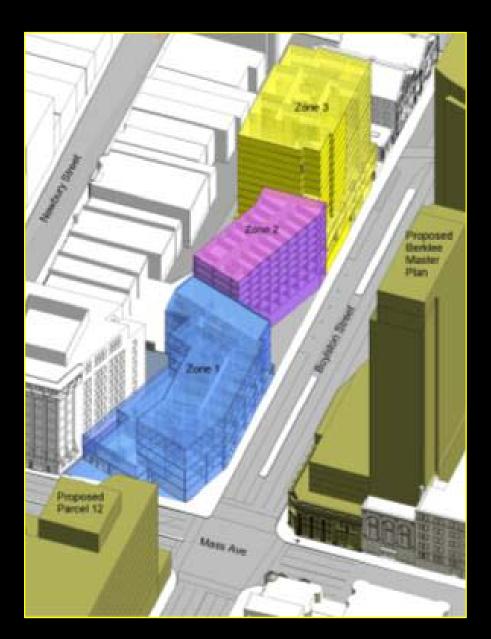
Boylston Street

Berklee School of Music

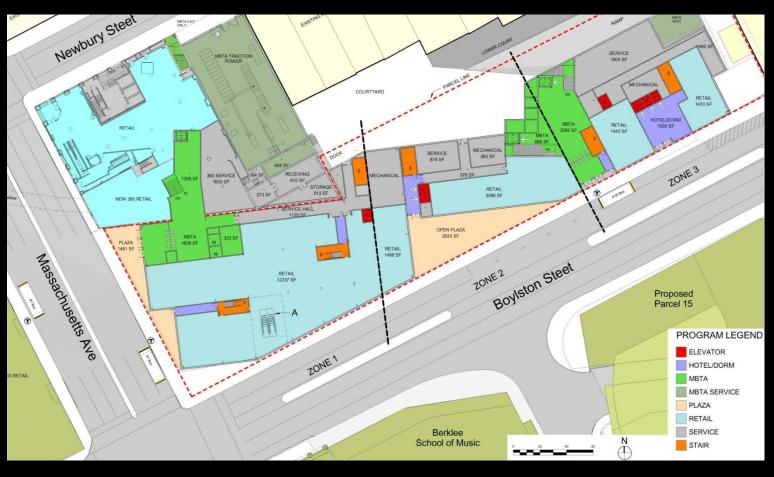
Zone 1 - 3 floors Zone 2 – 8 floors Zone 3 – 15 floors **MBTA** 7,588 SF Retail 53,092 SF Residential 174,273 SF **Parking** 28,910 SF 56,406 SF Common

Total Floor Area 320,269 SF **FAR 6.0**

(75% of allowable FAR)



Option B: Zone 1 Full Floor Plate (retail, hotel/dorm)



Street Level

Zone 1 – 5 floors

Zone 2 – 8 floors &

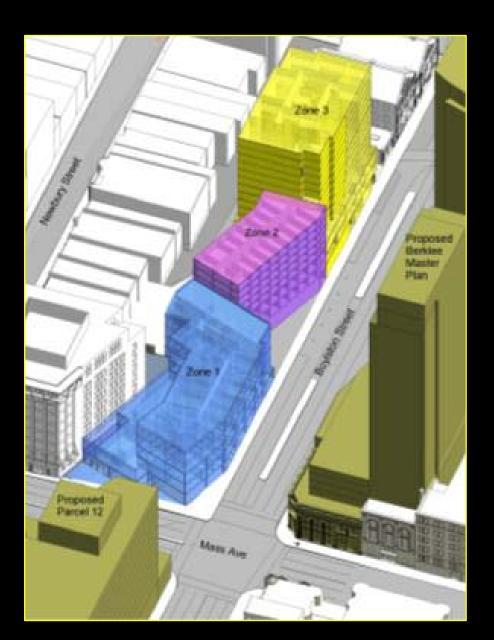
plaza

Zone 3 – 15 floors

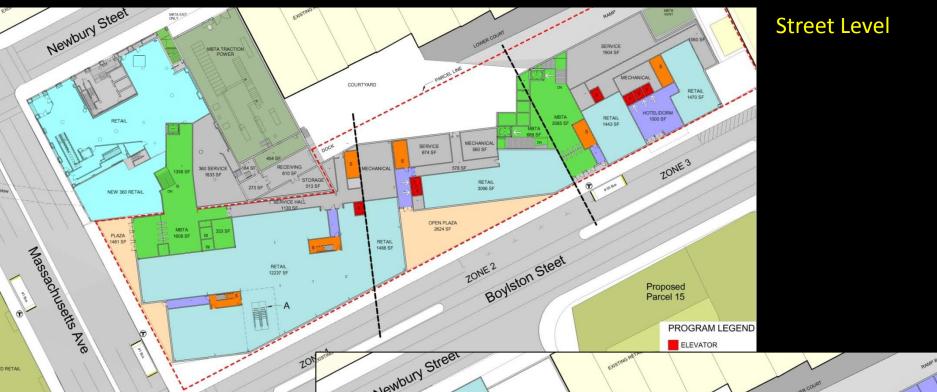
MBTA7,623 SFRetail36,059 SFResidential200,321 SFCommon52,940 SF

Total Floor Area 296,943 SF FAR 5.6

(70% of allowable FAR)



Option B: Zone 1 Full Floor Plate (retail, hotel/dorm)



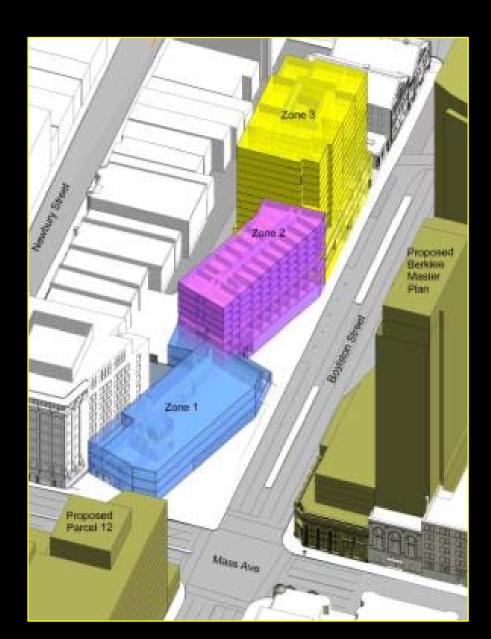
Zone 1 – 5 floors Zone 2 – 8 floors & plaza Zone 3 – 15 floors MBTA 7,623 SF
Retail 36,059 SF
Residential 200,321 SF
Common 52,940 SF

Total Floor Area 296,943 SF FAR 5.6

(70% of allowable FAR)



Typical



Option C: Massing Follows Turnpike, with Plazas (retail, hotel/dorm)



Street Level

Zone 1 – 3 floors &

plaza

Zone 2 – 8 floors &

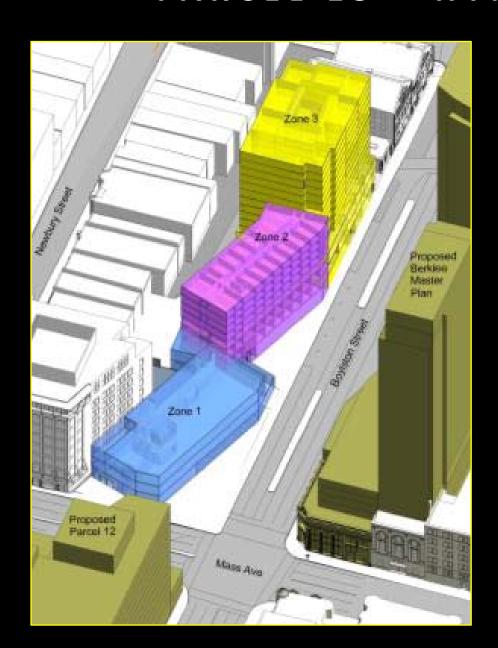
plaza

Zone 3 – 15 floors

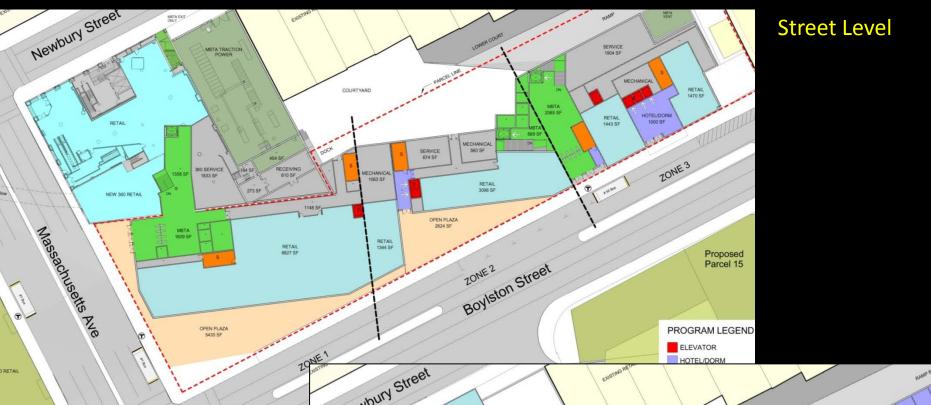
MBTA 7,623 SF
Retail 39,813 SF
Residential 173,765 SF
Common 50,475 SF

Total Floor Area 271,676 SF FAR 5.1

(64% of allowable FAR)



Option C: Massing Follows Turnpike, with Plazas (retail, hotel/dorm)



Zone 1 – 3 floors & plaza
Zone 2 – 8 floors &

Zone 3 – 15 floors

plaza

MBTA 7,623 SF
Retail 39,813 SF
Residential 173,765 SF
Common 50,475 SF

Total Floor Area 271,676 SF FAR 5.1 (64% of allowable FAR)

TONE 1

PAGM NILON

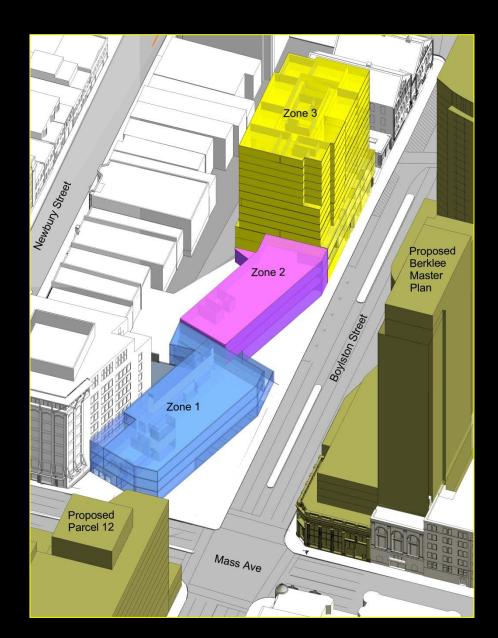
PROGRAM LEGEND

PROGRAM LEGEND

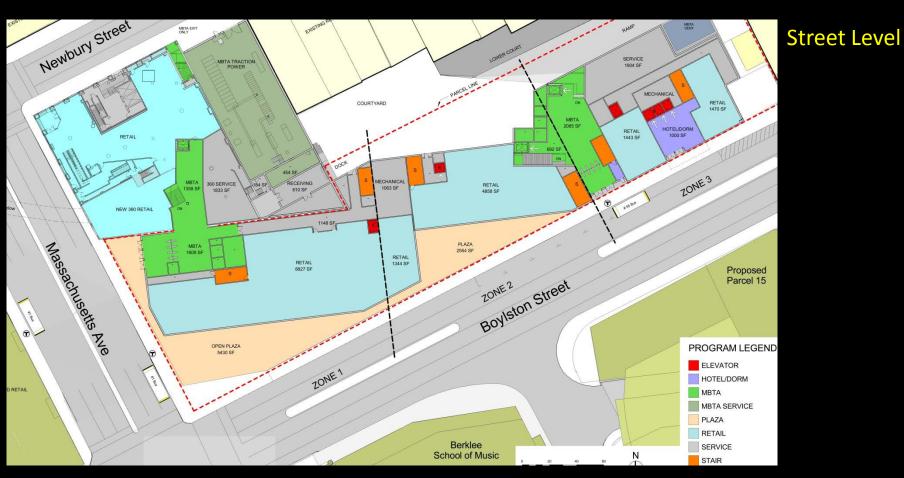
RETAL

Typical

Upper Level



Option D: Massing Follows Turnpike, with Plazas (retail, hotel/dorm)



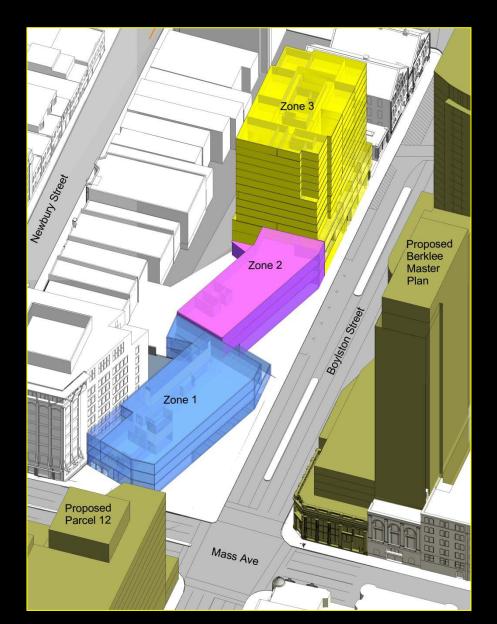
Zone 1 – 3 floors & plaza
Zone 2 – 3 floors & plaza

Zone 3 – 15 floors

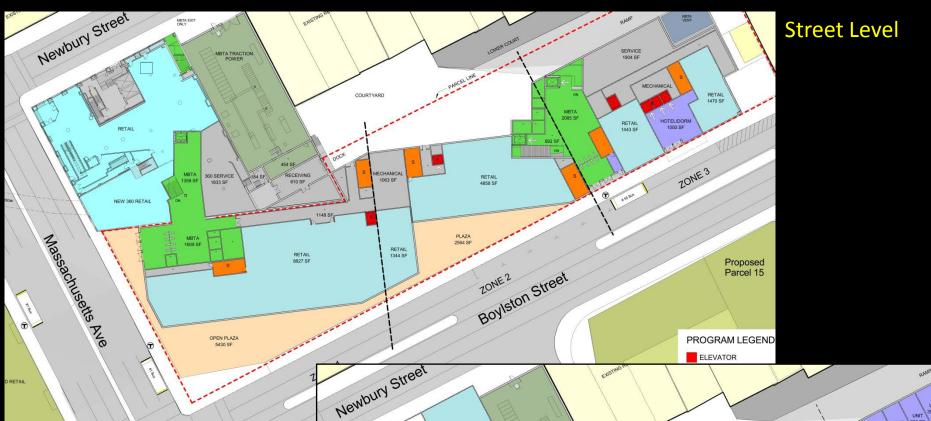
MBTA 7,623 SF
Retail 56,383 SF
Residential 143,058 SF
Common 44,989 SF

Total Floor Area 262,477 SF FAR 4.7

(59% of allowable FAR)



Option D: Massing Follows Turnpike, with Plazas (retail, hotel/dorm)



Zone 1 – 3 floors & plaza

Zone 2 – 3 floors &

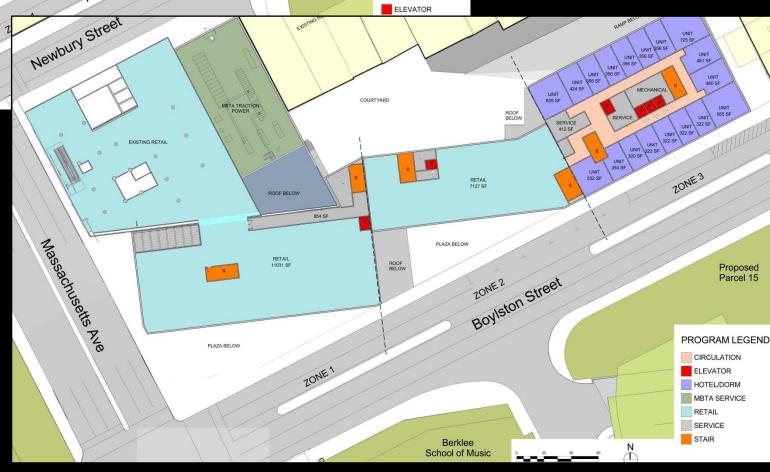
plaza

Zone 3 – 15 floors

MBTA 7,623 SF
Retail 56,383 SF
Residential 143,058 SF
Common 44,989 SF

Total Floor Area 262,477 SF FAR 4.7

(59% of allowable FAR)



Typical

Upper Level



Option E: MBTA components plus Zone 3 (residential)



Street Level

Zone 1 – MBTA only Zone 2 – MBTA only Zone 3 – 15 floors MBTA 7,174 SF
Retail 3,003 SF
Residential 117,290 SF
Common 32,249 SF

Total Floor Area 159,716 SF FAR 3.0

(38% of allowable FAR)



Option E: MBTA components plus Zone 3 (residential)



Typical

Upper Level

Street Level

Zone 1 – MBTA only Zone 2 – MBTA only Zone 3 – 15 floors MBTA 7,174 SF
Retail 3,003 SF
Residential 117,290 SF
Common 32,249 SF

Total Floor Area 159,716 SF FAR 3.0

(38% of allowable FAR)





Option F: MBTA components only



Zone 1 – MBTA only

Zone 2 – MBTA only

Zone 3 – none

MBTA 7,588 SF

Total Floor Area 7,588 SF
FAR 0.1
(2% of allowable FAR)

Street Level

Option A

Option **B**

Option **C**

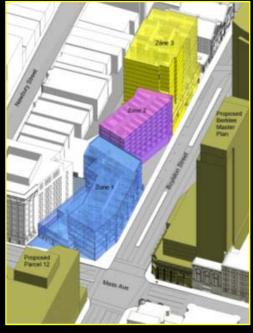
Option **D**

Option **E**

Option **F**



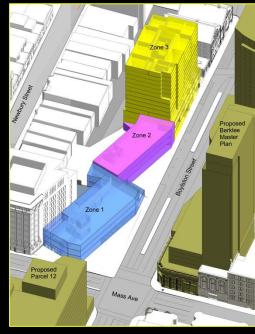
Maximize available floor plate by utilizing areas over Boylston Street bridge structure



Upper floor uses and massing in Zone 2 extends through Zone 1



Massing follows Turnpike alignment in Zones 1 and 2 - plazas cover Boylston Street bridge structure

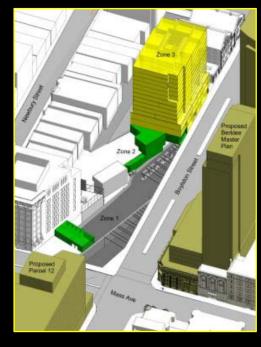


Massing follows Turnpike alignment in Zones 1 and 2 - plazas cover Boylston Street bridge structure

Zone 1 – 3 floors (w/ plaza)

Zone 2 – 3 floors (w/ plaza)

Zone 3 – 15 floors



MBTA components + Zone 3



MBTA components only

Zone 1 – 3 floors Zone 2 – 8 floors Zone 3 – 15 floors

MBTA

Retail

Parking

FAR

Common

Residential

7,623 SF **MBTA** 36,059 SF Retail 200,321 SF

Zone 2 – 8 floors (w/ plaza)

Zone 1 – 5 floors

Zone 3 – 15 floors

Residential 52,940 SF Common TOTALAREA 296,943 SF 5.6 FAR (70% of allowable FAR)

Zone 1 - 3 floors (w/ plaza) Zone 2 – 8 floors (w/ plaza) Zone 3 – 15 floors

7,623 SF **MBTA** 39,813 SF Retail 173,765 SF Residential 50,475 SF Common TOTAL AREA **271,676 SF FAR** 5.1 (64% of allowable FAR)

7,623 SF **MBTA** 56,383 SF Retail 143,058 SF Residential 44,989 SF Common TOTAL AREA **262,477 SF** 4.7 **FAR** (59% of allowable FAR)

KEY

Zone 1 – MBTA only Zone 2 – MBTA only Zone 3 – 15 floors

7,174 SF **MBTA** 3,003 SF Retail 117,290 SF Residential 32,249 SF Common **TOTAL AREA 159,716 SF** 3.0 **FAR** (38% of allowable FAR)

Zone 1 – MBTA only Zone 2 – MBTA only Zone 3 – None

MBTA 7,588 SF TOTAL AREA 7,588 SF 0.1 **FAR** (2% of allowable FAR)

Parcel Area Allowable FAR

53,130 SF 8.0 Total Allowable FAR Area 425,040 SF

7,588 SF

53,092 SF

28,910 SF

56,406 SF

6.0

TOTAL AREA 320,269 SF

(75% of allowable FAR)

174,273 SF

Zone 1

Zone 2





COST ANALYSIS

Costs:

- For Options A through E.
- All hard costs range from \$85 M to \$161 M total.
- Total Development costs range from \$106 M to \$190 M total.
- MBTA Station costs c. \$25 M, plus \$3 M in electrical costs.

Revenues:

Based on uses and areas from market analysis under current conditions.

Returns:

- Ranges for each option.
- Not definitive, only to test plausibility.
- Feasible at most optimistic assumptions.
- Probably infeasible at most conservative assumptions.
- Worth further study for average assumptions.





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DISPOSITION, PROCUREMENT, AND CONTRACTING

Disposition and Procurement:

- Single MassDOT air rights / MBTA station procurement RFP process.
- Integrated project team: air rights developer, station CM and designers.
- Developer team completes station design and procures station contractor under state bid laws.

Contracting:

- MassDOT long-term air rights lease.
- MBTA development agreement for CM and design.
- Development team contract for station construction.





FINANCING APPROACH

Air Rights:

- Air rights revenue to be applied to station costs.
- Air rights development must be self-supporting. and must produce meaningful rent revenue to help pay for the MBTA station improvements.
- MassDOT and MBTA will not subsidize air rights development.

MBTA Station:

To the extent that development revenues do not cover all station costs,
 MassDOT and MBTA will fund remaining station costs.



REQUEST FOR PROPOSALS

Structure:

- Currently pursuing single RFP for the integrated development team.
- Selection process will consider station designer qualifications, developer qualifications, proposal quality, and air rights rent offer.
- Complete information available to qualified bidders, including feasibility study.

Timing and review:

- Plan to issue in April.
- Four-month response period to ensure wide marketing, allow for team formation, address design complexity, and field developer questions.
- Proposals due in August.
- Review and further rounds August to September.
- As in the past, proposers to present to the CAC. MassDOT and MBTA to seek input from the CAC and BRA.





END OF SHOW

