

Virtual Public Meeting

December 9, 2020



boston planning & development agency



ZOOM TIPS

Your controls are at the bottom of the screen:



Use the chat to type a comment or ask a question at any time – Joe Blankenship, Charlotte Ong, and Sam Devine from the project team will moderate the chat





To raise your hand, click on "Participants" at the bottom of your screen, and then choose the "Raise Hand" option in the participant box



Mute/unmute – Participants will be muted during the presentation – the host will unmute you during discussion if you raise your hand and it is your turn to talk



Turns your video on/off

MEETING RECORDING

The BPDA will be recording this meeting and posting it on the PLAN: South Boston Dorchester Avenue project webpage at web: bit.ly/plandotave for those who are unable to attend the Zoom meeting live. The recording will include the presentation, Q&A, and public comments afterwards. Also, it is possible that participants may be recording the meeting with their phone cameras or other devices. If you do not wish to be recorded during the meeting, please turn off your video camera and leave your microphone muted.

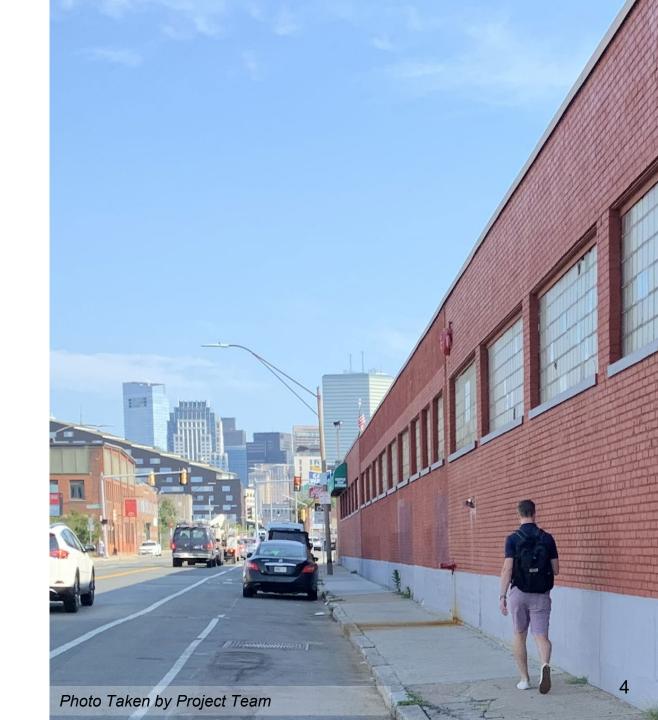


WELCOME!

The purpose of this Virtual Open House is to:

- Describe progress made since our last Virtual Open House
- Share the results of our analysis on future demands on the road and transit network
- Present our draft recommendations for feedback

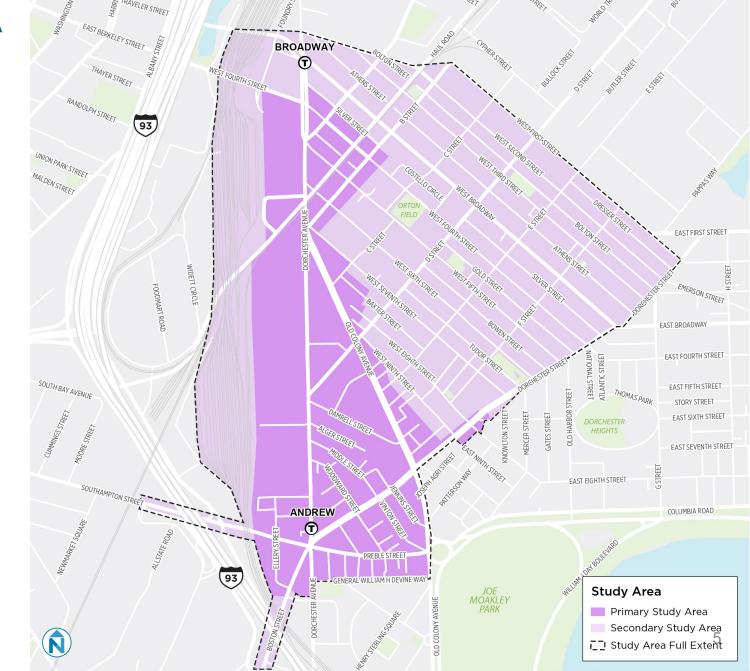




PROJECT STUDY AREA

Purple shaded area shows the project study area

- Primary study area is consistent with PLAN: South Boston Dorchester Avenue
- Secondary study area is slightly larger and includes influence areas on the transportation network





PROJECT TIMELINE

2019

Spring

- Mobilize the team
- Collect data
- Review results of previous plans and other efforts underway

Fall/Winter

Conduct site visits

Analyze existing conditions

- Identify goals and objectives
- Create evaluation framework
- Prepare future forecasting methods

Summer

- Host public meeting #1
- Analyze future conditions

2020

- Evaluate previous PLAN ideas
- Develop short-term recommendations
- Develop a long list of long-term recommendations

Fall/Winter

2021

- Refine immediate-term recommendations
- Develop long-term recommendations
- Host public meeting #2
- Document findings and recommendations into
 the Plan
- Host public meeting #3

We are here

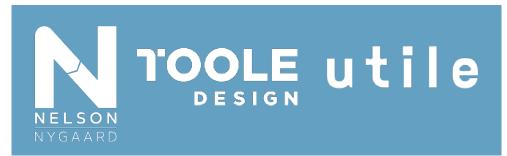
PROJECT TEAM

City of Boston Project Team

Boston Planning and Development Agency (BPDA)

- Jim Fitzgerald Transportation & Infrastructure Planning
- Joe Blankenship Transportation & Infrastructure Planning
- Mary Knasas Neighborhood Planning
- Charlotte Ong Neighborhood Planning
- Mark McGonagle Neighborhood Planning
- Prataap Patrose Neighborhood Planning
- Matt Martin Urban Design
- Chris Busch Climate Change & Environmental Planning
- Stephen Harvey Development Review
- Raul Duverge Development Review

Consultant Team



Boston Transportation Department (BTD)

- Pat Hoey Transportation Planning
- Matt Moran Transit Team
- Stefanie Seskin Active Transportation
- Amy Cording Engineering

Boston Public Works Department (PWD)

Zach Wassmouth – Engineering Division

Boston Water & Sewer Commission (BWSC)

- Irene McSweeney
- Charlie Jewel

Mayor's Office of Neighborhood Service (ONS)

Haley Dillon – South Boston Liaison

Agency Partners







PROJECT OVERVIEW



ALIGNED WITH PREVIOUS EFFORTS

PLAN South Boston Dorchester Avenue Project Vision

A walkable neighborhood with improved public transportation

- Walkable sidewalks and bikeable streets
- Less traffic congestion
- Cycling opportunities for people of all ages

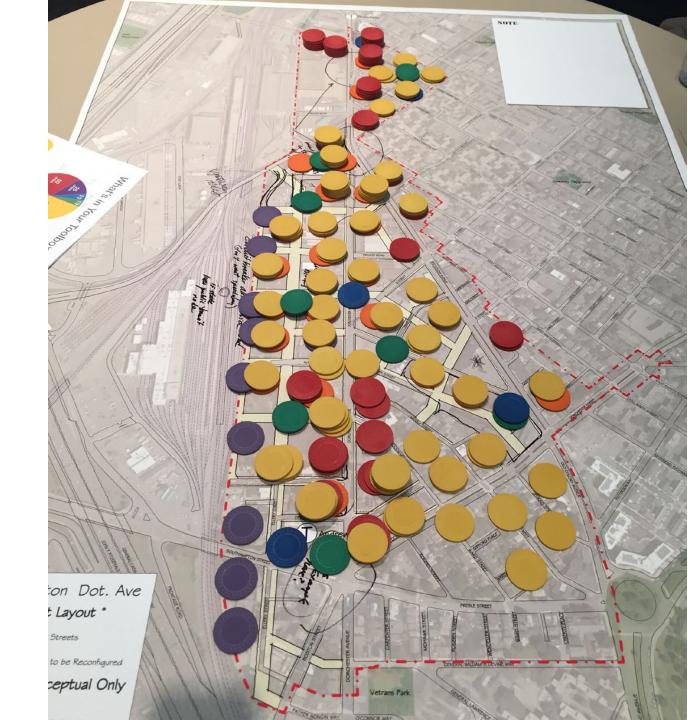
A neighborhood with amenities

- Retail and other services
- Civic/Cultural/Art spaces
- New and varied open spaces

A diversity of housing types

- Live/work opportunities
- Tall apartment buildings
- Smaller housing units preserving existing character



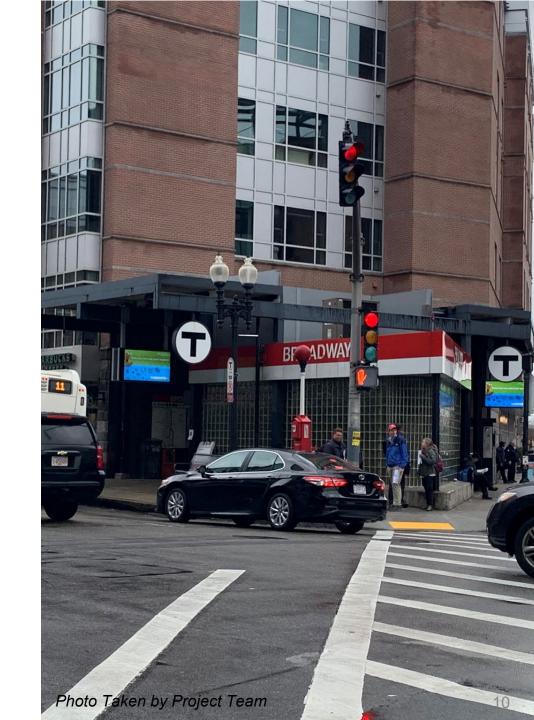


HOW PLAN: SOUTH BOSTON DORCHESTER AVENUE IS ALIGNED WITH THE CURRENT EFFORT

The current effort picks up where PLAN South Boston Dorchester Avenue left off, and addresses the following questions:

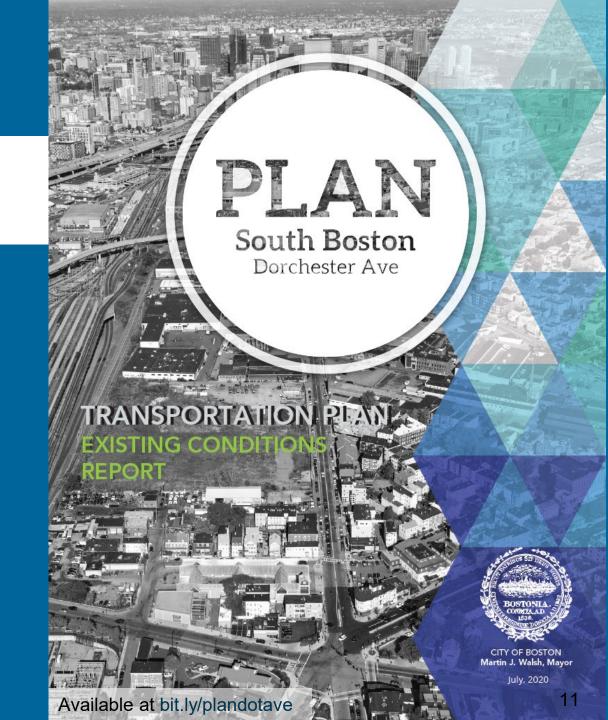
- What has changed between 2016 and today?
- Will the recommended transportation network from the PLAN accommodate future growth?
- How do we best maintain safety, access, and neighborhood vitality in this environment of change?





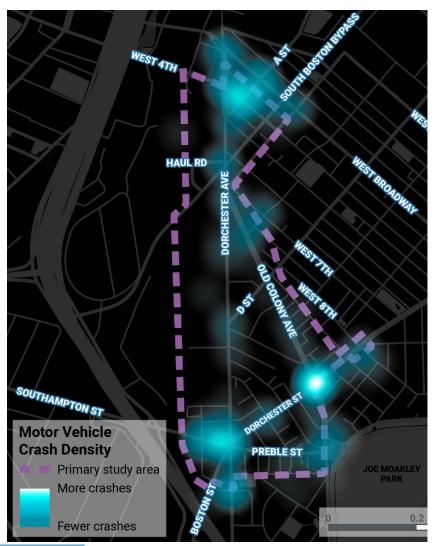
SUMMARY OF EXISTING CONDITIONS

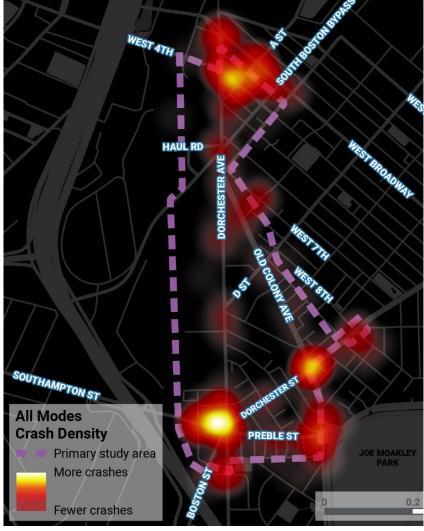
- At our July 2020 public meeting we presented the results of our existing conditions analysis
- We will go through these findings at a very high level in the next few slides
- The full Existing Conditions Report is available on the BPDA's website at bit.ly/plandotave



EXISTING CONDITIONS Safety (Crash History: 2015-2019)

- Vehicle crashes are highest at the intersection of Dorchester St and Old Colony (20 crashes)
- Overall, crashes are concentrated at the gateways to the study area
- We acknowledge the recent and tragic crashes in the vicinity of Andrew Square





EXISTING CONDITIONS Transit



During the morning rush hour, the most crowded part of the red line is the section between Andrew, Broadway, and South Station

Photo Credit: Dorchester Reporter

Buses have reliability concerns because they travel in mixed traffic, and get caught up in regular traffic congestion



Photo Credit: Google Maps

EXISTING CONDITIONSWalking and Bicycling

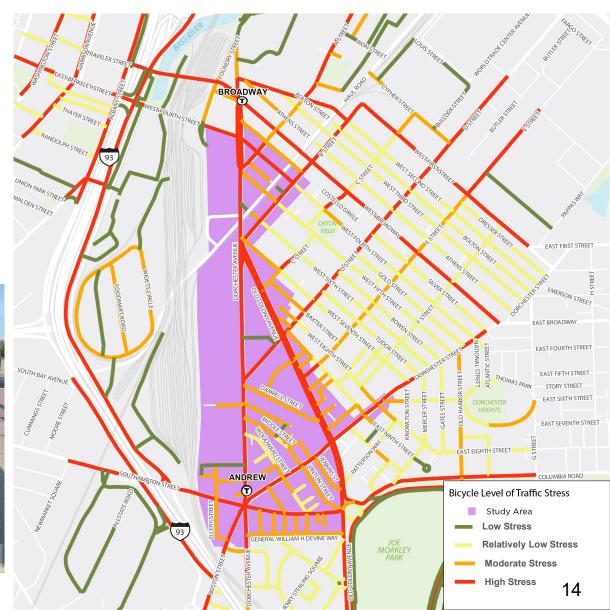
- There are crucial gaps in the existing network of bicycle infrastructure
- At Andrew Square in particular, there are a lot of crossings outside the marked crosswalk locations

However, sidewalk conditions are poor

throughout the study area, discouraging walking and compromising ADA accessibility



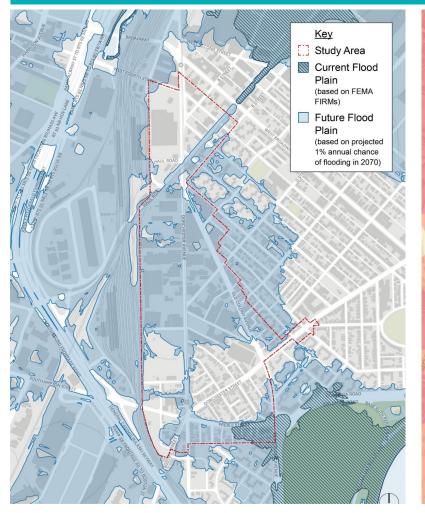


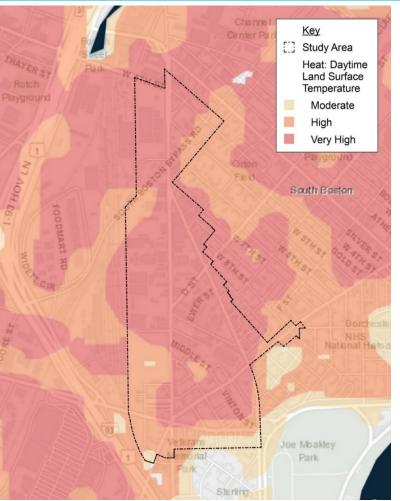


EXISTING CONDITIONS Climate Change

The study area will be affected by both coastal and stormwater flooding

The study area will also be affected by extreme heat, exacerbated by a lack of tree cover









FINDINGS FROM FUTURE CONDITIONS ANALYSIS



FUTURE CONDITIONS Overview

- The future conditions analysis tells us what kind of transportation changes are needed to serve anticipated land uses
- We define "future" as what the study area looks like in the year 2040 and assumes full build out of the PLAN
- Land uses are consistent with PLAN: South Boston Dorchester Avenue





FUTURE CONDITIONS Analysis Methods: Four Steps

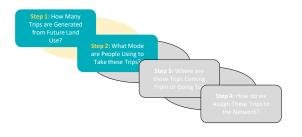
Step 1: How Many Trips are Generated from Future Land Use?

Step 2: What Mode are People Using to Take these Trips?

Step 3: Where are those Trips Coming From or Going To?

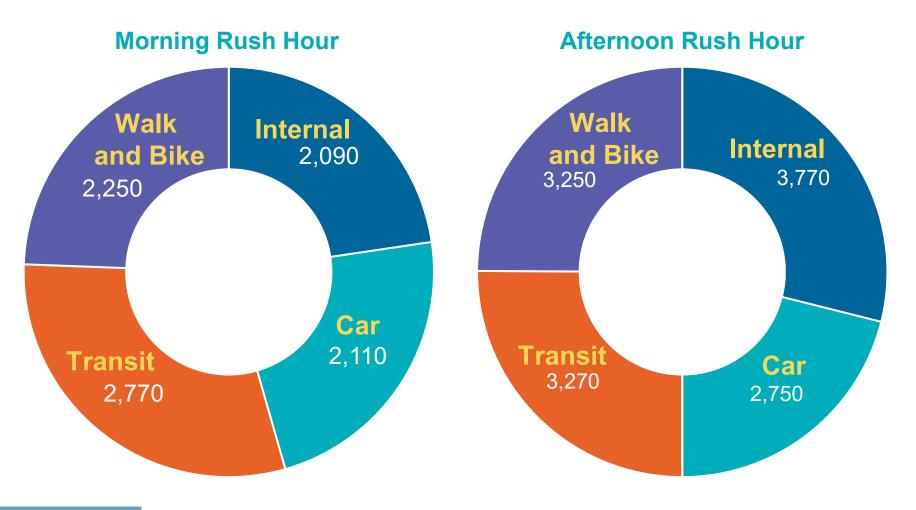
Step 4: How do we Assign These Trips to the Network?

FUTURE CONDITIONS Identifying Future Trips from Land Use

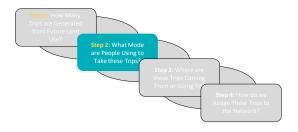


These charts show the number of trips generated from expected development by 2040

We know that mode split in the study area will be different from today

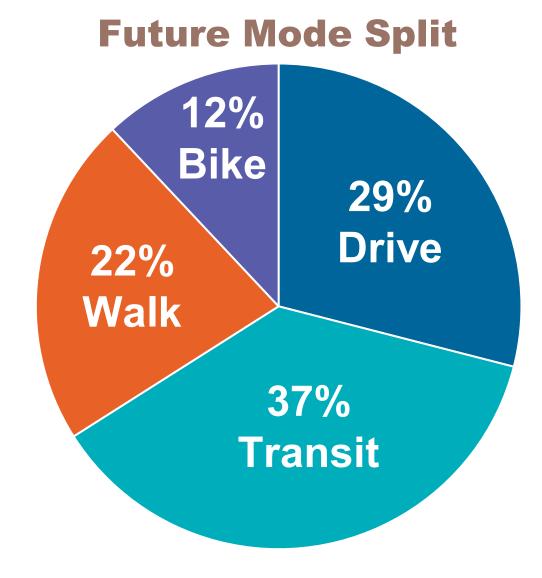


FUTURE CONDITIONS Mode Split



Mode split means the mix of methods of travel that people are expected to use for their trips

We look at City efforts like GoBoston 2030 for guidance on mode split



FUTURE BICYCLE AND PEDESTRIAN CONSIDERATIONS

FUTURE CONDITIONS Traffic Analysis – Bicycling and Walking Considerations

- There are many more walkers and bicyclists anticipated in the future
- Safety for these users is most critical, especially at Andrew Square
- Low stress bicycle network for comfortable riding
- Reduced delay for people walking



FUTURE TRANSIT CONSIDERATIONS

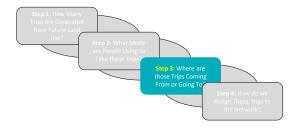
FUTURE CONDITIONS Transit Analysis: Overview

- Explores the demands on the transit system from future land uses
- The analysis makes several assumptions related to future transit network investments
 - Subway
 - Commuter rail
 - Silver Line
 - Bus
- The only future transit investments assumed are those under construction, or where construction funds have been secured

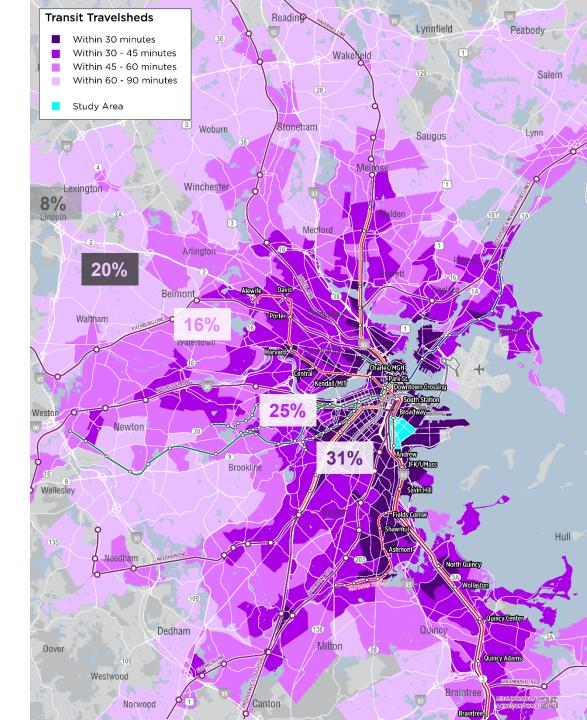


Photo Credit: MassLive.com

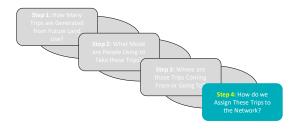
FUTURE CONDITIONS Transit Analysis: Distributing Trips



The map shows where trips in the study area are assumed to be coming from, and going to

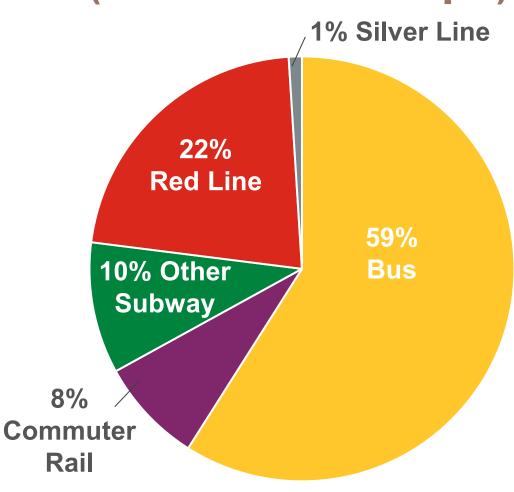


FUTURE CONDITIONS Transit Analysis: Assigning Trips



We assign trips to specific transit routes depending on direction and time of day
This pie chart shows one example (outbound, afternoon)

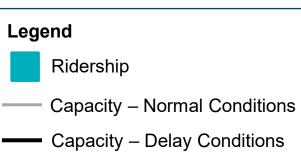
Transit Trip Assignment (PM Outbound Example)

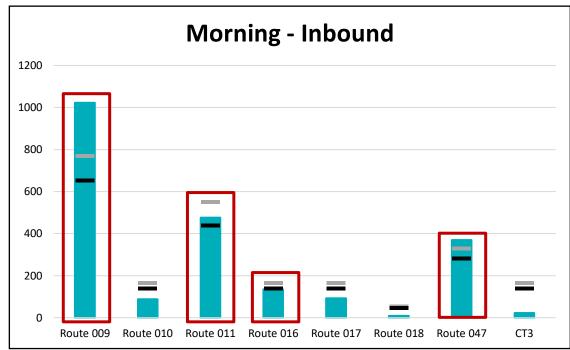


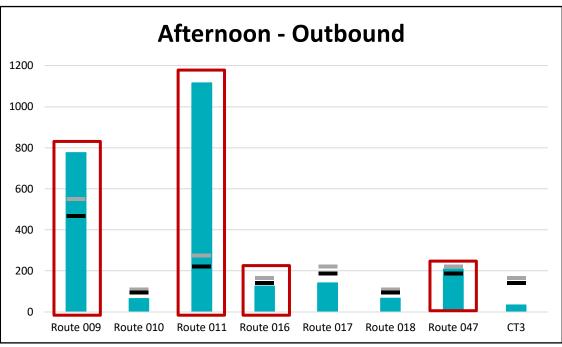
FUTURE (2040) CONDITIONS Transit Analysis – Findings

- Similar to existing conditions, demand is greater than capacity in the *peak direction*, meaning inbound in the morning and outbound in the afternoon
- We see crowding concerns on the Routes 9, 11,
 16, and

 Legend
 Ridership



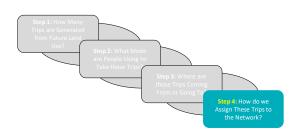




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FUTURE TRAFFIC CONSIDERATIONS

FUTURE CONDITIONS Network Analysis



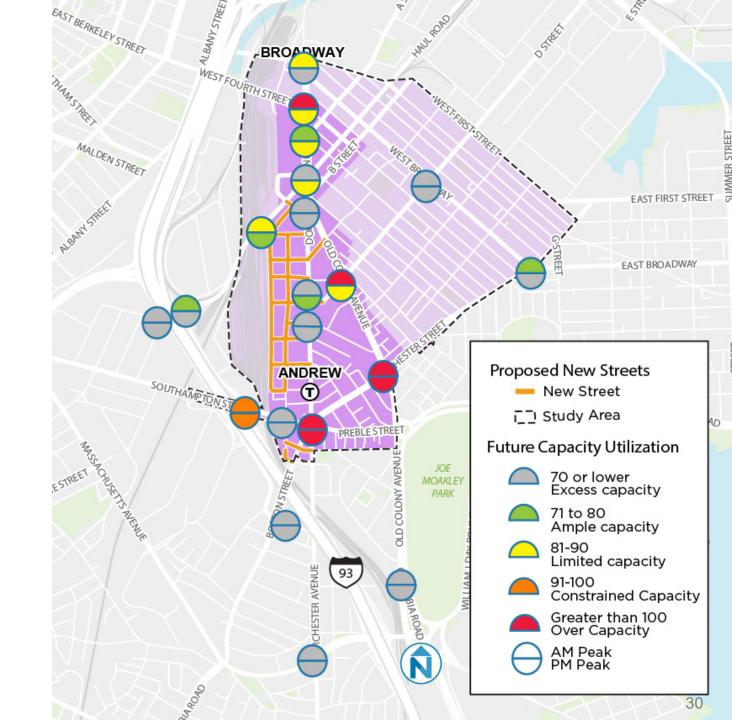
The network provides many access routes in and out of the study area

This is important in understanding the expected future volume of traffic on the roads

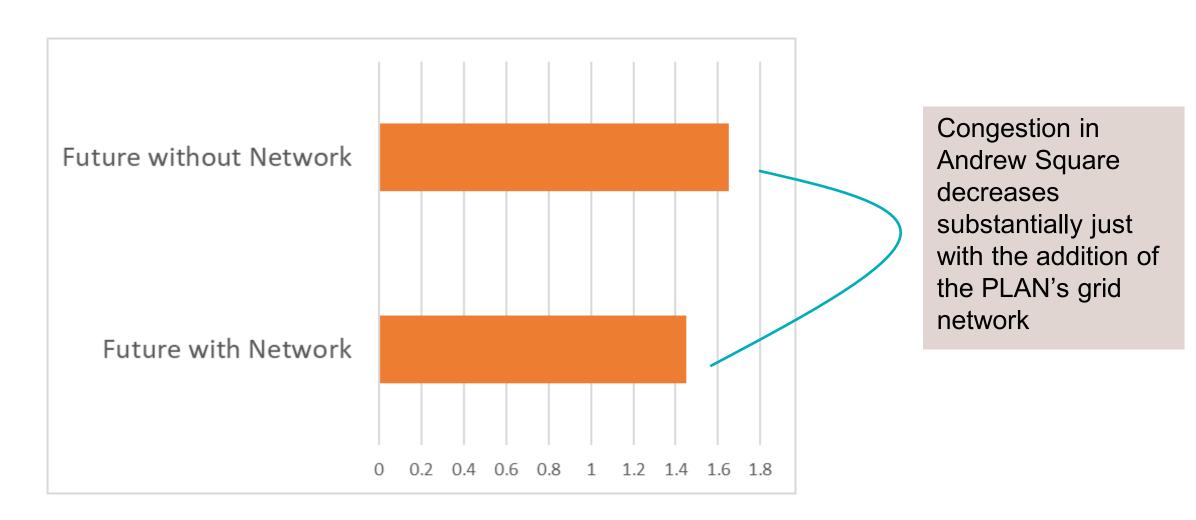


FUTURE CONDITIONS Traffic Analysis – Congestion

- The PLAN Dot Ave planned street network allows many trips to avoid the most congested intersections
- The most critical congestion issues remain at Andrew Square and Old Colony/Dorchester Street



THE NETWORK IS CRITICALLY IMPORTANT Andrew Square Example – With Long-Term Investments





DRAFT RECOMMENDATIONS



DRAFT RECOMMENDATIONS

Recommendations are intended to:

- Address safety and capacityrelated concerns
- Accommodate travel-related demand today and in the future
- Provide travel options
- Align with the goals and the vision of PLAN: South Boston Dorchester Avenue

A mixture of immediate-term and long-term



SHORT-TERM RECOMMENDATIONS

Short-term recommendations are

- Generally implementable within the next 5 years
- Within City control to build
- Relatively low cost
- Provide safety benefit
- Fit within current right-of-way
- Compatible with and complementary to longer-term efforts
- Could be implemented or advanced by development teams

Low-stress bike lanes



Bus lane pilots



Pedestrian crossings





LONG-TERM RECOMMENDATIONS

Long-term recommendations are those address needs identified over the next 20 years

- Safety
- Mobility
- Connectivity

Cost is not the deciding factor

They could be implemented by the City of Boston, or by others

Roadway reconstruction **Froje** A new trai Examp Roundabout

TRANSIT RECOMMENDATIONS

Ideas We Will Forward to MassDOT and the MBTA

TRANSIT RECOMMENDATIONS

- Red Line Transformation is assumed in future transit analysis
- This investment absorbs most of the future transit demand
- Remaining and unmet demand is on the bus network
 - New connections
 - Additional bus service on existing routes

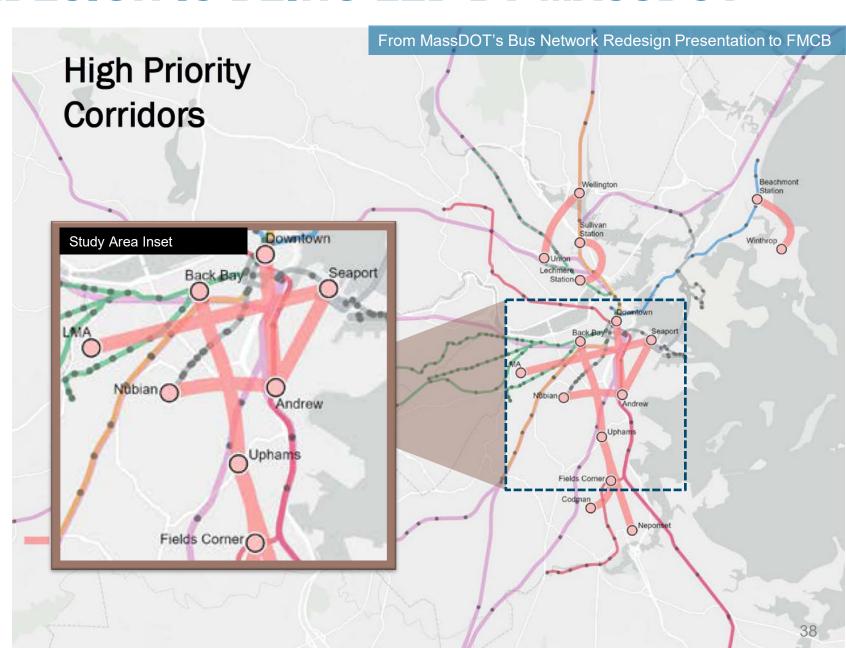
Agency Coordination

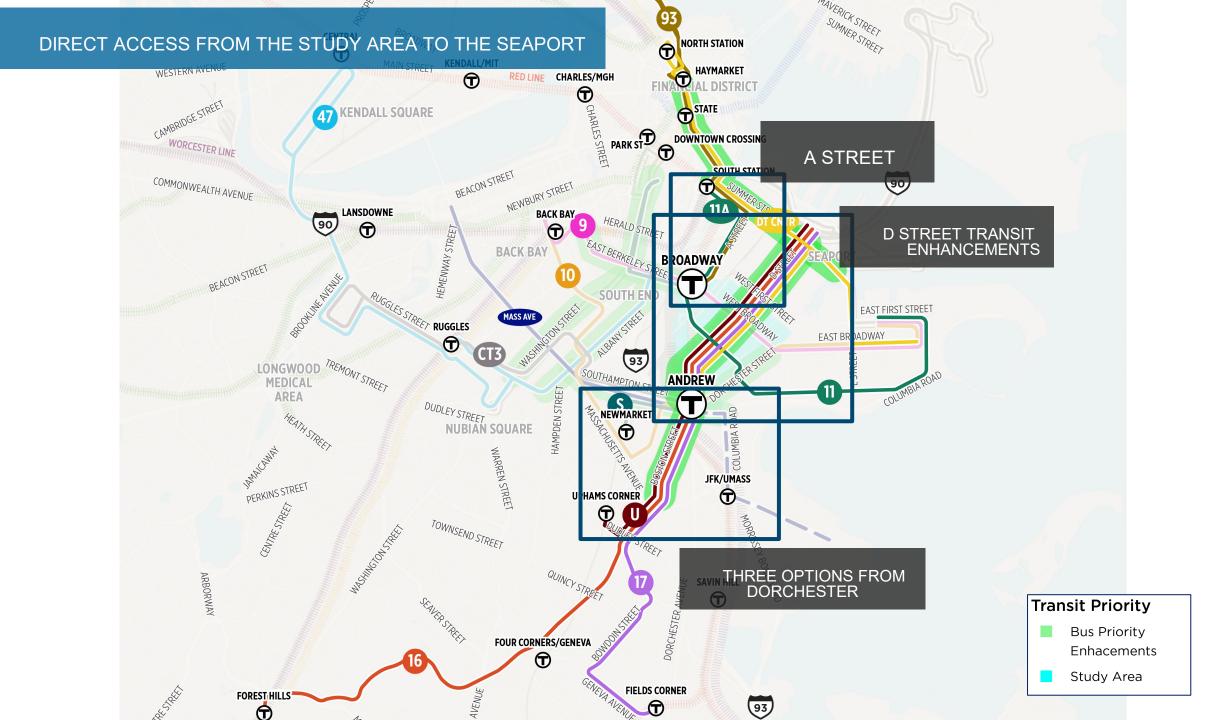
All the transit ideas we show here will be shared with MassDOT and the MBTA for their consideration

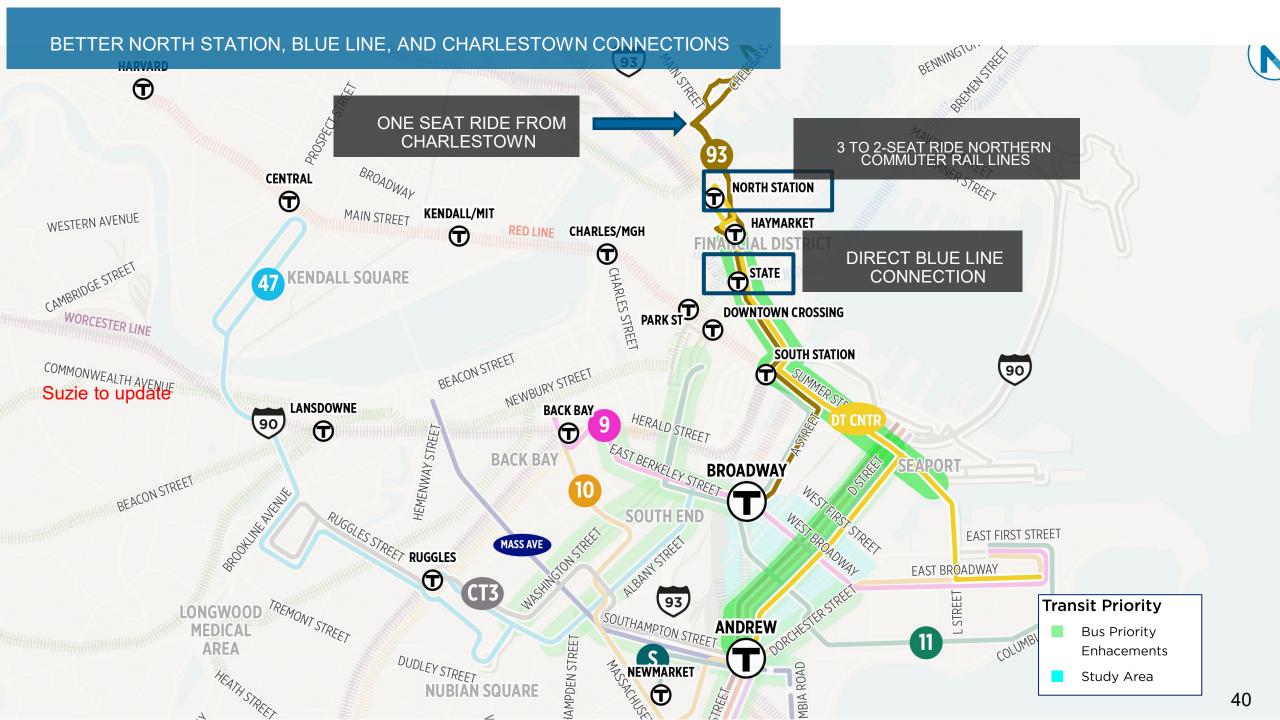


BUS NETWORK REDESIGN IS BEING LED BY MASSDOT

- Bus Network Redesign is currently underway by MassDOT and MBTA
- They have identified several high priority transit corridors in our study area
- This section organizes our transit ideas by need and opportunity
- We will forward these ideas to MassDOT to consider as part of Bus Network Redesign



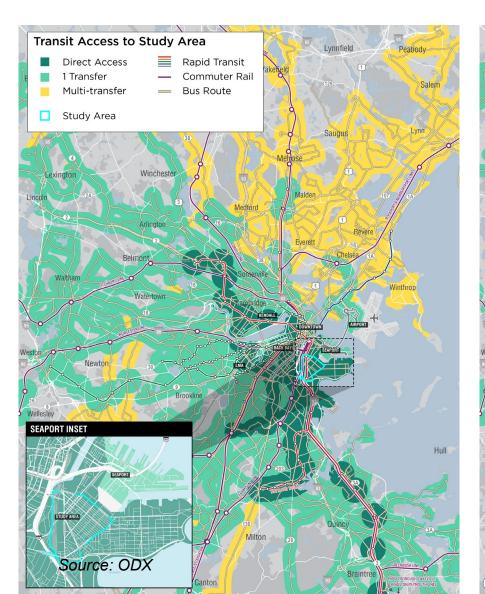


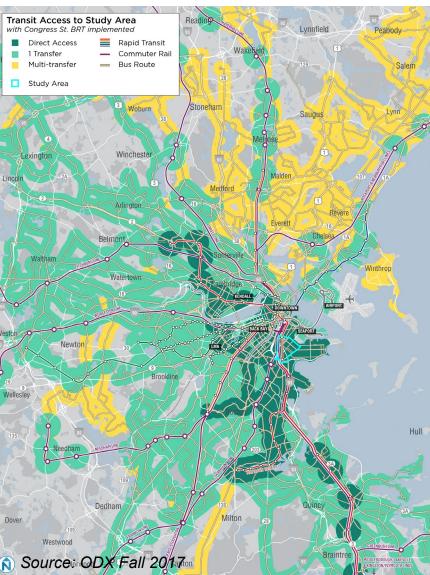


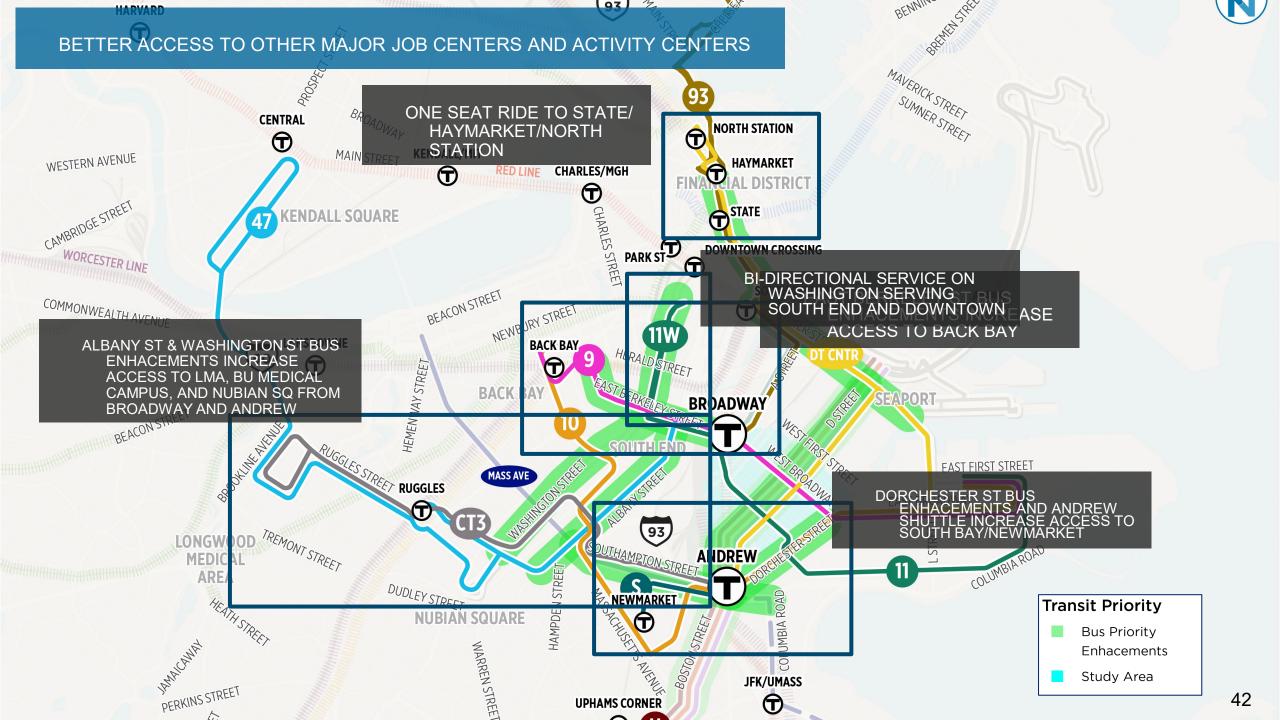
IMPROVED ACCESS FROM A BUS RAPID TRANSIT CONNECTION BETWEEN NORTH AND SOUTH STATION ALONE

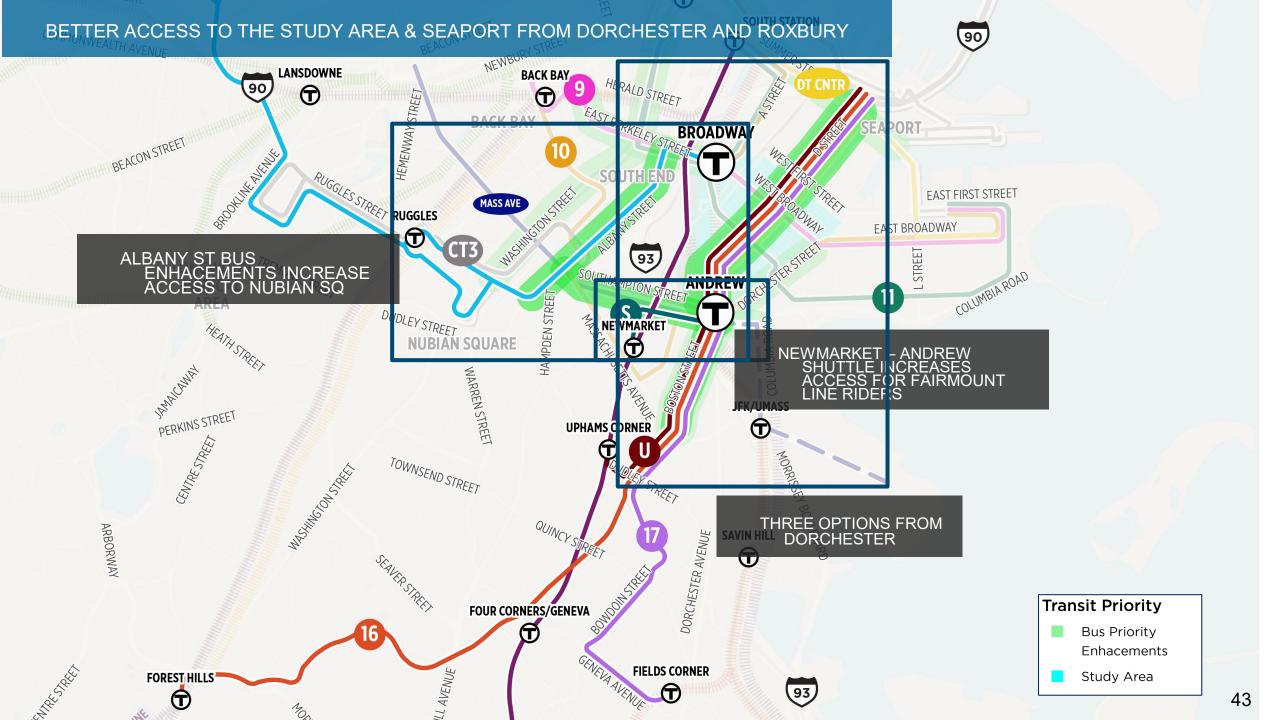
These maps show the improvement in access to the study area from the northern part of the region from one specific transit investment — implementing BRT from North Station along Congress Street

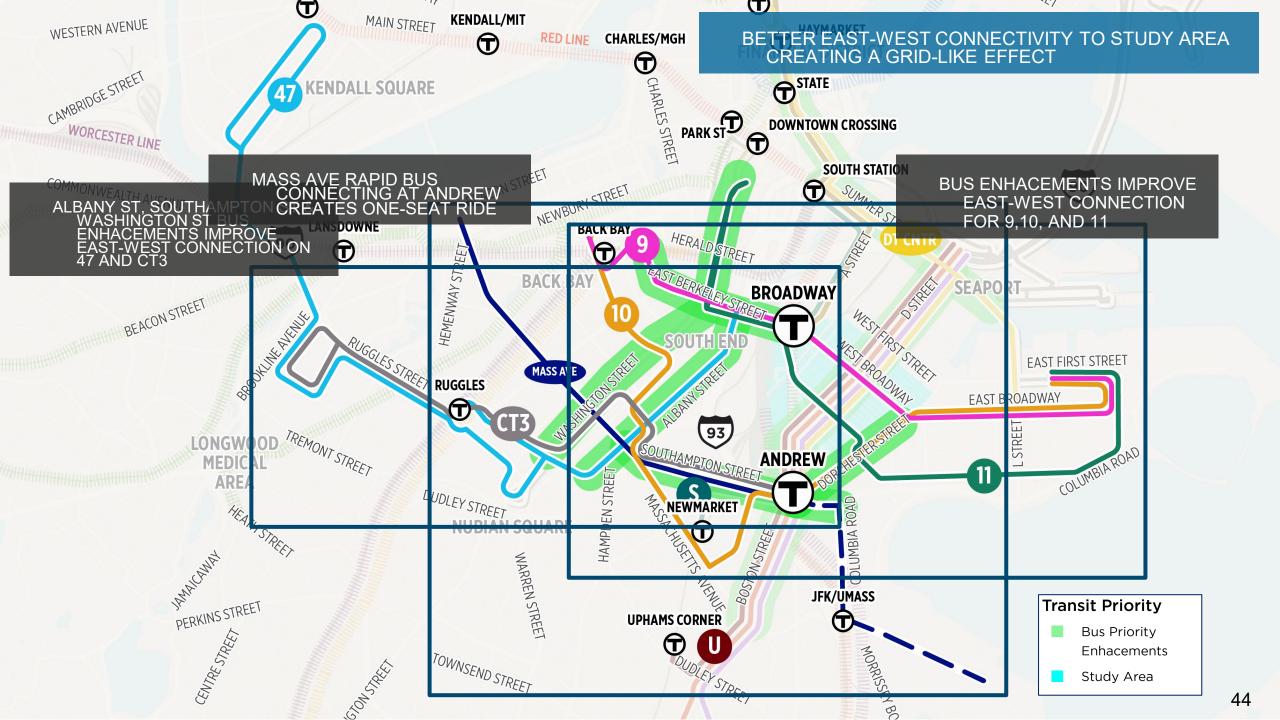
boston planning & development agency





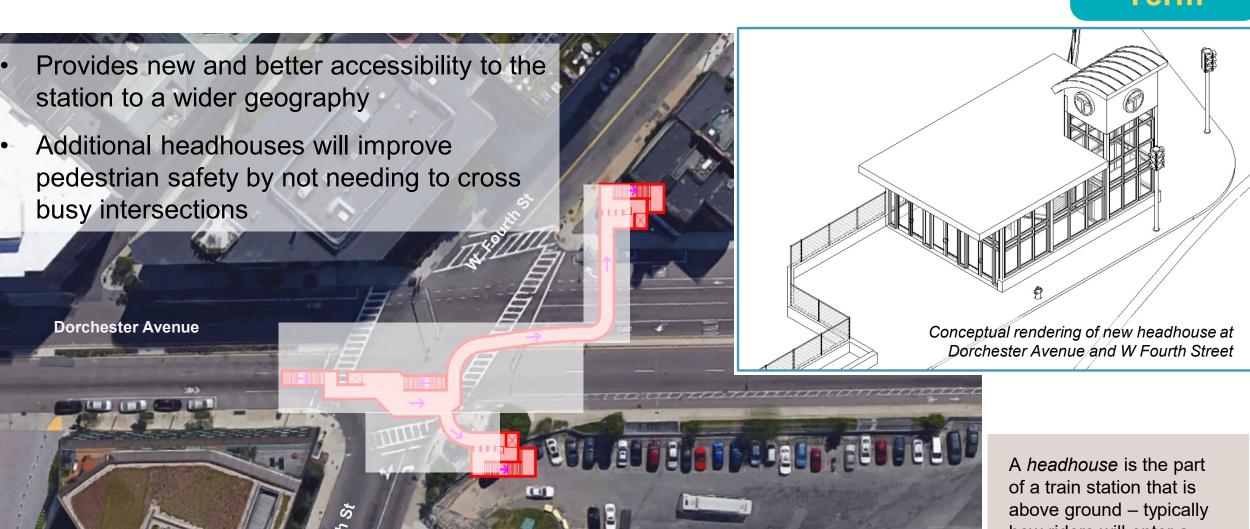




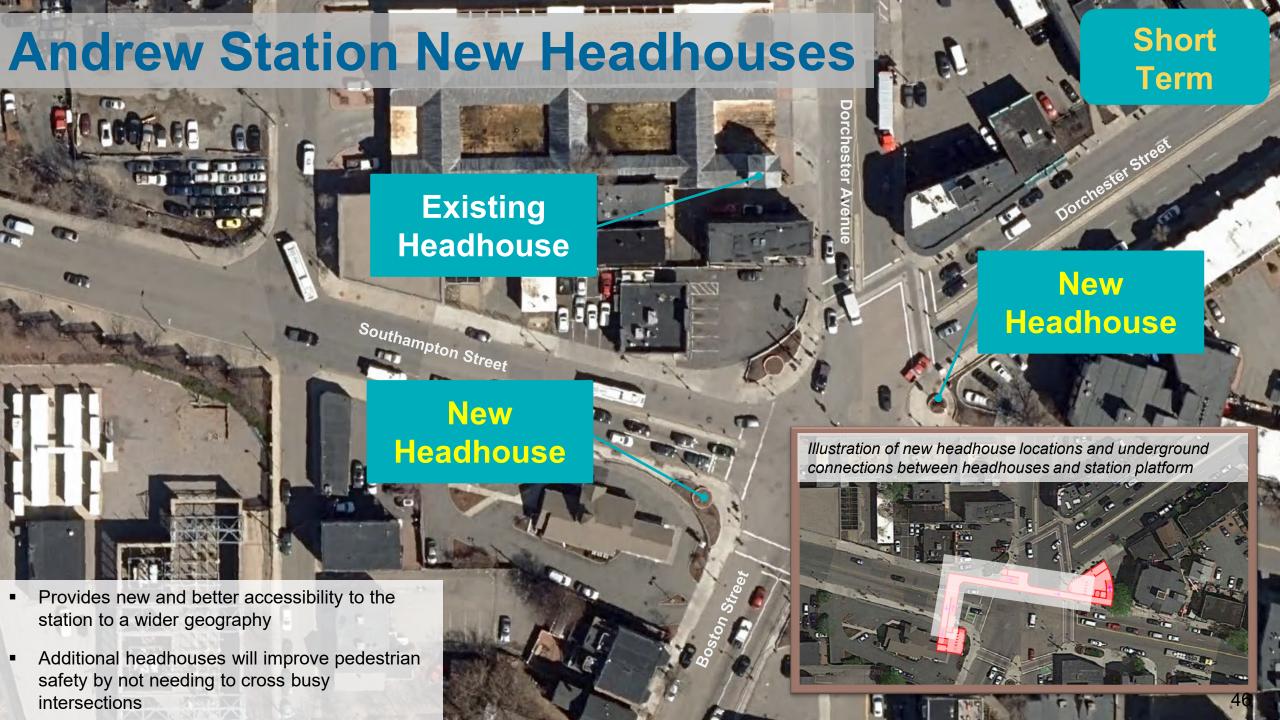


BROADWAY STATION NEW HEADHOUSE





how riders will enter a station



Long Term

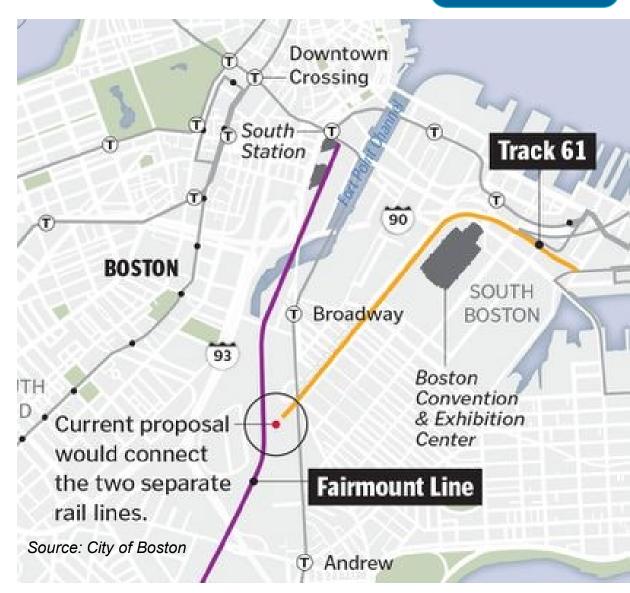
TRACK 61

Track 61 provides an important connection into the Seaport from the study area

Potential to connect Track 61 to the Fairmount Line, would greatly improve job access (Seaport, Dedham Corporate Center)

Recommendation is to not preclude future rail service along Track 61 with a potential station in the study area





ROADWAY RECOMMENDATIONS

Safety and Mobility Improvements

PLAN SOUTH BOSTON DOT AVENUE STREET GRID

A Network of Complete Streets to Serve All Users

DORCHESTER AVENUE

Recommendation: Wider setbacks from new development, consistent and continuous bike lanes and sidewalks between Andrew and Broadway stations





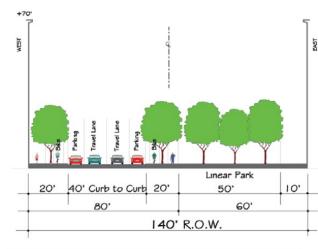




ELLERY STREET

Recommendation: Build out Ellery Street as a 40' curb to curb parallel street to Dorchester Avenue, for local access and to lessen overall future traffic on Dorchester Avenue and Andrew Square



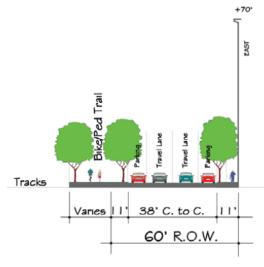




SERVICE CORRIDOR/EDGE ROAD

Recommendation: This new road at the western edge of the study area provides access to loading docks and parking, and creates a high-quality bike/ped trail that improves safety and comfort for walkers and cyclists





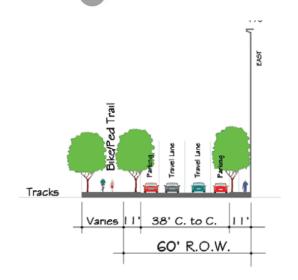


SERVICE CORRIDOR/ EDGE ROAD





Conceptual Drawing Along Tracks: "Service Corridor"

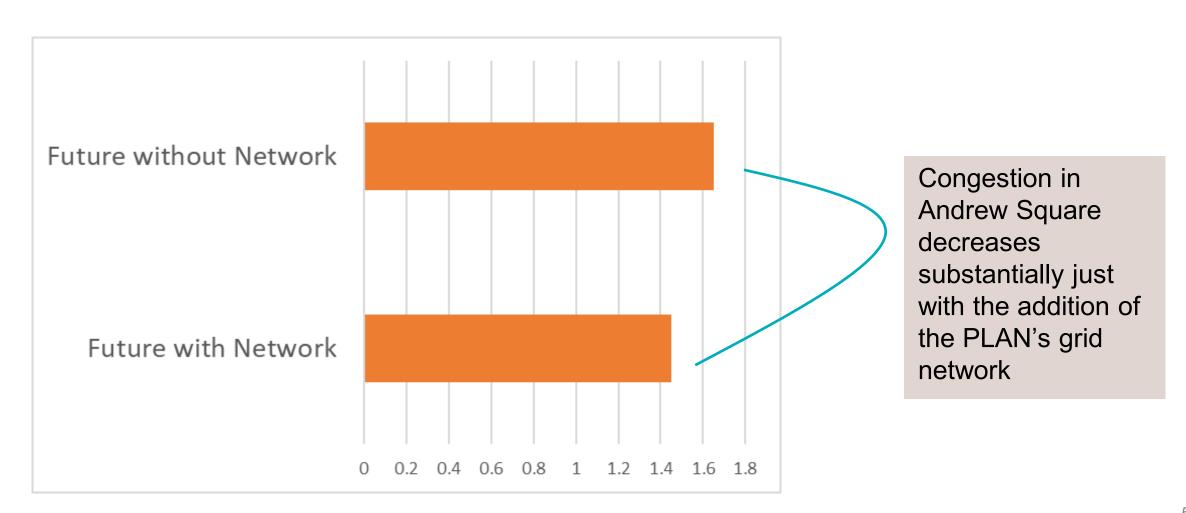


D Edge Road Along the Tracks

Agency Coordination

This idea touches a state facility and we will coordinate with MassDOT to move the concept forward

THE NETWORK IS CRITICALLY IMPORTANT Andrew Square Example – With Long-Term Investments





Improved connectivity eases the burden on Andrew Square

CIRCULATION IMPROVEMENTS

Circulation changes provide alternatives to travel through Andrew Square. There are tremendous benefits to safety and congestion when:

- Ellery Street becomes 2-way south of Andrew Square
- Boston Street becomes 1-way southbound just south of Andrew Square
- Ellery Street is extended south of Andrew Square to Dorchester Avenue
- Boston Street Extension becomes 2-way





SOUTHAMPTON @ I-93 RAMPS PEDESTRIAN IMPROVEMENTS

Short Term

- Install pedestrian signals
- Refresh crosswalks
- Improve sidewalk surface conditions
- Make ADA accessibility improvements to meet current standards

MassDOT Coordination

This idea touches a state facility and we will coordinate with MassDOT to move the concept forward





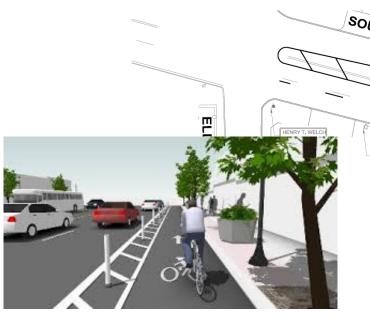
Short Short-Term Recommendations GA Donovan **Term Boston Vision Zero Daylight intersection** to improve visibility **Daylight intersection** Fourth Presbyterian to improve visibility Daylighting an intersection means removing visual barriers that are located within 10 feet (or more) of an intersection crosswalk. This improves visibility to both drivers and pedestrians looking to cross the street Luxury Condo Downtown Boston... Example of a daylighted intersection. Photo credit: Patrick Hoey



Addressing issues of safety for all users, as well as congestion

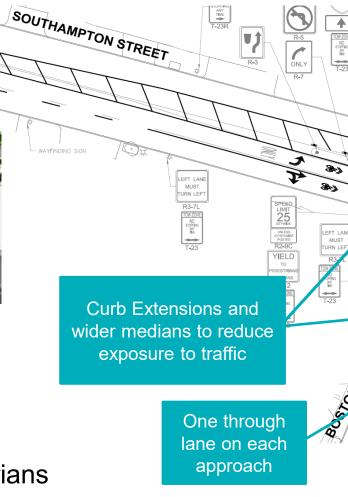


SHORT-TERM RECOMMENDATIONS Rapid Response Project Boston Vision Zero



Design Goals

- Lower traffic speeds
- Clarify lane assignments
- Better visibility of pedestrians



ESTON TANKSOR ATION DEPARTMENT

CITY OF BOSTON TRANSPORTATION DEPARTMENT ENGINEERING DIVISION

NOT FOR CONSTRUCTION

Short

Term

Bike Lanes with flexposts to prevent double parking

PREBLE STREET

PAVEMENT MARKING AND SIGNAGE ANDREW SQUARE

SOUTH BOSTON

DATE: 11/18/2020 DRAWING NO. PM-0 SHEET 10 OF 11

OOLE

2 OLIVER STREET SUITE 305

REET DESIGNED DRAWN

PRAWN BY TOOLE DESIGN
THECKED BY TOOLE DESIGN

AREA: 3 DISTRICT: 2



LONG-TERM IDEAS

Long Term

Some ideas that could provide long-term benefit for Andrew Square include:

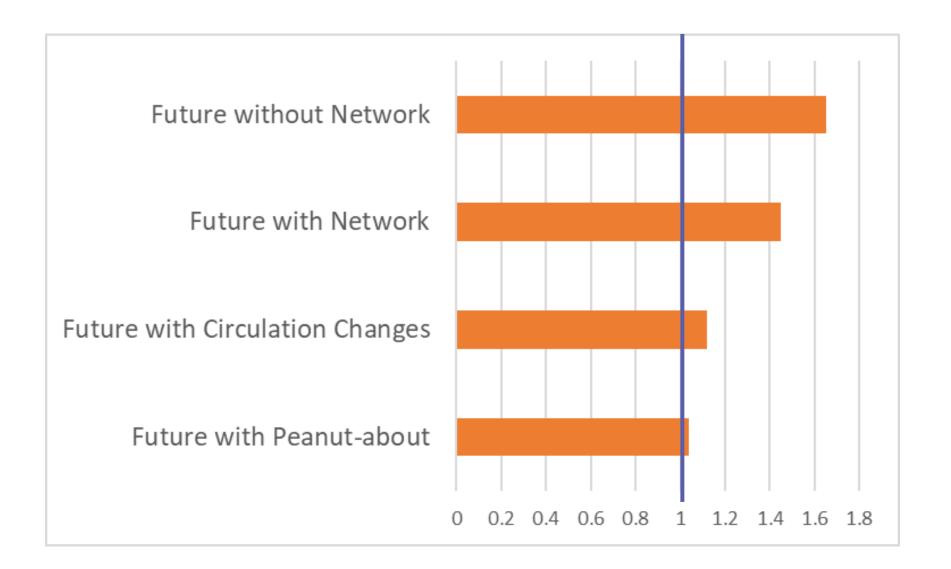
- Reduce number of signal phases a Convert Preble Street or Dorchester Street to one-way
- "Peanut" roundabout (see image) designed to accommodate trucks

Each of these ideas merit further consideration in the future





THE NETWORK IS CRITICALLY IMPORTANT Andrew Square Example – With Long-Term Investments



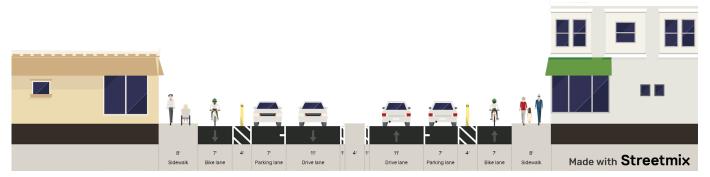
Congestion in
Andrew Square
decreases with
each improvement
we make over the
medium- and longterm

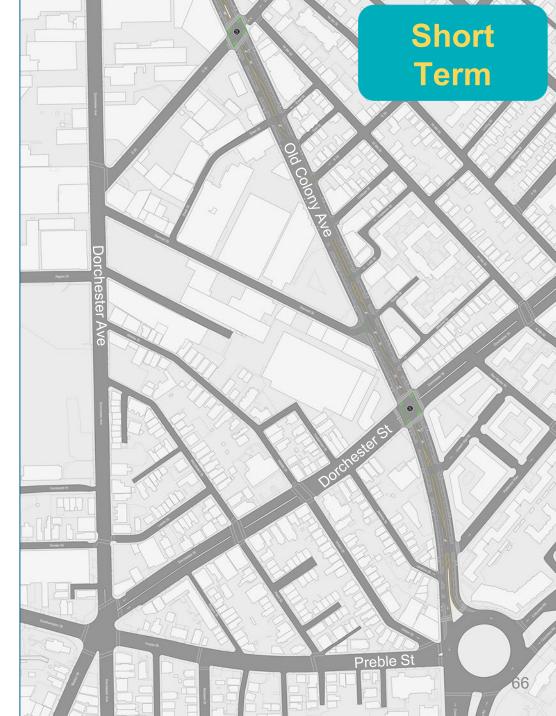
Old Colony Avenue

Shifting the emphasis towards pedestrian and bicycle safety

OLD COLONY AVENUE

- Reconfigure Old Colony Avenue to
 - One travel lane in each direction
 - Parking lanes
 - Separated bicycle lanes between Dorchester Avenue and Preble Circle
- Provide left turn lanes at intersections where warranted

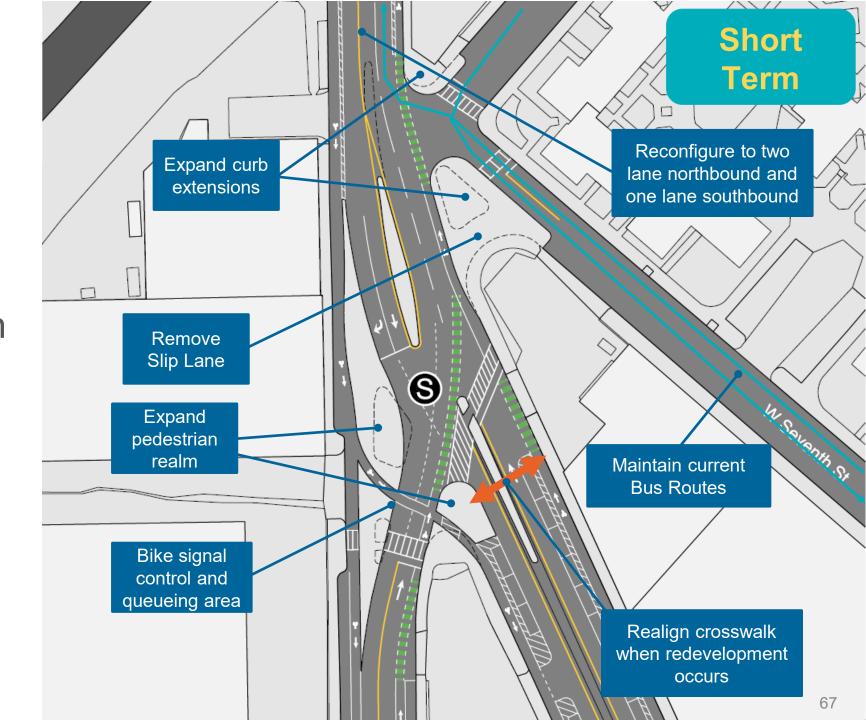




DORCHESTER AVENUE/OLD COLONY AVENUE

- Reduce driver confusion
- Improve pedestrian safety
- Improve bicyclist safety
- Maintain transit access







Safety and Congestion Challenges:

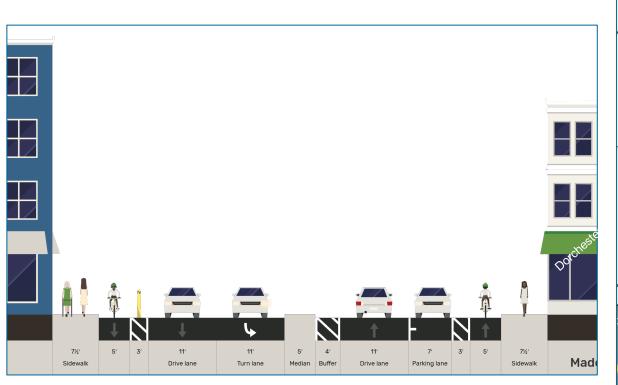
- Heavy traffic volumes during morning and afternoon rush hour
- Regular speeding concerns
- Left turns on all approaches create confusion
- Wide intersection (70') creates safety concerns for pedestrians
- Median islands are not wide enough to serve as pedestrian refuge
- Pedestrians are not waiting for "exclusive" phase to cross

OLD COLONY AVE & DORCHESTER ST



Short-Term

- Left turn lanes with exclusive signal phases
- Concurrent pedestrian phases
- Shorter crosswalks
- Less driver confusion and left turning conflicts
- Reduces off-peak speeding





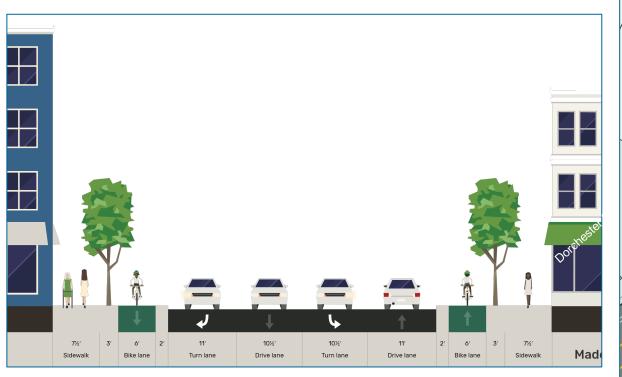
OLD COLONY AVE & DORCHESTER ST

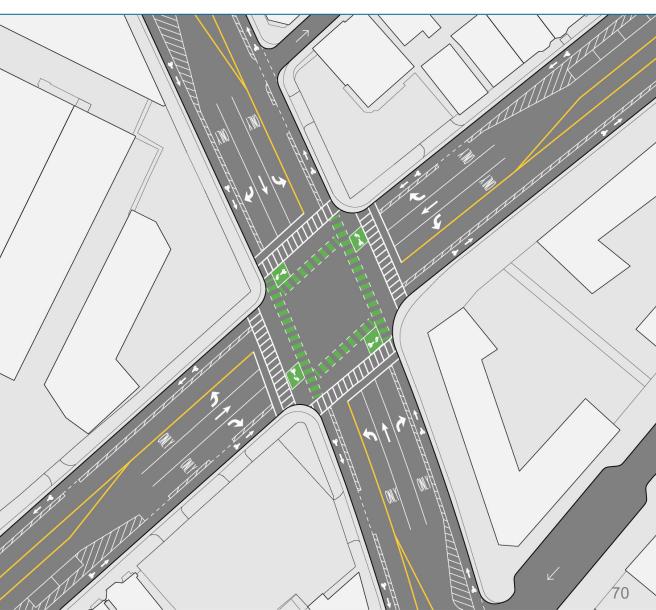


Long-Term

- Additional approach lanes where volumes warrant
- Exclusive turning phases to reduce conflicts between vehicles and people biking and walking

OPTION 1





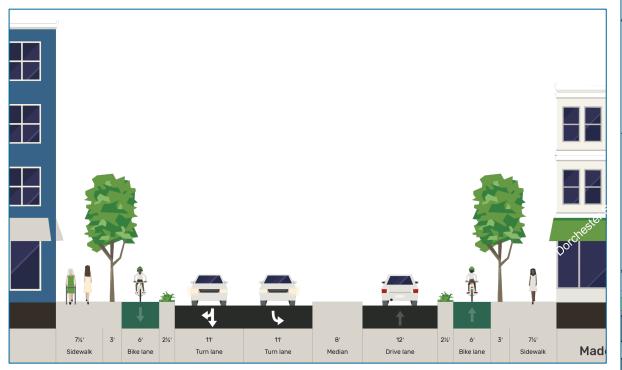
OLD COLONY AVE & DORCHESTER ST

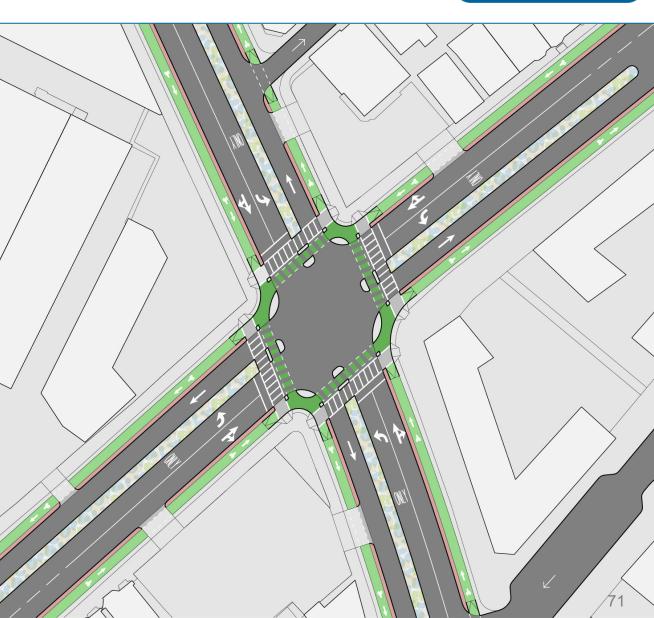


Long-Term

- Protected Intersection provides low stress crossing for bicyclists
- Exclusive left turn phase reduces conflict with pedestrians crossing

OPTION 2

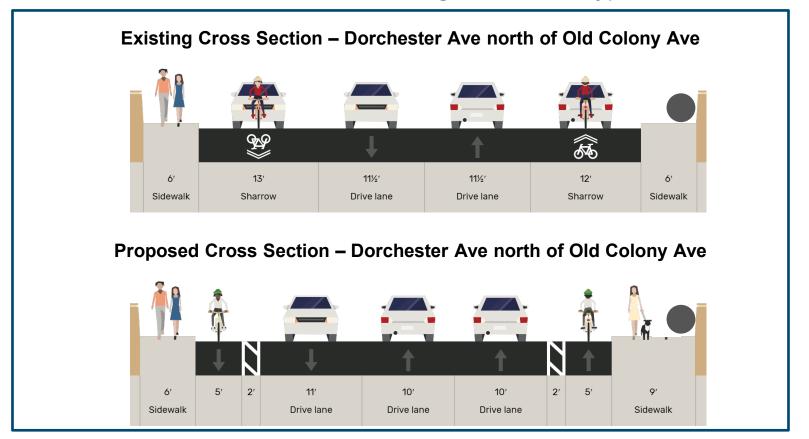




DORCHESTER AVENUE FROM OLD COLONY TO W FOURTH STREET



- Convert 1 southbound lane on Dorchester Avenue to an exclusive bicycle facility
- Widen the sidewalk on the bridge over the Bypass







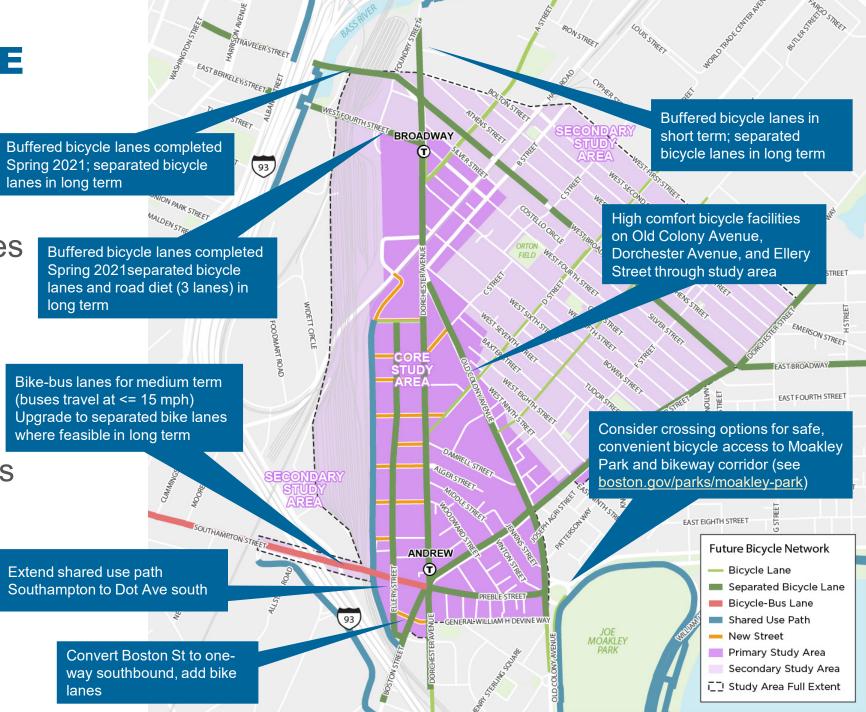
Creating an Urban Fabric that Emphasizes Safety and Comfort

FUTURE BICYCLE NETWORK

Ideas to consider

- Buffered bicycle lanes in short term
- Shared use path extensions
- Separated bicycle lanes in long term
- High comfort facilities for Old Colony, Dorchester Avenue, and Ellery





DISCUSSION

- Do these future conditions findings make sense to you?
- Was anything surprising?
- Do you agree with the draft recommendations?
- What is missing from the recommendations, in your opinion
- What questions come to mind?





NEXT STEPS IN THE TRANSPORTATION PLAN



NEXT STEPS

2019

Fall/Winter

- Mobilize the team
- Collect data
- Review results of previous plans and other efforts underway
- Conduct site visits

2020

Spring

- Analyze existing conditions
- Identify goals and objectives
- Create evaluation framework
- Prepare future forecasting methods

Summer

- Host public meeting #1
- Analyze future conditions
- Evaluate previous PLAN ideas
- Develop short-term recommendations
- Develop a long list of long-term recommendations

Fall/Winter

2021

- Refine immediate-term recommendations
- Develop long-term recommendations
- Host public meeting #2
- Document findings and recommendations into
 the Plan
- Host public meeting #3

We are here

NEXT STEPS

We are planning office hours to answer your questions on tonight's content, one additional public meeting for early next year

Office Hours Tues, December 15 Noon-1:30pm

- We shared a lot of content with you tonight
- This time will be spent answering your questions – no presentation
- Pop in no need to stay for the whole time

Our Next Public Meeting

- Refined immediate-term recommendations
- Refined long-term recommendations
- Draft Plan

COVID-19 Updates

Stay up-to-date with COVID-19 related announcements, City of Boston reopening plans, and resources for you and your community at:

boston.gov/coronavirus



THANK YOU

For More Information:

bit.ly/plandotave

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