South Massachusetts Avenue Corridor Safety Improvements



Stakeholder Meeting #3 | June 6, 2018

Agenda

Massachusetts Avenue - Sidney Street to Memorial Drive

Welcome & Introductions

- Brief Recap of Project Progress
- Conceptual Design

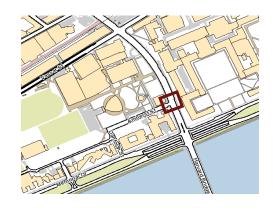


 Detailed discussion/feedback

CORRIDOR INFORMATION

Existing Conditions

Mass. Ave. Cross-Section (at Amherst Street)





- √ 88' wide
- ✓ On-street bike lane
- On-street vehicle parking
- Mix of meters and other parking
- ✓ Bus stops
- Curb extensions at multiple locations

Project Goals



- Address safety issues and reduce crashes - Vision Zero
- ✓ Reduce transit delays
- ✓ Enable/encourage people of all ages and abilities to choose sustainable transportation

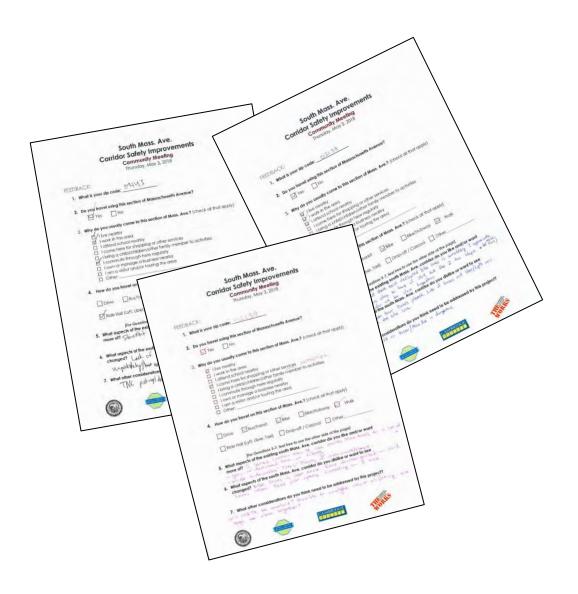
Public Process





- ✓ Advisory Committee Meetings
 - ✓ April 12, May 16, June 6
- ✓ Wikimap online
- ✓ Outreach to Businesses
- ✓ Individual Stakeholder meetings
- ✓ Transit/Ped/Bike Committees
 - ✓ Corridor walk; plan review
- ✓ Communitywide Meetings
 - ✓ May 3, June 19

Public Feedback



- ✓ Need for better operating conditions for bicyclists
- Need for additional crosswalks traversing Mass Ave
- ✓ Desire to improve transit operations
- ✓ Concerns about unpredictable ridesharing, tour bus, food truck, commercial loading & pick-up/drop-off activity
- Improvements needed at rail crossing

CORRIDOR INFORMATION

Community Feedback

What we have heard!

- Delivery operations should have places to load/unload so they don't use the bike lanes
- Prevent motorists from using bike lanes to load/unload
- Relocate MIT tour buses loading/unloading
- Bicyclists should be further separated from vehicles

- There are long vehicle queues, lots of traffic at Vassar Street
- Minimize conflicts, including bus/bike conflicts and bike/ped conflicts at 77 Mass Ave.
- Install more crosswalks between Sidney St and Landsdowne St











- Corridor-wide transportation analysis to determine where:
 - Bus lanes can be added
 - Crosswalk can be added
 - Vehicle lanes can be repurposed
 - Signal operations can be modified
 - Manage traffic
 - Mitigate conflicts
 - Bicycle lanes can be separated
 - Bicycle buffers can be added
 - Parking/curbside activities can be modified for better operations
 - Loading Zones
 - Pick-up/Drop-off activities
 - Accessible spaces



NEXT STEPS

Draft Design - Before and After

South Mass. Ave. Corridor





Before

After

Three Main Sections

The corridor has been divided into 3 sections for clarity



Cross Sections

• The three general cross sections (intersections vary)

Section 1: Sidney St to Albany St



Section 2: Albany St to Vassar St



Most Complicated

Section 3: MIT



Bus Facilities

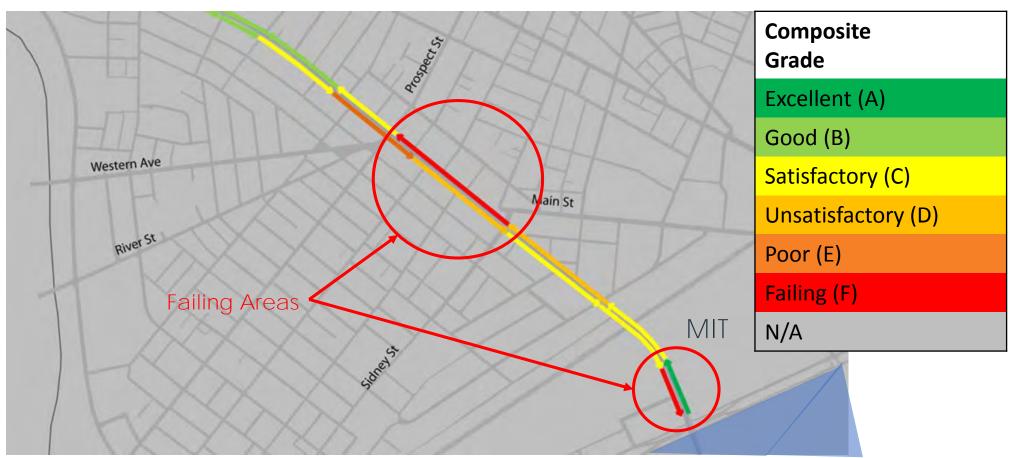
Bus lanes proposed for two sections, to address the key areas of delay



CORRIDOR INFORMATION

Transit Service

MBTA Bus Route 1: PM Peak



Method: Automatic Passenger Counter (APC) Data (MBTA)

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Bus Facility Details



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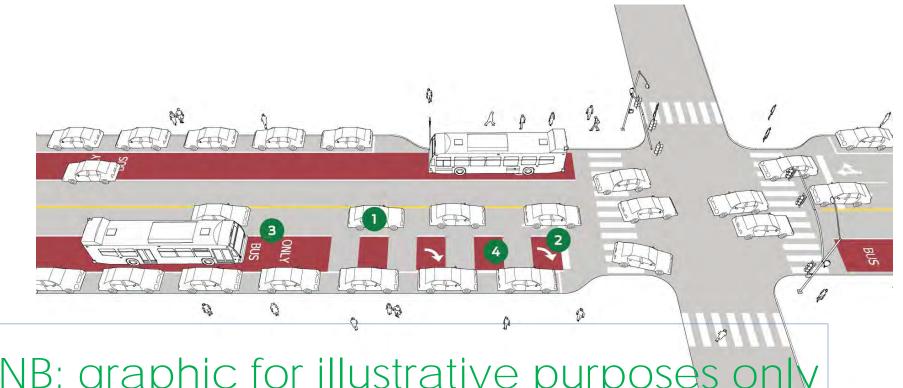
Bus Facility Details





Bus Facility Details

Bus lanes at intersections: Right turning motorists may use bus lane



NB: graphic for illustrative purposes onl



Bicycle Facilities

For most of the corridor, separated bike lanes can be created using on-street parking and flex posts



DESIGN OVERVIEW

O Bicycle Facilities

Separated Bike Lane - Parking Protected





DESIGN OVERVIEW

O Bicycle Facilities

Bike Lane with Curbside Parking



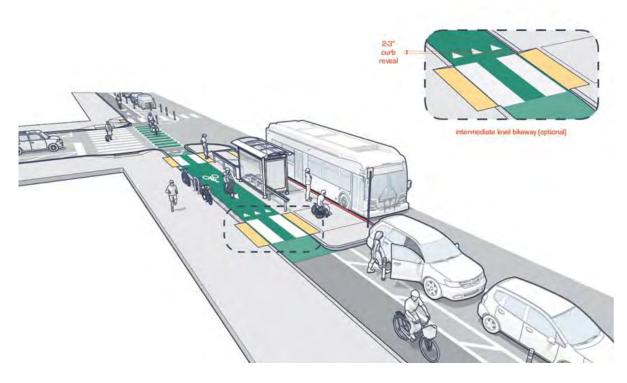


Curbside parking/Accessible Parking

DESIGN OVERVIEW

Bus Stop Options





Bus stop at curb

Floating bus stop - under consideration for later implementation

Pedestrian Facilities

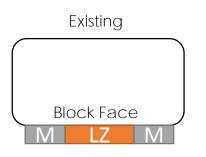
- No changes to sidewalks
- New Crosswalk with Rapid Flash Beacon
- Signal modifications to reduce conflicts

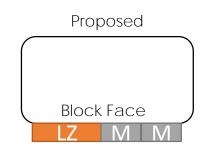




Vehicle Parking Analysis

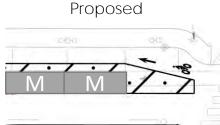
 Re-configurating parking that works better for loading (loading zones will be moved to the beginnings or ends of the block faces)



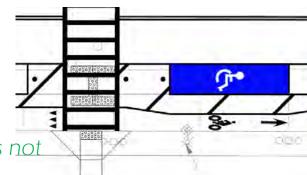


 Floating parking spots will be implemented, where possible Existing

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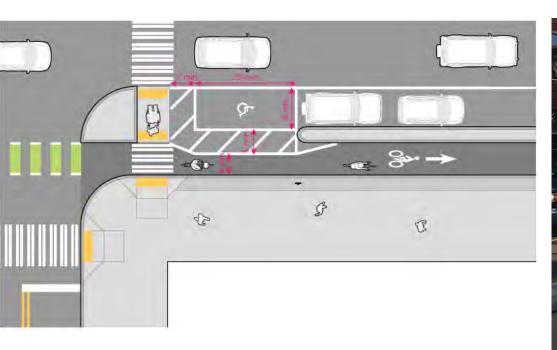
Special consideration will be made for ADA spaces



NB: graphic for illustrative purposes only, does not represent exact dimensions

Accessible Parking Option

- Under evaluation for appropriate location(s)
- MassDOT and other guidelines
- Implemented in several cities





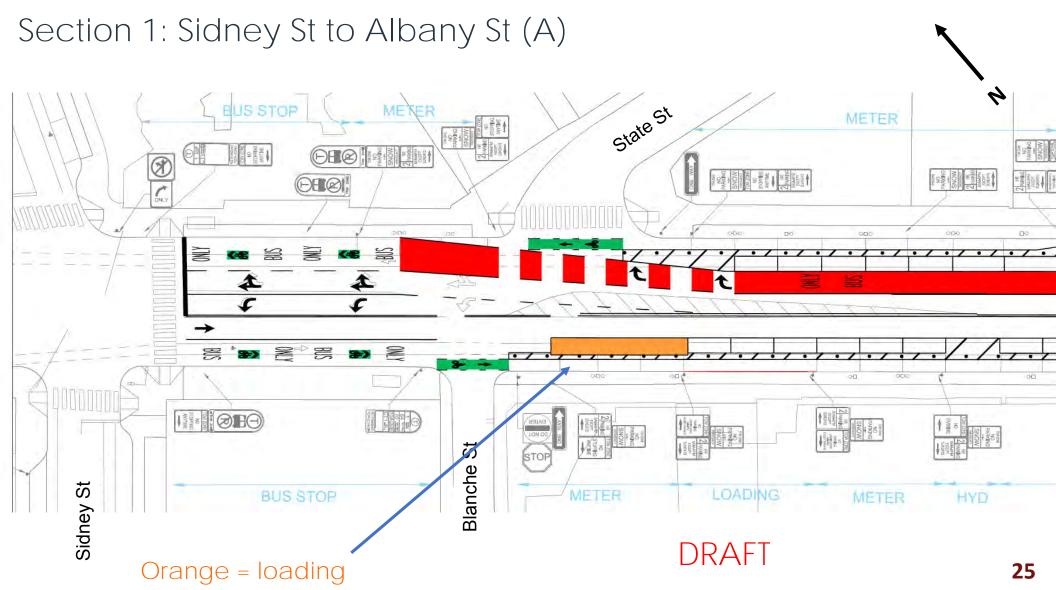
Three Main Sections

- Overall, in sections 1 & 3, lane removed without significant impacts
- There may be impacts to motor vehicles, with longer queues and possibly longer travel times, in Section 2
- NB: These plans are conceptual/draft ONLY and subject to change
- NB: Plans show existing conditions as background layer

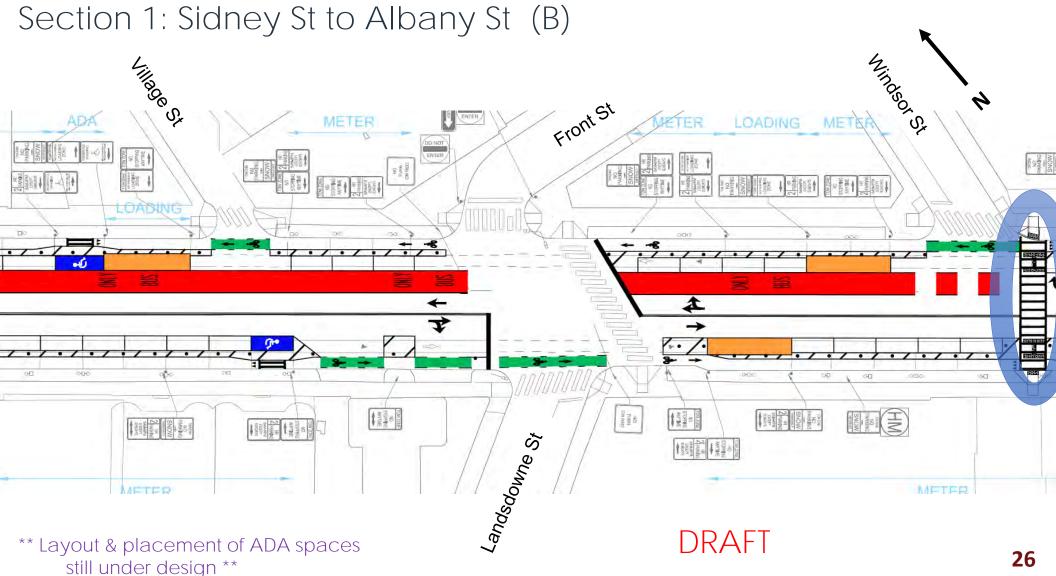








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Section 1: Sidney St to Albany St (C) HYD METER MASSACHUSETTS AVENUE ADA LOADING

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Design Analysis

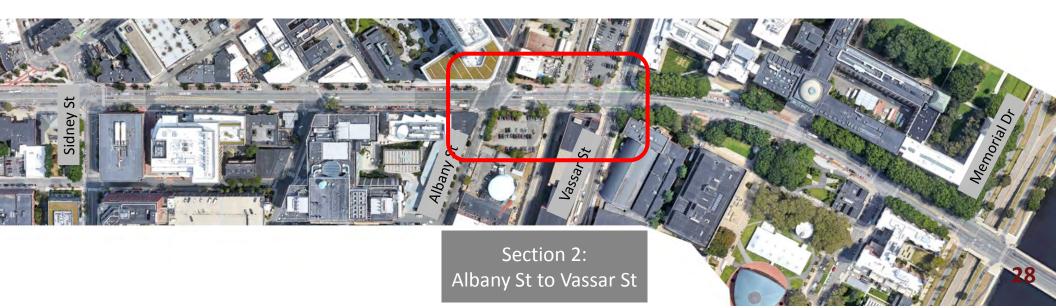
Alternatives Analyzed at Vassar Street:

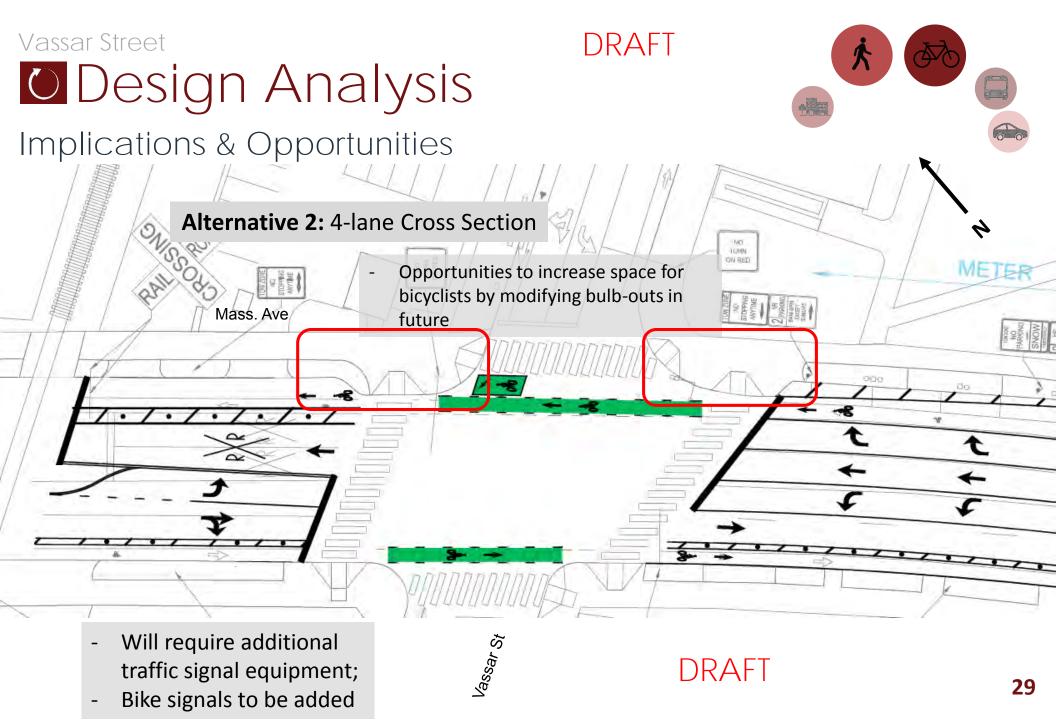
Alternative 1: 3-lane cross section

- more turning conflicts for people walking or bicycling
- traffic better in off peak, worse in peak, including buses

Alternative 2: 4-lane Cross Section

- Key conflicts controlled for people walking, bicycling
- AM peak performs better, PM is worse



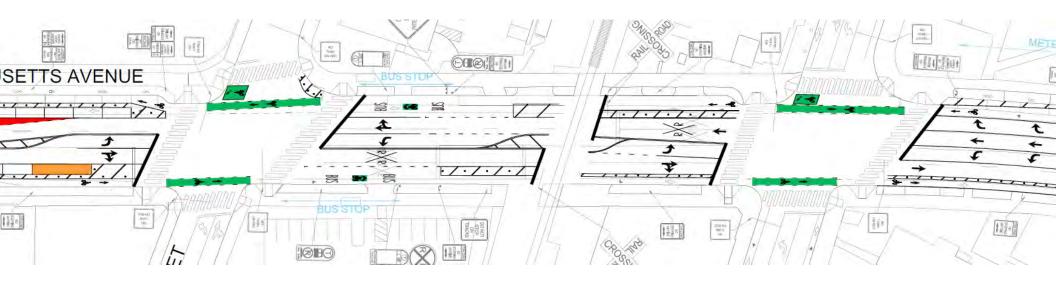


CORRIDOR INFORMATION

Transportation/Traffic Analysis

Section 2: Albany St & Vassar St

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Three Main Sections

Other Design Details







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Transportation/Traffic Analysis

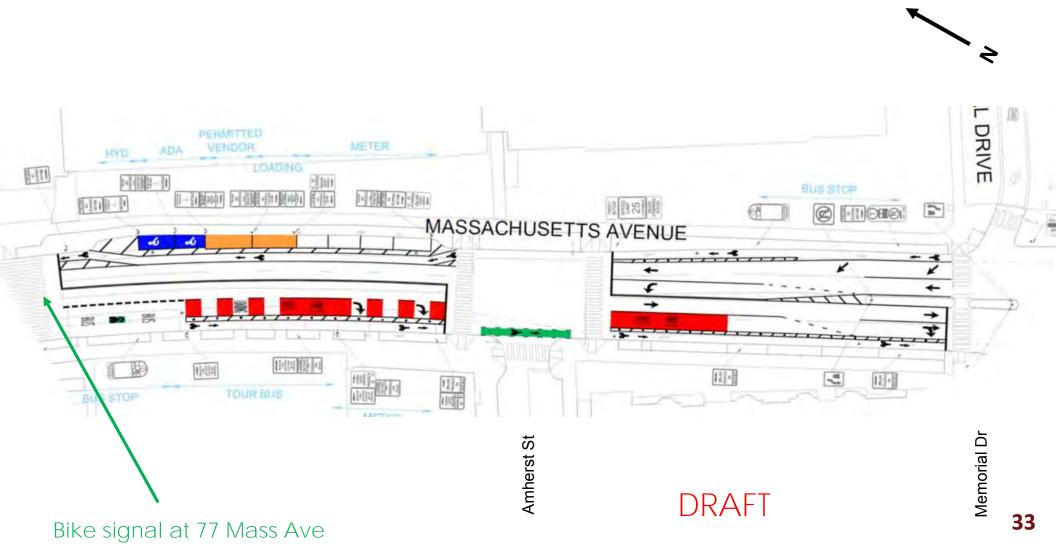
Section 3: MIT (A) Layout & placement still under design MASSACHUSET TSAVENUE DRAFT

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Transportation/Traffic Analysis

Section 3: MIT (B)



Conclusion

- Bicycle and transit improvements are identified for the corridor
- Additional crosswalk at Windsor Street
- Intersections managed with turn lanes and signal control
- There are some notable parking modifications
- Still some design details to flesh out, especially given your input!



NEXT STEPS

Schedule

