Winter Hill in Motion:
Central Broadway Redesign Project

2/4/19 – Community Meeting Presentation
The City has invested in a number of projects along or adjacent to Broadway between Ball Square and Sullivan Square

- **Magoun Square Streetscape** – Completed 2010
- **East Broadway Streetscape** – Completed 2015
- **Route 28/Route 38/Interstate 93 Planning Study** – Underway
- **Broadway at Trum Field Improvements (HSIP)** – 2019 Implementation
- **Temple St Improvements (HSIP)** – 2019 Implementation

There is a clear gap between Magoun Square and McGrath Highway, which has become the focus of **Winter Hill in Motion**
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Why the Urgency?

WINTER HILL NEIGHBORHOOD PLAN

SOMERVILLE CLIMATE FORWARD
A Community Climate Change Plan
NOVEMBER 2018

VISION ZERO SOMERVILLE

SOMERVISION 2040
Sustainability • Diversity • Opportunity • Connectivity • Community
Why the Urgency?

The Boston Globe

T’s declining ridership: Why and where

By Adam Vaccaro | GLOBE STAFF  NOVEMBER 10, 2017

NOVEMBER 10, 2017
These four Boston suburbs will try to improve local bus service

An MBTA bus drove on a dedicated lane converted from parking spaces on one side of Broadway in Everett during a one-week trial in December 2016.

By Adam Vaccaro | GLOBE STAFF  DECEMBER 05, 2017
Municipal Role in Supporting Transit
Municipal Role in Supporting Transit

Did you know? The @MBTA's week-long #dedicatedlanes test along Prospect St in Somerville cut travel times by avg of 10min on the C2 & 6min for all other bus routes using the street.

T notes: Bus lanes do save time - CommonWealth Magazine
Tracking Transportation Tracking Transportation Keeping track of transportation Buses, not gondolas, are the answer By Ari OfsevitSee all ...
commonwealthmagazine.org
Holland St needs one of these from Davis to Teele for the packed evening rush hour 87 and 88 buses in @SomervilleCity @JoeCurtatone. I think we should do a pilot too! 🌟 🚳 🚌 🌟

Cambridge in Motion @CambMotion
During it's first week of operation, the priority bus lane on Prospect St in @SomervilleCity has shaved off an average of 6 minutes per outbound trip! #CambMA #MBTA bit.ly/2l1YFyo

6:07 AM - 3 Jan 2018
What Characterizes Broadway Today?

Bus Travel Time
Broadway Eastbound
Magoun Square to McGrath Highway

- Travel Time (minutes)
- Distance (miles)

- Magoun Square
- Temple St
- Marshall St
- Thurston St
- McGrath Hwy
What Characterizes Broadway Today?

Bus Travel Time
Broadway Westbound
Foss Park to Magoun Square

Travel Time (minutes)
Distance (miles)

Magoun Square
Adams St
Main St
School St
Temple St
Foss Park

PM Peak (90th)
PM Peak (Avg)
AM Peak (Avg)
Early AM (Avg)
In March 2018, the City sent out a survey that asked for current experiences and impressions of Broadway. The link was open for a month and over 1,000 responses were received.

What Characterizes Broadway Today?

What are the top three transportation related issues with Broadway?

And the survey says…
In March 2018, the City sent out a survey that asked for current experiences and impressions of Broadway. The link was open for a month and over 1,000 responses were received.
What is the Scope of this Project?

What’s not included:

- New pavement
- New sidewalks (except at 3 bus stops)

What is included in Winter Hill in Motion:

- New pavement markings and signs
- Signal Timing Changes
- Bus stop consolidation (through a separate MBTA project)
What is the Scope of this Project?

MBTA Bus Stop Accessibility Improvements

- Remove existing bus stop signage and shelter
- Remove & reset curb with new sidewalk
- New pavement markings and signage
- New pavement markings and signage
- New pavement markings, signage, and shelter
In March 2018, the City sent out a survey that asked for current experiences and impressions of Broadway. The link was open for a month and over 1,000 responses were received.
Design Preview: Bike Facilities

- Parking-Protected Bike Lane with Flex Posts
- Standard Bike Lane
Design Preview: Bike Facilities

Washington Street, Union Square

somervillema.gov/winterhillmotion
Design Preview: Bus Facilities

- Bus Stop Consolidation
- Signal Retiming and Transit Signal Priority Implementation
- Parking Retained
- Dedicated Bus/Bike Lane
- Painted Curb Extensions
### Weekday Parking Counts on Broadway

<table>
<thead>
<tr>
<th></th>
<th>Total # of Spaces</th>
<th>8:00 AM</th>
<th>12:00 PM</th>
<th>5:00 PM</th>
<th>10:00 PM</th>
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<tbody>
<tr>
<td><strong>2 Hour or Residential Permit</strong></td>
<td>123</td>
<td>73</td>
<td>81</td>
<td>83</td>
<td>109</td>
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<tr>
<td>Spaces Being Used</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>% Full</td>
<td>59%</td>
<td>66%</td>
<td>67%</td>
<td>89%</td>
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</tr>
<tr>
<td><strong>Metered</strong></td>
<td>39</td>
<td>14</td>
<td>22</td>
<td>22</td>
<td>17</td>
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<td></td>
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<tr>
<td>% Full</td>
<td>36%</td>
<td>56%</td>
<td>56%</td>
<td>44%</td>
<td></td>
</tr>
<tr>
<td><strong>Other</strong></td>
<td>21</td>
<td>4</td>
<td>12</td>
<td>10</td>
<td>6</td>
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<td>Spaces Being Used</td>
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<tr>
<td>% Full</td>
<td>19%</td>
<td>57%</td>
<td>48%</td>
<td>29%</td>
<td></td>
</tr>
</tbody>
</table>
Expected Removal to Accommodate New Design

Expected New Parking as Part of Final Design

Design Preview: Parking Changes

Winter Hill in Motion: Broadway Existing Curb Use Map
Design Preview: Signal Timing Changes

- Retime signals to better meet current demand
- Coordinate signals so that buses and drivers on Broadway can get a green light from Main St to Temple St and vice versa
- Move to concurrent pedestrian phasing where practical, which improves compliance and decreases waiting time for all modes
- Install transit signal priority equipment that will detect buses and extend the green time on Broadway to allow them to get through intersections faster
Next Steps

- Construction plans for pavement markings, signage, and signal timing will be finalized in March

- Implementation anticipated to begin in April
  
  - **Bus stop removal** – Prior to affected stops getting removed from service, customers will be notified by the MBTA via service advisory signs
  
  - **Parking removal** – Keep an eye out for new signs. Warning tickets will be issued when changes first occur.
  
  - **Pavement markings** – Will likely take between 2 and 4 weeks to remove old markings and put down new markings. Work will be done between the hours of 8pm and 4am. Will require some overnight parking bans and traffic detours.
  
  - **Signal retiming** – A few days worth of work, may require short periods of signal outages (police details will be present to direct traffic)
  
  - Sign up for email updates or check out the Winter Hill in Motion web page to get the latest info
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