



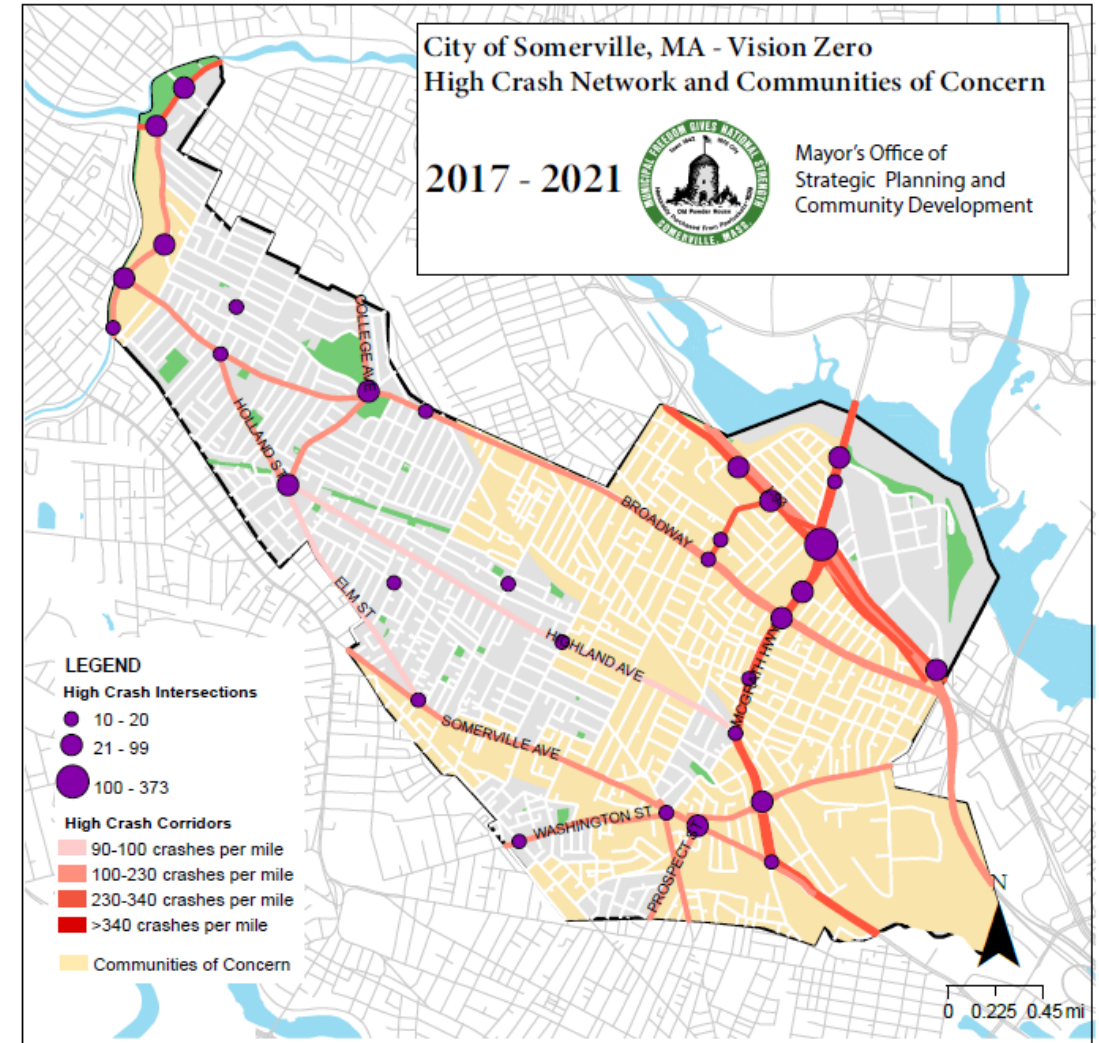
# Traffic Engineering 2023 Update

*Pedestrian and Transit Advisory Committee*

*Jessica Bellow*  
March 16, 2023

# Agenda

- Draft Street Design Policies
- Traffic Management Plans
- Pavement Markings / Striping
- Traffic Signal Improvements
  - Pedestrians
  - Transit



Map of Somerville's High Crash Network

# Draft Street Design Policy Topics

Crosswalks with both Crosswalk & Impact Recovery Signs



Broadway @ Glen St / Michigan Ave

## Current Topics:

- No Turn on Red Signs
- Pedestrian Impact Recovery Signs
- Speed Humps / Speed Cushions

## Upcoming Topics:

- Crosswalk Signage
- Rectangular Rapid-Flashing Beacons (RRFBs)
  - NOTE: The City is upgrading existing RRFBs with accessible pedestrian signals

# Traffic Management Plans

CITY OF SOMERVILLE, MASSACHUSETTS  
MAYOR KATJANA BALLANTYNE  
DEPARTMENT of INFRASTRUCTURE & ASSET MANAGEMENT  
ENGINEERING DIVISION



RICHARD E. RAICHE, PE, PMP, MCPPO  
DIRECTOR OF INFRASTRUCTURE & ASSET MANAGEMENT

BRIAN C. POSTLEWATE, PE  
DIRECTOR OF ENGINEERING

## Traffic Management Plan Checklist:

Creating a Traffic Management Plan (TMP) is an iterative and collaborative process. TMPs describe pedestrian, biking, traffic, and parking management techniques and illustrate the placement of traffic control devices. The below checklist was created to help the designer incorporate the required traffic plan elements into the proposed TMP, it does not need to be included with the TMP submission in Citizen Serve.

- ☐ Show the location (address, intersection) and dimensions of proposed project site.
- ☐ Label streets within plan limits and provide a north arrow.
- ☐ Indicate duration of work and schedule of work hours.
- ☐ Show existing conditions in the vicinity of the work area, including:
  - ☐ Curbs, sidewalks, driveways, and intersections.
  - ☐ Traffic signals and signs.
  - ☐ Pavement markings.
  - ☐ Parking restriction zones, signs, and meters.
- ☐ Show proposed temporary pavement markings, if applicable.
- ☐ Show direction of travel and proposed lane widths.
- ☐ Indicate staging area and materials storage area, as appropriate.
- ☐ Show advanced warning area, transition area, buffer area, active work zone, and termination area, and where the warning signs shall be located. Include dimensions for sign spacing.
- ☐ Indicate location of construction signs, barricades, delineators, and other MUTCD approved traffic control devices.
- ☐ Indicate the proposed size of temporary signs.

**Police Detail.** If the TMP requires a police detail, information can be obtained from the Detail Office at the Somerville Police Department at (617) 625-1600.

**Temporary No Parking Signage or Meter Bagging.** Email [Traffic@somervillema.gov](mailto:Traffic@somervillema.gov) or call (617) 625-6600 if you need No Parking signage or bags to cover street meters. Keep in mind signage must be in place 48 hours before work begins and 311 must be notified when the signs are installed.

**Parking Solutions.** Did you know Somerville offers parking permits for contractors, commercial vehicles, realtors, rental cars and more? Visit Somerville's Parking Department website for more details: <https://www.somervillema.gov/parking>.

Goal: safe passage around construction for all users.

If there's an issue, notify 311 through "Construction and road work inquiry".

The City reserves the right to require field alterations.

## Traffic & Construction Management Plans

- <https://www.somervillema.gov/tmpguidelines>
- <https://www.somervillema.gov/cmpguidelines>



# 2023 Pavement Marking Goals

Unmarked crossing locations with curb ramps shown below



Wesley Park @ Otis St



W Quincy St @ Bailey St

- Paint unmarked crosswalks where existing curb ramps exist
- Continue implementing Daylighting/Clear Corners
- Marking Projects
  - Bow St (from Summer St to Somerville Ave)
  - Grand Union Blvd
  - East Broadway
  - Yellow Speed Hump Markings
  - Powder House Blvd
  - Crosswalk Markings
  - DPW owned Parking Lots

# Daylighting Implementation Strategy

Daylighting is also known as Clear Corners

Focus on High Crash Locations first

- Starting with the Broadway corridor

Incorporate into all new projects

- Reconstruction projects
- Repaving projects

Future Prioritization

- Land uses
- Neighborways



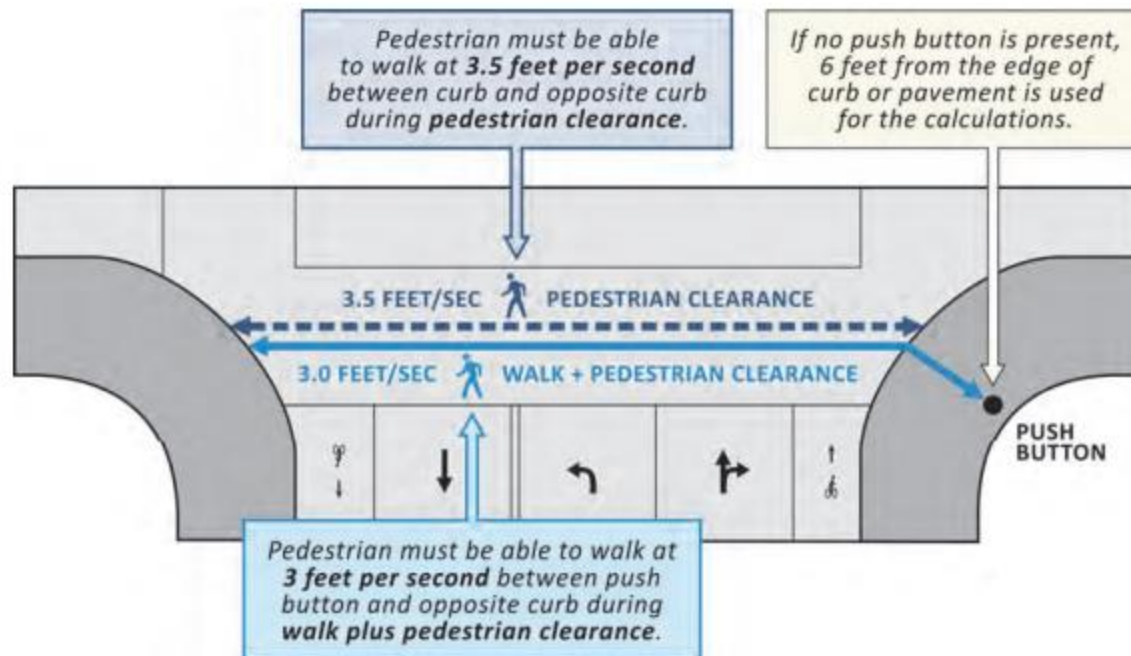
Daylighting at Belknap St & Broadway



# Traffic Signals: Pedestrian Upgrades

## Pedestrian Signal Improvement Priorities:

- Accessible Pedestrian Signals (APS)
- Countdown Timers
- Retiming signals



NCHRP Signal Timing Manual Exhibit 6-19 Pedestrian Interval Requirements based on Walking Speed

## Replace Antiquated Equipment



## With Fully Accessible Equipment



# Traffic Signals: Transit Signal Priority (TSP)

## Transit Signal Priority Upgrades:

- Broadway at Main St, School St, Temple St, and Cross St
- Washington St & Inner Belt Rd

## New Transit Signal Priority planned for:

- Davis Sq
- Union Sq
- Assembly Sq



Fall 2022 MBTA Bus Network Redesign Map in Somerville