



Highland Avenue, Needham  
Needham Street, Newton  
Bridge No. N-04-002=N-12-002 (362) over the  
Charles River Corridor Project

## Needham Newton Corridor

# Public Informational Meeting

May 24, 2018 @ 8 am Newton



# Agenda

1. Introduction
2. Construction Cost
3. Schedule
4. Project Overview

# Introduction

## Speakers

Thomas H. Currier, P.E.

MassDOT Project Manager

Marie J. Sullivan, P.E.

Stantec Project Manager

Alan T. Cloutier, P.E., PTOE

Stantec Traffic Engineer



## Since we last met in January...

- Continue coordination meetings with Needham/Newton
- Continue one-on-one meetings with abutters

## Today.....

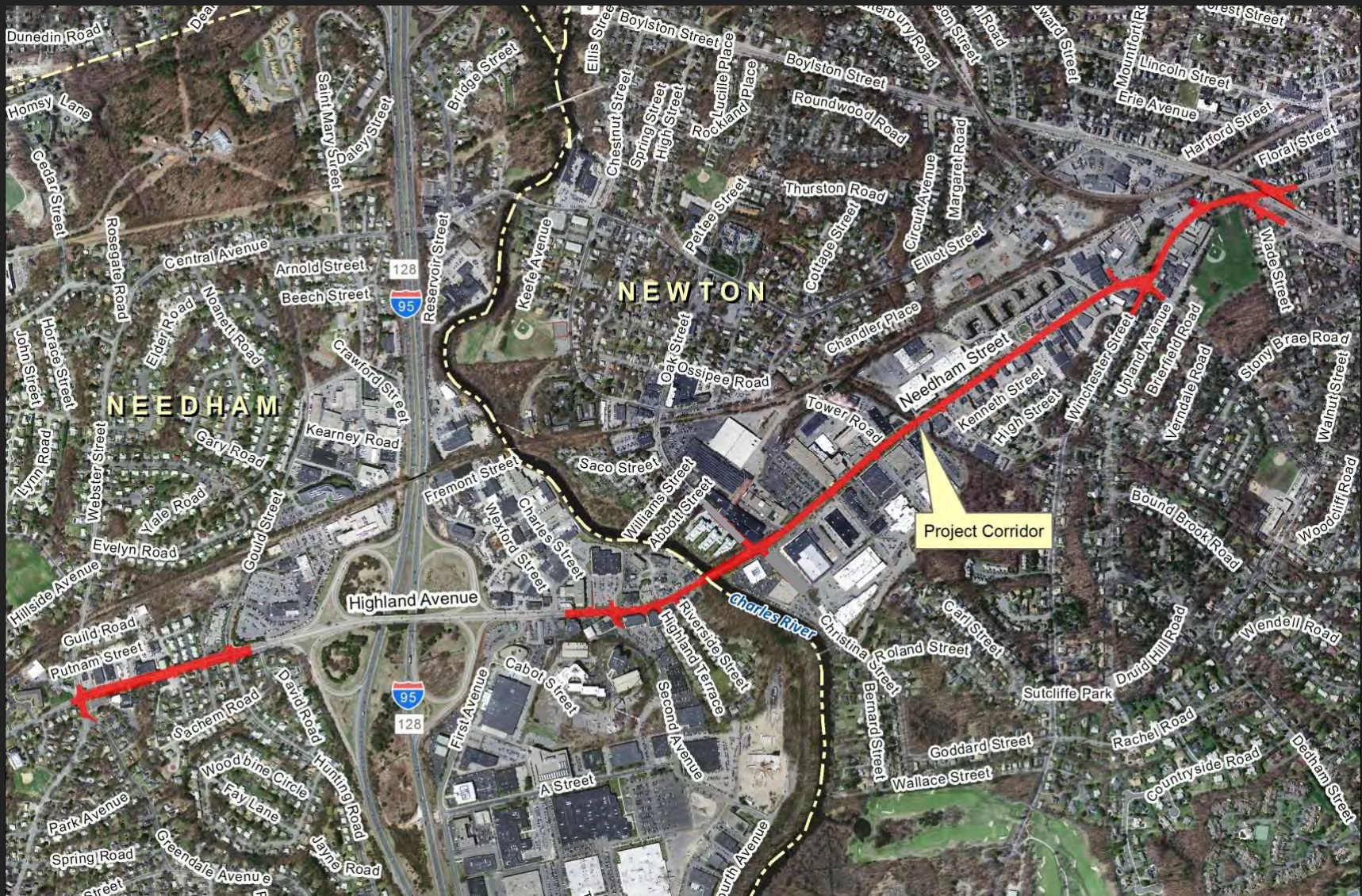
- Project Status and Overview

# Construction Cost



Description	Cost
Office Estimate	\$22.5M
Construction Contingencies, Traffic Police, Participating Utility Relocations, etc.	\$8M
<b>Estimated Total Construction Cost</b>	<b>\$30.5M</b>





Project Area



# Adjacent Projects



# Existing Deficiencies



Unmarked crossings



Undefined sidewalks



Wide driveway openings



Narrow shoulders  
No designated bike lane



Non-compliant crossings



Parking perpendicular to road

# Project Goals

**Multimodal** Design Approach - Balance needs of **ALL** users

To Improve **Pedestrian** Accommodations

- Continuous designated sidewalks
- Designated crosswalks



To Provide **Bicycle** Accommodations

- 5 foot wide raised bike lane
- Shared use paths



To Improve **Traffic Operations/ Safety**

- Exclusive turn lanes, two-way left turn lanes
- Protected phasing at signals
- Reduce conflict points



To Improve **Transit**

- Adjust locations to optimize service





# Crosswalk Locations

Legend:  
Existing to remain  
New  
Being eliminated





# Crosswalk Locations

Legend:

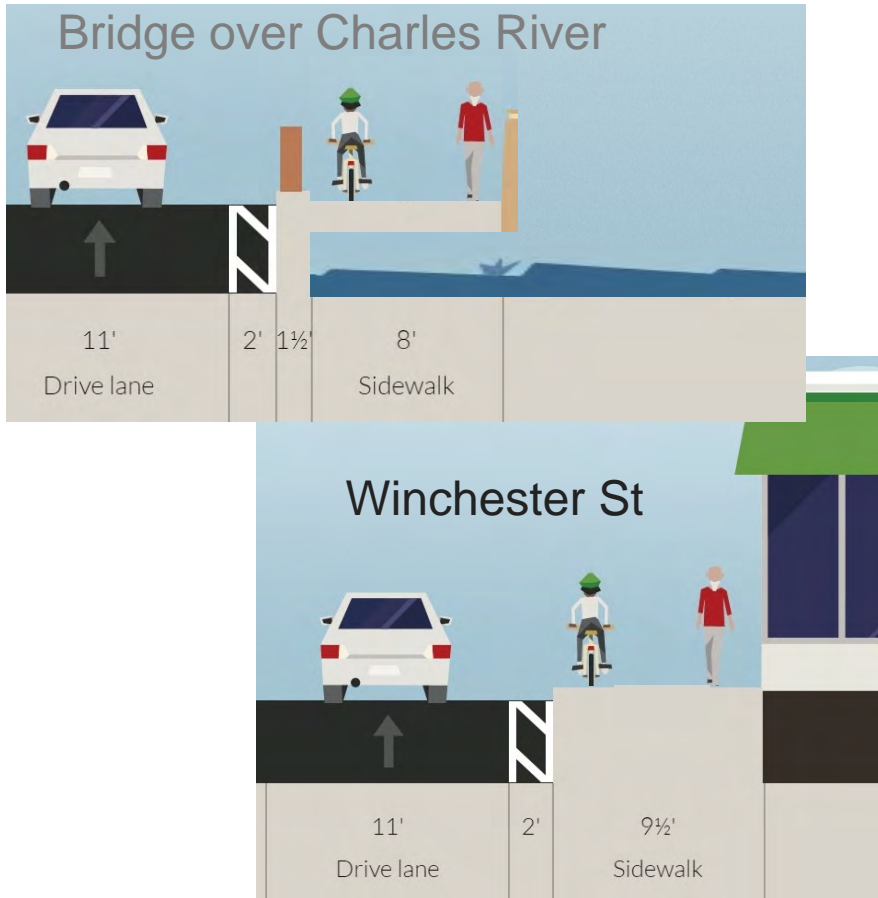
Existing to remain

New

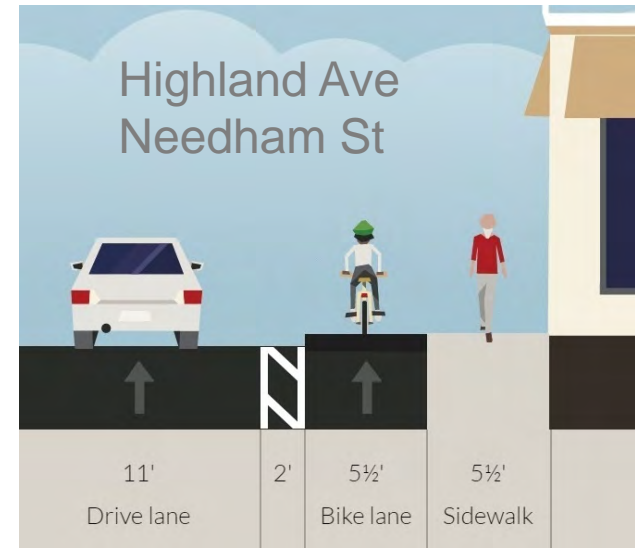




# Bike Lane Cross Section



Shared Use Path  
(bikes & pedestrians)



Raised Bike Lane



# Traffic Operations

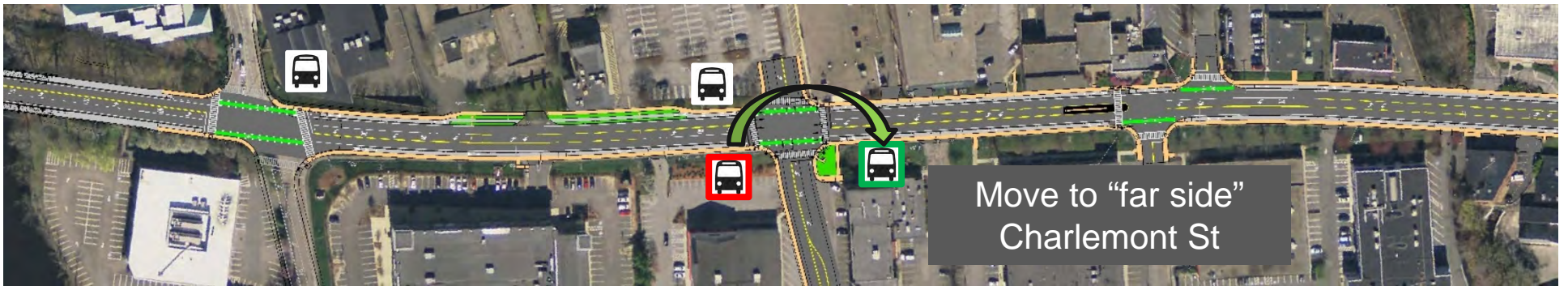
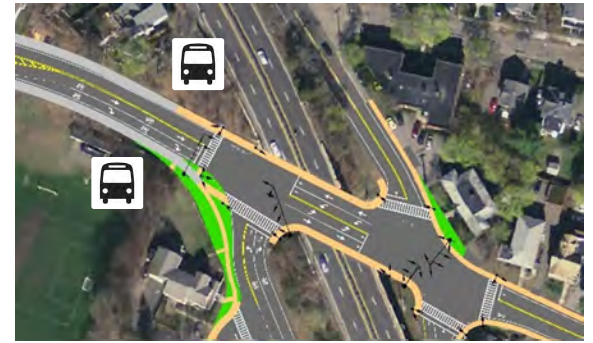
- All new traffic signals equipment
- Proper clearance intervals
- Adaptive signal control
- Additional lanes west of interchange
- Left turn pockets added





# MBTA Bus Stop Locations

Coordinating with MBTA



# Highland Avenue – Needham Webster Street to Hunting Road

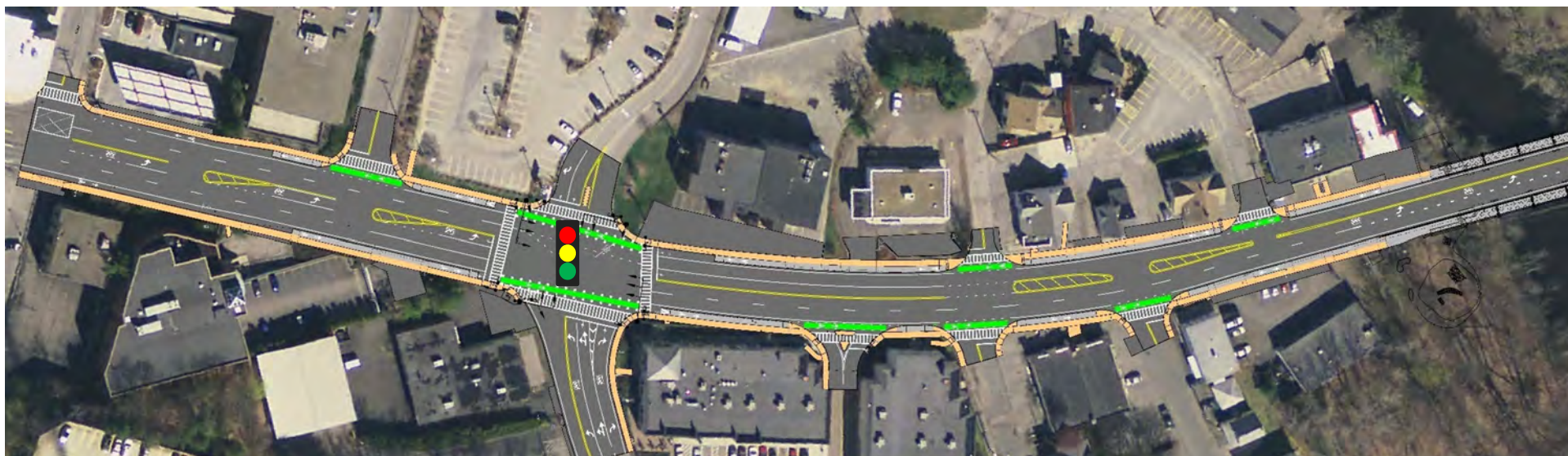
- Roadway widening
- Raised bike lane/sidewalk installation
- Signal replacements
- Some permanent land takings





# Highland Avenue - Needham Wexford Street to Charles River

- Roadway widening / full depth construction
- Raised bike lane / sidewalk installation
- Signal replacement
- Permanent land takings



# Needham / Newton Existing Bridge over Charles River

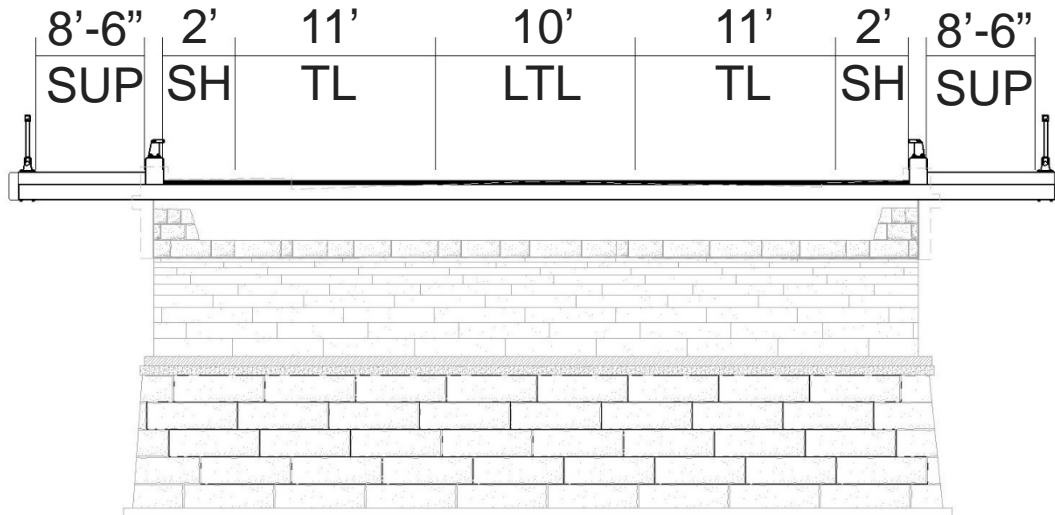


- Constructed in 1875
- Individually listed on the National Register of Historic Places
- Structurally sound
- Railings do not meet current safety standards



# Needham / Newton Proposed Bridge over Charles River

- Maintain existing bridge substructure
- Rebuild “top” of bridge to provide three lanes, shoulders, and new shared use path with ornamental rails



# Needham Street - Newton

- Roadway widening / full depth construction
- Raised bike lane / sidewalk installation
- Signal replacement / new signal installation



# Needham Street at Charlemont Street

Existing Conditions



Proposed  
Realignment  
New signal



# Winchester Street - Newton

- Roadway widening / full depth construction
- Shared Use Path for bikes and pedestrians
- Signal replacement / new signal installation
- Parking pockets



# Winchester Street at Route 9 Ramps

## Existing

- No designated crosswalks across Winchester Street
- Ramps are under stop control
- Long delays and queues for turning onto Winchester Street



## Proposed

- Provides 5 designated ped crossings
- Maintains bridge carrying Route 9
- Two New Traffic Signals



# Traffic Management

- Staged construction
- Maintain one lane minimum in each direction
- Maintain access to abutting properties at all times
- No detours planned
- Night Work where possible
- Public awareness





# In Summary...

## Pedestrian Accommodations

- Continuous sidewalks

- More and improved crosswalks across mainline

## Bicycle Accommodations

- Raised bike lanes

- Shared use walks

## Traffic Operations / Safety

- Reduced conflict points

- Narrowed curb cuts

- Upgrade and new traffic signals

- Revised timing and phasing

## Transit

- Bus stop locations

# Questions

Please  
state your name  
*prior* to asking your question



## MassDOT Contact Information

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