

# **MassDOT Highway Construction Contract: 124025**

## **Rehabilitation of Mount Auburn Street MassDOT Board of Directors**

*January 17, 2024*

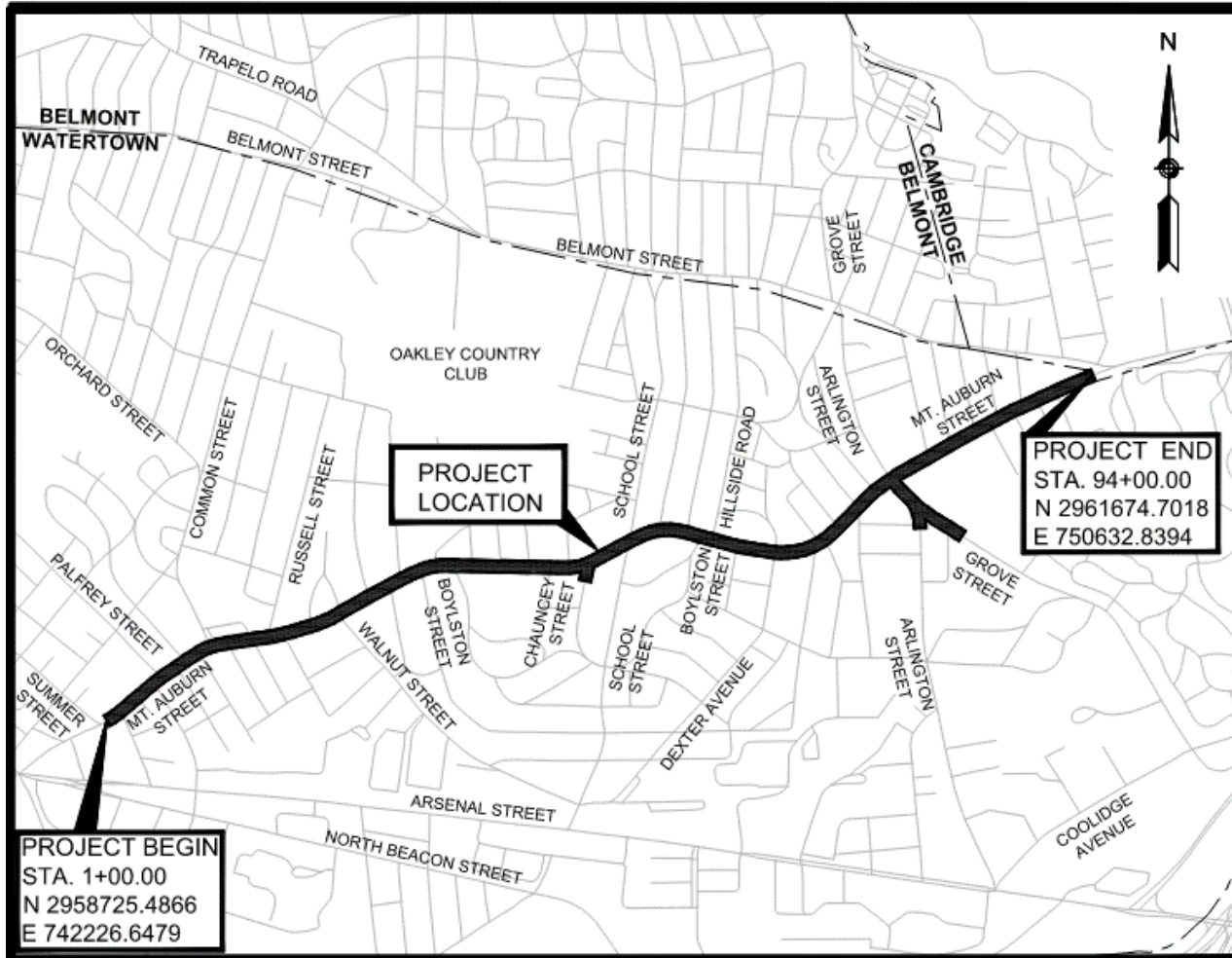


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# Project Location

## Mount Auburn Street in Watertown



### Project Limits

- Mount Auburn Street corridor from Patten Street to the Cambridge city line.

### Major Roadways Affected

- Mount Auburn Street
- School Street
- Arlington Street
- Common Street

### Total Project Length

- 1.761 Miles (Mount Auburn Street)

Construction will take approximately four years from NTP.

# Overview

## Scope of Services/Purpose & Need

### Scope of Services

- Full depth reconstruction throughout the corridor to improve the condition and safety of the roadway. Implement road diet via reallocation of available Right of Way.
- Removal of MBTA Overhead Catenary System (OCS) along Mount Auburn Street.
- Traffic signals will be replaced to meet current standards, implement Transit Signal Priority.
- Rectangular rapid flashing beacons proposed to improve crossings with ADA compliant sidewalks and pedestrian curb ramps. Curb extensions will be included to shorten crossing distance and safety.
- On road dedicated bicycle accommodations, both directions, to comply w/MassDOT complete streets.
- Utility work to upgrade drainage system. Infiltration trenches to promote groundwater recharge.

### Purpose and Need

- General pavement degradation and deterioration with utility trenches, potholes, and reflective cracking.
- Wide travel lanes promote higher prevailing speeds in combination with outdated signal equipment.
- Sidewalk conditions are fair to poor and lack ADA compliant curb ramps and crossings.
- Lack of bicycle facilities pose safety concerns.

# Procurement and Budget

- Project Advertised September 9, 2023
- Engineer’s Estimate was \$26,819,150.00
- Bid Opening was November 21, 2023
- Five (5) Bids were received:

Newport Construction Corp.	\$26,661,000.00
Albanese D & S, Inc.	\$31,735,865.00
McCourt Construction Co. Inc.	\$32,984,044.00
J H Lynch & Sons Inc.	\$33,603,752.10
P Gioioso & Sons Inc.	\$37,077,935.00

Line Item	Budget
Bid Amount	\$26,661,000.00
Contingencies (10%)	\$2,666,100.00
5% Construction Engineering	\$1,333,050.00
Traffic Police	\$1,170,000.00
Trainees	\$4,000.00
Specialty Services	\$30,000.00
Utilities	\$371,801.00
<b>Total</b>	<b>\$32,235,951.00</b>

- \$30,905,706.00 cost for this construction contract is funded with combination of Federal and State funds.
- Programmed in the 2023 STIP
- \$1,415,990.00 Funded by the City of Watertown (Non-Participating)

# Request of the MassDOT Board

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- Staff request that the MassDOT Board of Directors authorize the Secretary of the Massachusetts Department of Transportation, or their designee, to award and execute MassDOT Construction Contract 124025 – Rehabilitation of Mount Auburn Street with Newport Construction Corp. in the amount of \$26,661,000.00.

Thank You



# Appendix



# Purpose and Need (cont'd)

## Traffic and Safety Concerns

- Wide travel lanes promote higher prevailing speeds
- 18,600 vehicles per day (2018)
- Outdated signal equipment
- Pavement markings are non-standard / faded
- Transit delay along the corridor



# Purpose and Need (cont'd)

## Poor Pavement Condition

- General pavement degradation and deterioration
- Utility trenches, potholes, crack sealing
- Limited opportunities for pavement preservation
  - Overhead catenary system
- Mill and overlay not a feasible alternative
  - Pavement beyond service life



# Purpose and Need (cont'd)

## Substandard Pedestrian Accommodations

- Lack of bicycle facilities
- Fair to poor sidewalk condition in many locations
- Lack of ADA compliant pedestrian curb ramps and crossings
- Outdated pedestrian equipment



# Purpose and Need (cont'd)

## Design Recommendations from Public Process

- Maintain location of existing curb lines
- Incorporate road diet
- Retain existing tree canopy
- Maintain parking in business districts
- Improve operational efficiency
- Enhance bus service
- Improve pedestrian safety
- Provide benefits for all users (balance)
- Streetscape amenities



# Construction Scope

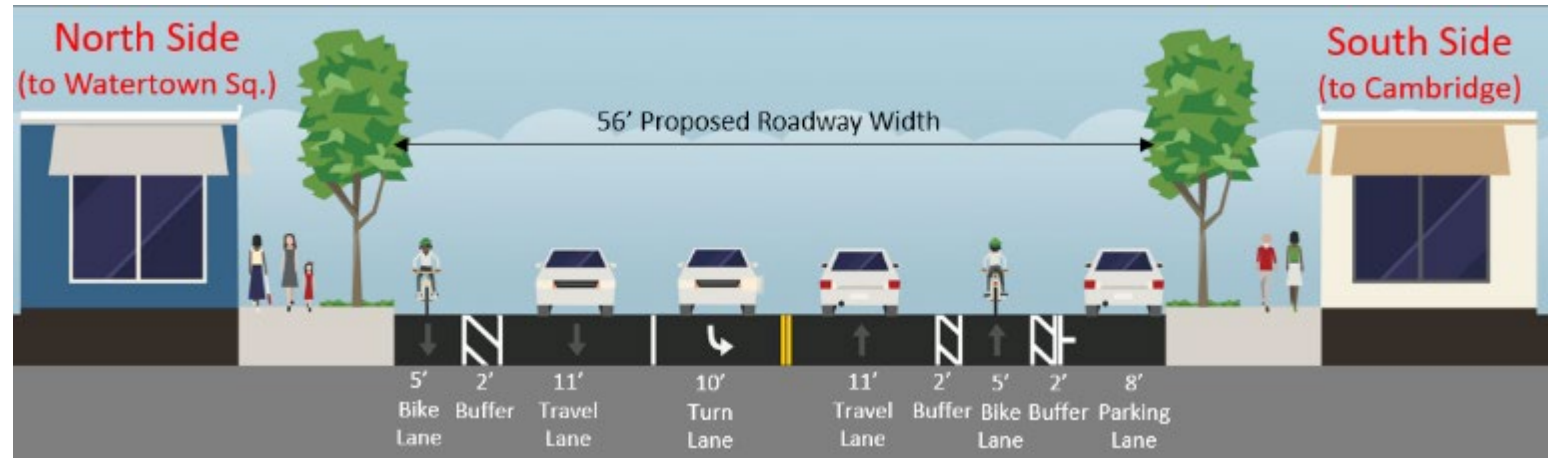
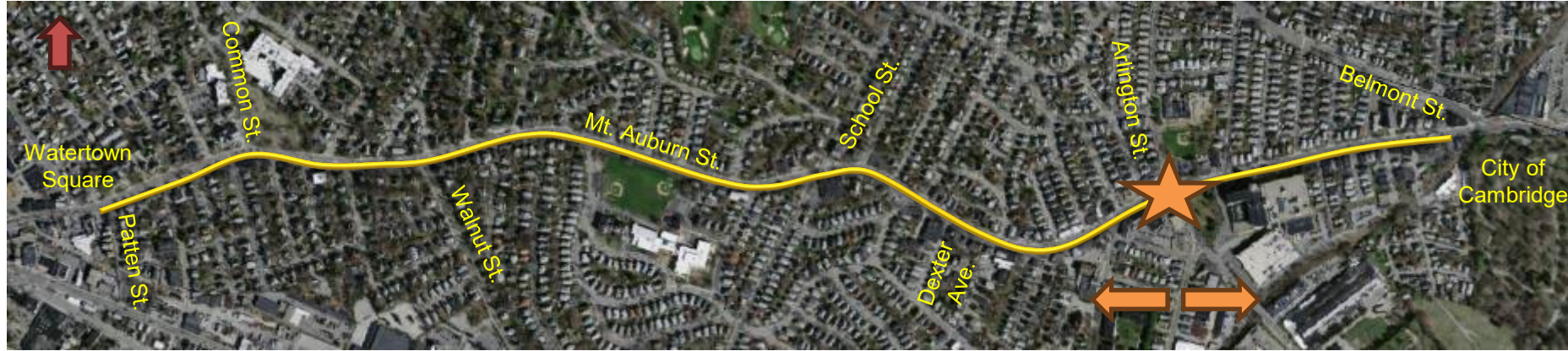
## Proposed Improvements

- Implement complete streets initiatives via “road diet”
- Operational improvements / traffic signal upgrades
- Improve transit services
- Enhance pedestrian crossings / ADA compliance with more visible crossings
  - Rectangular Rapid Flashing Beacons (RRFB’s)
- Pavement reconstruction
- Provide on-street buffered bicycle lanes
- New cement concrete sidewalks and pedestrian curb ramps
  - Curb extensions at crosswalks
- Drainage system modifications / installation of stormwater infiltration trenches
- Streetscape / landscape enhancements corridor wide

# Construction Scope (Cont'd)

## Proposed Improvements West of Coolidge Square

- Full depth pavement reconstruction
- Sidewalks in each direction with grass planting strip
- 8-ft parking lane on the south side
- 5-ft bike lanes in each direction (2-ft painted buffers)
- 11-ft travel lanes in each direction
- 10-ft turn lanes at signals & major side streets
- New ADA compliant concrete pedestrian curb ramps



# Construction Scope (Cont'd)

## Proposed Improvements East of Coolidge Square

- Full depth pavement reconstruction
- Sidewalks in each direction with grass planting strip
- 8-ft parking lanes on each side of the corridor
- 5-ft bike lanes in each direction (2-ft painted buffers)
- 11-ft travel lanes in each direction
- 10-ft turn lanes at signals & major side streets
- New ADA compliant concrete pedestrian curb ramps



# Construction Scope (Cont'd)

## Proposed Improvements

### Pedestrians

- New ADA sidewalks and pedestrian curb ramps
- Traffic signals with audible pushbuttons and standardized crossing times
- Curb extensions at crosswalks adjacent to on-street parking
- Rectangular Rapid Flashing Beacons (RRFB's) at select crosswalk locations





# Construction Scope (Cont'd)

## Proposed Improvements

### Bicycles

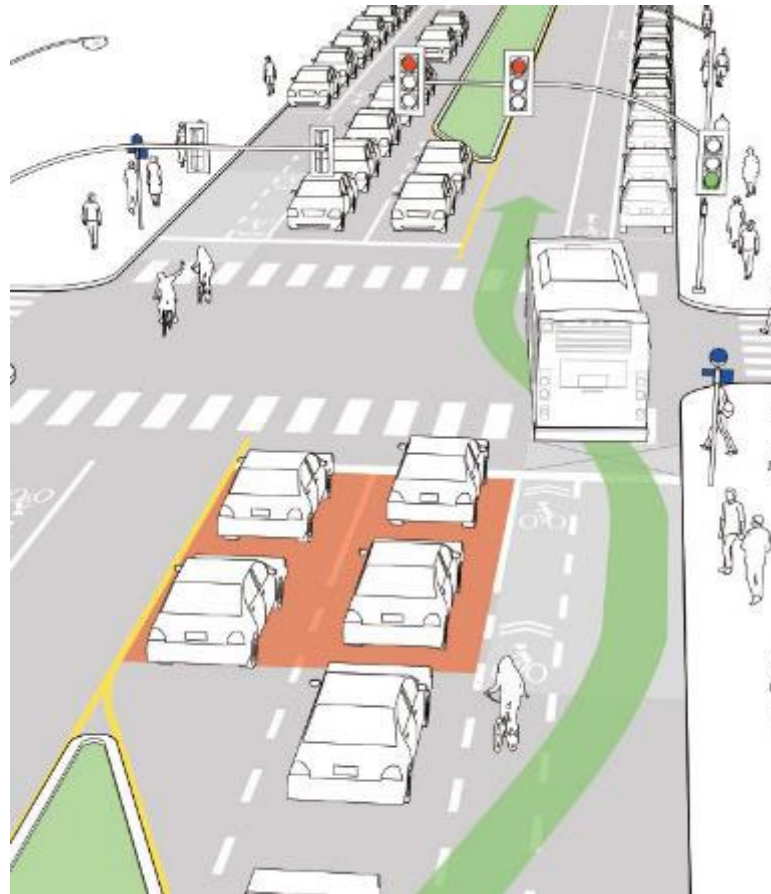
- Buffered / non-buffered bicycle lanes to the extent feasible
- Shared bus / bicycle lanes where space is constricted
- Bicycle racks at placemaking areas along the corridor



# Construction Scope (Cont'd)

## Proposed Improvements Transit

- Location of bus stops will improve safety for all users
- ADA accessible bus stops
- Shelters at stops based on boarding data
- Marked bus stops (as space permits)
- Improve transit operations
- Transit signal priority (TSP)
- Queue jump lanes
- Shared bus / bike lanes



# Construction Scope (cont'd)

## Traffic Impacts

- Pavement reconstruction in most areas
- Temporary shifting of traffic using signage and police details
- Short-Term temporary road closures may be anticipated
- Temporary pedestrian detours will ensure accessible routes throughout the duration of construction

