



## **Route 27 at Route 2 Eastbound Ramps Intersection Safety Improvements Acton, MA**

### *Public Information Meeting*

Virtual Meeting | December 13, 2023 | 7:00 PM

Project No. 610553





# Zoom Webinar Controls for Meeting



- Ask a question and share comments



- Drop down menu to check microphone and speakers



- Raise your hand - \*9 for users dialing in and Alt + Y to raise your hand



- If you are unable to access the internet or are having technical problems, please call into the meeting at +1 309 205 3325, Webinar ID: 860 3036 2898



Live Transcript

- Closed captioning automatically generated by Zoom

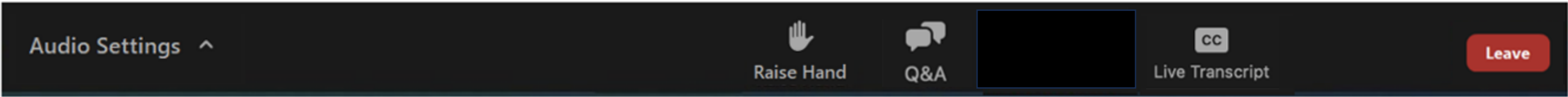


View

- Use the View button in the upper right-hand corner to adjust the meeting view settings to your preference

If you have trouble with the meeting technology during the presentation, please call:

[1.888.799.9666]



# Public Meeting Notes and Procedures

## Public record

- While this virtual public meeting is not being recorded by zoom, MassDOT may choose to retain and distribute the images, audio and the Q&A transcript from this meeting.
- All parts of this meeting are considered public record.
- If you are not comfortable being part of the official record, please refrain from using the Q&A feature or you may choose to excuse yourself from the meeting. Information from this meeting will be posted on Mass.gov website.

## **Important notes**

- Your microphone and webcam are automatically disabled upon entering the meeting.
- This meeting will be open to questions and answers at the end of the presentation.
- Please take time to respond to our survey at the end of the presentation. Your feedback is important.

## Notice of MassDOT's policy on diversity and civil rights

- All MassDOT activities, including public meetings, are free of discrimination.
- MassDOT complies with all federal and state civil rights requirements preventing discrimination based on sex, race, color, ancestry, national origin (limited English proficiency), religion, creed, gender, sexual orientation, gender identity or expression, or veteran's status.
- We welcome the diversity from across our entire service area. If you have any questions or concerns, please visit <https://www.mass.gov/nondiscrimination-in-transportation-program> to reach the Office of Diversity and Civil Rights.

**All questions and comments are welcome and appreciated, however we do request that you refrain from any disrespectful comments.**



# Presentation Participants

- **MassDOT**

- Project Manager: Muazzez G. Reardon
- District 3: Ann E. Sullivan
- District 3: Lori Shattuck
- Producers: Chris Klem and Leah Grodstein



- **GPI**

- Zach Wassmouth, P.E.
- Joe Johnson, P.E., PTOE



# Advertisements

- Action Unlimited Acton
  - December 1, 2023
- Lowell Sun
  - November 29, 2023
  - December 6, 2023
- MassDOT Website
  - Notice and Flyer posted on October 25, 2023
- MassDOT Social Media
  - MassDOT Facebook
  - MassDOT Twitter



**PUBLIC INFORMATION MEETING**

**INTERSECTION SAFETY IMPROVEMENTS**

**AT ROUTE 27 (MAIN STREET) AND ROUTE 2 EASTBOUND RAMPS**

**ACTON, MA**

**What is happening?**

A Live Virtual Public Information Meeting will be hosted on the MassDOT website below to present the preliminary design for the Intersection Safety Improvements at Route 27 (Main Street) and the Route 2 Eastbound Ramps in Acton, MA.

**How will this affect you?**

MassDOT has developed a preliminary design for the intersection of Route 27 (Main Street) and the Route 2 Eastbound On/Off Ramps to enhance safety and operational efficiency. The proposed project extends along Route 27 (Main Street) from the easterly limit of the adjacent Kelley's Corner project to the westerly limit of the bridge over Route 2. Additional striping improvements may extend beyond these limits. The proposed design of the intersection consists of a mixed-lane roundabout to improve overall safety and mobility by implementing sidewalks, marked crosswalks, and dedicated bicycle accommodations.


**When**

Wednesday, December 13, 2023  
7:00 PM

**Attend**

[www.mass.gov/orgs/highway-division/events](https://www.mass.gov/orgs/highway-division/events)





To ensure its meetings are accessible, MassDOT reasonably provides: translation, interpretation, modifications, accommodations, alternative formats, and auxiliary aids and services. To request such services, please contact MassDOT's Chief Diversity and Civil Rights Officer at 857-368-8580 or [MassDOT.CivilRights@dot.state.ma.us](mailto:MassDOT.CivilRights@dot.state.ma.us). For adequate time to process such request, please make them as early as possible, ideally 10-15 days prior to the event.

Project inquiries may also be emailed to [MassDOTProjectManagement@dot.state.ma.us](mailto:MassDOTProjectManagement@dot.state.ma.us). Please submit any written statements regarding the proposed undertaking to: **Carrie A. Lavallee, P.E., Chief Engineer, MassDOT, 10 Park Plaza, Boston, MA 02116, Attention: PROJECT MANAGEMENT, PROJECT FILE NO. [610553]**

**THE COMMONWEALTH OF MASSACHUSETTS**  
**MASSACHUSETTS DEPARTMENT OF TRANSPORTATION – HIGHWAY DIVISION**  
**NOTICE OF A PUBLIC OUTREACH**  
**Project File No.610553**

A Live Virtual Public Information Meeting will be hosted on the MassDOT website below to discuss Intersection Improvements at Route 2 and Route 27 Ramps project in **Acton, MA**.

**WHEN: 7:00PM, Wednesday, December 13, 2023**

**PURPOSE:** The purpose of this meeting is to provide the public with the opportunity to become fully acquainted Intersection Improvements at Route 2 and Route 27 Ramps project. All views and comments submitted in response to the meeting will be reviewed and considered to the maximum extent possible.

**PROPOSAL:** The proposed project consists of improvements at the intersection of Route 27 (Main Street) and the Route 2 Eastbound Ramps to enhance safety and operational efficiency. The proposed project extends along Route 27 (Main Street) from the easterly limit of the adjacent Kelley's Corner project to the westerly limit of the bridge over Route 2. Additional striping improvements may extend beyond these limits. The proposed design of the intersection consists of a mixed-lane roundabout to improve overall safety and mobility by implementing sidewalks, marked crosswalks, and dedicated bicycle accommodations.

This meeting is accessible to people with disabilities. MassDOT provides reasonable accommodations and/or language assistance free of charge upon request (e.g interpreters in American Sign Language and languages other than English, live captioning, videos, assistive listening devices and alternate material formats), as available. For accommodation or language assistance, please contact MassDOT's Chief Diversity and Civil Rights Officer by phone (857-368-8580), TTD/TTY at (857) 266-0603, fax (857) 368-0602 or by email ([MassDOT.CivilRights@dot.state.ma.us](mailto:MassDOT.CivilRights@dot.state.ma.us)). Requests should be made as soon as possible and prior to the meeting, and for more difficult to arrange services including sign-language, CART or language translation or interpretation, requests should be made at least ten business days before the meeting.

This meeting will be hosted, or a cancellation announcement posted, on the internet at <https://www.mass.gov/orgs/highway-division/events>.

**JONATHAN GULLIVER**  
HIGHWAY ADMINISTRATOR

**CARRIE E. LAVALLEE, P.E.**  
CHIEF ENGINEER



# Funding

- Total estimated cost is \$5.8M
- Cost does not include any Right-Of-Way acquisition costs
- Project will be programmed in the Statewide Transportation Improvement Program (STIP) in the appropriate Federal Fiscal Year (to be determined)
- Funding Sources:
  - Federal Aid (80%)
  - State Funds (20%)





# Project Overview

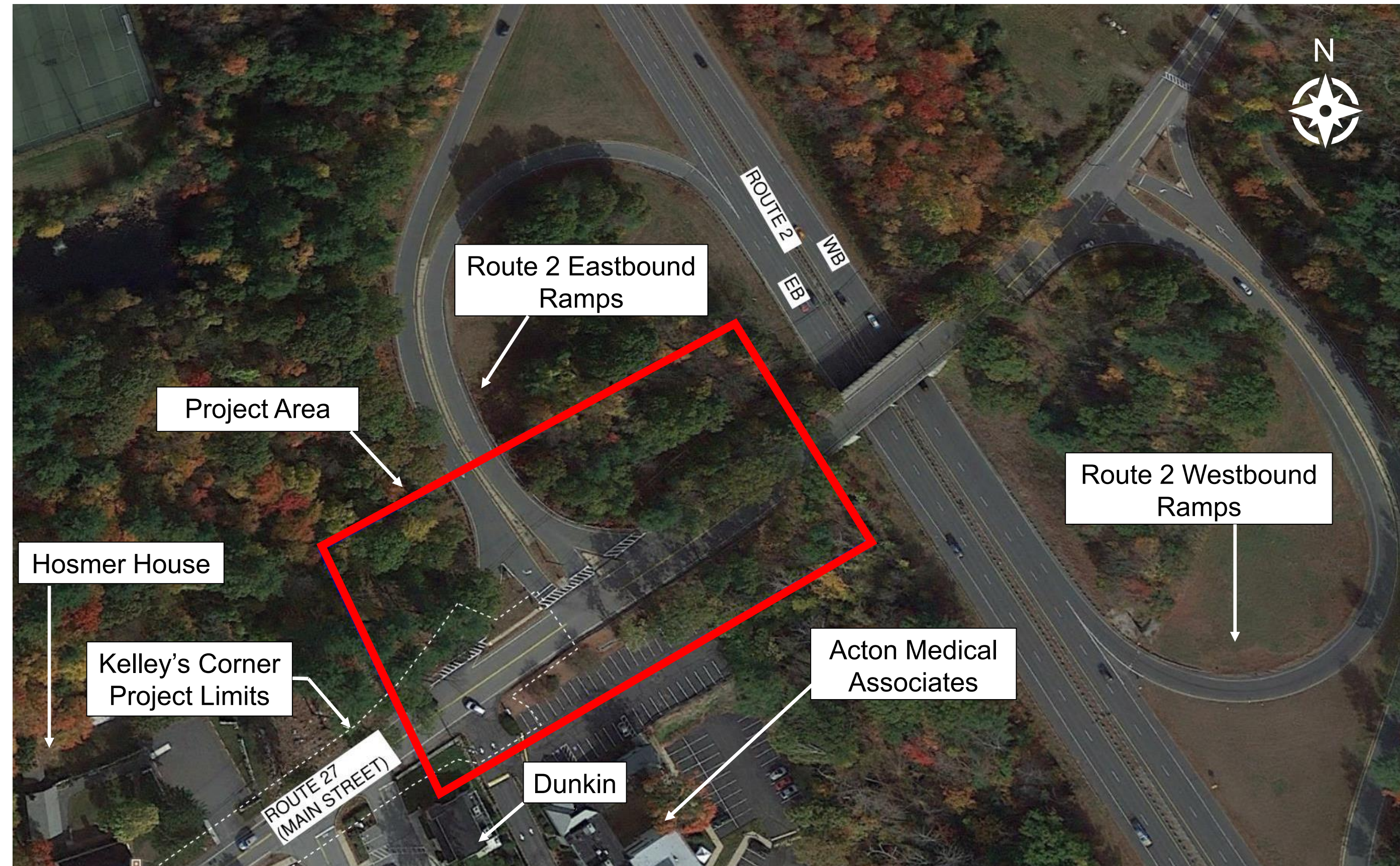
- 01 Project Area
- 02 Project History
- 03 Existing Conditions
- 04 Project Goals
- 05 Design Alternatives
- 06 Preferred Alternative
- 07 Construction/Traffic Impacts
- 08 Next Steps
- 09 Contact Information
- 10 Questions





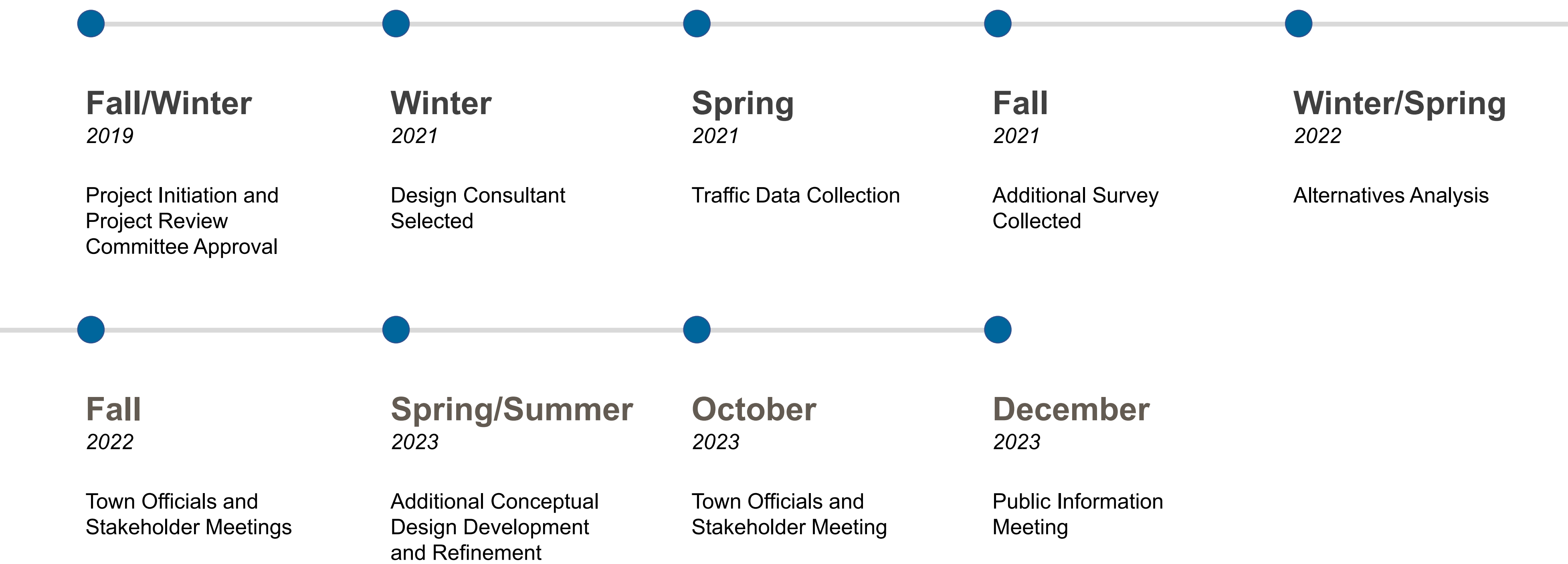
## Project Location

- Route 27 at Route 2 Eastbound Ramps
- Abuts Kelley's Corner Project (MassDOT Proj#:608229)





# How did we get here?







**Why was this  
project  
initiated?**



# Existing Issues

## Operational and Safety Concerns:

### I. Crashes

#### 1. Route 2 channelized ramp to Route 27 SB

- Yield control is overcapacity
- Skewed approach angle





## Existing Issues (cont'd)

### Operational and Safety Concerns:

#### I. Crashes

##### 1. Left-turn from Route 2 EB Off-ramp to Route 27 NB

- Heavy traffic on Route 27
- Inadequate gaps





## Existing Issues (cont'd)

### Safety Concerns:

#### I. Crashes

1. Left-turn from Route 27 NB to Route 2 EB On-ramp
  - No refuge for left-turn vehicles
  - Wide undefined travel lane





## Existing Issues (cont'd)

### Safety Concerns:

#### I. Crashes

1. Acton Medical Associates Driveway
  - Located opposite to channelized ramp







**What do we  
want to  
accomplish?**



## Project Purpose

- Improve intersection safety
- Improve intersection operations
- Provide pedestrian and bicycle accommodations







**What  
alternatives  
were  
considered?**



# Project Alternatives

Signalized Intersection Alternatives



Roundabout Alternatives



Legend

Grass/Landscape

Concrete Sidewalk/Median/SUP

Asphalt Roadway

Mountable Apron



# Alternative 1: Signalized



Legend

Grass/Landscape

Concrete Sidewalk/Median/SUP

Asphalt Roadway

Mountable Apron

# Alternative 2: Roundabout



Intersection Control Evaluation Results								
INTERSECTION ALTERNATIVE	DESIGN AND CONSTRUCTION COST	OPERATIONS AND MAINTENANCE COST	DRIVER DELAY	SAFETY	LONG-TERM BENEFIT	TRAFFIC CALMING	ROW IMPACTS	RECOMMENDATION
ALTERNATIVE 1 - SIGNAL	\$2,500,000	HIGHEST	MORE	LESS	LOWEST	NONE	MOST	
ALTERNATIVE 2 - ROUNDABOUT	\$5,800,000	LOWEST	LEAST	MORE	HIGHEST	HIGH	LEAST	PREFERRED





**What is the  
preferred  
alternative?**



# Preferred Alternative





# Anticipated Intersection Operations

- Future condition improvement over the existing condition
- Reduce crash severity and vehicle speeds
- Promotes traffic calming
- Pedestrian and bicycle accommodations throughout project area

Route 27 at Route 2 Eastbound Ramps		Overall Intersection Vehicle Delay (s)		Overall Intersection Level of Service	
Analysis Scenario		AM Peak	PM Peak	AM Peak	PM Peak
Future (2044) with No Improvements		68.0	19.2	F	C
Future (2044) with Roundabout		11.6	10.0	B	A






**How will  
bicyclists and  
pedestrians  
be impacted?**



# Pedestrian Improvements



- ADA Pedestrian curb ramps provided throughout the intersection
- Proposed 8'-10' shared-use paths along both sides of the roadway
- Highly visible crosswalks
- Short, two-stage crossings
- Enhanced crossing treatments to be determined

Legend	
	Grass/Landscape
	Concrete Sidewalk/Median/SUP
	Asphalt Roadway
	Mountable Apron





# Bicyclists at Roundabouts



Slower vehicle operating speeds make roundabouts safer and more comfortable for bicyclists



Bicyclists can either use the roundabout as a vehicle or use dedicated ramps to access the crosswalks





**What is the  
construction  
approach?**





## Proposed Construction Approach

- Much of the work to be constructed outside of the current roadway intersection footprint
- Existing travel lanes to be maintained as much as possible to limit travel disruption
- The contractor will develop a staging plan to share with the community prior to construction
- Variable Message Boards will be used to convey construction activity information





# Our anticipated next steps



25% Design Submission  
Spring 2024



Design Public Hearing  
Fall 2024



Final Design Submission  
Summer 2026



Project Advertisement & Construction  
To be Programmed





**How will we  
keep you  
informed?**



## Contact Information

- **Submit Comments via Mail:**

Carrie Lavalley, P.E.  
Chief Engineer MassDOT  
10 Park Plaza  
Suite 6340  
Boston, MA 02116  
Att. Roadway Project Management Project File No.  
610553

- **Submit Comments or Inquiries via E-Mail:**

[MassDOTProjectManagement@dot.state.ma.us](mailto:MassDOTProjectManagement@dot.state.ma.us)

Subject: MassDOT Project File No. 610553 - Acton

**Email is preferred!**





# Thank You for Your Support

- Town of Acton
- Acton Main Medical Center
- Boston Region Metropolitan Planning Organization
- Registry of Motor Vehicles



*Town of*  
**Acton** *Massachusetts*



REGISTRY OF MOTOR VEHICLES





**Questions and  
discussion**



## Questions and Answers



- “Raise your hand” to be unmuted for verbal questions (Alt + Y)



- Submit your questions and comments using the Q&A button (Alt + H)



- Please state your name before your question



- Please share only 1 question or comment at a time, limited to 2 minutes, to allow others to participate



- To ask a question via phone, dial \*9 and the moderator will call out the last 4-digits of your phone number and unmute your audio when it is your turn



- Please take a few minutes to complete the survey after the meeting to let us know how your experience was with this virtual meeting

**All questions and comments are subject to disclosure for public records. Please use these functions for project related business only.**





## Route 27 at Route 2 Eastbound Ramps Intersection Safety Improvements Acton, MA

*Thank you*

Virtual Meeting | December 13, 2023 | 7:00 PM

Project No. 610553

