



Welcome!

Route 2A (Marrett Road) Over I-95 Bridge
Replacement
Lexington | Project File No. 603722

**DESIGN PUBLIC HEARING
VIRTUAL MEETING**

October 14, 2021

Introduction

- **Anthony Christakis, MassDOT Project Manager**
- **Michael Ruderman , MassDOT Right-of-Way Section**
- **Jayson Gauvin, E.I.T. – Green International Affiliates**
- **Tiffany Card, P.E. – Green International Affiliates**
- **Wing Wong, P.E., PTOE – Green International Affiliates**
- **Thomas Bigelow, P.E. – Green International Affiliates**

Project Team

MassDOT's Highway Division

Project Proponent

Responsible for administering the Design Process, obtaining any necessary easements, and providing Resident Engineer Services

Green International Affiliates, Inc.

Responsible for Design

Federal Highway Administration

Responsible for Oversight

Project Schedule

**Revised 25% Design
Submittal**

10/26/2020

Final Design

2022

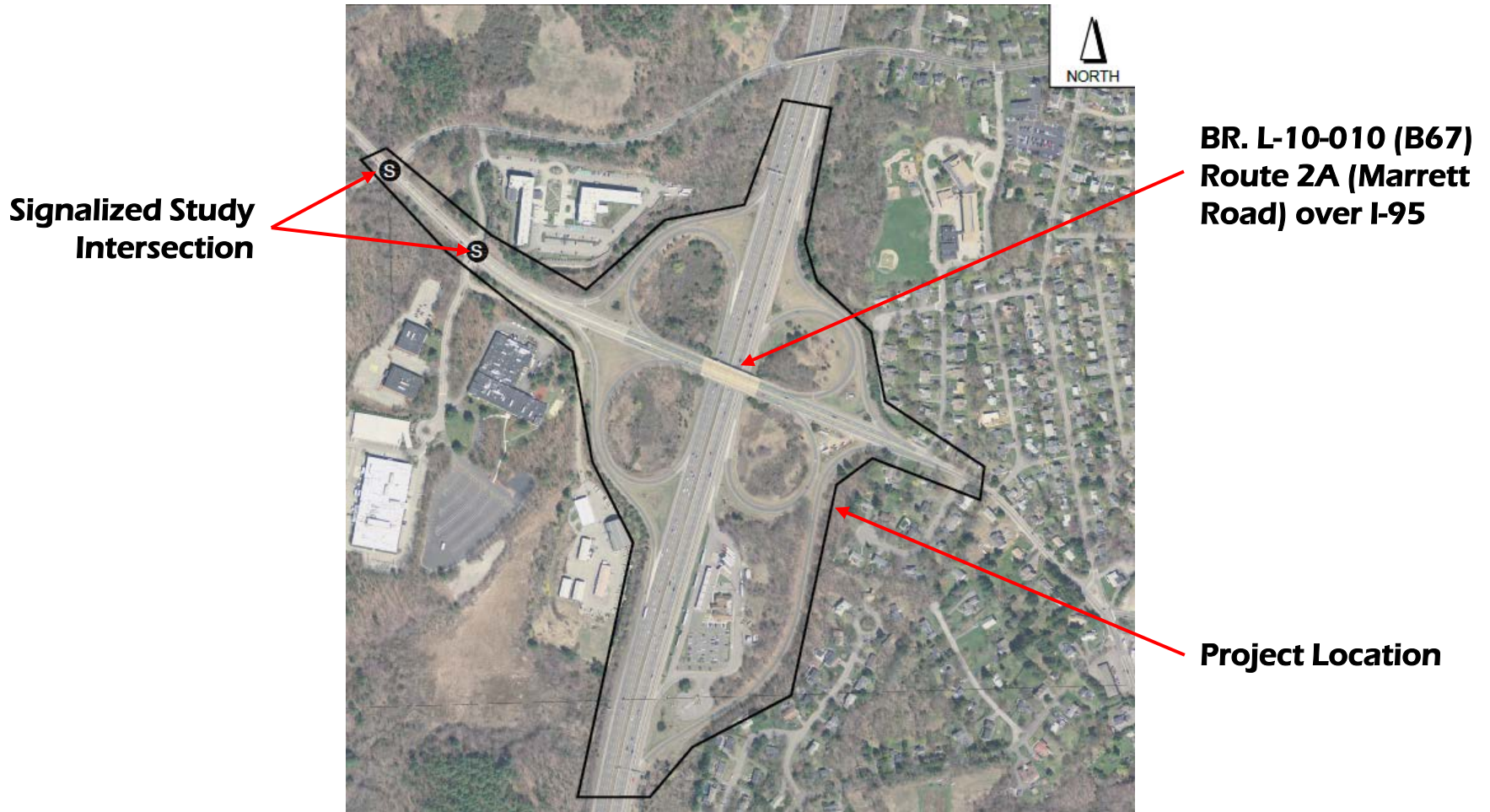
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Construction Starts

2023

Project Area

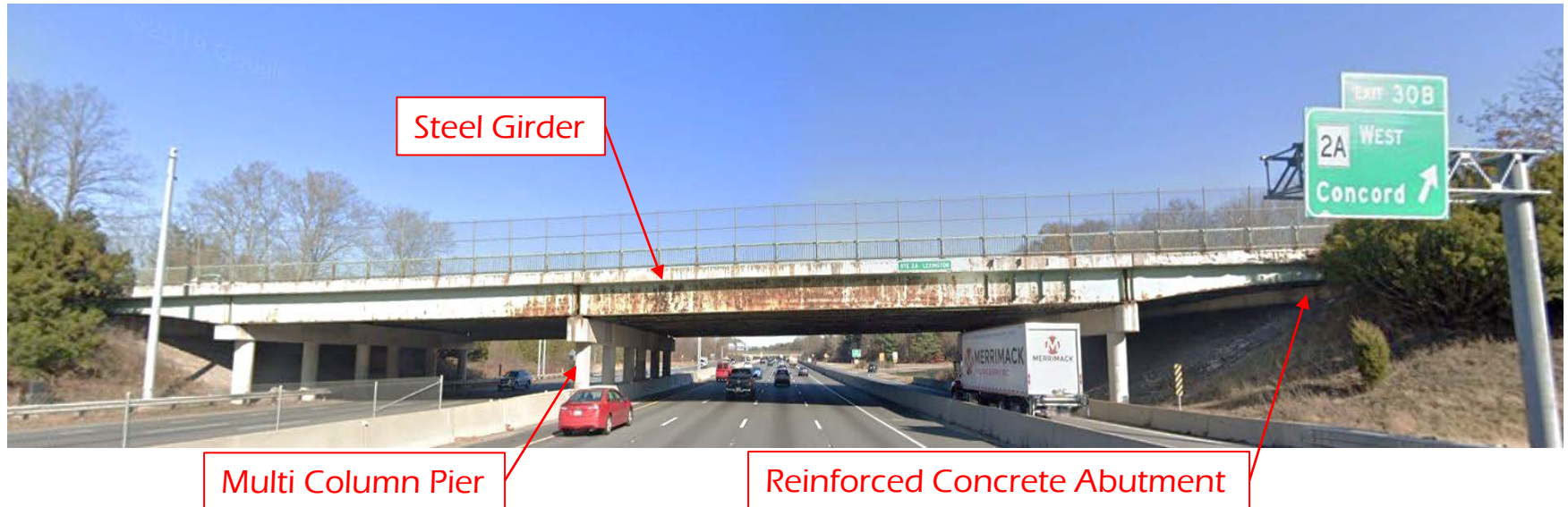


Existing Conditions

- **Location:** Lexington, MA
- **Project Location:** Bridge No. L-10-010 is located approximately 1,200 feet east of the intersection of Forbes Road and Marrett Road (Route 2A)
- **Roadway Classification:** Route 2A: Urban Minor Arterial
- **Project Length:** 0.92 miles (4,858 feet)
- **Posted Speed Limits:** 45 mph
- **Average Daily Traffic (ADT):** 16,500 vehicles (2020)
- **Average Daily Truck % (T):** 3.5%

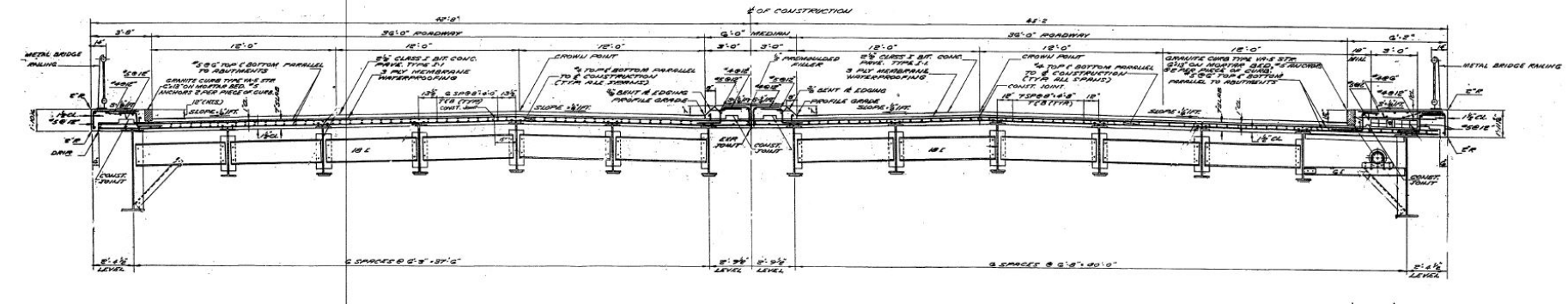
Existing Bridge

- Built in 1961
- Four span approximately 300' long and 84' wide
- Steel stringers/girders
- Reinforced concrete abutments and wingwalls with three multi column piers



Existing Bridge

- Two (2) travel lanes in each direction with a median and a sidewalk on north side
- Metal bridge railing and fencing on each side





**Why do we need
this project?**



Existing Issues

- **Structurally deficient bridge**
- **Intersection Safety**
- **Congestion**
- **Sidewalks/Pedestrian ramps not ADA compliant**
- **No Bicycle Accommodations**
- **Poor Pavement Condition**

Existing Issues cont.



Deteriorated bridge deck
& heavy rust on girders



Deteriorating riding surface, rusting
bridge rail, and settling sidewalk

Existing Issues cont.



Overgrown sidewalk, deteriorating curb and pavement



Sidewalks and pedestrian curb ramps not ADA compliant

Project Goals

- Replace Existing Structurally Deficient Bridge
- Improve Traffic/Safety for All Roadway Users
- Improve Lighting Conditions Throughout Length of Project
- Minimize Impacts to Abutters

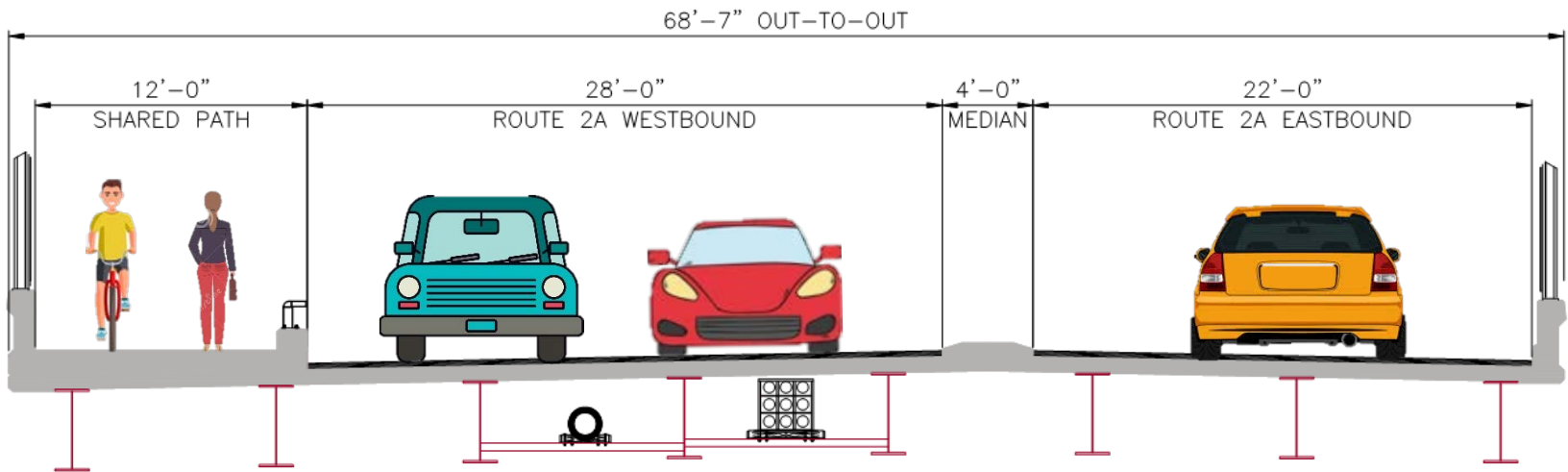
Proposed Improvements Cont.



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 Lexington, MA
 Design Public Hearing

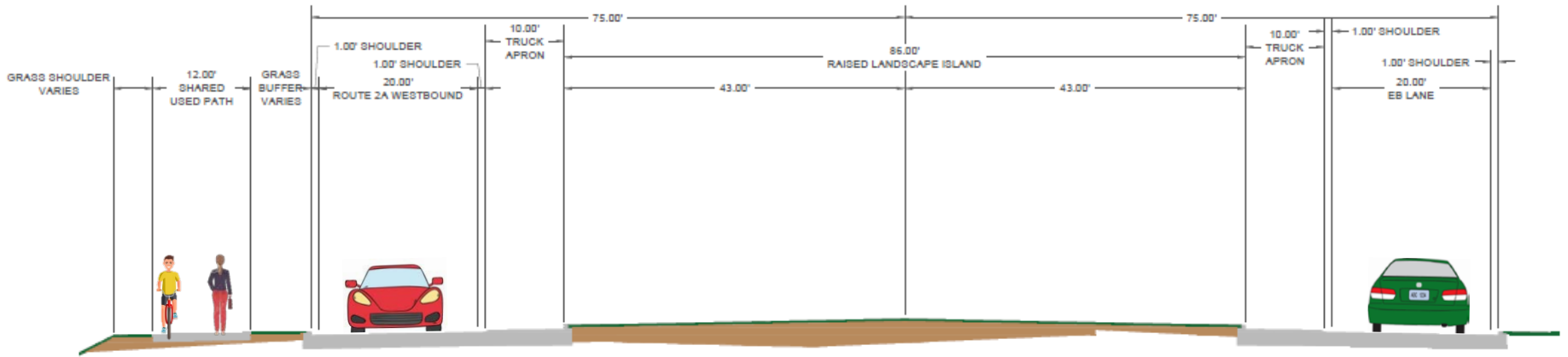


Proposed Improvements cont.



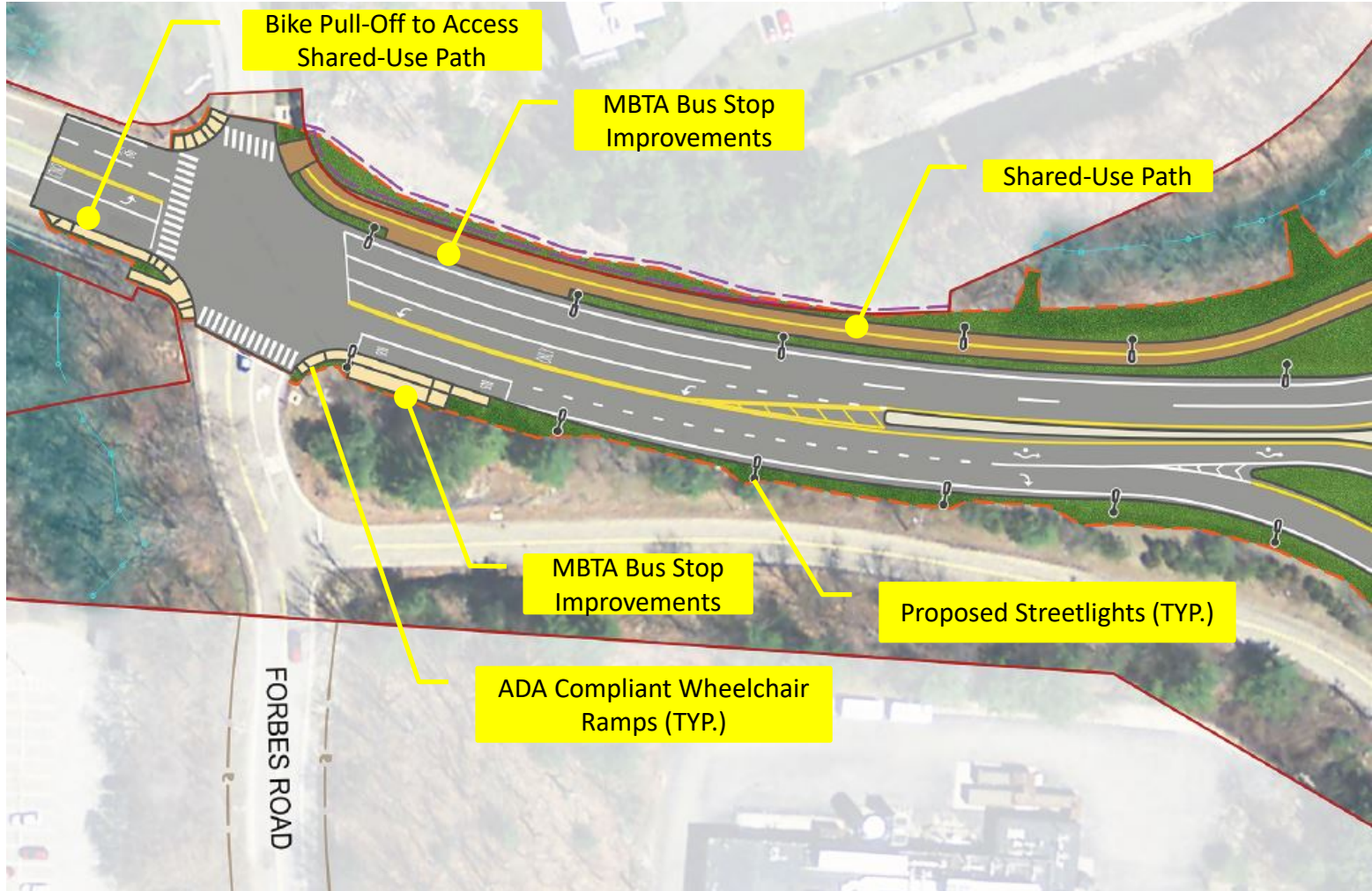
Typical Bridge Section

Proposed Improvements Cont.



Typical Roundabout Section

Route 2A at Forbes Road

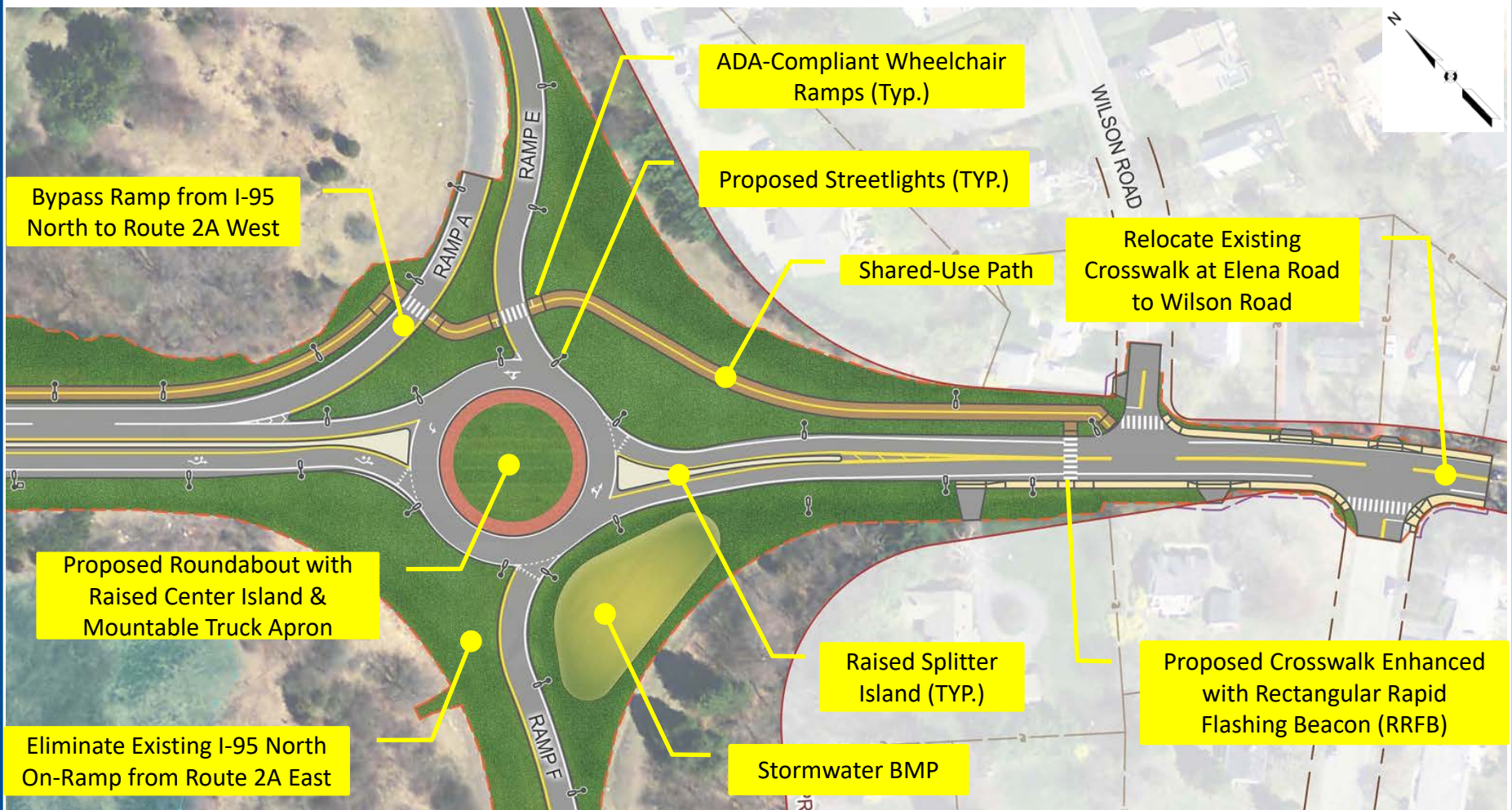


Route 2A at I-95 South Ramps



Route 2A Project Bridge







How will traffic
be affected?



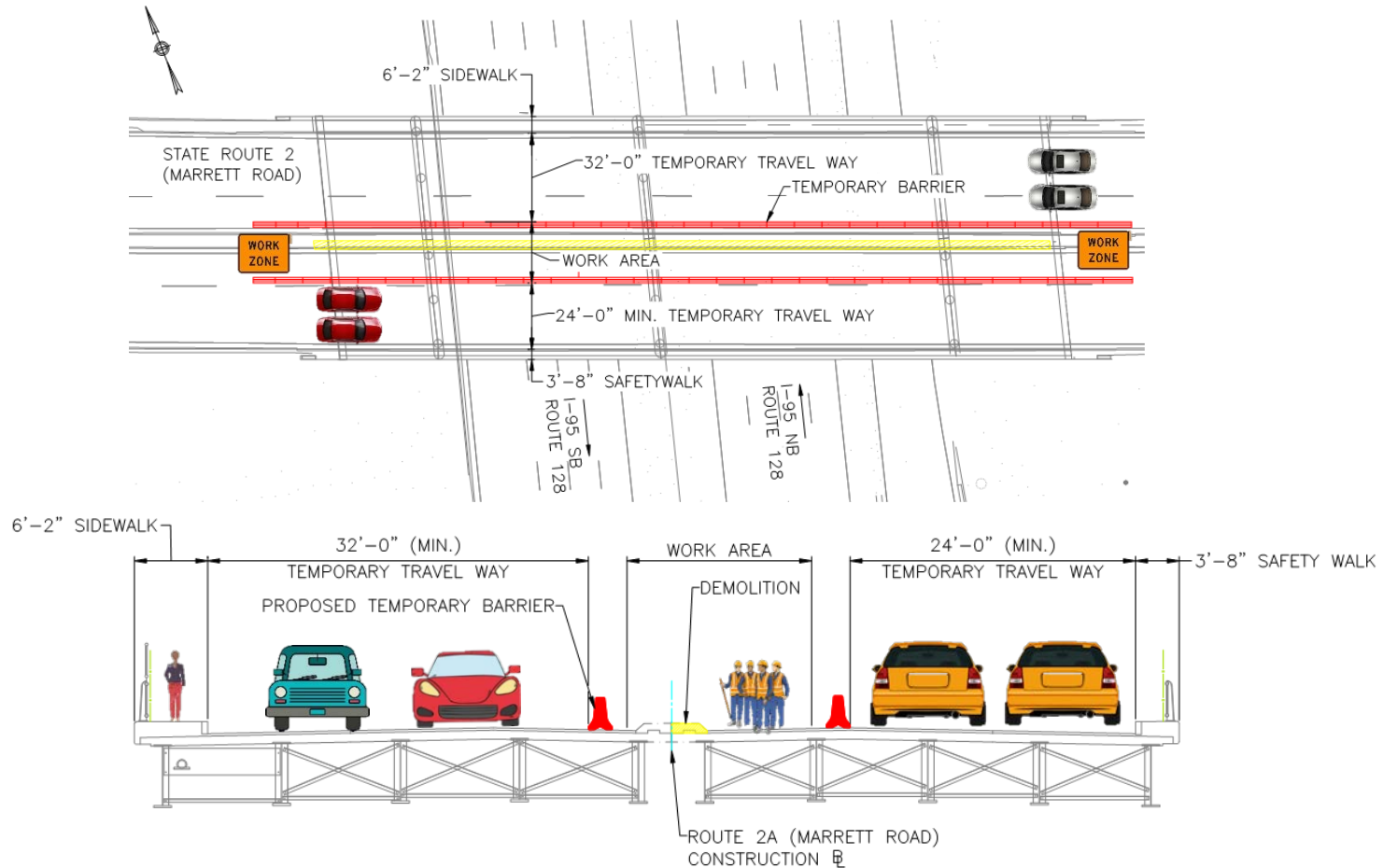
ALERT: Traffic Impacts

- **Route 2A Bridge**
 - Traffic impacts will be minimized when possible.
 - **Multiple Staged Construction**
 - Allows us to maintain two-way traffic and avoid lane closures.
 - Roundabouts constructed in stages
 - **Short-Term Closures for Bridge Demolition/Reconstruction**
 - Closures along I-95 and Route 2A limited to nighttime.
 - Detour routes proposed.



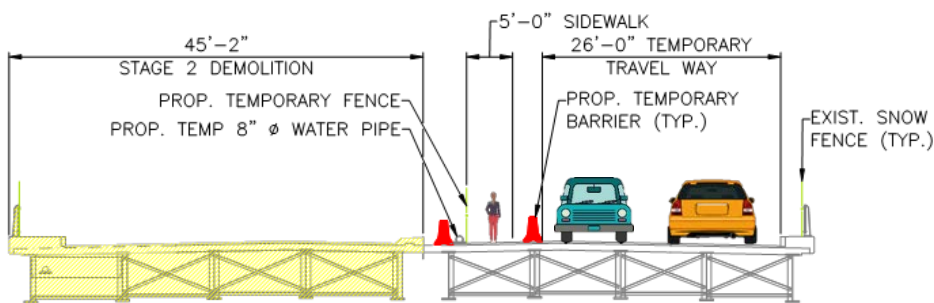
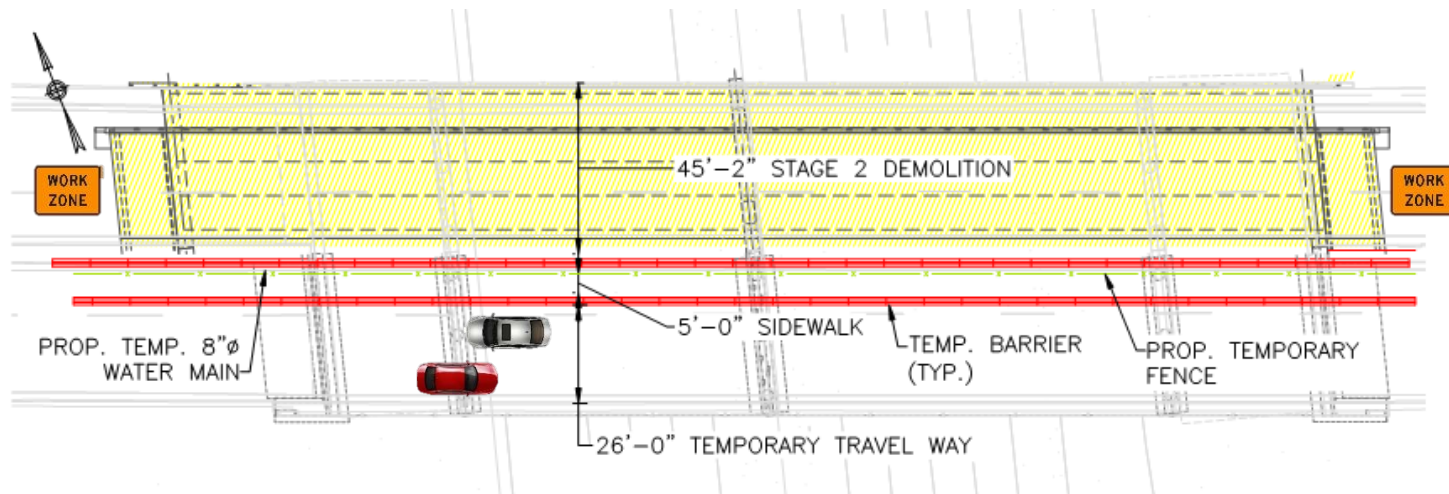
Staged Construction: Bridge

Bridge Stage 1

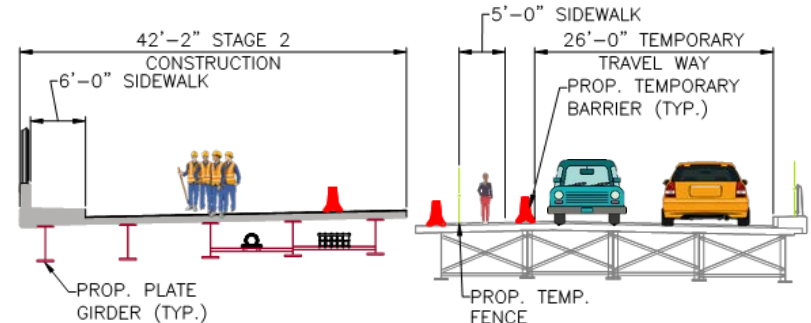


Staged Construction: Bridge

Bridge Stage 2



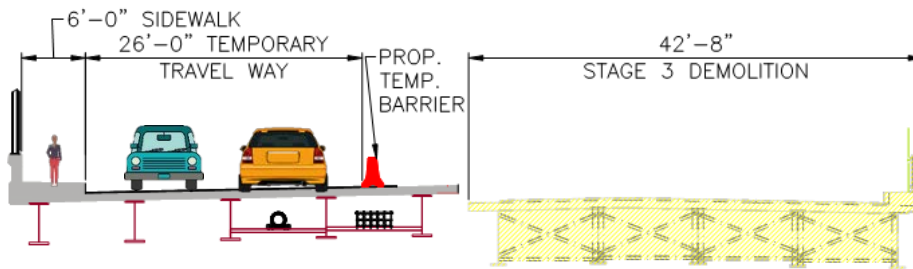
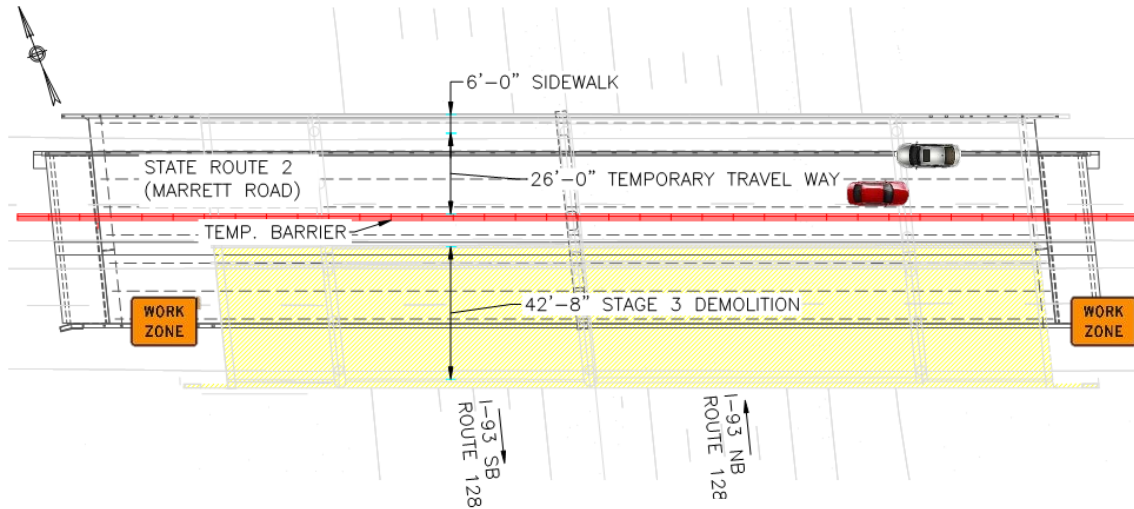
Stage 2 Demolition



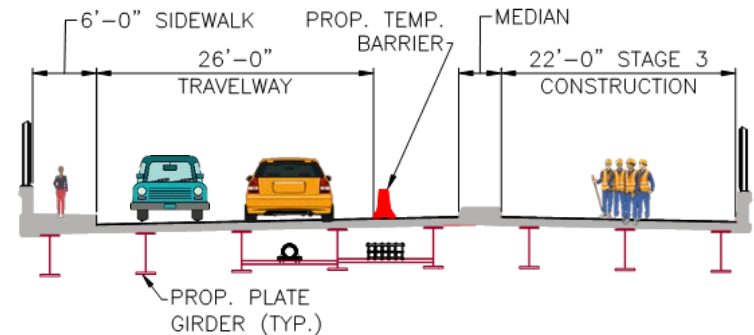
Stage 2 Construction

Staged Construction: Bridge

Bridge Stage 3



Stage 3 Demolition

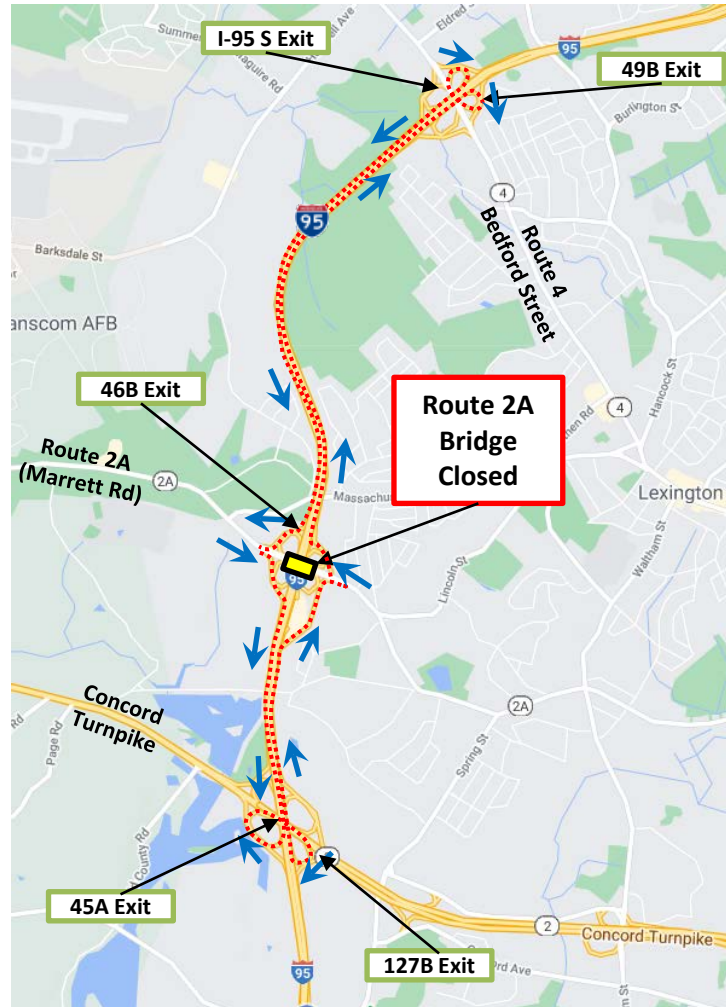





Stage 3 Construction

Stage Construction: Roundabout

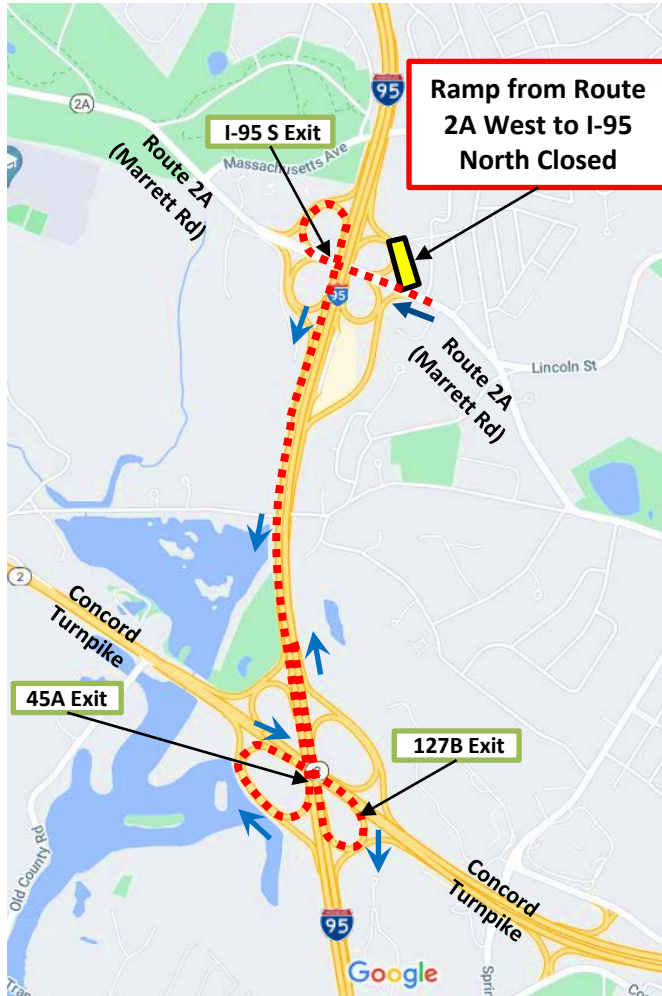
- **Majority of roundabout construction will occur after bridge construction is complete with portions of the proposed ramps and approaches constructed during bridge construction**
- **Only one roundabout will be constructed at a time**
- **Two-way traffic will be maintained during all stages**
- **Access to/from I-95 will be maintained for both directions of travel along Route 2A**
- **Roundabouts will be constructed from the inside => out**

Route 2A Detour Routes

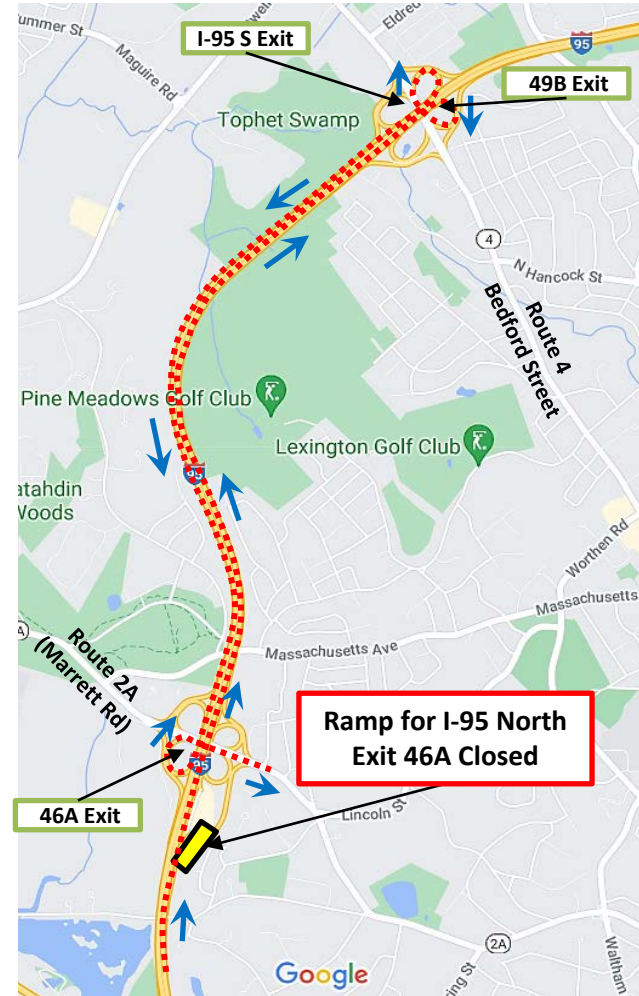


-  Work Zone
-  Direction of Proposed Detour Route
-  Proposed Detour Route

I-95 Ramp Detour Routes



Route 2A (Marrett Road) Over I-95 Bridge Replacement



- Work Zone
- Direction of Proposed Detour Route
- Proposed Detour Route

Environmental Permitting

- **Exempt from Massachusetts Environmental Policy Act (MEPA), Wetlands Protection Act, and Chapter 91**
- **National Environmental Policy Act (NEPA) – Categorical Exclusion (CE)**
- **Sections 401 and 404 of Clean Water Act – Water Quality Certificate and Preconstruction Notification**



Next Steps/Meeting

- **75% Design Submission – Late Fall 2021**
- **Permitting and Right-of-Way – Fall/Winter 2021**
- **Project Advertisement – 2022**

Contact Information



- Email comments directly to MassDOT (preferred)
 - massdotprojectmanagement@state.ma.us
 - Subject Line: Public Hearing Webinar
Comments: Project File NO. 603722
- Website address (Project Handout Form)
 - www.mass.gov/orgs/Massachusetts-department-of-transportation
- Mail Comments to MassDOT
 - Include last page of handout
 - Comments must be postmarked within 10 days of when webinar was published for inclusion in public hearing transcript
 - Mail To: Carrie Lavelle, P.E.
Chief Engineer MassDOT
Attn: Major Projects Division,
Project File 603722
10 Park Plaza
Boston, MA 02116



Thank You

Q&A

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