



Sumner Tunnel Centennial Project

Public Information Meeting

April 27 and 29, 2021 | 6:00 PM

Project File No. 606476



Zoom Controls



- Listen in Spanish (Español) or Arabic (عربي), Closed captioning automatically generated by Zoom



- Drop down menu to check microphone and speakers



- Turn camera on/off



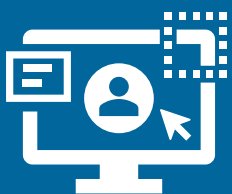
- Ask a question and share comments



- Raise your hand



- If you cannot access the internet or have technical problems, please call into the meeting at 888-788-0099, Meeting ID: 88921135782



If you have trouble with the meeting technology during the presentation, please call:
617-680-6502



Unmute



Start Video



Participants



Chat



Share Screen



Raise Hand



Interpretation

Leave

Public Meeting Notes and Procedures

Sign Up Link – www.mass.gov/service-details/sumner-tunnel-centennial-project-signup

Notification of Recording

- This virtual public meeting will be recorded. The Massachusetts Department of Transportation may choose to retain and distribute the video, still images, audio, and/or chat transcript. By continuing attendance with this virtual public meeting, you are consenting to participate in a recorded event.
- If you are not comfortable being recorded, please turn off your camera, keep your microphone muted, and refrain from chatting in the transcript box. Else you may choose to excuse yourself from the meeting. – If you prefer to excuse yourself, you can find the materials at www.mass.gov/sumner100

Other Important Notes

- Please note that you are automatically muted upon entering the meeting. The meeting will be open to questions and answers at the end of the formal presentation.

Public Meeting Agenda

1. Welcome & Overview
2. Project Background
3. Project Overview
4. Temporary Construction Impacts
5. Public Involvement and Opportunities for Input
6. Q & A

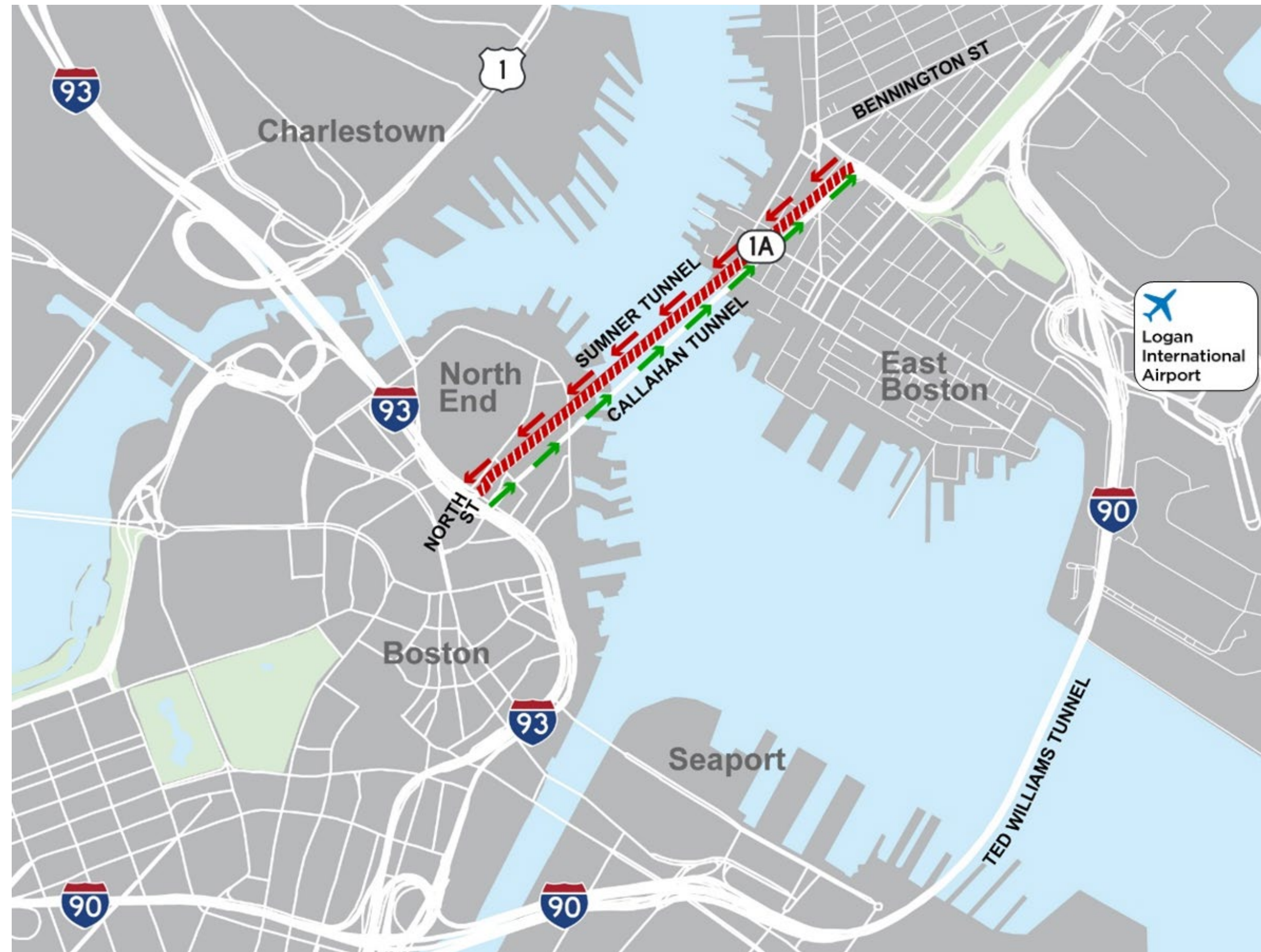




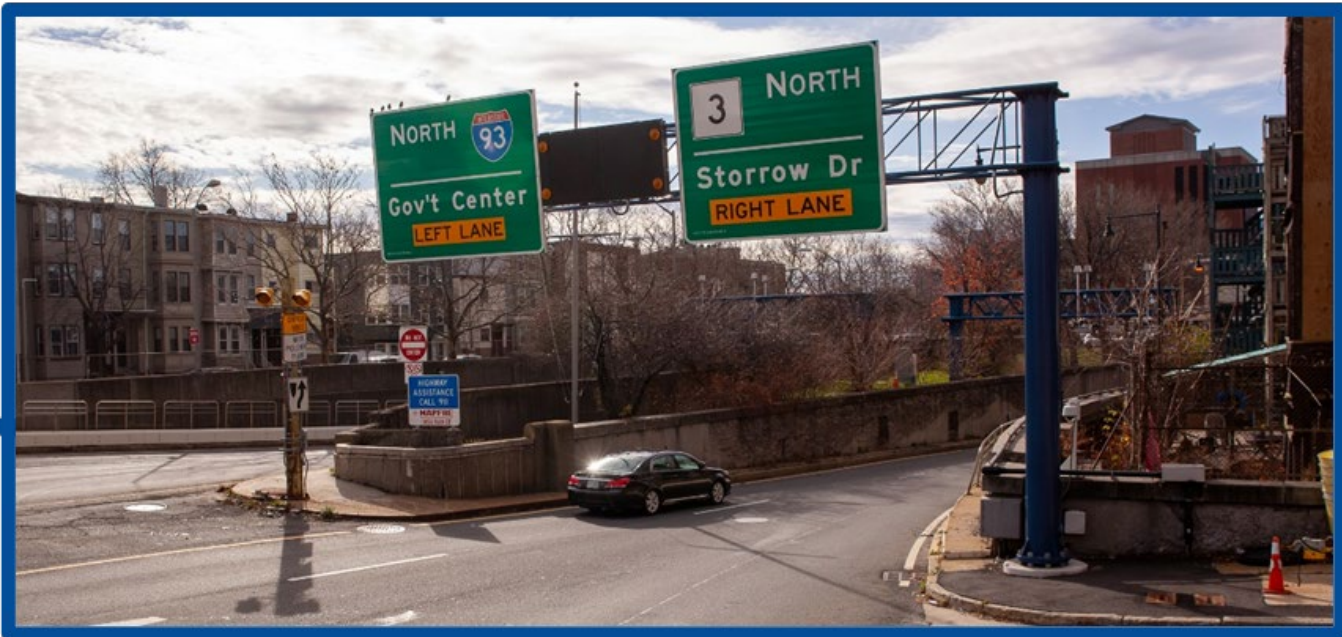
**Why was
this project
initiated?**

Project Area

- Connects East Boston and Logan Airport to Downtown
- Links Route 1A to I-93 and Storrow Drive
- Major transportation route for local and regional drivers
- Carried over 39,000 vehicles a day in 2019
- Approximate project limits are 5,952 linear feet (a little longer than a mile)



Tunnel Entrance and Exit



1934

The Sumner opens as a two-way tunnel



1991 - 2005

Tunnel exits changed during the Big Dig

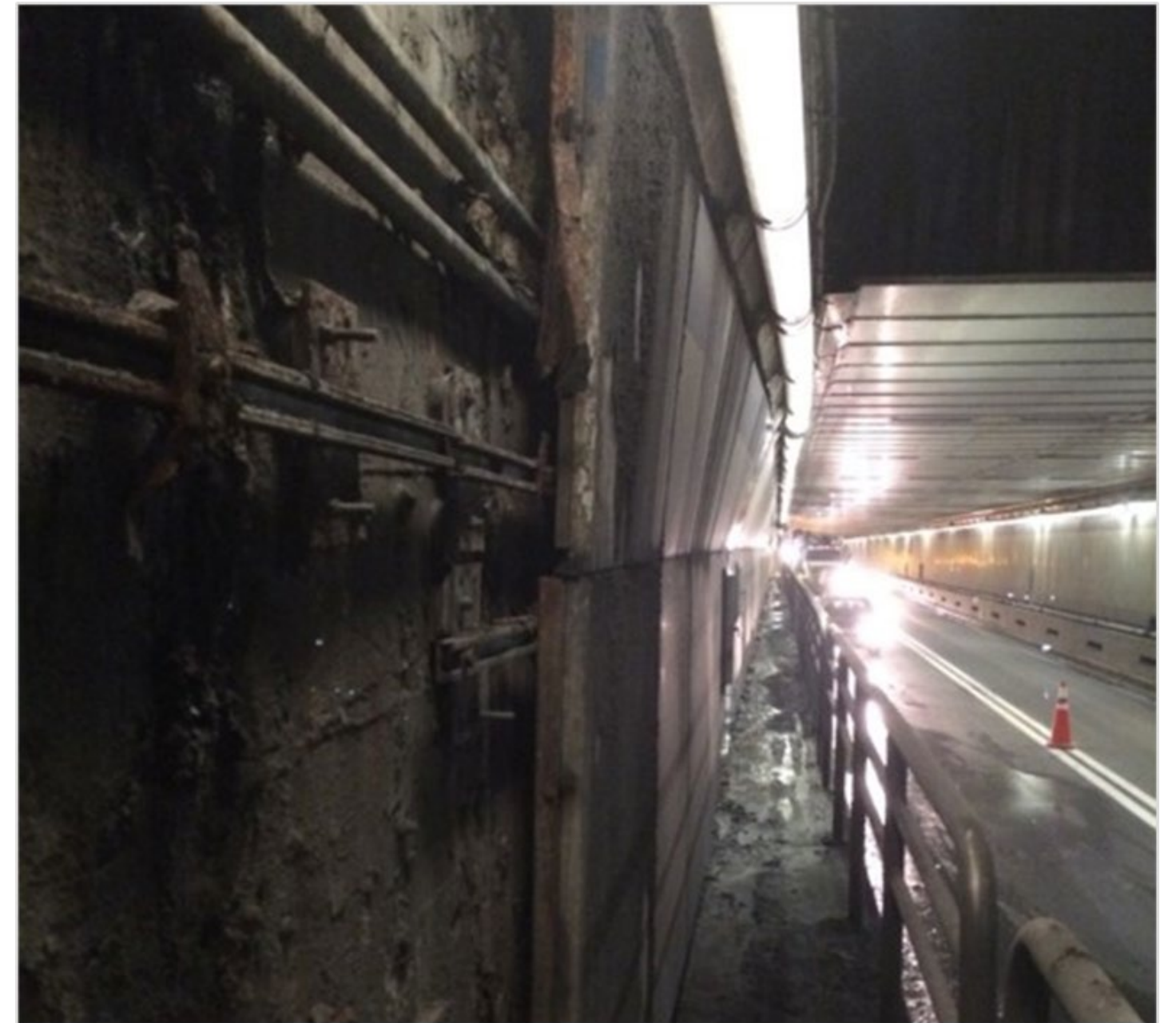


2017 - 2019

Entrance toll plaza removed



Deteriorating Arch and Walls



Spalled concrete, rusted reinforcement, and damaged wall supports

Deteriorating Ceiling









Spalled concrete, corroded rebar, and rusted support beams

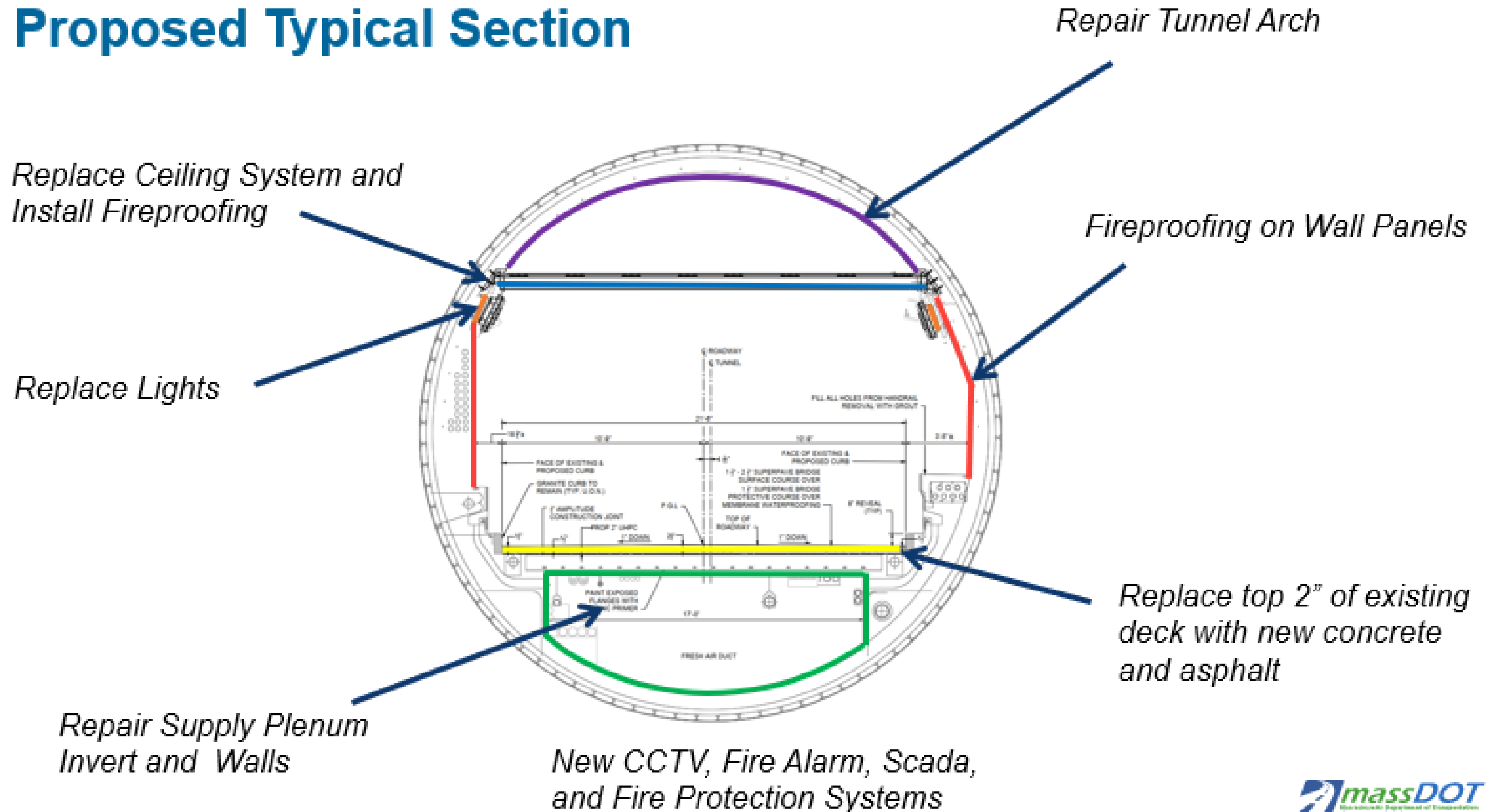


How to fix a
100-year-old
tunnel with
minimal
impact?

Key Project Activities

-  • Remove and replace the tunnel ceiling and repair overhead arch
-  • Reconstruct tunnel deck and replace roadway surface
-  • Repair tunnel walls and install painted fireproof panels
-  • Install new LED lights inside tunnel
-  • Upgrade CCTV and fire alarm systems
-  • Install new utility conduits and cables

Proposed Typical Section



Replace Ceiling System and Install Fireproofing

Fireproofing on Wall Panels

Replace Lights

Replace top 2" of existing deck with new concrete and asphalt

Repair Supply Plenum Invert and Walls

*New CCTV, Fire Alarm, Scada,
and Fire Protection Systems*

Key Project Benefits

- Improve tunnel safety
- Reduce emergency and scheduled tunnel closures for maintenance
- Smoother and more durable roadway surface
- Updated technology - Improve cell phone, GPS, and radio service inside tunnel
- Add new lighting and security systems



**What is the
construction
approach?**

Design Build Project Delivery

- Design-Build Best Value procurement
 - Short-List Best Qualified Teams
 - Shorten project duration
 - Promote innovation by teaming the engineer and the general contractor
- MassDOT's contract with the Design Builder will stipulate requirements for traffic management while also providing the DB flexibility to develop their own approach to staging.
- Incentives / Disincentives
 - Ensures compliance with contract timelines

Advantages of Weekend and Full Tunnel Closures

- Minimizes safety risks to tunnel workers and motorists
- Accelerates project completion
- Minimizes duration of disruption to local communities, businesses and road users
- Provides consistent detours and diversions for the traveling public
- Minimizes temperature and weather delays
- Allows for high quality of work



Winter Ice



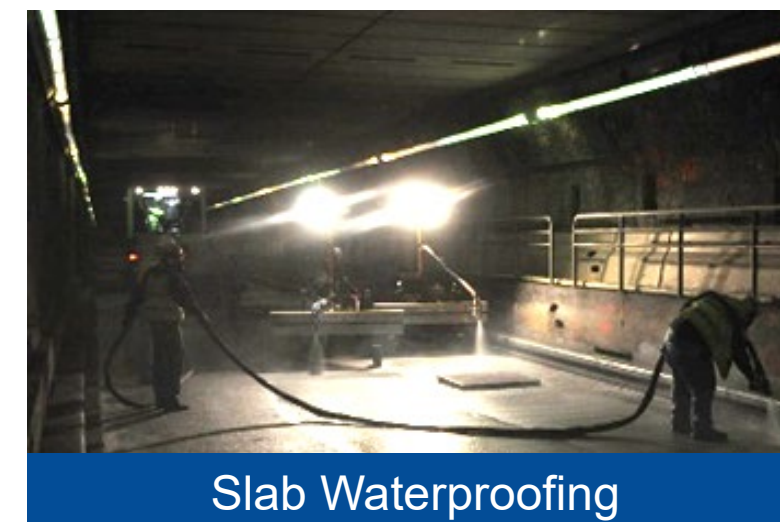
Robot Hydro Demo Wall



Slab Hydro Demolition



Shotcrete Repairs



Slab Waterproofing

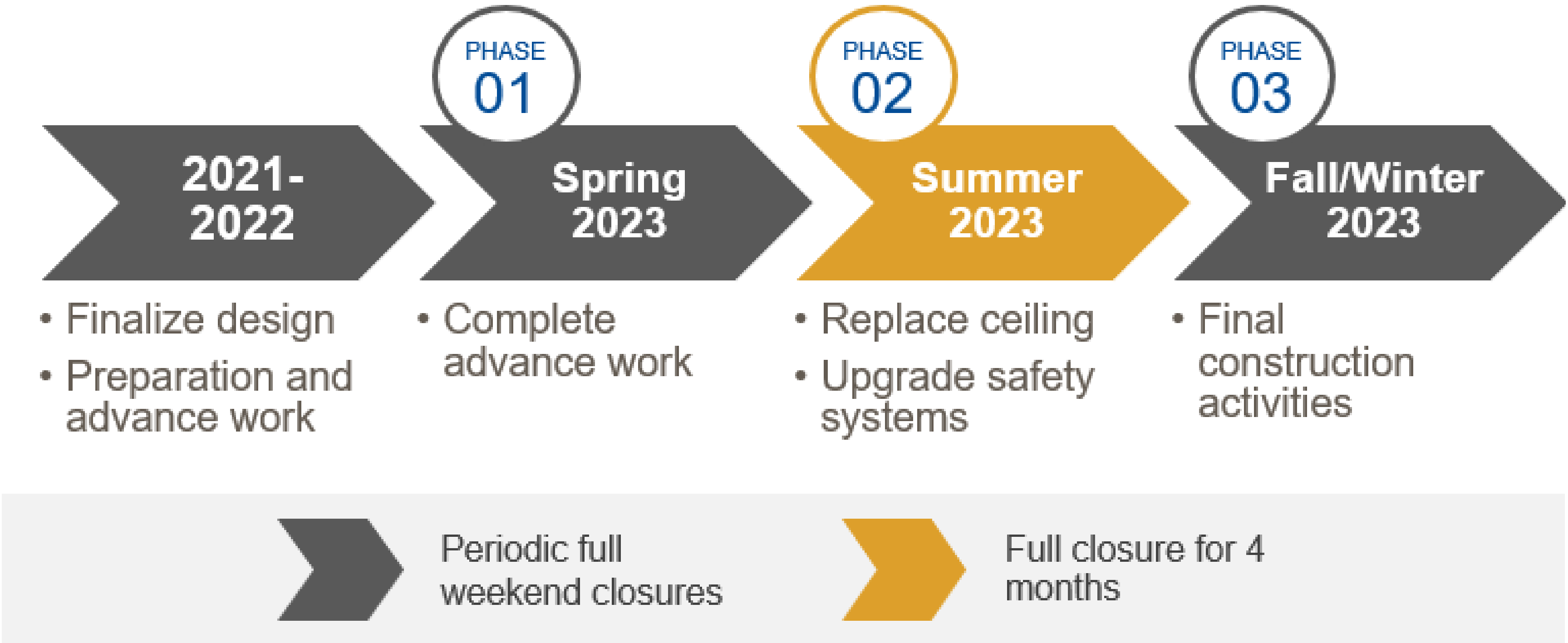


Final Product



How will road users be affected?

Construction Phases



Anticipated Traffic Impacts

- Local and regional vehicle detours during tunnel closures
- Coordinate with MBTA to ensure public transit options



Coordinating Regional Projects

Sumner Tunnel project planning was put on hold in 2016 to lower impacts on the traveling public during:

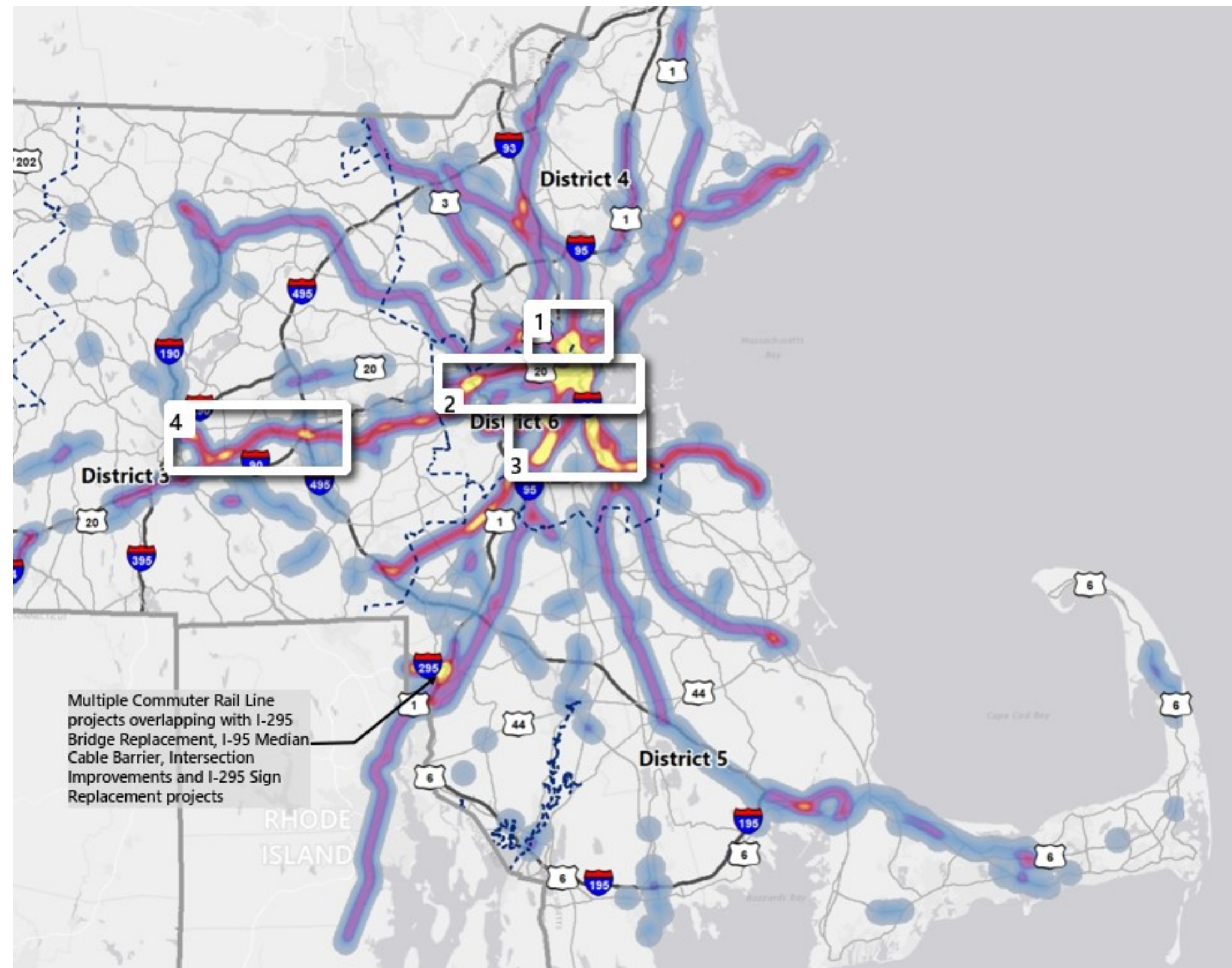
- MBTA Blue Line upgrades between Airport and Aquarium stations
- Tobin Bridge/Chelsea Curves rehabilitation
- North Washington Street Bridge
- Tobin Bus Lane
- Silver Line Improvements



2023 Project Density Heat Map and Hot Spots

1. Northern Corridor
2. Western Corridor
3. Southern Corridors
4. Greater Worcester

244 projects with roadway and transit impacts expected in 2023
(as of March 5, 2021)



2023 Northern Corridor Hot Spot

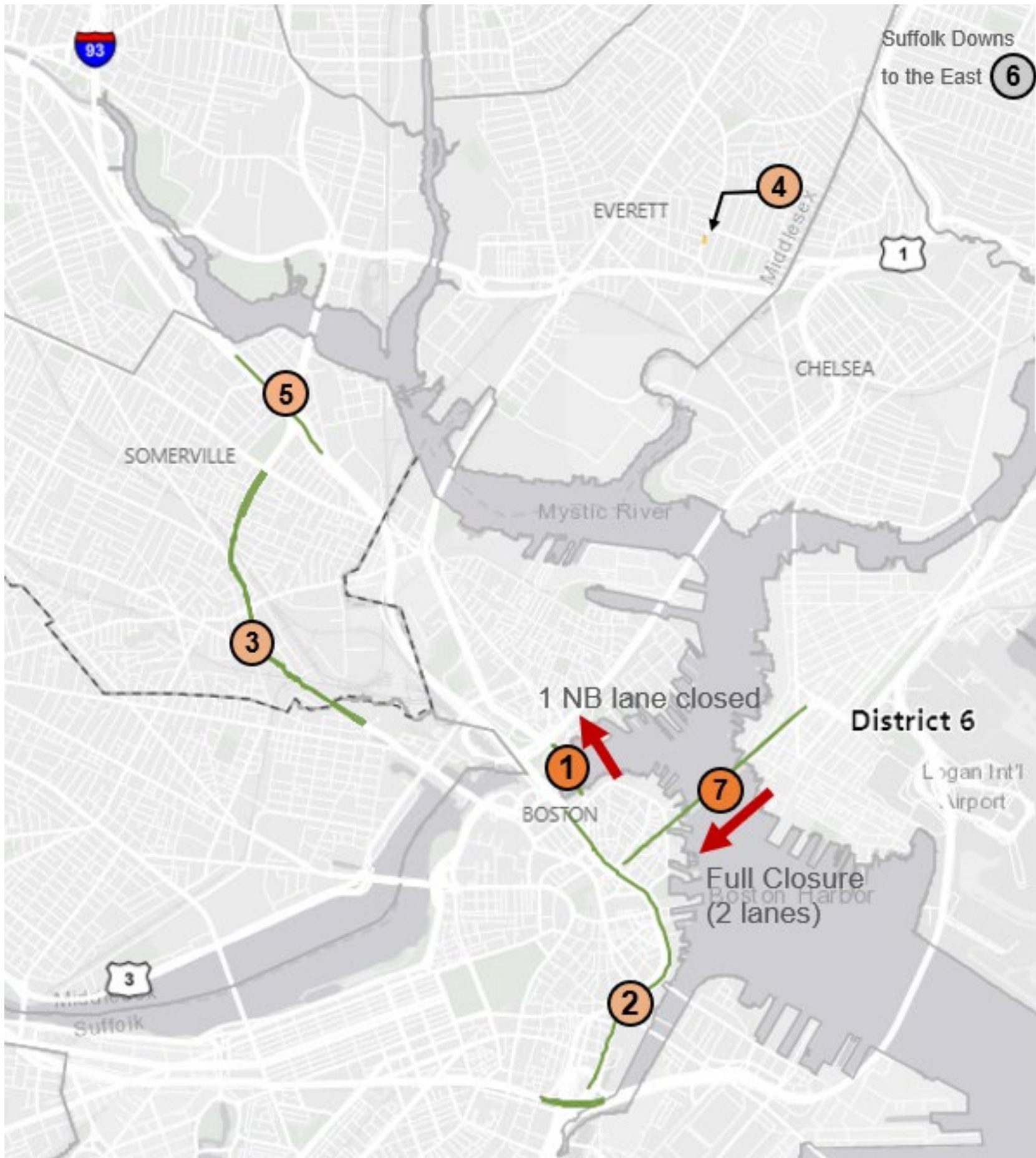
- 1 North Washington Street Bridge (MassDOT)
- 2 Miscellaneous Ramps Microsilica Overlay Replacement (MassDOT)
- 3 Route 28 Resurfacing (MassDOT)
- 4 Ferry Street Reconstruction
- 5 Somerville Viaduct (MassDOT)
- 6 Suffolk Downs Mitigation (HYM Private Development)
- 7 Sumner Tunnel Roadway, Ceiling & Wall Construction (MassDOT)

Weekday Peak Period Impacts
(Includes 24/7 Impacts)

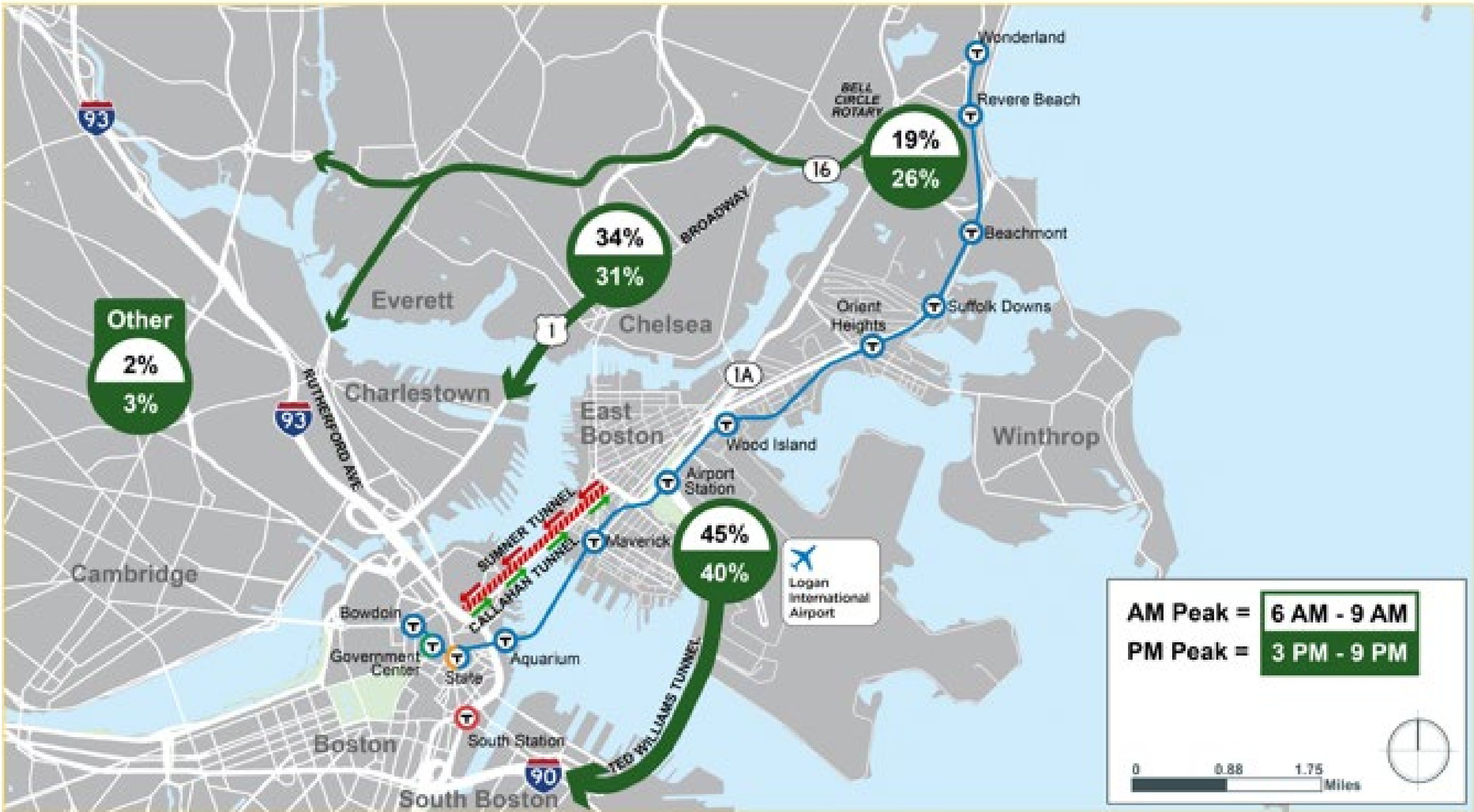
Weekday Off-Peak Period Impacts
(Includes 24/7 Impacts)

Potential Capacity Constraints
TBD

Lane Reductions



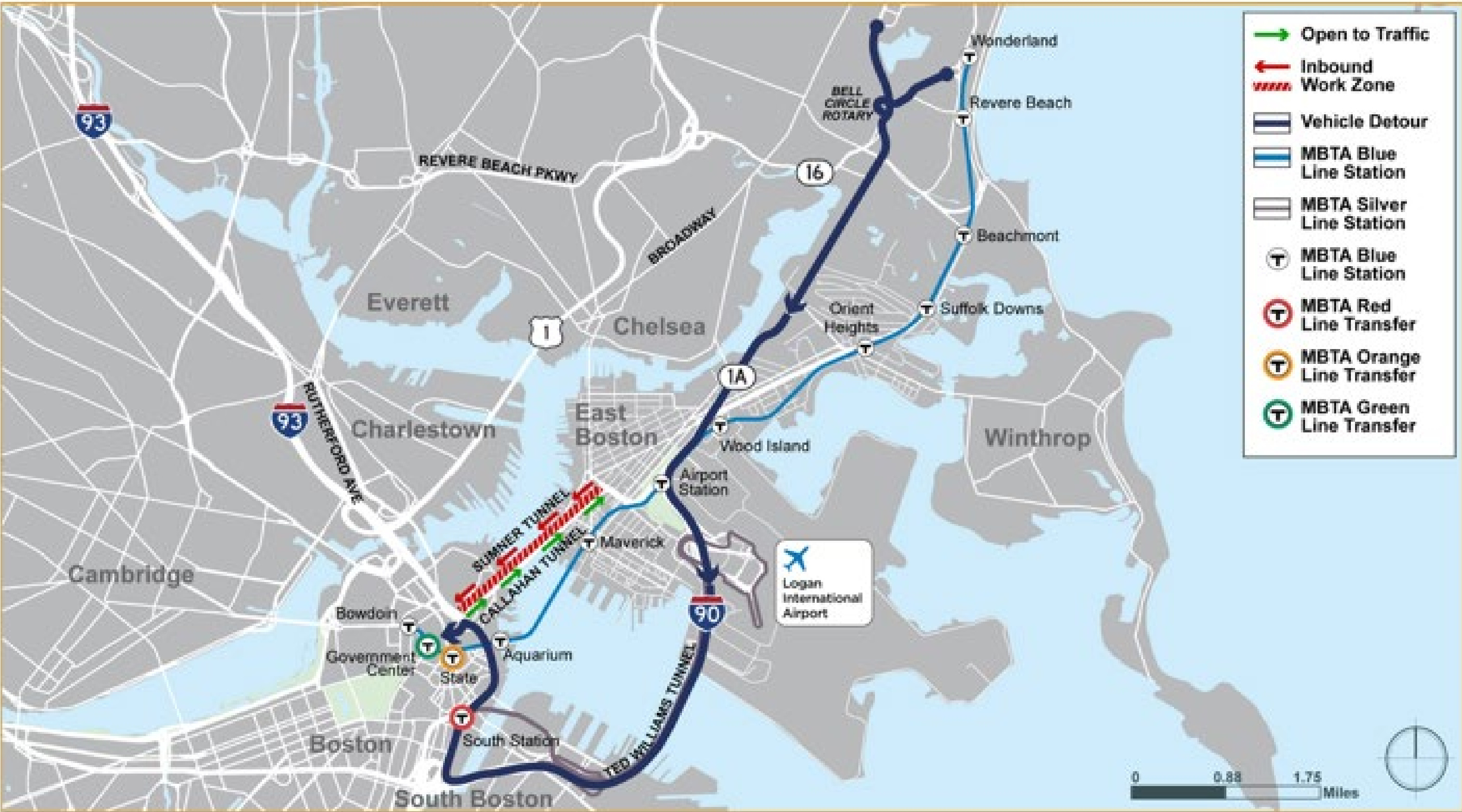
Estimated Distribution of Trip Diversions During AM and PM Peaks in Summer 2023



East Boston to Downtown - Proposed Detour



Revere to Downtown - Proposed Detour



Logan Airport to Downtown - Proposed Detour



Logan Airport to I-93 North - Proposed Detour





What are the environmental, cultural resource, and community impacts?

Regulatory Approval Requirements

- **National Environmental Policy Act (NEPA)**
 - Assess the environmental, social and economic impacts of the project
 - Identify and evaluate reasonable alternatives to the project
 - Evaluate feasible impact mitigation measures
 - Provide meaningful opportunities for public involvement and agency coordination
- **Section 106 of the National Historic Preservation Act**
 - Assess effects of the project on historic properties listed in or determined eligible for the National Register of Historic Places

Known Community Concerns

Prior to starting work, the design-build team MUST submit:

- Dust Control Plan- measures used to control airborne dust emissions within the work zone and along the public roadways outside the work zone.
- Noise Control Plan- assess noise impacts from equipment and activities at sensitive areas in the North End & East Boston based on baseline conditions established prior to construction.
- Vibration Plan- develop specifications and monitor throughout construction
- Implement a Rodent Control Program throughout the project work zone area

***An email address has been created to allow the public to submit questions, comment and concerns. Please reach out to us at Sumner100@dot.state.ma.us

Known Community Concerns

Public Safety-

- Briefings with Boston Fire, Police and EMS
- Briefings with Emergency Responders of Surrounding Communities

Traffic Diversions and Delays-

- Work to keep regional traffic off local streets
 - Coordinate with Boston Transportation Department
 - Coordinate with GPS Mapping Services
 - Interface with affected Agency Roadways: MassPort & DCR
 - Implement Real Time Traffic Management System

***We will work across agencies and with communities to provide a balanced approach to managing traffic, with continued opportunities for public input at ongoing public meetings



**How will
we keep you
informed?**

Sumner Tunnel Public Involvement

As the schedule dictates the construction approach and closures,

WE WANT YOUR INPUT ON:

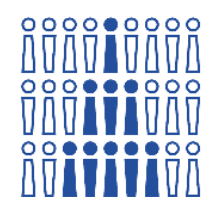
- Construction activities during overnight hours
- Detour routes
- Options for directional signage
- Public outreach ahead of construction



Key Stakeholders



Abutting Residents and Property Owners



Area Residents



Business and Economic Development Groups



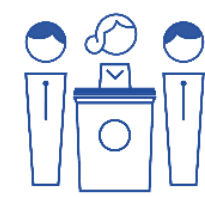
Community Groups and Organizations



Commuters



Boston Logan Airport Travelers



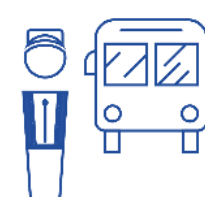
Elected Officials



Massport and other Municipal and Government Agencies



Public Safety and Emergency Response Services



Transportation Groups and Operators



Trip Directions and Mapping Providers



Are we missing anyone?

Spring 2021 Public Outreach

Host Meetings	Direct Outreach	Provide Information
<ul style="list-style-type: none">• Virtual legislative briefings• Virtual stakeholder and community group briefings• Virtual public meetings• Virtual Open Houses	<ul style="list-style-type: none">• Mailings to abutters• Informational posters• Emails to EZ-Pass holders• Outreach to Logan Express, Regional Bus Companies, and Rental Car Agencies• Outreach to community groups• Outreach to large businesses• Neighborhood pop-ups	<ul style="list-style-type: none">• Updates and project information to partners and stakeholders• Dedicated project website• Emails will provide regular project and traffic updates• MassDOT social media posts• Press briefings• Press releases• Radio

Next Steps

April 2021

- Host public information meetings
- Outreach to businesses and community groups
- Launch project website

May 2021

- 25% Design Public Hearing
- Community pop ups
- Provide more details and gather input on construction plan and detours

Raise awareness and gather public input

Stay Involved



Visit the project website to stay informed and sign up for the project updates:

- <https://www.mass.gov/Sumner100>



Email the project team with feedback and questions:

- Sumner100@dot.state.ma.us



Questions and
discussion

Share Your Questions and Comments



- “Raise your hand” to be unmuted for verbal questions



- Submit your questions and comments using the chat panel



- 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.



Thank You

Sumner Tunnel Centennial Project

Sign UP list - post

Visit the project website:

- <https://www.mass.gov/Sumner100>

Email the project team:

- Sumner100@dot.state.ma.us