



# Sumner Tunnel Centennial Restoration Project

## *Phase 1 Project Update Public Meeting*






May 3 and May 4, 2022 | 6 p.m.

Project File No. 606476





# Zoom controls

-  • Listen in Spanish and Arabic
-  • Drop down menu to check microphone and speakers
-  • Ask a question and share comments
-  • Raise your hand
-  • If you are unable to access the internet or are having technical problems, please call into the meeting 1-312-626-6799 Meeting ID: 873 5342 6729



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

1-888-788-0099

Closed captioning automatically generated by Zoom



# Public meeting notes and procedures

## 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.
- All recordings and chat transcript will be considered a public record.
- If you are not comfortable being recorded, please turn off your camera, keep your microphone muted, and refrain from chatting in the transcript box. Otherwise, you may choose to excuse yourself from the meeting.

## Important notes

- Your microphone and webcam are automatically disabled upon entering the meeting.
- The 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.

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

# Live Polling

- Are you currently signed up to receive Sumner Tunnel Project updates?

Sign Up for Sumner Project Information Page

<https://www.mass.gov/service-details/sumner-tunnel-centennial-project-signup?auHash=NYwHn12GNVqMoXB-PESUXkL6FplnP4ANqzB19gp2L10>



Sign Up for ALL MassDOT Projects Notification

[https://public.govdelivery.com/accounts/MADOT/subscribe/new?topic\\_id=MADOT\\_81](https://public.govdelivery.com/accounts/MADOT/subscribe/new?topic_id=MADOT_81)





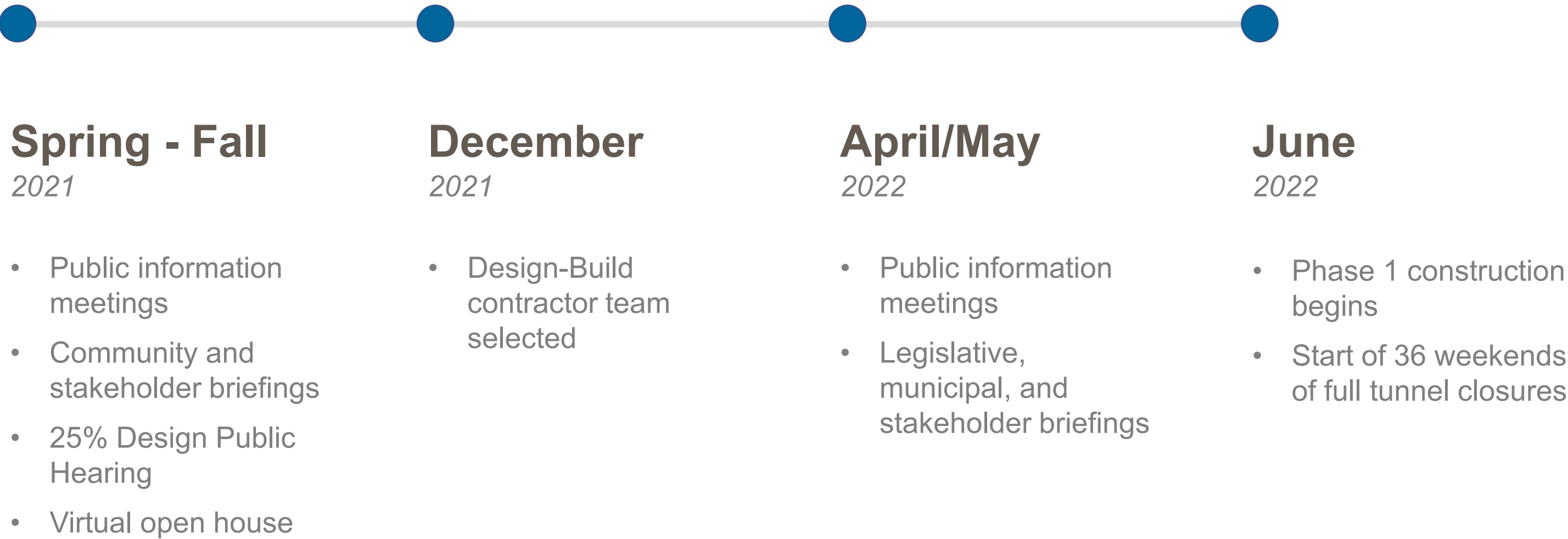
# Agenda

- 01 Welcome
- 02 Project Overview
- 03 What to Expect During Phase 1
- 04 Construction Impacts
- 05 Detours
- 06 How to Reach the Project
- 07 Q & A





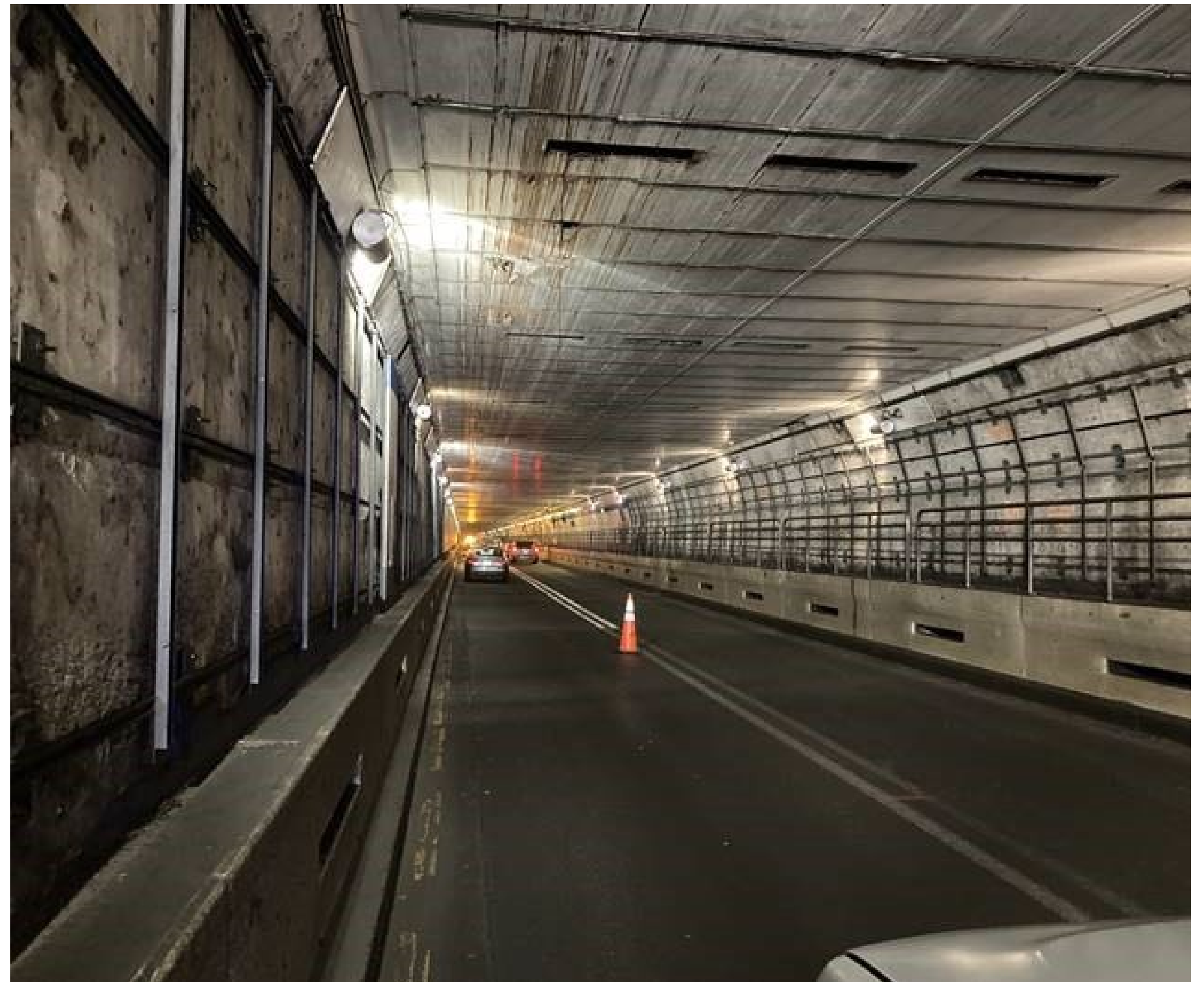
# How did we get here?





## Project Overview

- Sumner Tunnel will undergo a restoration in 2022 and 2023 to:
  - Repair a 100-year-old tunnel to modern standards with upgraded life safety systems (fire and ventilation)
  - Provide a more reliable connection to downtown by not needing the several maintenance closures done every year
  - Updated technology - improve cell phone, GPS, and radio service inside tunnel
  - Add new lighting, and a smooth driving surface







**What can I  
expect during  
Phase 1?**



# Project Schedule



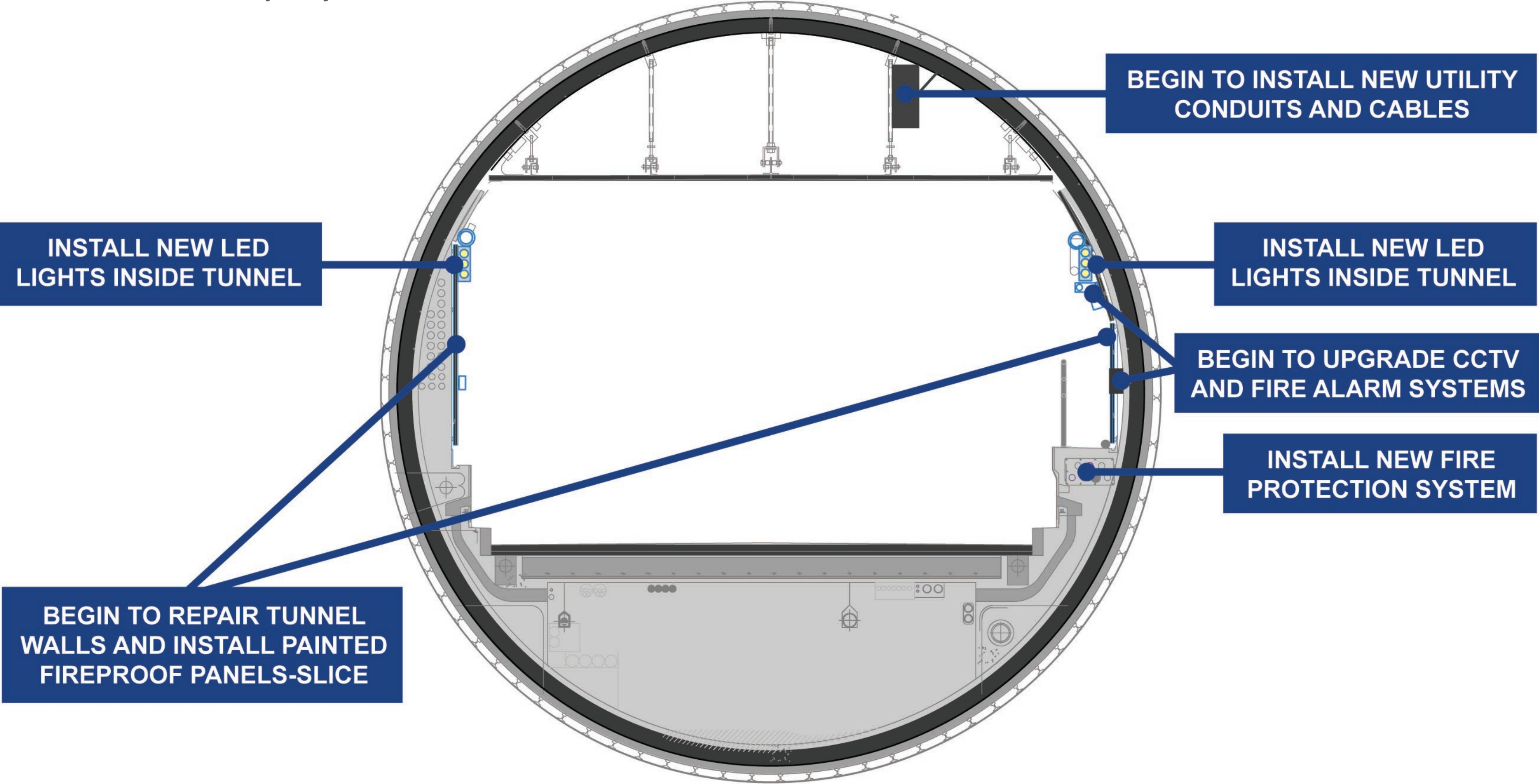
## Phase 1 Construction

- Sumner Tunnel will be closed for 36 weekends
  - First closure: **June 10, 2022**
  - Tunnel closures:
    - Close: Friday at **11PM**
    - Open: Monday at **5AM**
  - 24/7 work during tunnel closures
  - Expect noise and vibration from removal of ceiling in box sections
  - MassDOT has zero tolerance for dust and it will be monitored by a licensed site professional



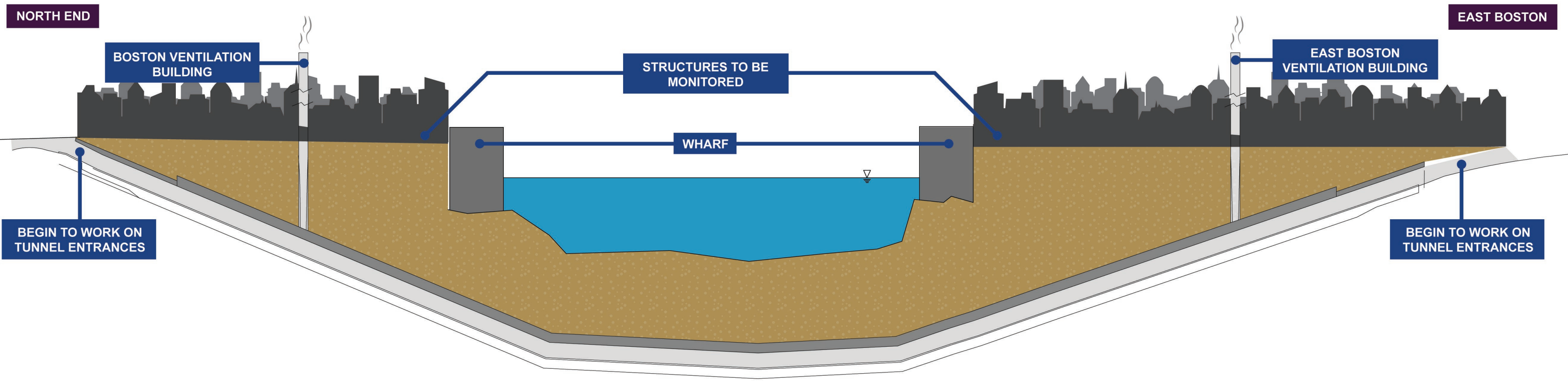


Phase 1      Key Project Activities



Phase 1  
(cont)

Key Project Activities (cont.)







**What can I  
expect during  
Phase 2 and 3?**


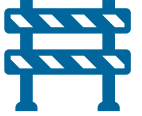







# Project Schedule





## Phase 2 Key Project Activities

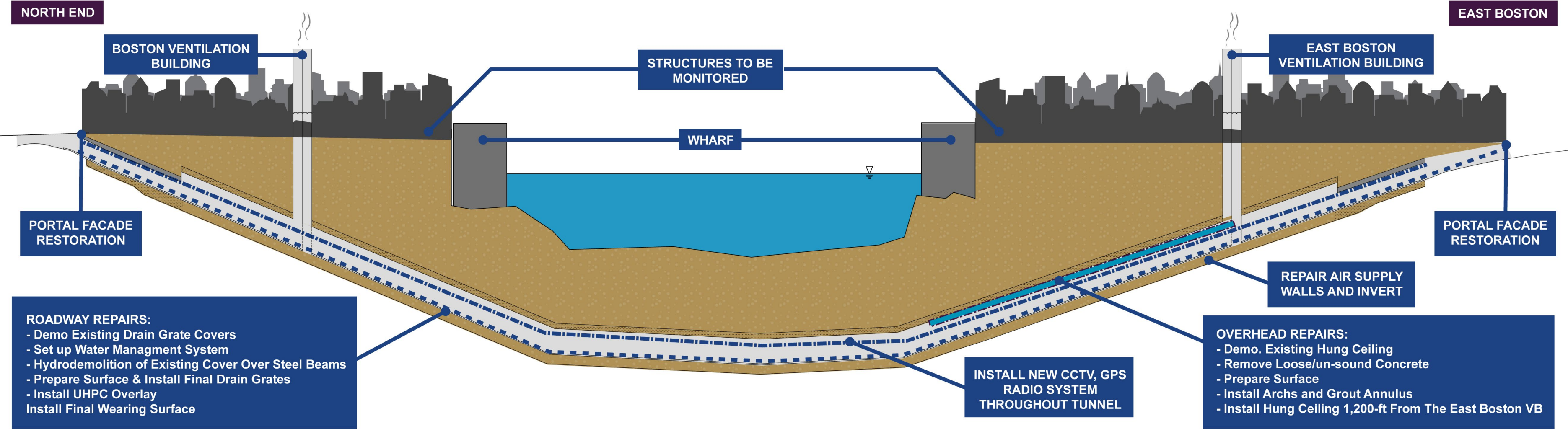
-  • Finish installing new utility conduits and cables
-  • Finish work on tunnel entrances
-  • Remove and replace the tunnel ceiling and overhead arch, install 1200' of drop ceiling
-  • Repair tunnel walls and install painted fireproof panels
-  • Hydro demo of concrete slab; mill/pave roadway
-  • Finish upgrading CCTV and fire alarm systems
-  • Ornamental fixtures taken down for portal restoration

\*Noise and vibration will most likely be highest during the full shutdown





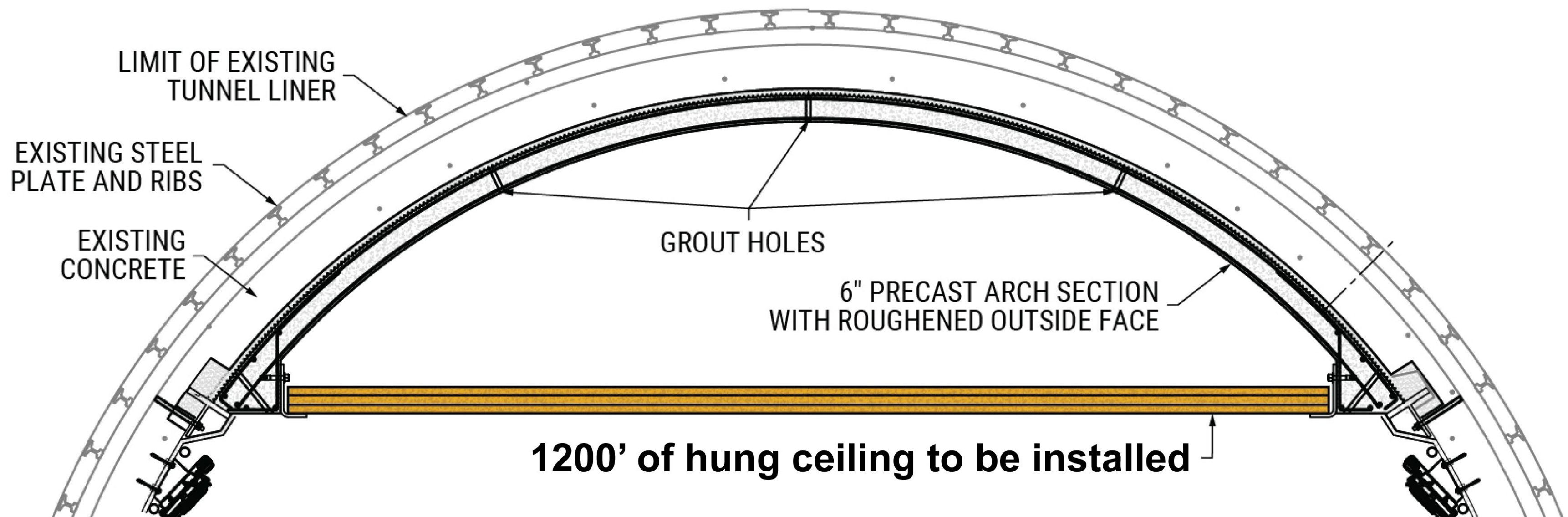
Phase 2      Key activities





## Precast Concrete Arches and Ceiling Details

- Steel reinforcement for strength and fiber reinforcement for performance
- Grouted interlock between existing and proposed arch to protect existing arch from oxygen/contaminants
- Fire resistant main arch, hung plate provides additional fire protection
- Accelerates construction by eliminating the need for hydro-demolition of the crown of the arch

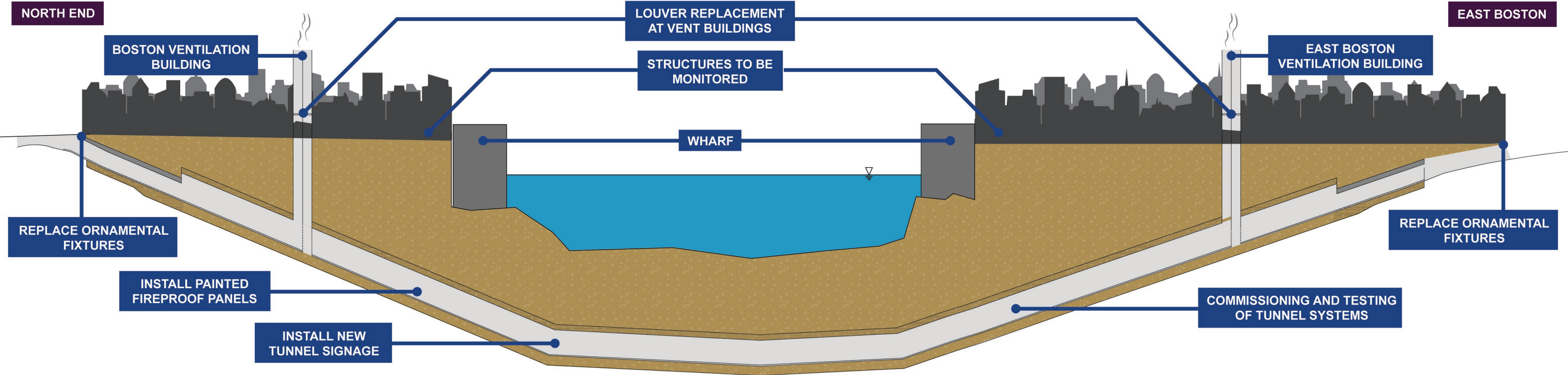


# Project Schedule





# Phase 3 Key Project Activities



Expect noise from construction vehicles entering and exiting and replacing ornamental fixtures





**How will my weekend be impacted?**





## Impacts and Mitigation

- Traffic
- Noise
- Vibration
- Pest Control



# Mitigation

- Minimize duration of disruption to local communities, businesses, and road users
  - Original Construction Time Determination (CTD) called for a 7-month closure with pre and post weekend work
  - By utilizing accelerated construction techniques and maximizing every opportunity, including the 36 weekends, led to a 4-month closure
- Reduced Tolls for Active East Boston Resident Program
  - EZ pass accounts active in the East Boston Resident Program will receive a toll discount on the Tobin Bridge during weekend tunnel closures
- Extensive and proactive provisions to plan for, monitor, and respond to:
  - Vibration
  - Noise
  - Dust Control
  - Pest Control
  - Traffic
- Incentives/Disincentives for Design-Build team to ensure compliance with contract timelines



# Incentives/Disincentives

## Incentive

- Full Beneficial Use of Tunnel Prior to 5 a.m., Sept 5, 2023
- Reduced Pre/Post-Shutdown Closures
- Max payment \$7,000,000
- Only receive payments after completion of Milestone 2

## Disincentive:

- No cap to the number of calendar days
- Delay in reopening tunnel on either pre/post shutdown or full closure
  - Max \$490,000 deduction
  - Corrective action plan must be submitted and approved before allowed to close tunnel again
- Additional Pre/Post Shutdown Closures to achieve Milestone 2 or 3
  - \$850,000/ weekend if determined to be delay cause by D/B team.
- Additional Daily Closure
  - Failure to achieve Milestone 2: unexcused delays \$490,000/ 24hrs

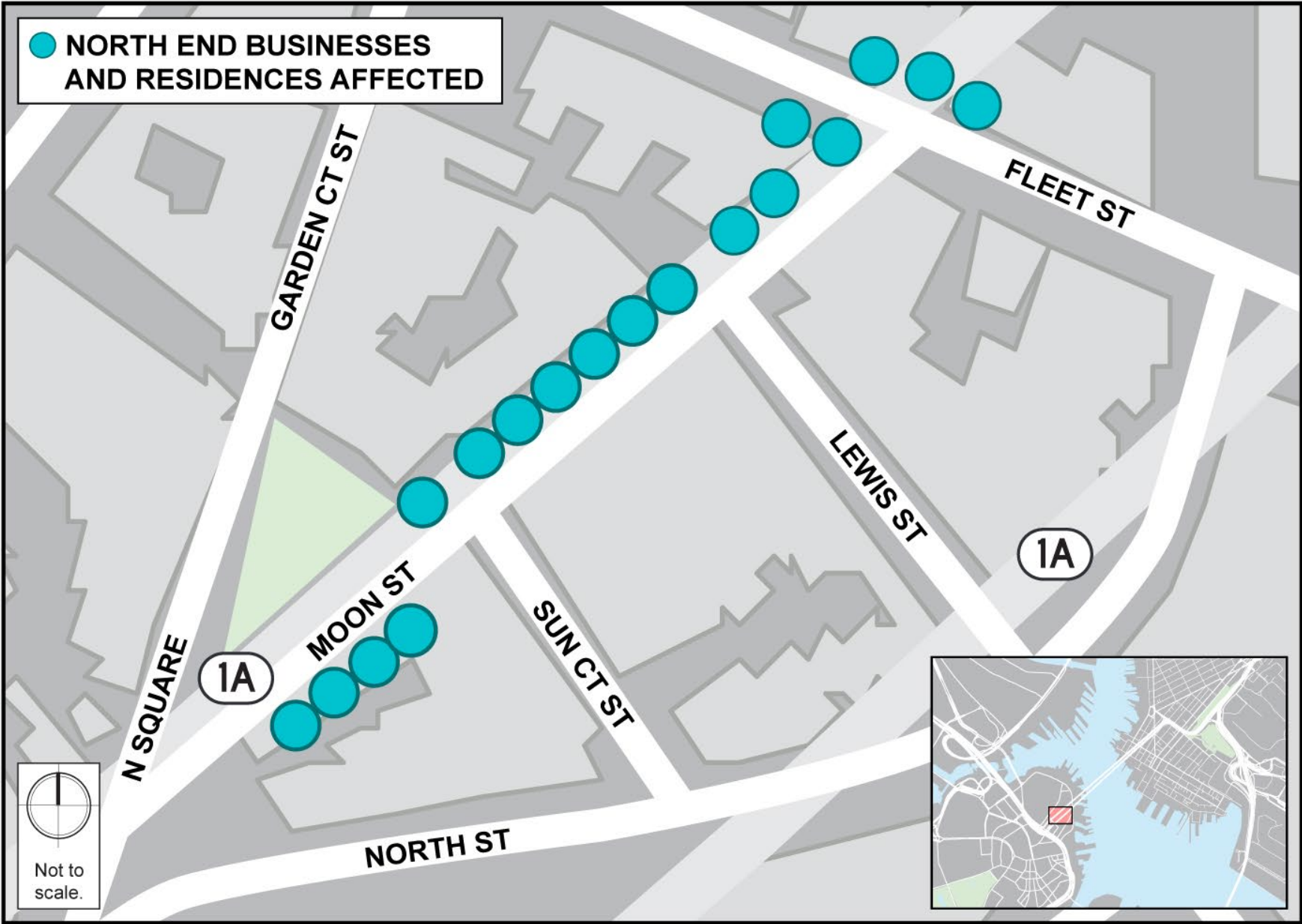


# Vibration Monitoring

- Vibration control requirements contained in the Contract:
  - Must be in full compliance – there are no waivers or exceptions
  - Equipment will be equipped with vibration-suppression devices
  - Monitoring:
    - Maintain 8 locations for vibration monitoring
    - Pre and post construction survey to specific residences/business
  - Minimize vibration through the use of a precast arch in lieu of the hydro demo and shotcrete
- Approval of Vibration Control Plan
  - Must be approved prior to construction starting
  - Acoustic engineers have performed vibration calculations on the various construction activities and methods
  - Based on this the Contractor must mitigate activities and continuously monitor vibrations
  - If monitoring indicates vibration begin to exceed limits, construction staff will be immediately alerted, and methods will be reviewed to reduce vibrations



# Identified Properties – North End



# Identified Properties – East Boston





# Noise

- Construction will be 24/7 and noise will be limited as much as possible but will be elevated at times
- Mitigation:
  - Noise Control Plan must be approved by MassDOT prior to the start of work
  - Overseen by an Acoustic Engineer
  - Baseline measurements collected/recorded
  - Ongoing monitoring in both East Boston and the North End
  - If noise levels exceed the identified limits, the contractor will be directed to alter or mitigate the construction activity to be in compliance
  - Impact drivers (jackhammers/hoe rams) not allowed from 10pm-7am
  - This activity is allowed only with MassDOT's approval for specific periods and activities
  - Will maintain 3 noise monitoring locations around the portals
  - Pull down "garage doors" used to seal the tunnel portals to contain noise inside tunnel
  - Provide temporary enclosure at portal entrances for work activities in those areas, as needed

# Dust Control and Monitoring

- Dust Control:
  - Proactive measures as MassDOT has zero tolerance for dust
  - Use OSHA best practices during concrete demolition to control the dust
  - Dust control methods will include screening, application of water and dust control products as well as street sweeping activities.
  - Dust control will be conducted in the tunnel as well as nearby streets.
- Dust monitoring:
  - A licensed site professional will oversee monitoring
  - Receptors down wind and at the portals
  - Work will stop if dust exceeds limits
- Project hotline and email available for residents' concerns



## Pest Control

- Proactive throughout the work zone
- Vendor will set bait boxes in the vicinity of the tunnel portals
- Boxes will be checked weekly
- Whenever possible, the project team will utilize pesticide technologies such as trapping and monitoring devices
- Products will be selected that pose the lowest potential hazard to humans, domestic pets, and the environment
- Hotline and project email both available to alert project team





What are the  
Tunnel  
alternatives?



## Phase 1: Anticipated Weekend Traffic Impacts

- Public Safety
  - Contingency plans for inclement weather scenarios, vehicles crashes and breakdowns, and incidents involving construction activities
    - Tow trucks located at the Ted Williams Tunnel entrance and along detour routes
  - Coordination with Boston Fire, Police and EMS and Emergency Responders in surrounding communities so that they are aware of the tunnel closures
- Provides consistent detours and diversions for the traveling public during weekend and full closures
- Weekends anticipate lower traffic volumes
- Local and regional vehicle detours during tunnel closures
- All lanes in the Ted Williams Tunnel available, no HOV lanes
- Coordinate with GPS companies to alert them of weekend closures
- Coordinate with MBTA to ensure public transit options
  - MBTA is committed to uninterrupted Blue Line service during tunnel closure weekends
  - Sign up for MBTA alerts: [alerts.mbtta.com](https://alerts.mbtta.com)

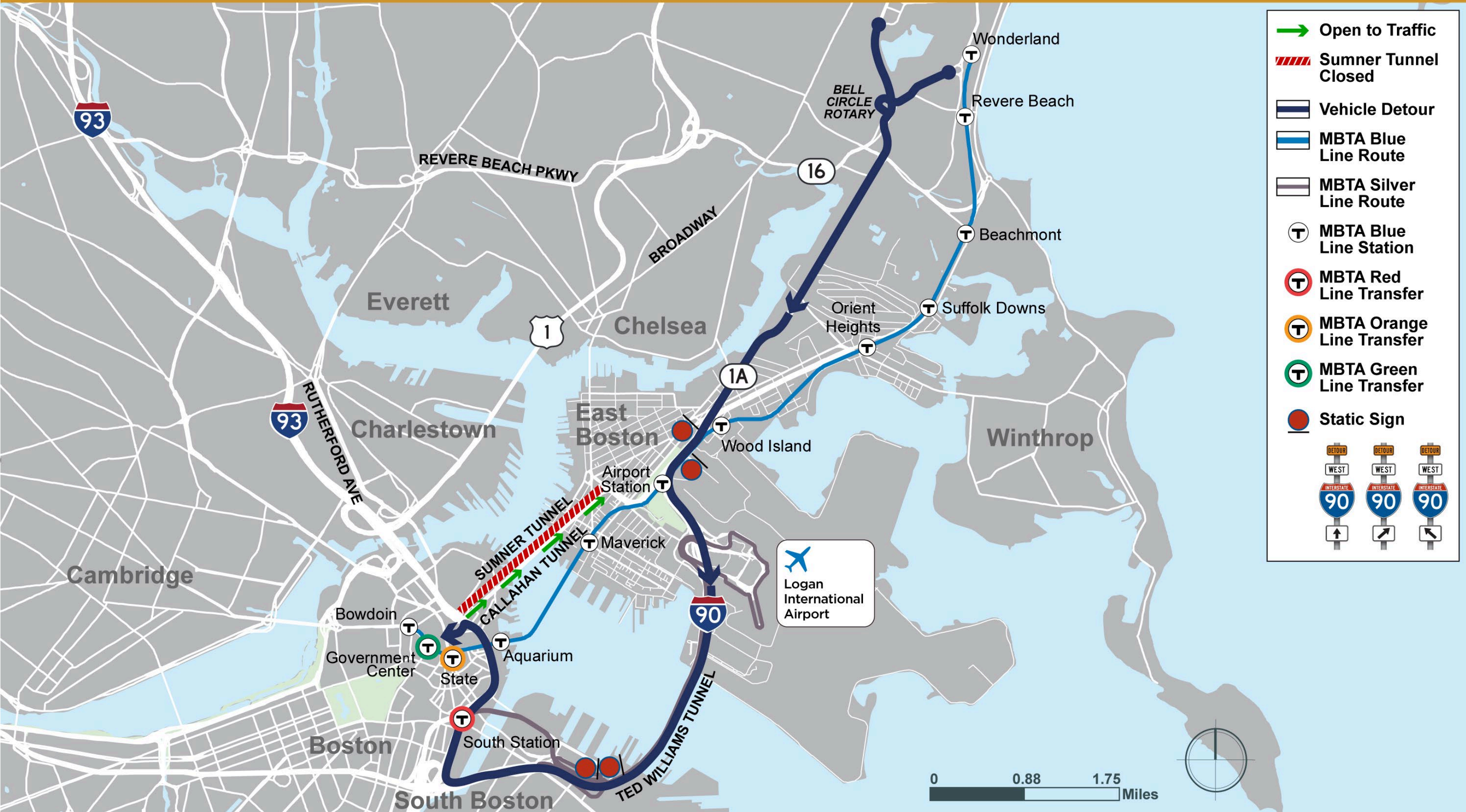


# East Boston to Downtown - Weekend Detour





# Revere to Downtown - Weekend Detour





# Logan Airport to Downtown - Weekend Detour





# Logan Airport to I-93 North - Weekend Detour

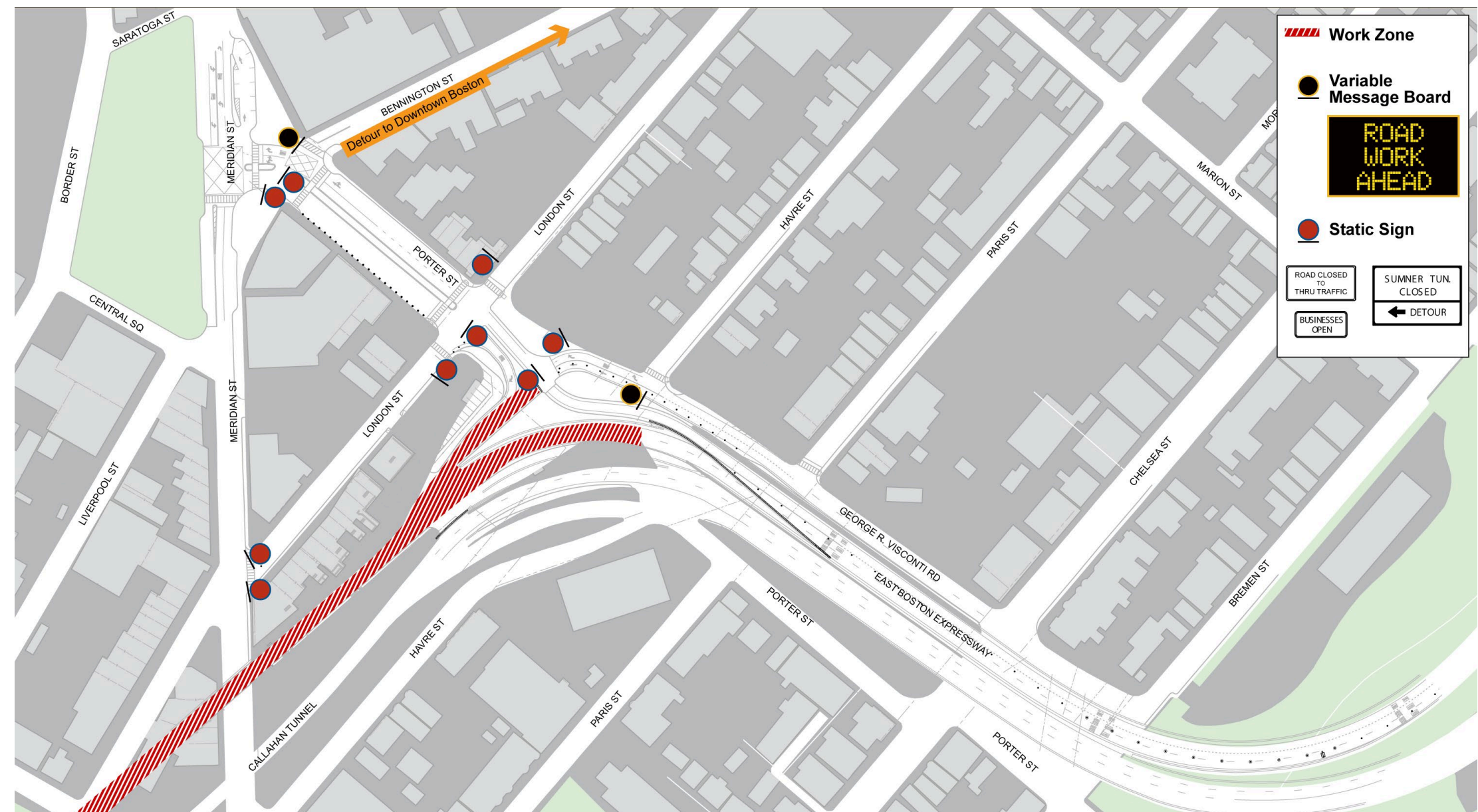




# Phase 1 Traffic Control to Support Detours

Design package will include requirements for:

- Portable Changeable Message Signs (PCMS)
- Static signage locally and regionally
- Monitor and evaluate operations of detours
- Adjustments to detour routes based on conditions
- Tow truck positioned at Ted Williams Tunnel entrance and along detour routes to help with a brake down







**How Can I  
Connect with  
the Project?**



## How to Connect with the Project



Project hotline

- 508-510-2920



Email the project team with feedback and questions:

- [Sumner100@dot.state.ma.us](mailto:Sumner100@dot.state.ma.us)



Timely project updates

- Project website: [mass.gov/sumner-tunnel-restoration-project](https://mass.gov/sumner-tunnel-restoration-project)



# Spring 2022 Multilingual Public Outreach

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



## Next Steps

- First weekend closure: **Friday June 10, 2022**
- 36 weekend closures excluding holidays
- Public outreach
  - Bi-weekly email updates
  - Maintain two-way communication between the project team and the public
  - Additional project briefings as requested
  - Neighborhood pop-ups to increase project awareness
  - Virtual Public Information Meetings: **May 3 and May 4<sup>th</sup> 6:00pm**
  - Additional outreach prior to Phase 2 and Phase 3





**Questions and  
discussion**



# Questions and answers



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



- Submit your questions and comments using the Q&A button



- 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.**





# *Thank You*

## *Sumner Tunnel Centennial Restoration Project*

May 3, 2022 | 6 p.m.

Project File No. 606476

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