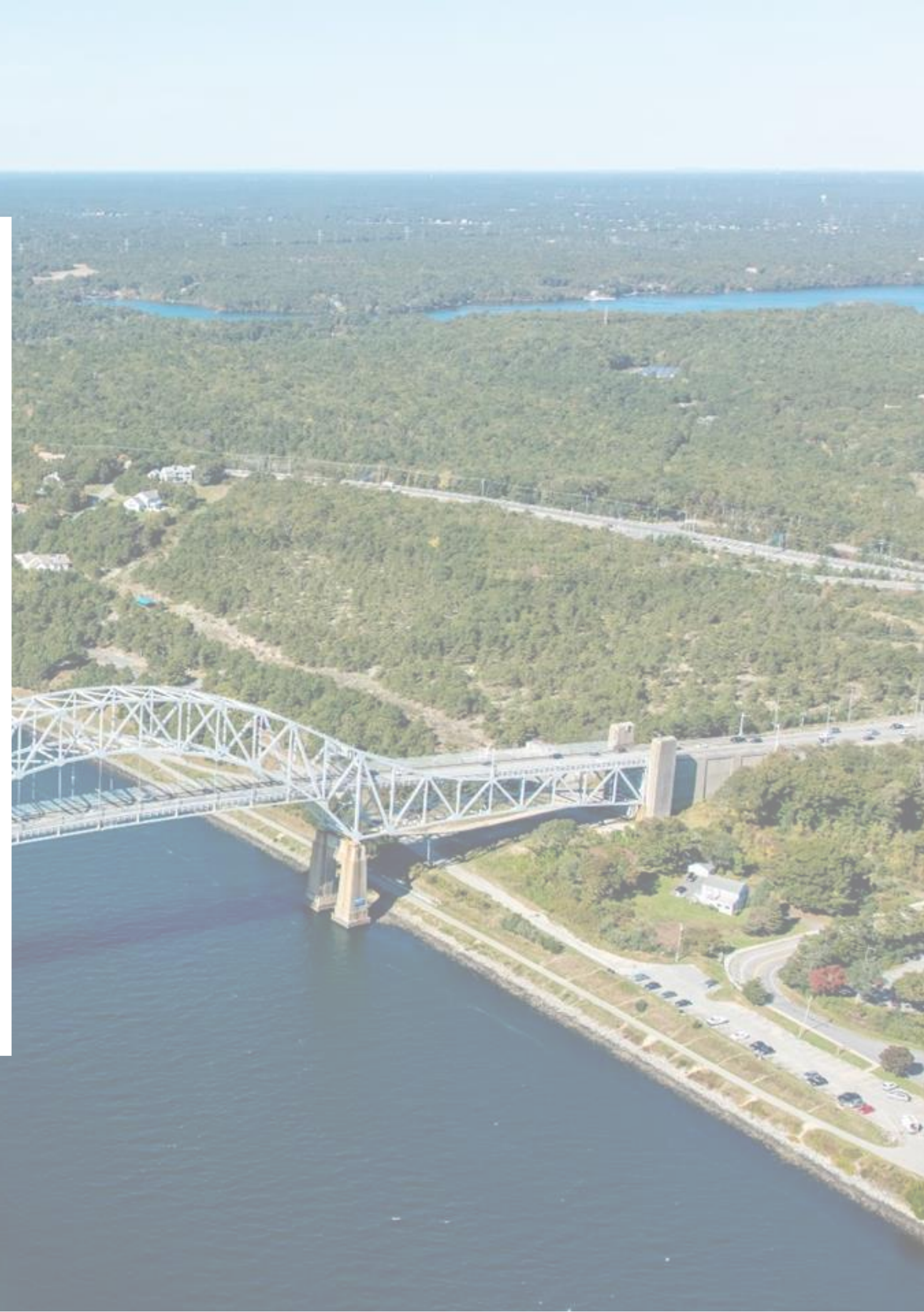




Cape Cod Bridges Advisory Group

October 7, 2025



Agenda

- 01** Introductions
- 02** Program Update
- 03** Environmental Update
- 04** Design Development
- 05** Schedule
- 06** Upcoming Activities



Bourne Bridge circa 1934



Introductions

Advisory Group Members

Program Team	State and Federal Elected Officials	Stakeholders
• MassDOT • USACE • HNTB • Stantec • Office of Governor Healey	• Office of Gov. Healey • Office of Sen. Markey • Office of Sen. Warren • Office of U.S. Rep. Keating • Office of U.S. Rep. Lynch • State Sen. Cyr • State Sen. Fernandes • State Rep. Vieira • State Rep. Luddy • State Rep. Diggs • State Rep. Xiarhos • State Rep. Moakley	• Town of Bourne • Association to Preserve Cape Cod • Barnstable County Regional Board of Commissioners • Barnstable County Sheriff's Office • Bourne Commission on Disabilities • Bourne Police • Bourne Public Schools • Bourne Recreation Authority • Bourne Selectboard • Bourne Town Administrator's Advisory Committee on Pedestrian Bicycle Committee • Cape Cod Canal Region Chamber of Commerce • Cape Cod Chamber of Commerce • Cape Cod Commission • Cape Cod Metropolitan Planning Organization • Cape Cod Regional Transit Authority • Upper Cape Cod Regional Technical High School • US Army Corps of Engineers • Mass State Police • MEMA



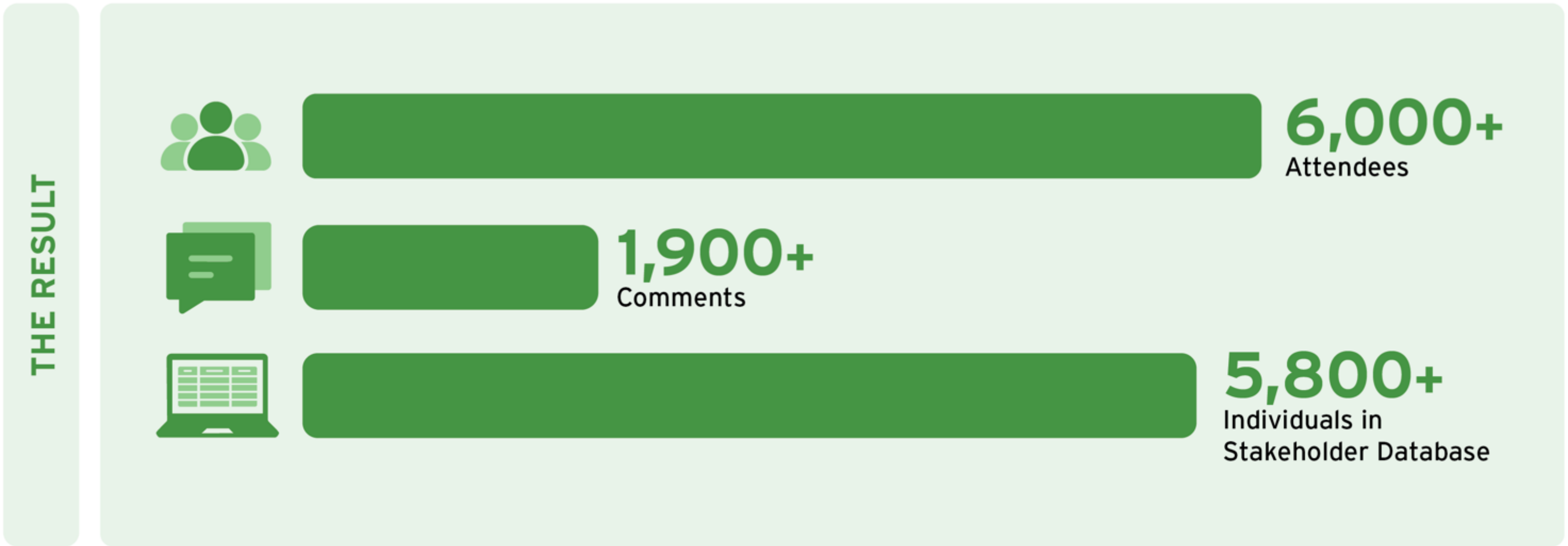
Program Update

Recent Public Outreach and Meetings

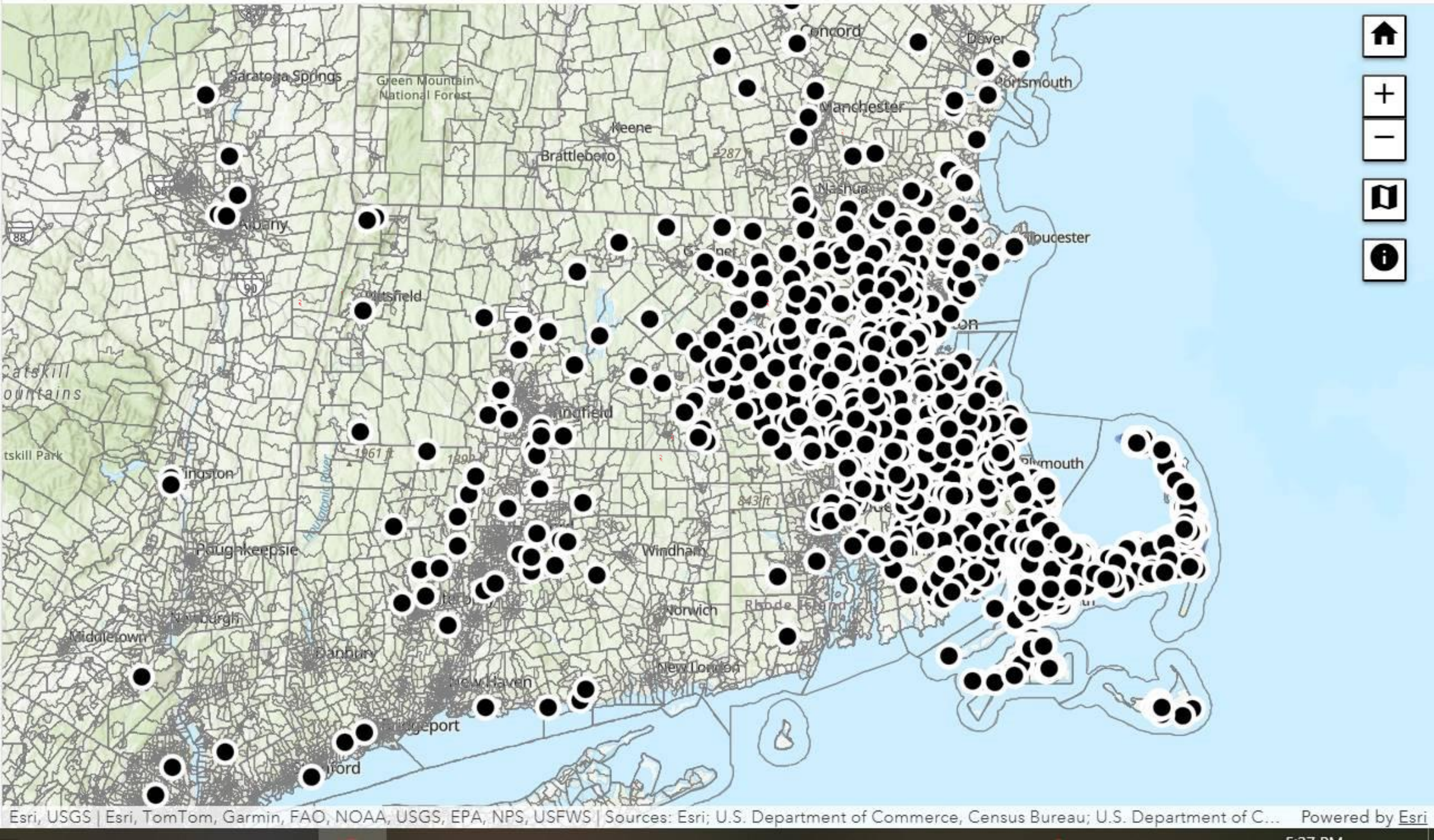
- Cape Cod Bridges Forum
- Military-Civilian Community Council
- Town of Bourne
- MassDOT Board of Directors
- DEIR and Project Update Open House



Public Outreach



Public Outreach



Each black dot represents at least one stakeholder.

Funding Update - Sagamore Bridge Project

- A secure funding plan is in place for the Sagamore Bridge Project.
- MassDOT and FHWA executed funding agreements under the Bridge Investment Program and the Mega Program.
- The USACE is providing \$350 Million in funding.
- The remainder of the funding is provided by MassDOT.



Funding Update – Bourne Bridge Project



- On August 1, 2025, MassDOT submitted a funding application under the Bridge Investment Program.
- This application is under review by USDOT.
- MassDOT will continue to work with the USACE to identify funding for the Bourne Bridge.
- MassDOT will also continue to advance the environmental process and preliminary engineering for the Bourne Bridge.



Environmental Update

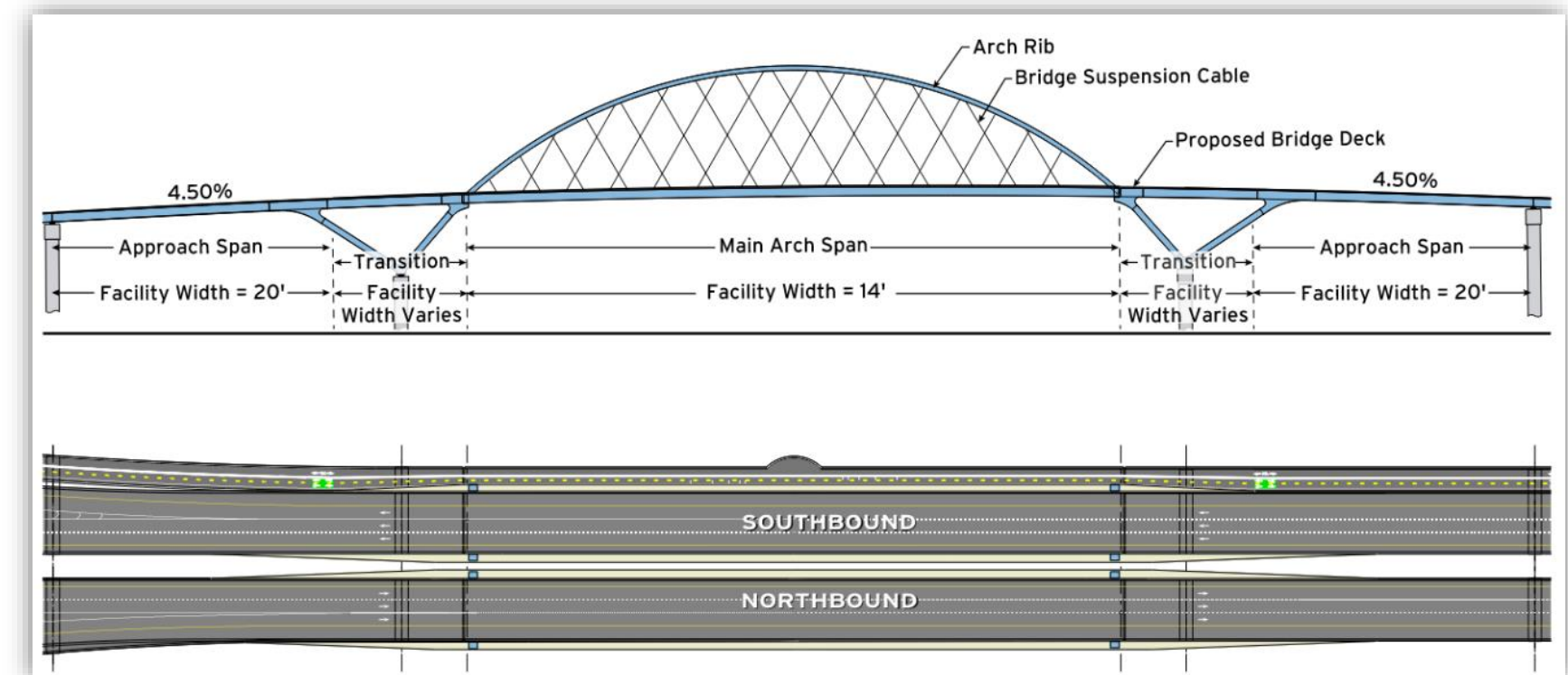
Environmental Update - Massachusetts Environmental Policy Act (MEPA)



- **September 2nd** - The Draft Environmental Impact Report (DEIR) is published in the Environmental Monitor
- **September 10th - October 24th** - Public Comment period
- **September 25th** - Cape Cod Bridges Public Open House
- **October 31st** - Secretary's Certificate
- **Winter 2026** - Final Environmental Impact Report (FEIR)
- **Spring 2026** - Secretary's Certificate

Key DEIR Findings - Project Benefits: Safety and Operations

- Reduced vehicle hours traveled, delays, and congestion
- Reduction in predicted crashes on the bridges by up to 48%
- Improved pedestrian and bicycle facilities adjacent to the local roadways
- Improved navigability and navigational safety



Key DEIR Findings – Traffic Impacts

- The new bridges will **not “induce” additional regional or local traffic.**
- Population growth on Cape Cod is expected to remain flat and/or decline by 2050
- Most trips by vehicle; some shorter local trips **may convert to walking and biking**
- **Potential reintroduction of peaks** as current conditions have resulted in “peak spreading”
- Visitors with flexible schedules tend to travel based on congestion
- Peak volumes may change, but **total number of daily trips are not anticipated to increase.**

Key DEIR Findings - Project Impacts and Mitigations: Protected Species

- Loss of summer bat habitat
- Stressors to aquatic resources
- Loss of submerged aquatic vegetation
- Mitigated by:
 - **Best management practices**, including time-of-year restrictions, to minimize effects to terrestrial- and aquatic-based resources.
 - **Coordination** with MA Natural Heritage and Endangered Species Program, Massachusetts Department of Environmental Protection, and USACE



Key DEIR Findings: Historic Resources, Recreation

- Adverse effects under the National Historic Preservation Act due to **removal of National Register-eligible Sagamore Bridge and Bourne Bridge**
 - Section 106 Programmatic Agreement
- Impacts to **public park and recreation areas** owned by the USACE, the Town of Bourne, and the Bourne Recreation Authority
- Mitigation discussions underway



Key DEIR Findings – State Requirements

- No **increased of risk** of climate change, environmental or public health burdens to Environmental Justice populations
- Adherence to applicable laws and regulations governing **hazardous waste materials**
- Consistent with the applicable policies of the **Massachusetts Coastal Zone Management Program**



MEPA DEIR – Next Steps

- The DEIR is available for review in the September 10, 2025, edition of the Environmental Monitor.
- The DEIR comment period is extended to **October 24, 2025**.
- Comments can be submitted electronically or in writing to the MEPA Office.
 - MEPA Public Comment Portal:
<https://eeaonline.eea.state.ma.us/EEA/PublicComment/Landing/>
 - By email to: Nicholas.Moreno@mass.gov
 - Via U.S. mail (reference EEA# 16695 in all correspondence) to:

Secretary of Energy and Environmental Affairs
Executive Office of Energy and Environmental Affairs
Attn: MEPA Office, Nicholas Moreno
100 Cambridge Street, Suite 900
Boston, MA 02114

Environmental Update - NEPA

- Draft Environmental Impact Statement is under development in coordination with the Federal Highway Administration.
- DEIS expected to initiate public review and comment in late fall 2025.
- DEIS Public Meeting will follow filing.



Environmental Update – Section 4(f)

- Section 4(f) protects **parks and recreation areas, wildlife refuges, and historic sites.**
 - **Historic properties** (Sagamore Bridge, Bourne Bridge, Cape Cod Canal)
 - **Park and recreational areas** owned by USACE, Town of Bourne, BRA
- **Potential mitigation** includes rerouting, additional parking, enhancing or relocating recreational features
- **DEIS Public Meeting following filing of DEIS**
- **Written agreement** from Section 4(f) property owners prior to FHWA approval



Design Development

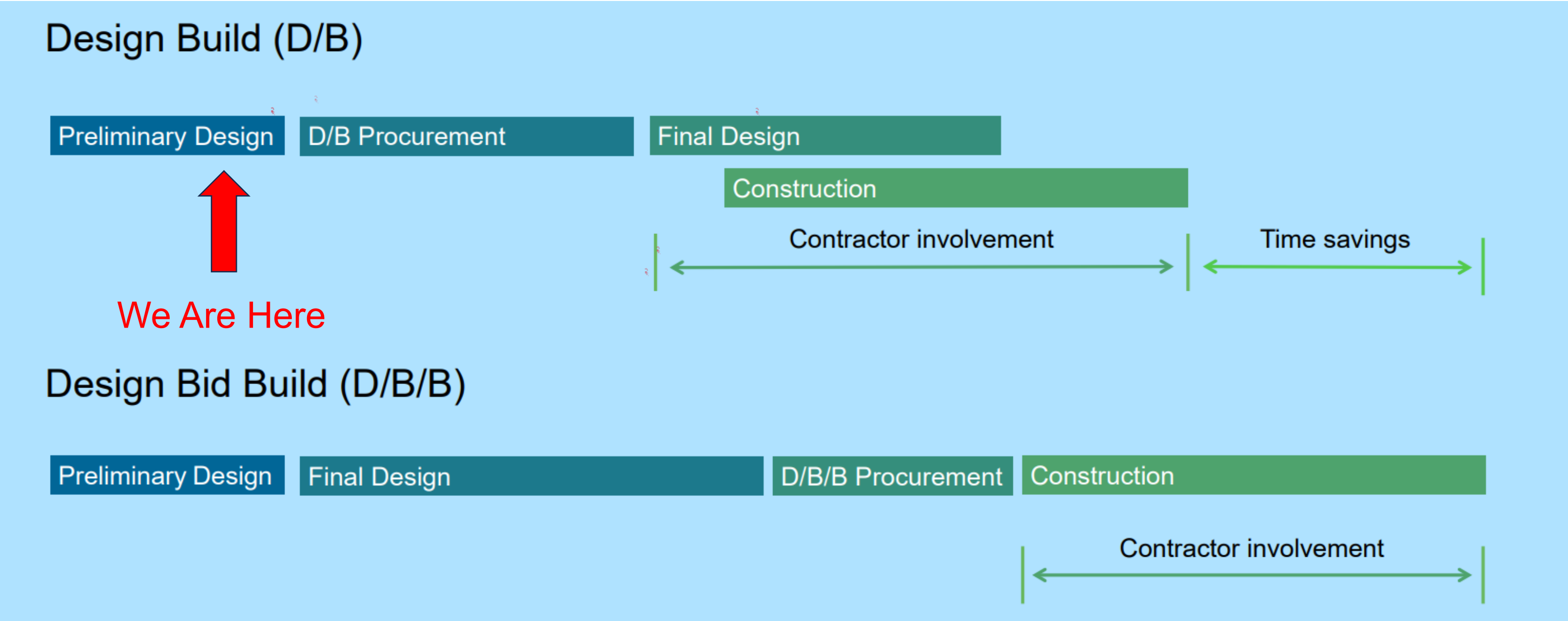
Design Development

Both the Sagamore and Bourne Bridges are advancing as Design-Build procurements.

Design Build procurements result in:

- Earlier Contractor Involvement
 - Greater Opportunity for Innovation
- Earlier Construction Start

Earlier Construction Completion



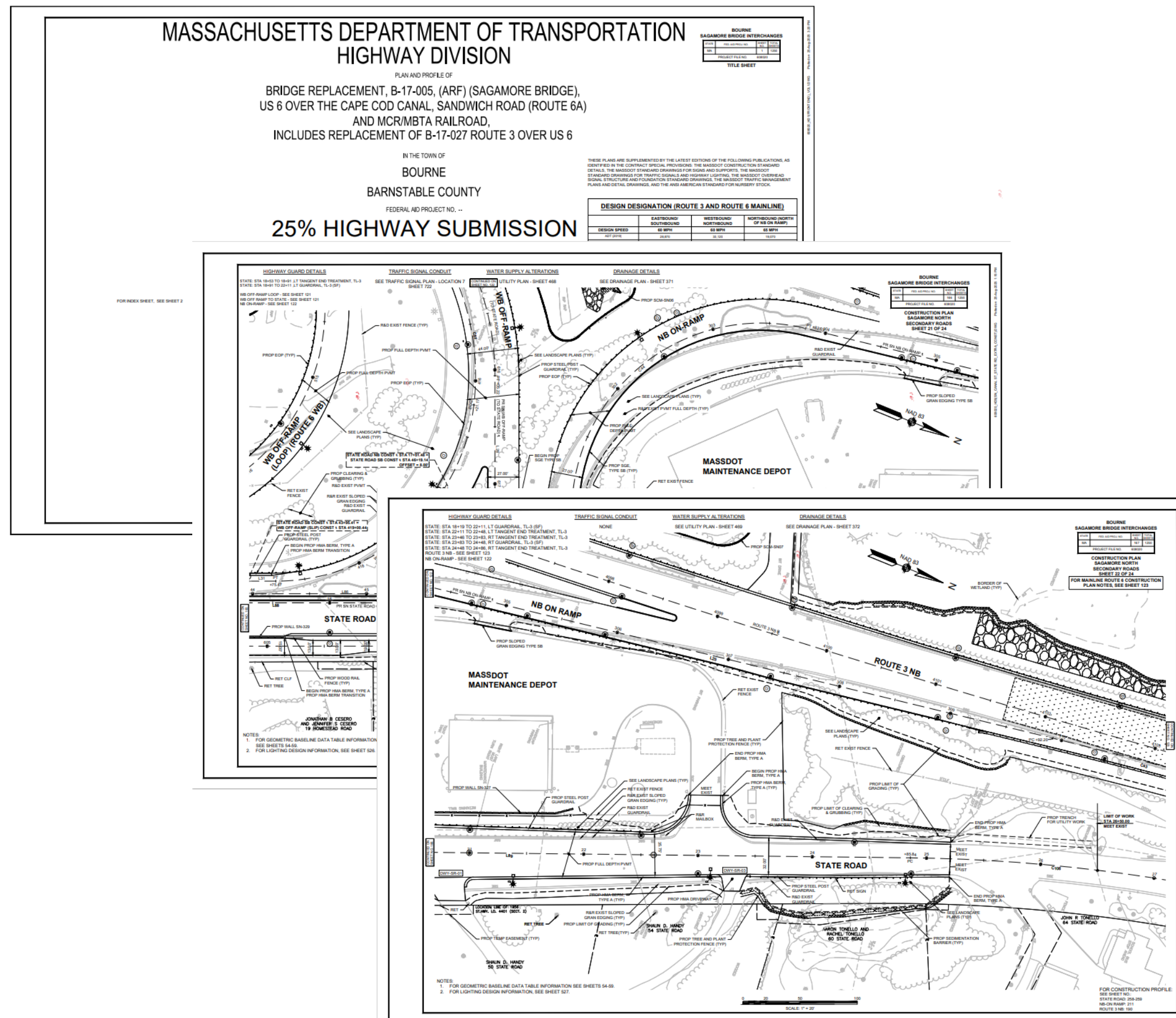
Design Development - Roadway

The Preliminary Design is advancing consistent with the Build Alternative identified in the DEIR and DEIS.

MassDOT has completed its review of the Preliminary Roadway Submittal for the Sagamore crossing.

This submittal included 1,250 full size construction drawings and numerous reports and technical memorandums.

The review of the Preliminary Roadway submittal for the Bourne crossing will begin in October.



Design Development - Sandwich Road Extension



The Preliminary Roadway submittal for the Bourne crossing will include:

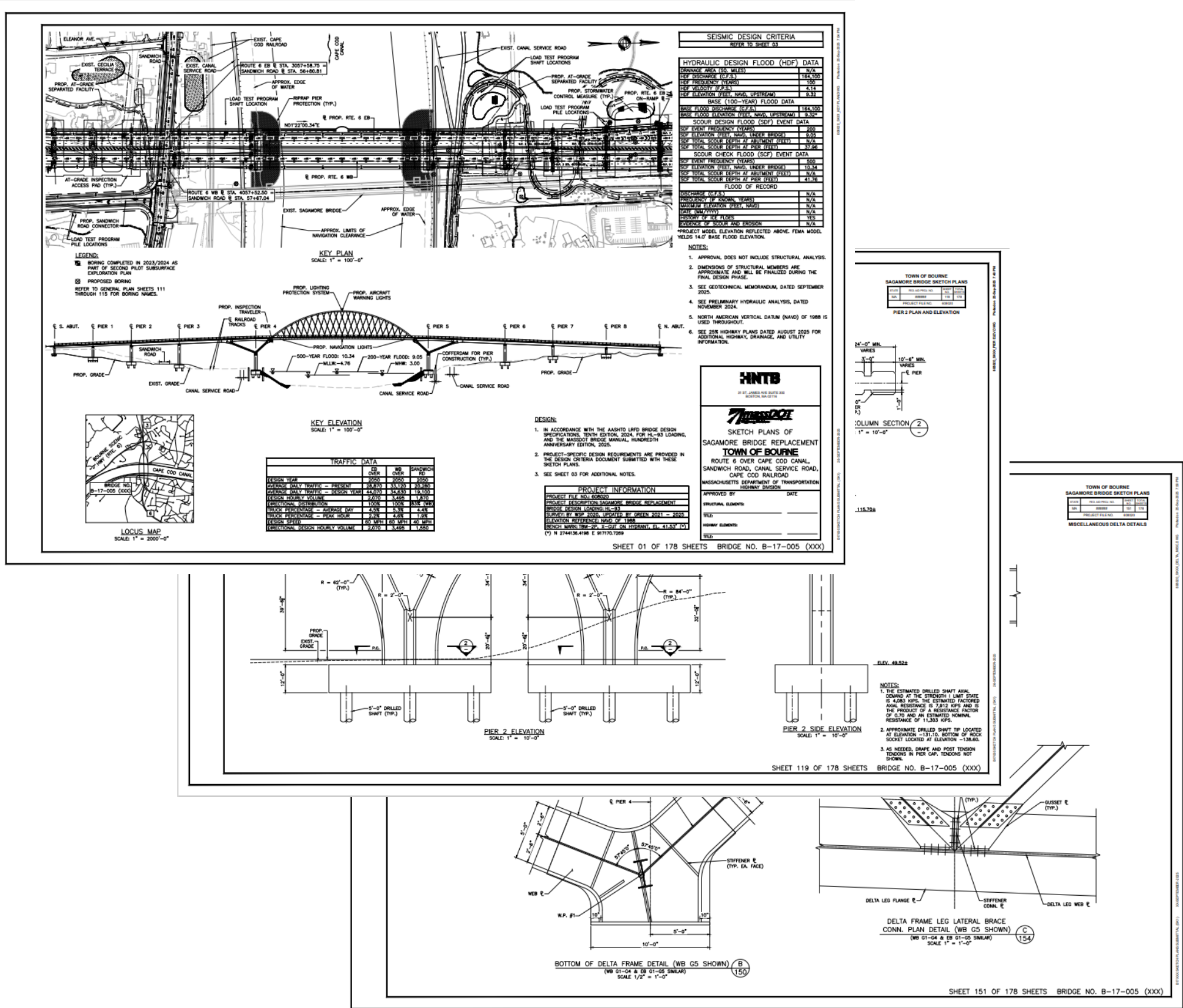
- Extension of a 12-foot Shared-Use Path along the both sides of Sandwich Road
- Left-turn pocket lanes to enhance vehicle safety at the Gallo Ice Arena Median islands to help manage vehicle speeds
- Reconfigure Gallo Ice Arena driveway for improved access management

Design Development - Structural

MassDOT has reviewed conceptual level designs for all structures (canal crossings, interchange bridges and walls).

MassDOT is currently reviewing the Preliminary Design submittal for the Sagamore canal crossing.

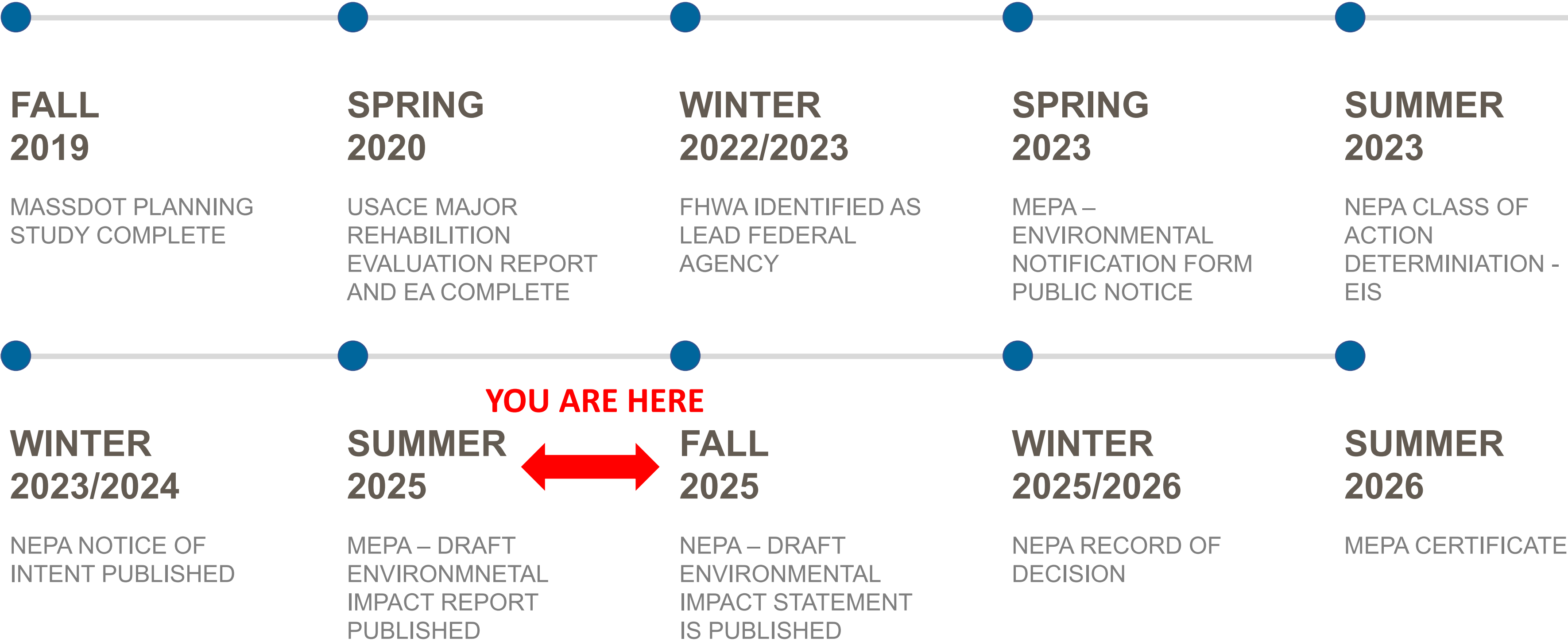
The Preliminary Design submittal for the Bourne Bridge canal crossing is under development and will be submitted in March of 2026.



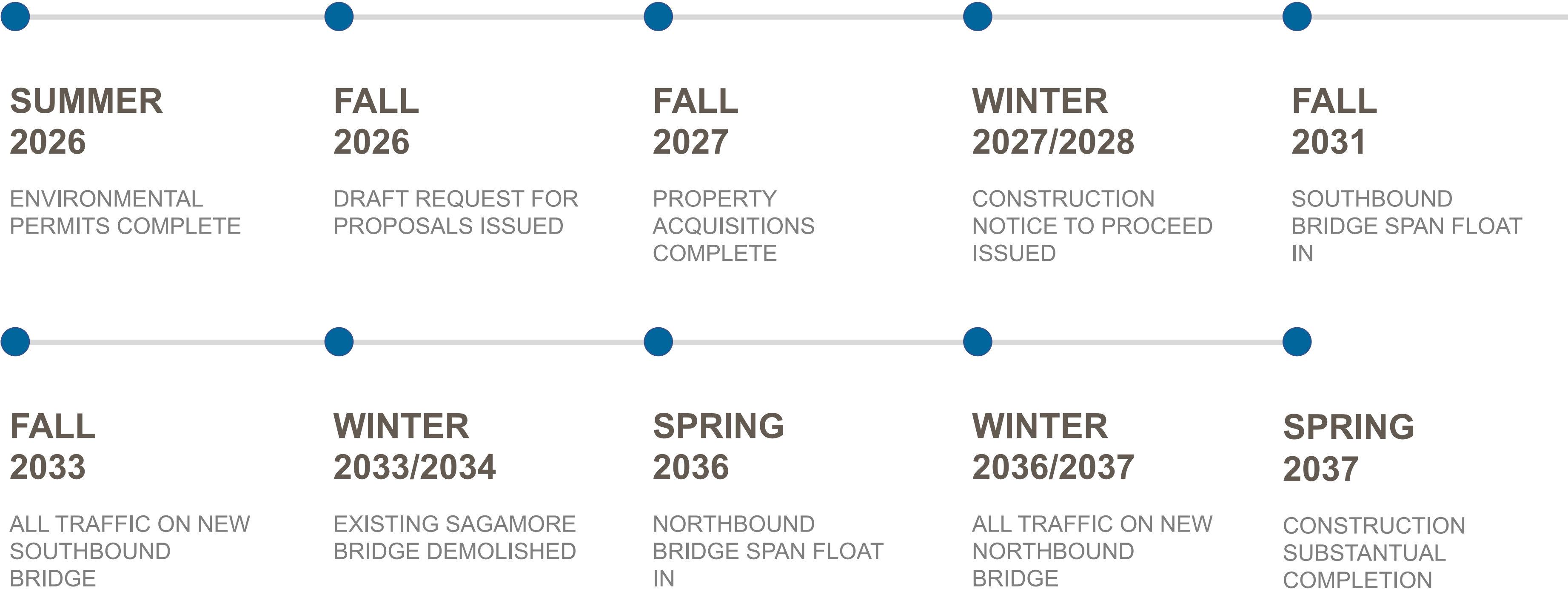


Schedule

Schedule – Cape Cod Bridges



Schedule – Sagamore Bridge



CONSTRUCTION MILESTONES ARE APPROXIMATE





Ongoing and Future Field Work

Ongoing Field Work – Survey, Borings and Utilities

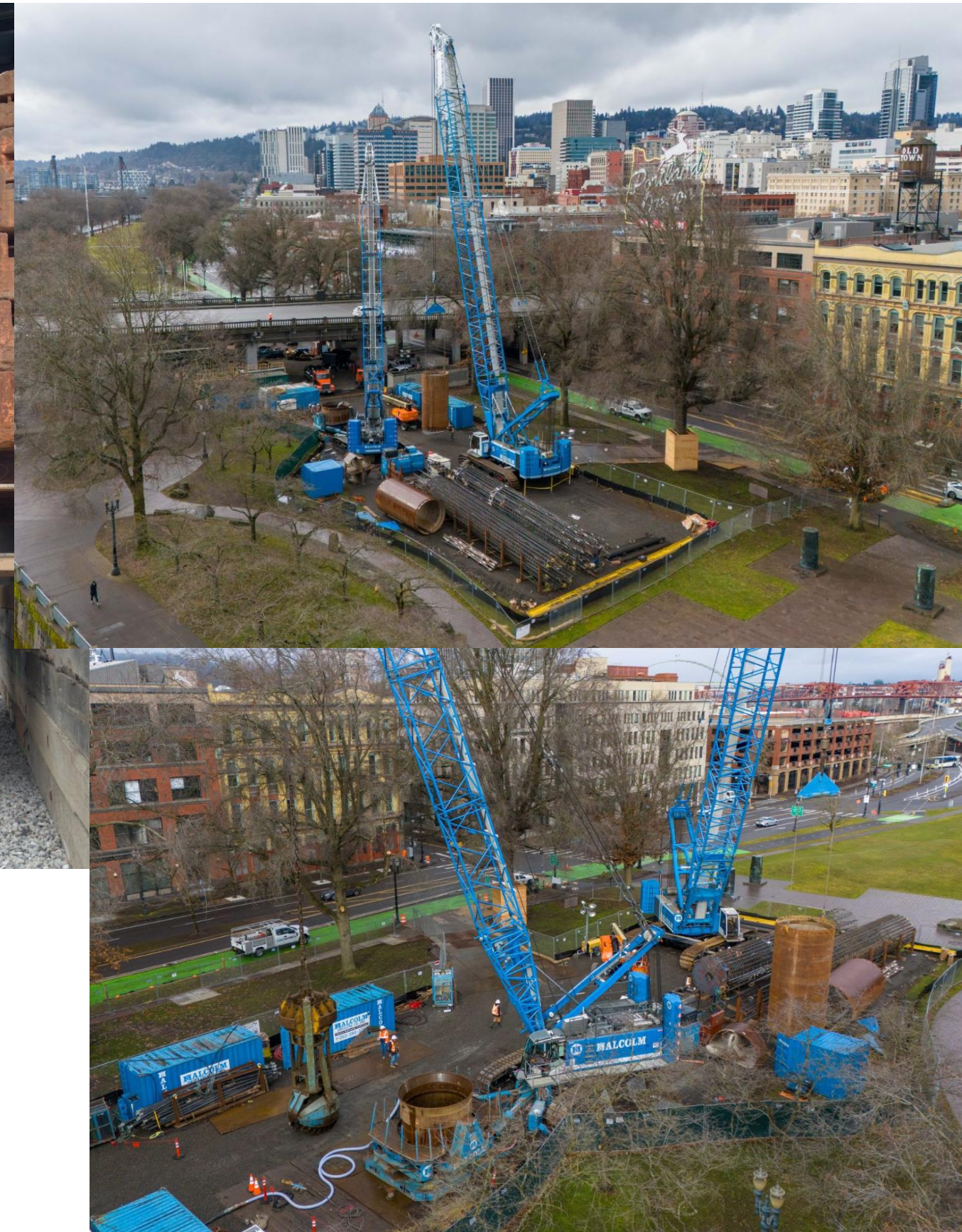


MassDOT Load Testing Program Overview

- MassDOT is currently soliciting bids for a foundation load testing program.
- This program involves installing drilled shafts and driven piles and then testing the performance of the installed shafts and piles.
- This work is being performed to confirm construction methods and geotechnical resistance values for both drilled shafts and driven piles to reduce design uncertainty and installation risks.
- Work will occur at four locations associated with the Sagamore crossing, two on the north side of the canal and two on the south side of the canal.
- Construction is anticipated to begin in the Spring of 2026.

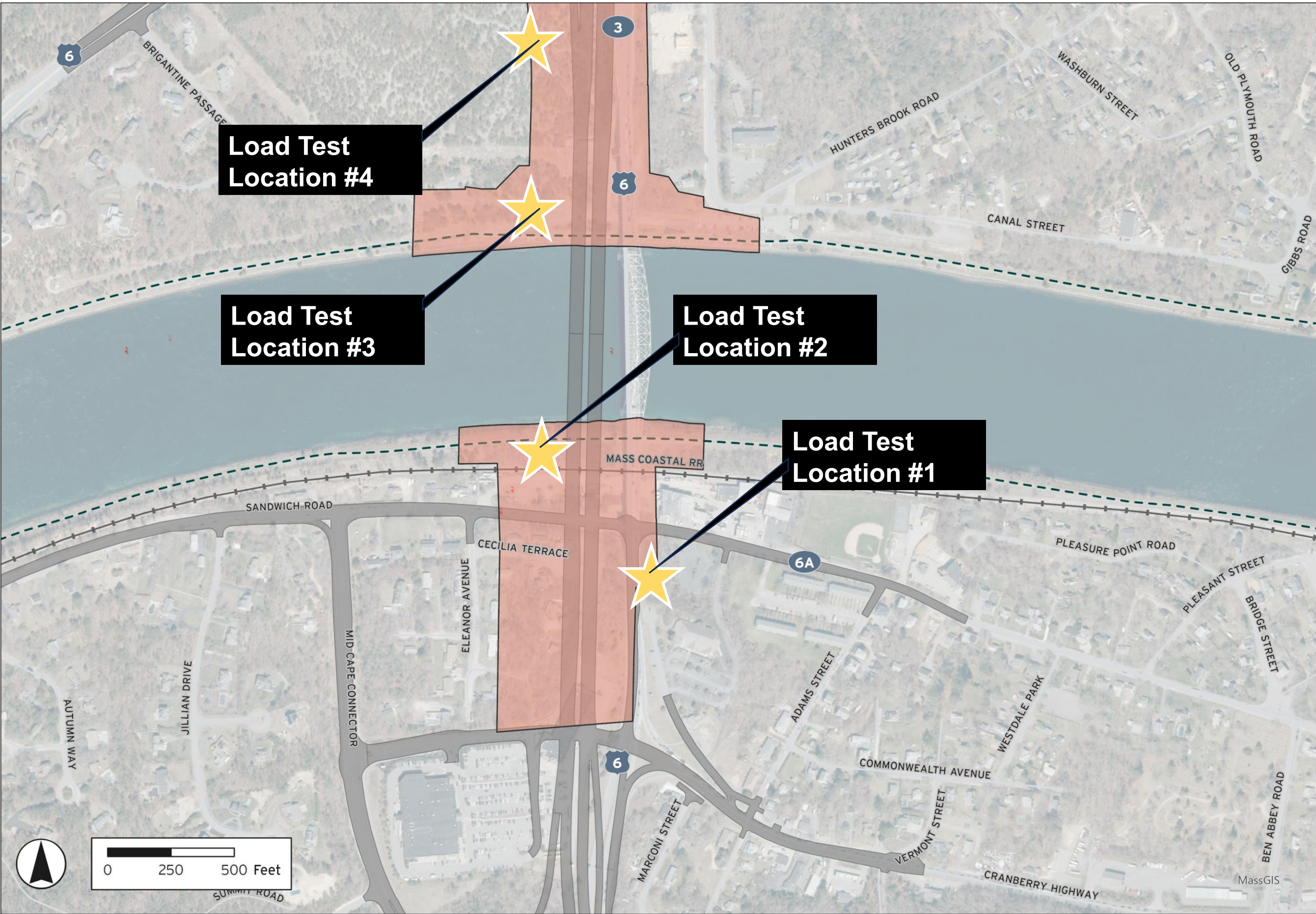


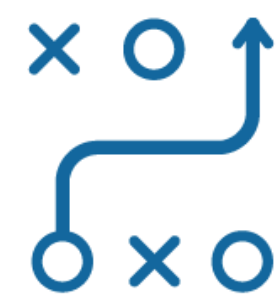
Example Pile Load Test



Example Drilled Shaft Load Test

MassDOT Load Testing Program Locations





Upcoming Activities

Upcoming Activities

DEIS Public Meeting – After DEIS is published

Section 4(F) Public Meetings - After DEIS is published

Cape Cod Bridges Forum – November 3, 2025

Advisory Group Meeting – December 9, 2025

Foundation Load Tests – Spring of 2026

