



Advisory Group Meeting #1

Cape Cod Bridges Program

May 16, 2023

Project File No. 608020



Members

Program Team

- MassDOT
- USACE
- HNTB
- Stantec

State and Federal Elected Officials

- 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. Moran
- State Senator Cyr
- State Rep. Viera
- State Rep. Peake
- State Rep. Diggs
- State Rep. Xiarhos
- State Rep. Fernandes

Stakeholders

- Town of Bourne
- Association to Preserve Cape Cod
- 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
- US Army Corps of Engineers
- Federal Highway Administration
- Mass State Police
- MEMA

Advisory Group Welcome

- Represents a wide range of interests, perspectives, and constituencies in the Cape Cod Canal region.
- Program team is committed to receiving input from key stakeholders and critical interests.
- You each have been identified as your organization's point of contact for this Advisory Group.
- Advisory Group will meet quarterly or as needed to discuss Program updates and advise the Program team.
- We appreciate your efforts, participation, and feedback, and look forward to working with you as we move forward with the Program.

Agenda

01 Introductions

02 Policies and Procedures

03 Public Involvement Update

04 Bridge Update

05 Roadway Location Update

06 Roadway Interchange Alternatives

07 Evaluation Criteria

08 MEPA ENF Filing

09 Next Steps

10 Questions and Discussion



Policies and Procedures

Policies and Procedures

- The goal of the Advisory Group is to advise the Program team on community interest, needs and concerns as they relate to this Program.
- This Advisory Group is not a decision-making body. Feedback will be considered to the maximum extent practicable by the Program team.
- Each member organization will be allotted one representative to be an active participant at every Advisory Group meeting.
- There is a benefit to consistency, therefore, all organizations are encouraged to send the same representative to each Advisory Group meeting.
- All other interested parties may attend and participate in Advisory Group meetings as members of the audience.

Policies and Procedures

- All comments and questions shared at Advisory Group meetings will be documented as part of the Program record.
- Participants should limit discussion to the topics and items being covered on each meeting's agenda and be mindful of time and limit their comments.
- We appreciate you allowing all interested representatives the opportunity to participate.
- Meeting notes will be taken at each meeting. Notes and presentations will be made available in an accessible format on the Program website following the meeting.



Public Involvement Update

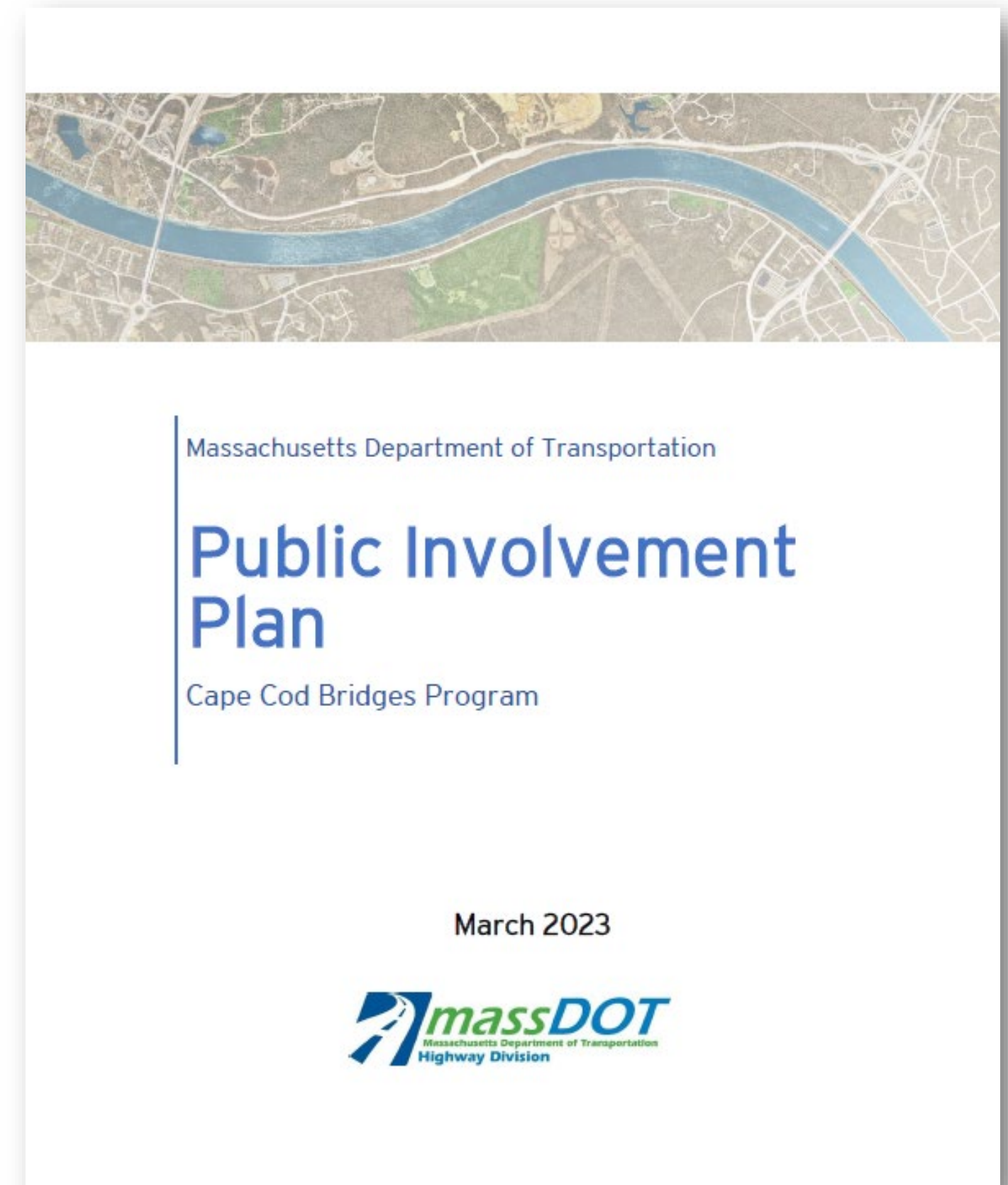
Public Involvement

5 total rounds of engagement consistent with the Program's Public Involvement Plan

- Meetings attended by nearly 4,200 individuals
- Over 1,700 comments received
- Over 4,000 contacts now included in Program database
- Stakeholder meetings have occurred with each round of engagement

Design topics have included:

- Purpose and Need
- Bridge type
- Bridge lane configuration
- Bridge locations
- Interchange alternatives



Round 5 Public Meeting Recap

March 22, 2023: **365 Attendees**

March 29, 2023: **329 Attendees**

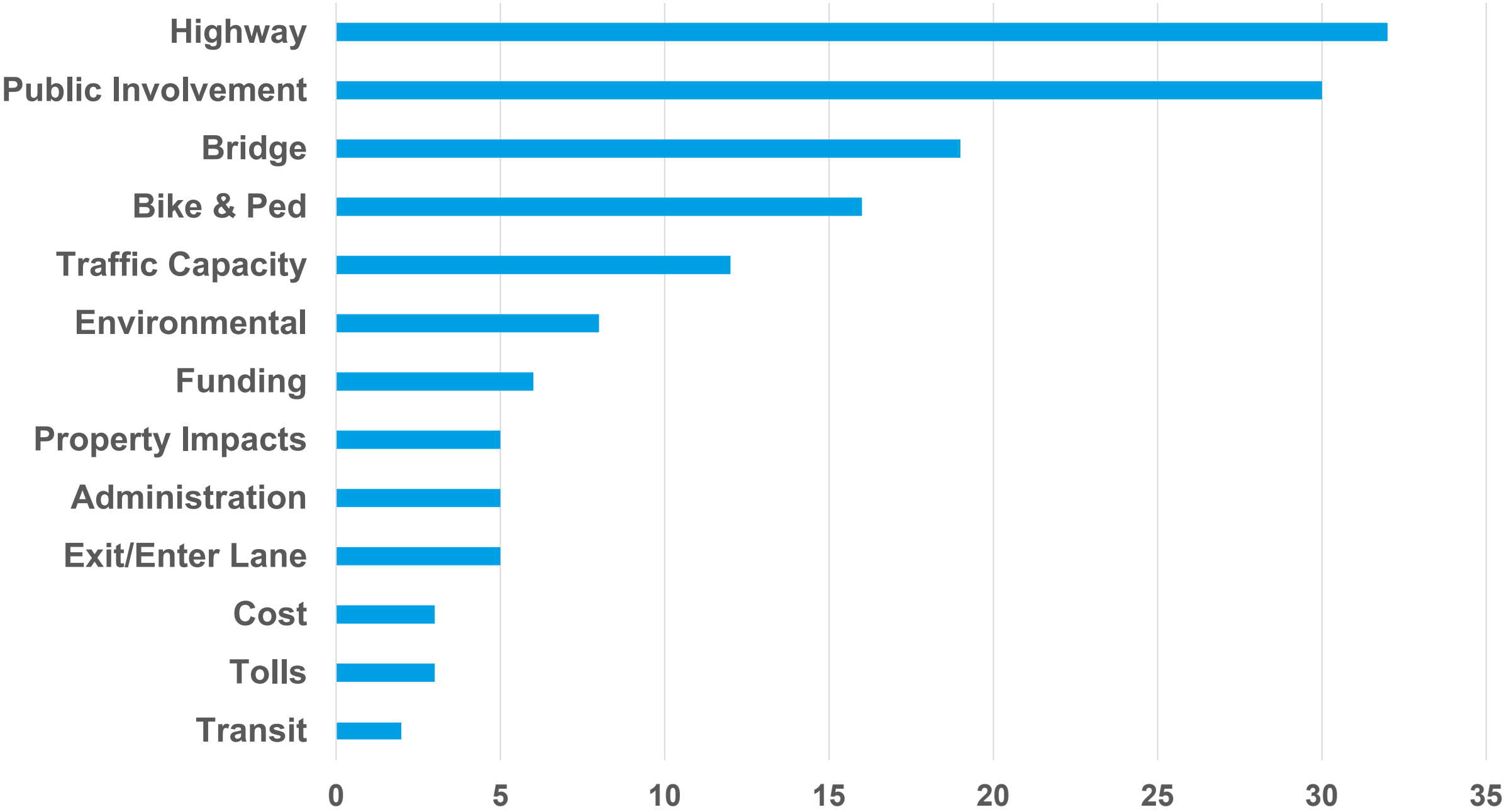
Design topics presented:

- Bourne Interchange Alternatives
- Sagamore Interchange Alternatives

146 public comments during meetings

Majority of comments focused on:

- Highway
- Public involvement
- Bridge

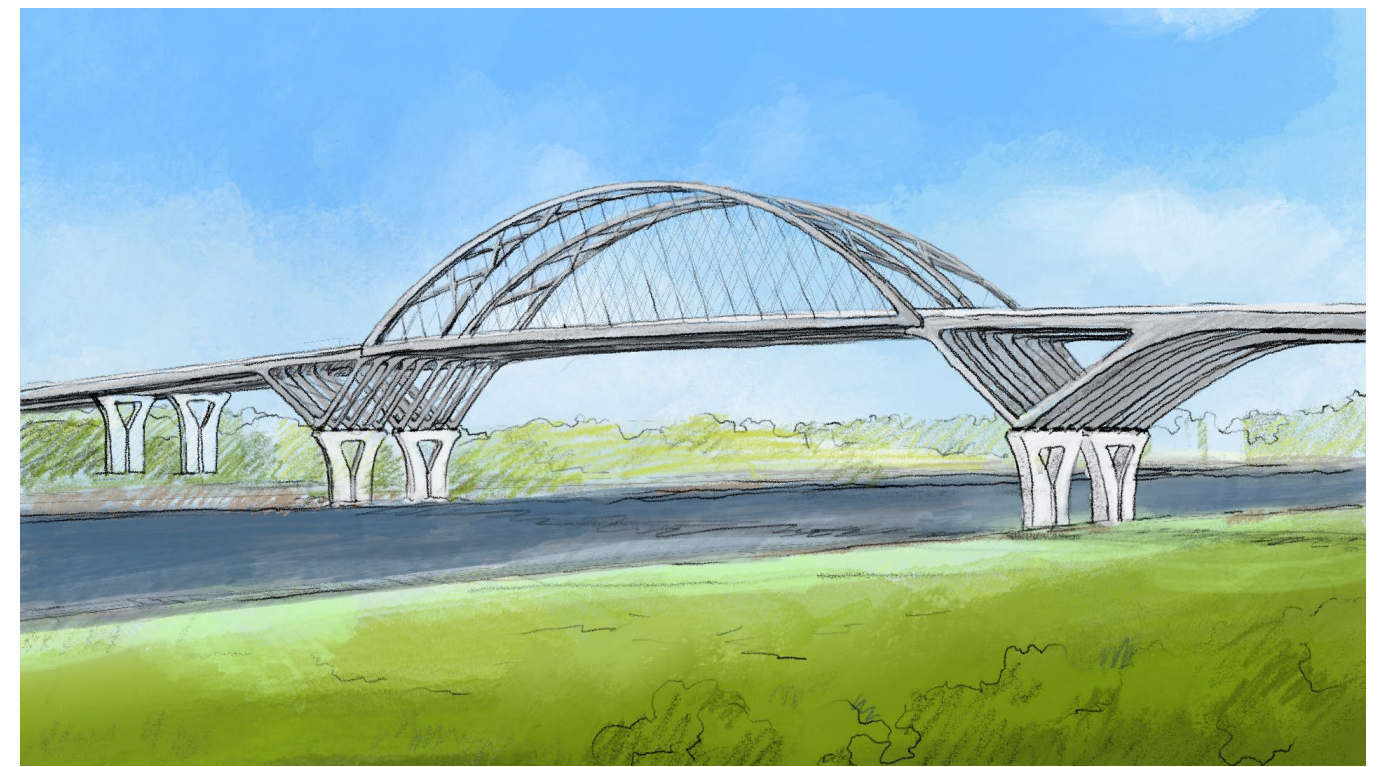




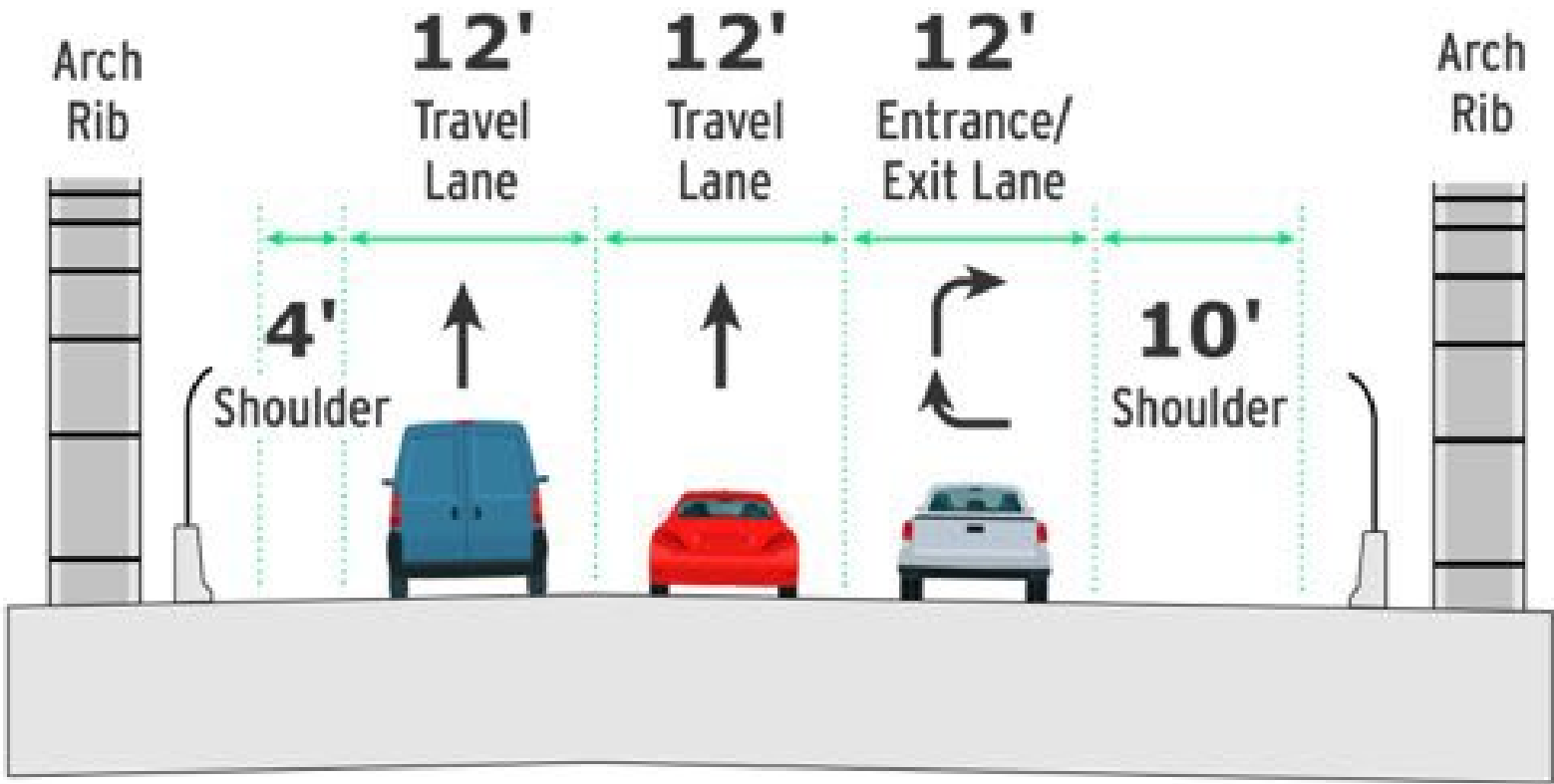
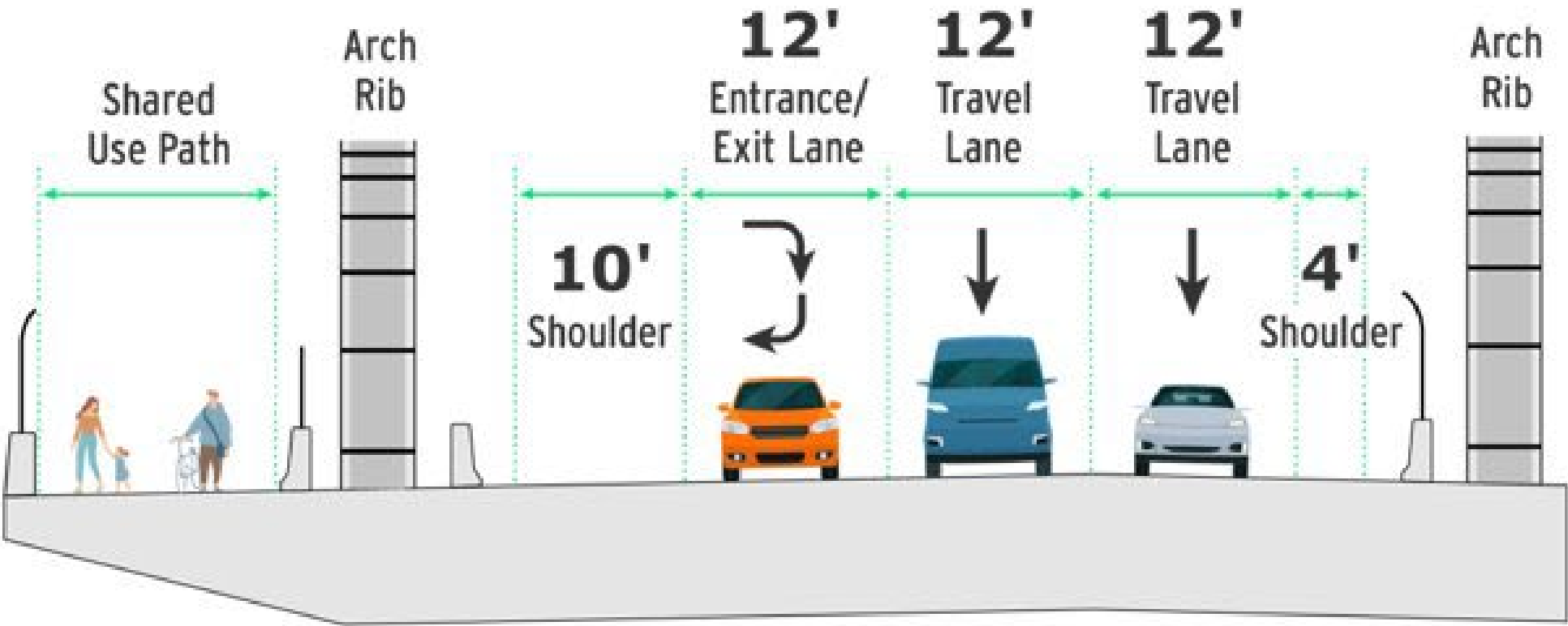
Bridge Update

Bridge Type Recommendation – Network Tied Arch

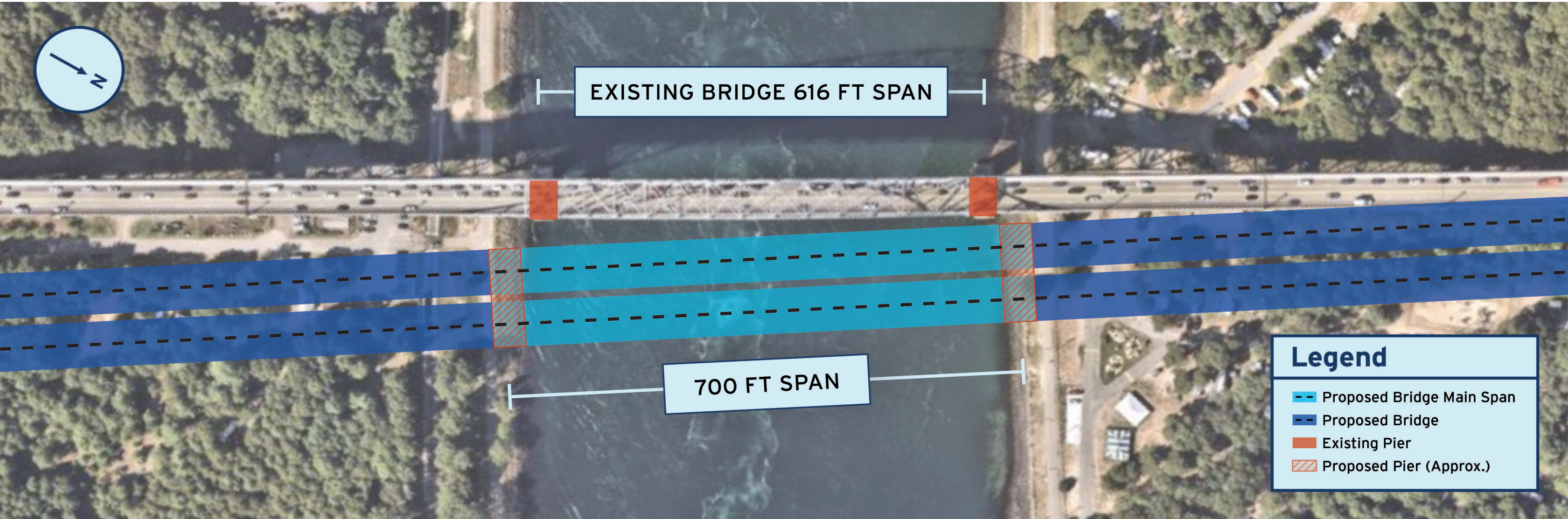
- Provides iconic portal, similar to the existing bridges
- Has a kinship with the existing bridge form and surrounding terrain
- Would likely be consistent with historic context and avoid adverse effect to the Cape Cod Canal Historic District
- Best able to accommodate ramp connections with smallest project footprint
- Arch built offsite and floated in will accelerate project schedule
- Construction can be easily adapted to wind conditions
- Innovative, state of the art structural system



Bridge Cross Section Recommendations



Bridge Pier Location Recommendations



General recommendation on location of bridge piers.

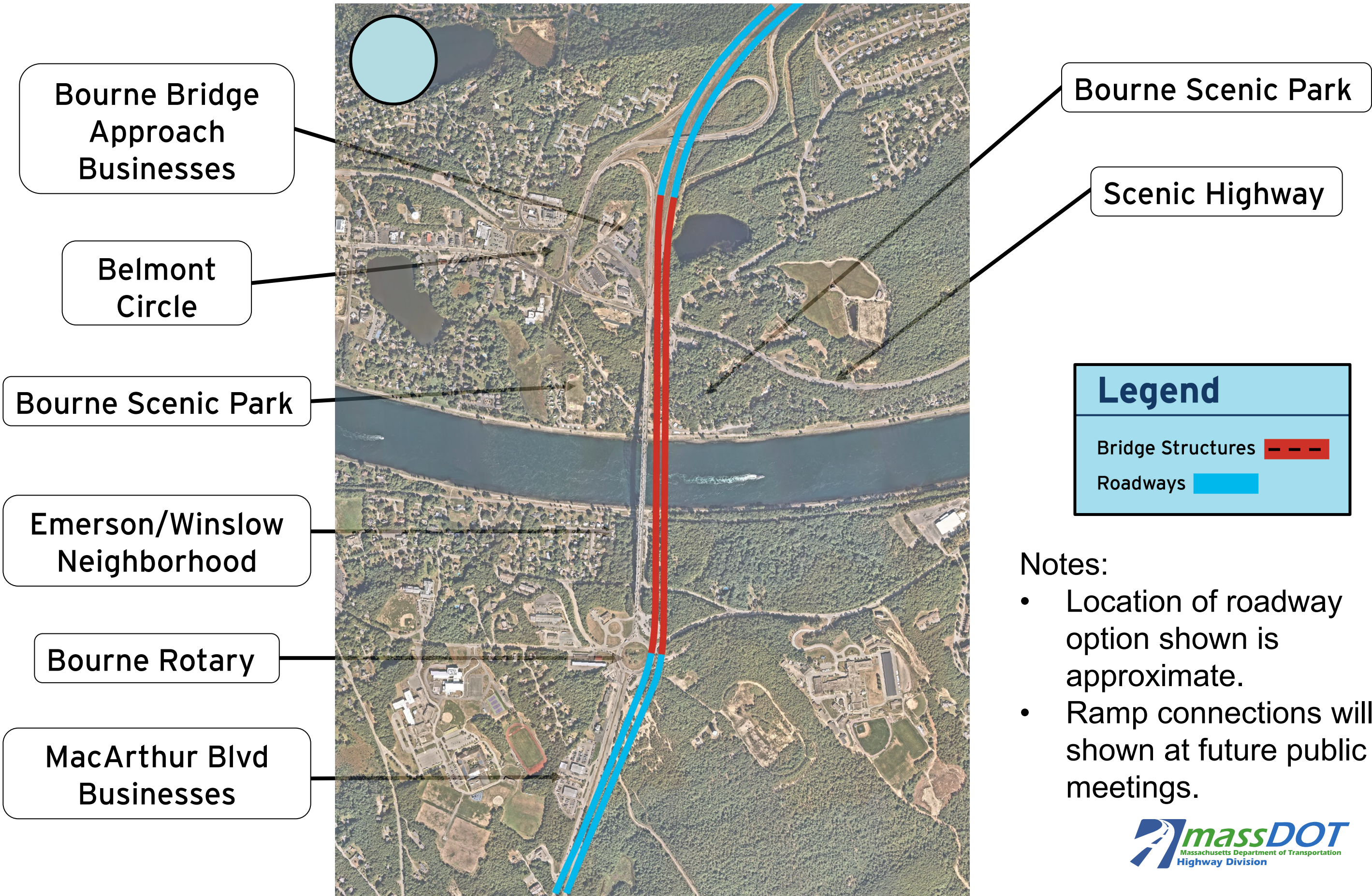
Piers would be relocated further away from the navigation channel.



Roadway Location Update

Roadway Location Recommendation – Bourne Bridge

The analysis indicates that the **Inboard** option is the most favorable out of the three options studied because it has the least impacts to residential and commercial properties and is the least impactful to the traveling public during construction.



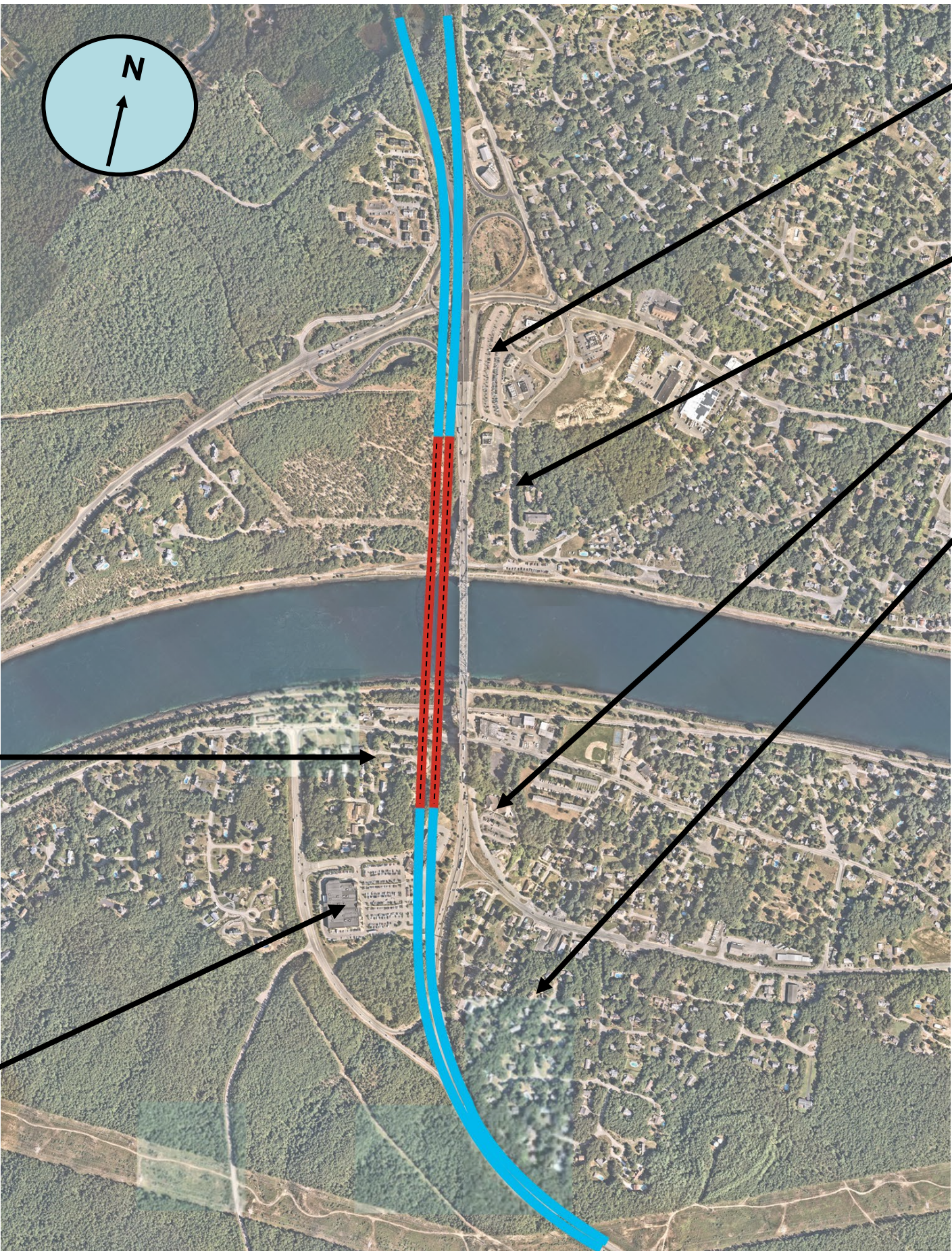
- Notes:
- Location of roadway option shown is approximate.
 - Ramp connections will be shown at future public meetings.

Roadway Location Recommendation – Sagamore Bridge

The analysis indicates that the **Inboard** option is the most favorable out of the three options studied because it has the least impacts to residential and commercial properties and is the least impactful to the traveling public during construction.

Eleanor Ave/Cecilia Terrace Neighborhood

Market Basket



Park and Ride

Canal St Neighborhood

Christmas Tree Shops

Marconi/Adams St Neighborhood

Legend

Bridge Structures

Roadways

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- Notes:
- Location of roadway option shown is approximate.
 - Ramp connections will be shown at future public meetings.



Roadway Interchange Alternatives

Bourne and Sagamore Interchange Alternatives

A robust interchange alternatives development process has occurred

Ten interchange alternatives are proposed for further analysis in the NEPA and MEPA review processes

- Bourne North – 3 interchange alternatives
- Bourne South – 2 interchange alternatives
- Sagamore North – 2 interchange alternatives
- Sagamore South – 3 interchange alternatives

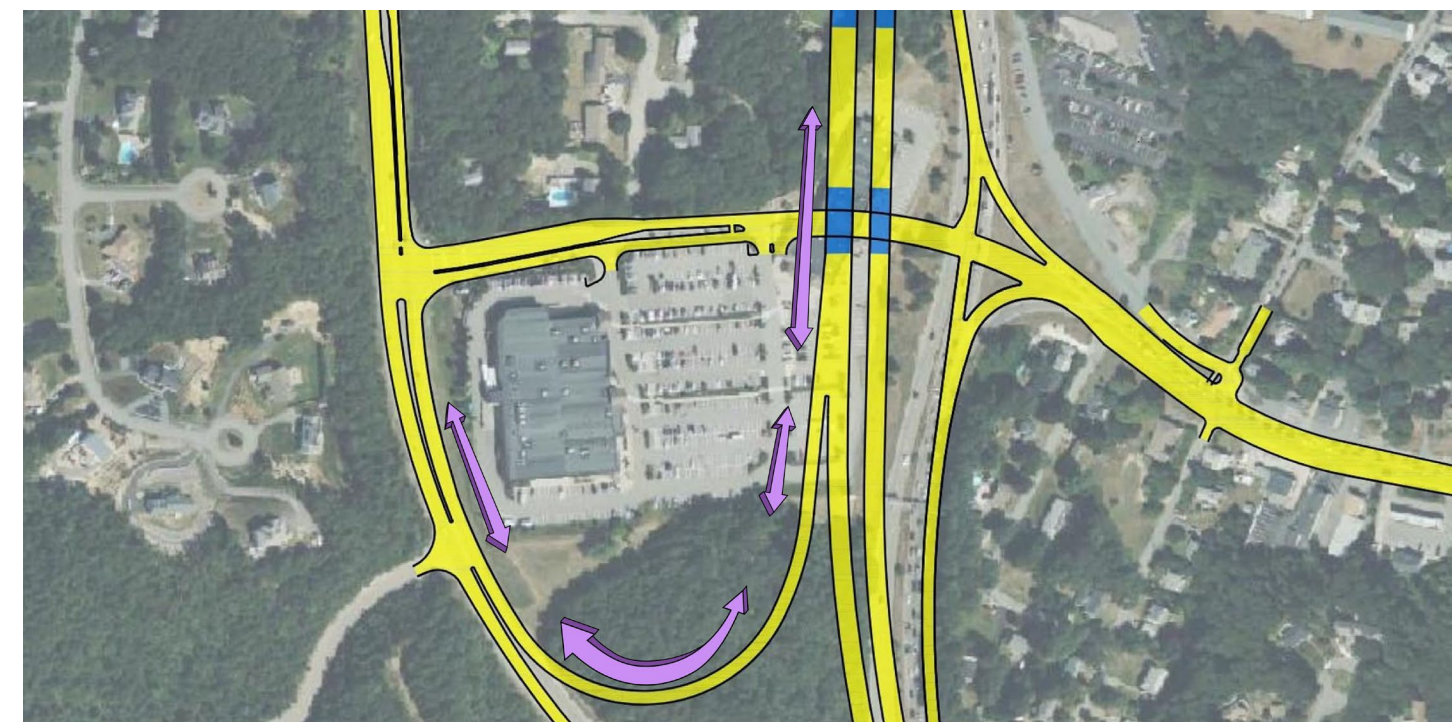
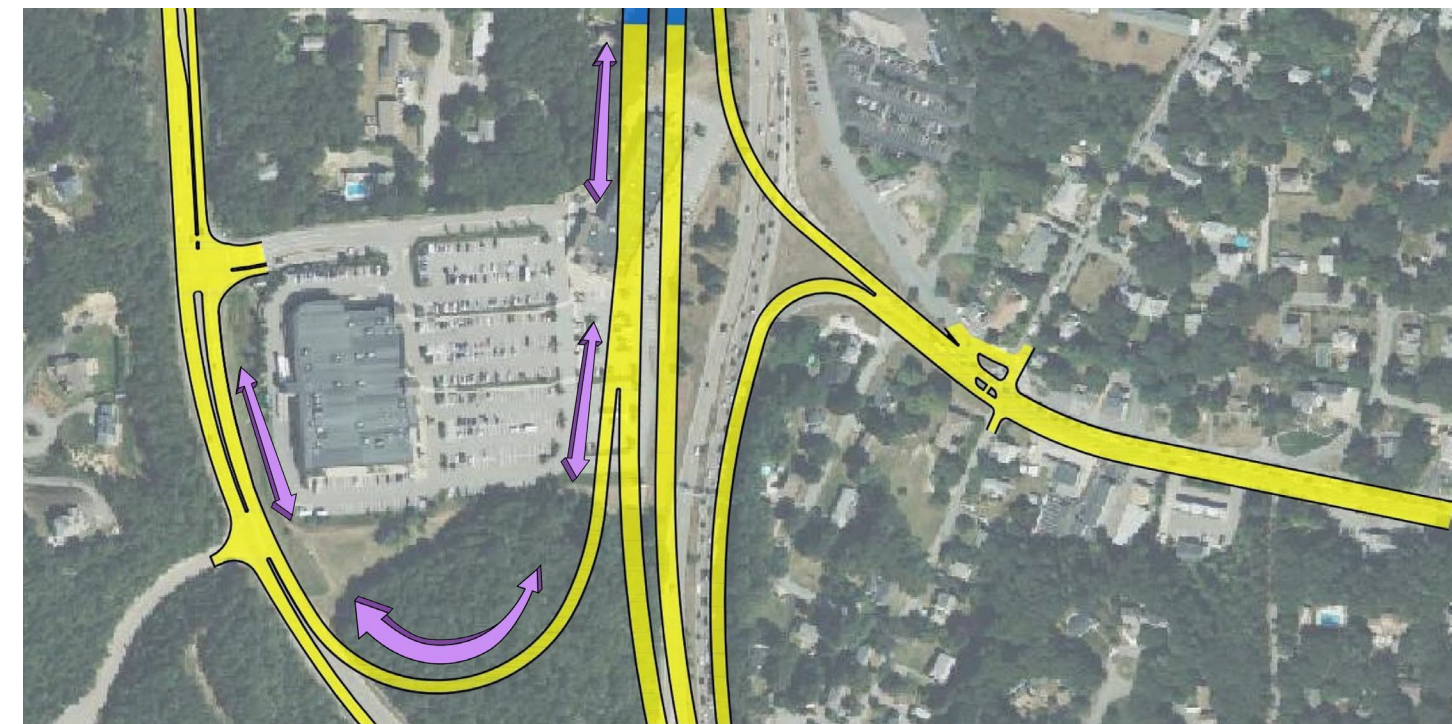
Interchange alternatives were presented during the Round 5 public meetings

All remaining interchange alternatives have a similar level of environmental impact

Traffic modeling will support future alternatives analysis

This Advisory Group has been identified to help inform future analysis considerations

Example Interchange Alternatives – Sagamore South





Evaluation Criteria

Program Purpose and Need

- Provides a comprehensive understanding of why the project is needed and what it hopes to accomplish
- Used as the first level of screening
- Purpose and Need is as follows:

“The Purpose of the Cape Cod Bridges Program is to improve cross-canal mobility and accessibility between Cape Cod and mainland Massachusetts for all road users and to address the increasing maintenance needs and functional obsolescence of the aging Cape Cod Canal highway bridges.

The Program will improve traffic operations and multimodal accommodations to facilitate the dependable and efficient movement of people, goods, and services across the Cape Cod Canal.”

Past Evaluation Criteria



Measures of Effectiveness

What are Measures of Effectiveness and why they are important?

- Measures of Effectiveness (MOEs) will be used to guide the development and evaluation of the roadway alternatives.
- Alternative designs will be evaluated based on how they respond to these categories.



Measures of Effectiveness – Categories

MOEs will be developed specific to the following categories

- Mobility and Operations
- Safety
- Constructability/Staging
- Reliability
- Abutter Impacts
- Environmental Considerations
- Resiliency and Sustainability
- Multimodal Connectivity
- Cost

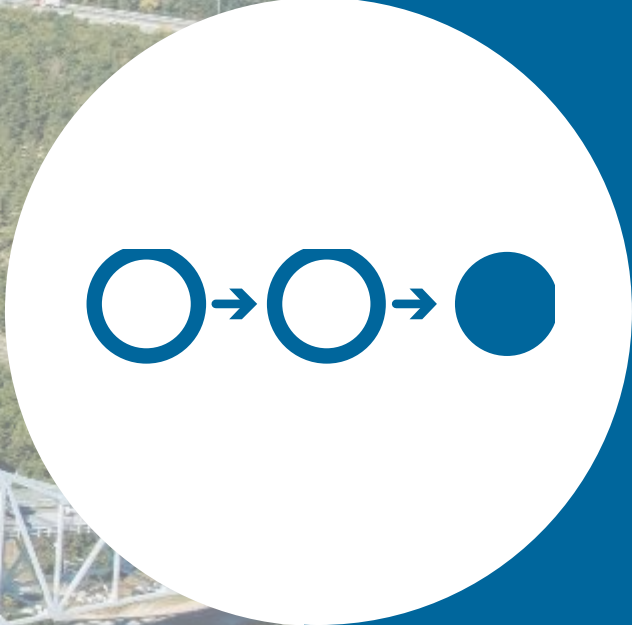


<https://tinyurl.com/ccbpMOEs>

Are there additional categories that MassDOT should consider?

For each category, do you have any thoughts, priorities, or suggestions?

Please let us know by June 16th.



MEPA ENF Filing

Massachusetts Environmental Policy Act

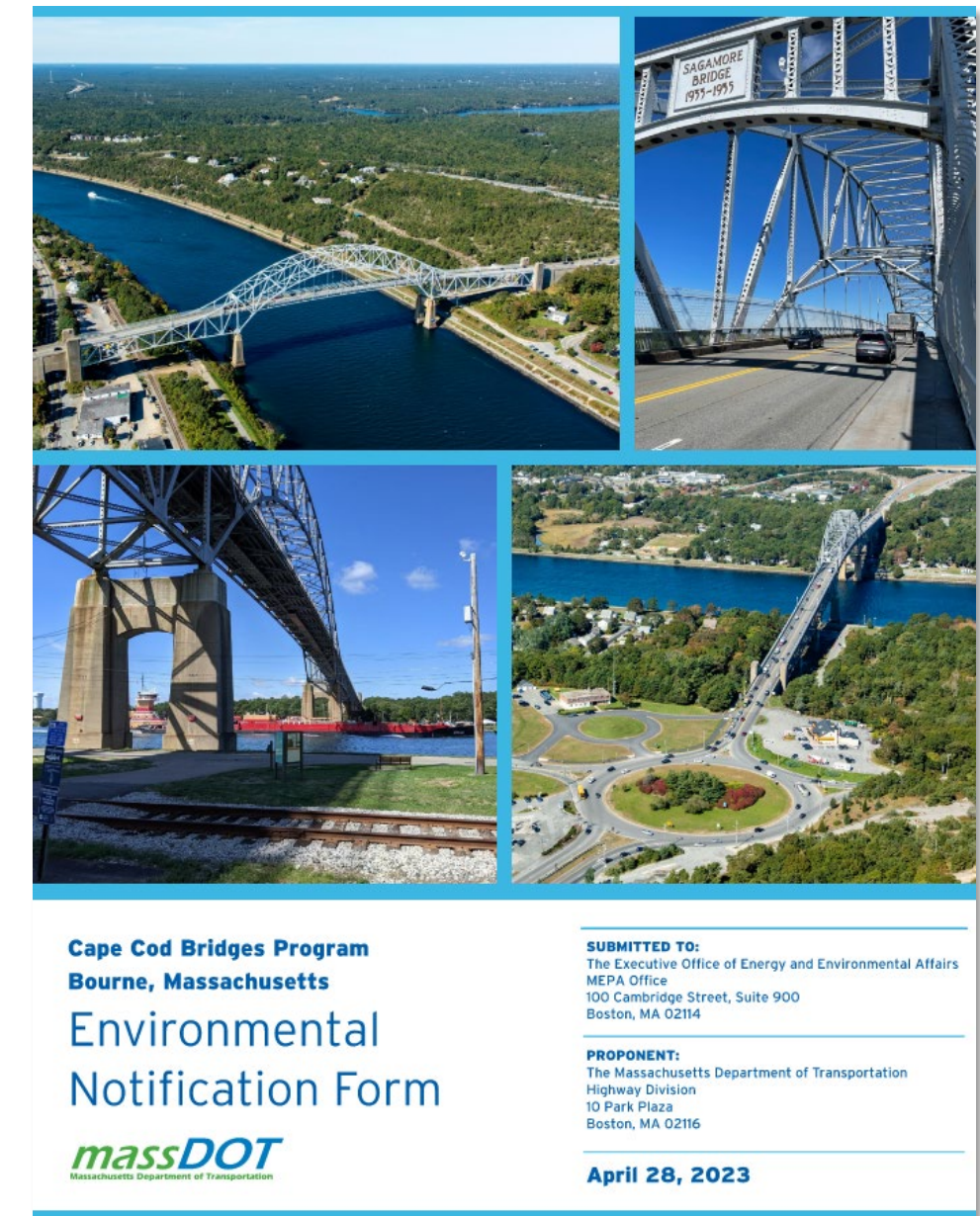
MassDOT filed an Environmental Notification Form (ENF) with the Massachusetts Environmental Policy Act (MEPA) Office on April 28, 2023.

Will appear in the May 10, 2023 edition of the Environmental Monitor:

<https://eeaonline.eea.state.ma.us/EEA/MEPA-eMonitor/home>

The ENF is the first step of the Program's MEPA review.

- Provides the public with an opportunity to review the Program's alternatives evaluation process and potential environmental impacts identified to date.
- Gives an overview of the ongoing evaluation process and proposed impact assessments, including development of mitigation measures.
- Presents MassDOT's screening methodologies to arrive at preferred options for the replacement bridge structures' main span length and pier location, deck configuration, bridge type, and mainline alignment location.
- Presents the preliminary impacts of ten interchange approach alternatives for the replacement bridges based on conceptual design.



Environmental Notification Form

Massachusetts Secretary of Energy and Environmental Affairs expected to issue Certificate on the ENF and Scope of Draft Environmental Impact Report on July 7, 2023.

Any person or agency may submit comment on the ENF to the MEPA Office. Comments must be received by June 27, 2023.

Online:

Submit comments through the Public Comment Portal. You may register and create an account or submit comments anonymously as a guest: <https://eeaonline.eea.state.ma.us/EEA/PublicComment/UI/searchcomment>

By Email:

Comments can be e-mailed directly to Nicholas Moreno at nicholas.moreno@mass.gov

Please reference Cape Cod Bridges Program and EEA# 16695 in the subject line of the e-mail.

By Mail:

Secretary of Energy and Environmental Affairs

Executive Office of Energy and Environmental Affairs (EEA)

Attn: MEPA Office

Nicholas Moreno, EEA No. 16695

100 Cambridge Street, Suite 900

Boston MA 02114

Open House

An Open House event will be held on Wednesday, May 17, at the Bourne Veteran’s Memorial Community Center.

The public is encouraged to attend from 12 p.m. through 3 p.m. and then from 5 p.m. through 8 p.m.

The event is serving as the public consult session for the ENF. Attendees can view graphics and displays and engage directly with the Program Team.

Event will include areas highlighting:

- ENF
- MEPA Process
- Bridges
- Interchange alternatives
- Bicycle and pedestrian facilities
- FAQs
- Interactive activities



OPEN HOUSE

Cape Cod Bridges Program

What is happening?

The Massachusetts Department of Transportation (MassDOT) invites you to attend an upcoming Open House for the Cape Cod Bridges Program. The public is encouraged to attend this Open House and learn more about the Program and provide feedback. There will be information on the Environmental Notification Form, status of the Program, interchange alternatives, potential bridge locations and lane configurations, maps of the Program Area, and next steps. Public input will be reviewed and considered to the maximum extent possible.

How will this affect you?

The Program will include the replacement of the Bourne and Sagamore bridges, provide new connections to the local roadway network and improve multimodal accommodations within the Cape Cod Canal area.

When	Where
Wednesday, May 17 th , 2023 Afternoon: 12 P.M. to 3 P.M. EST Evening: 5 P.M. to 8 P.M. EST	Bourne Veteran’s Memorial Community Center 239 Main Street, Buzzards Bay, MA, 02532



Registration for this event is not required. The Community Center is an ADA-compliant location. Translation services will be available in Spanish, Portuguese, ASL and by request. Visit www.mass.gov/cape-bridges for more information.



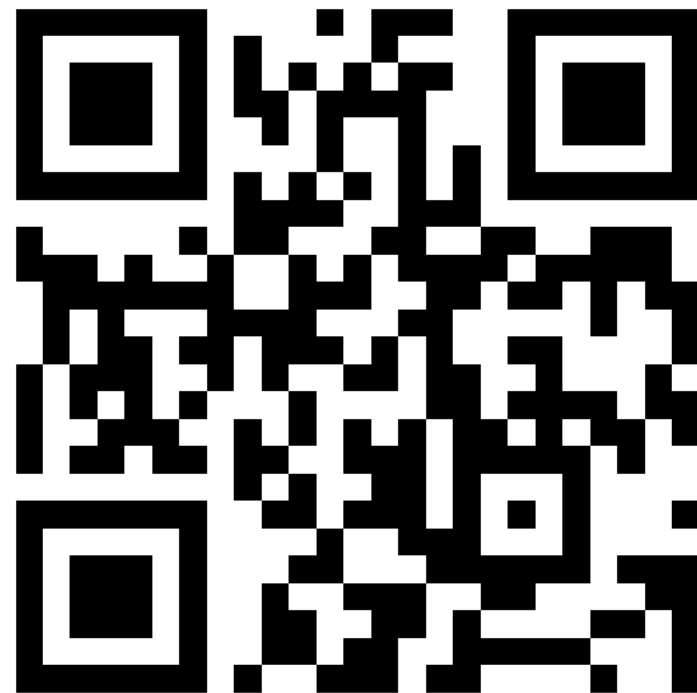
To ensure its meetings are accessible, MassDOT reasonably provides: translation, interpretation, modifications, accommodations, alternative formats, and auxiliary aids and services. To request such services, please contact MassDOT’s Chief Diversity and Civil Rights Officer at 857-368-8580 or MassDOT.CivilRights@dot.state.ma.us. 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: massdotmajorprojects@dot.state.ma.us
Please submit any written statements regarding the proposed undertaking to: **Carrie A. Lavallee, P.E., Chief Engineer, MassDOT, Suite 7410, 10 Park Plaza, Boston, MA 02116, Attention: Highway Division, PROJECT FILE NO. 608020**

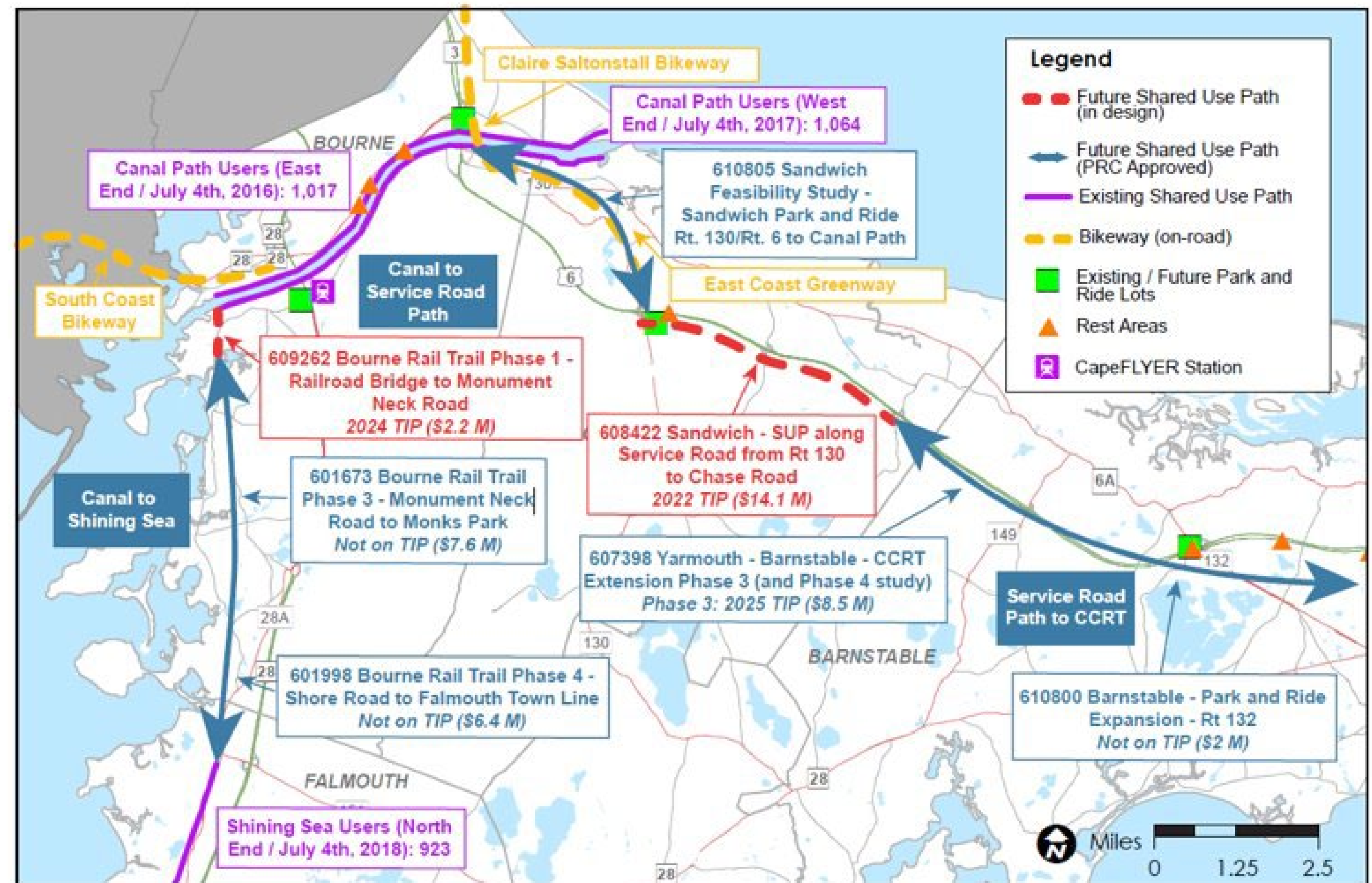


Next Steps

Meeting #2 Look Ahead Bicycle and Pedestrian Facilities



- <https://tinyurl.com/ccbpBikePed>
- What are your priorities regarding bicycle and pedestrian facilities?
- Input will be reviewed prior to Advisory Meeting #2 and discussed during that meeting.



Advisory Group Next Steps

- MassDOT anticipates convening quarterly meetings of the Advisory Group with the next meeting taking place in late summer.
- MassDOT to present input received from the Advisory Group and discuss relocation of the existing natural gas lines off canal bridges
- Meeting notes and this presentation will be available online on the Program website.
- Invitations to meetings will be distributed to member organizations at least two weeks in advance.
- Advisory Group member organizations will also have opportunity to provide feedback, comments, and ask questions outside of the formal Advisory Group meetings by submitting comments and questions to the Program team.

Next Steps

- Continued public outreach and stakeholder engagement.
- Additional design and secondary screening of the ten alternatives to identify a single set of interchange pairings (Preferred Alternative) for each bridge crossing.
- The results of the secondary screening of the ten interchange approach alternatives and determination of the Preferred Alternative for each crossing will be presented in the combined DEIR/EA
- MassDOT in coordination with the U.S. Army Corps of Engineers will continue to pursue all opportunities for federal funding as they become available.

Communications

**For General Information,
Visit the Project Website:** www.mass.gov/cape-bridges



Project Contacts:

- Bryan Cordeiro, Project Manager, Email: bryan.cordeiro@state.ma.us
- Gareth Saunders, Office of Legislative Affairs Highway Liaison,
Email: gareth.saunders@state.ma.us



Questions and Discussion



Thank You

Cape Cod Bridges Program

May 16, 2023

Project File No. 608020

