



PFC Ralph T. Basiliere Bridge Replacement

*Latino Coalition of Haverhill
Briefing*

Haverhill | August 23, 2023 |

Project File No. 605304

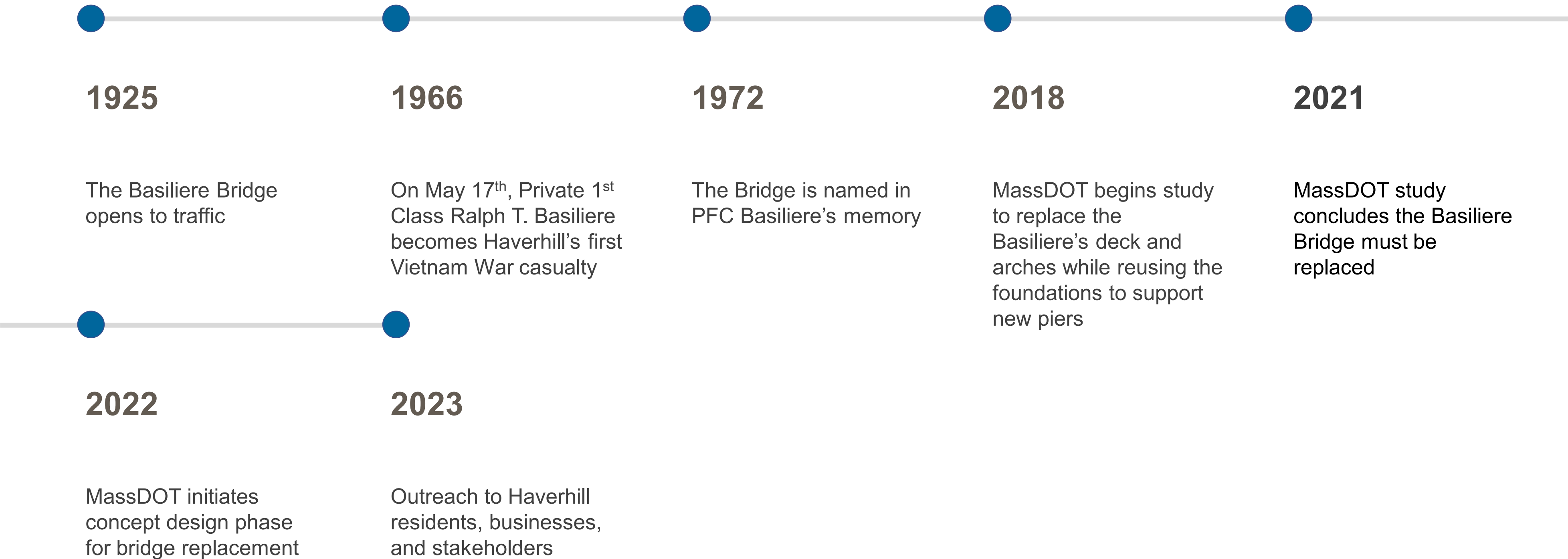


Agenda

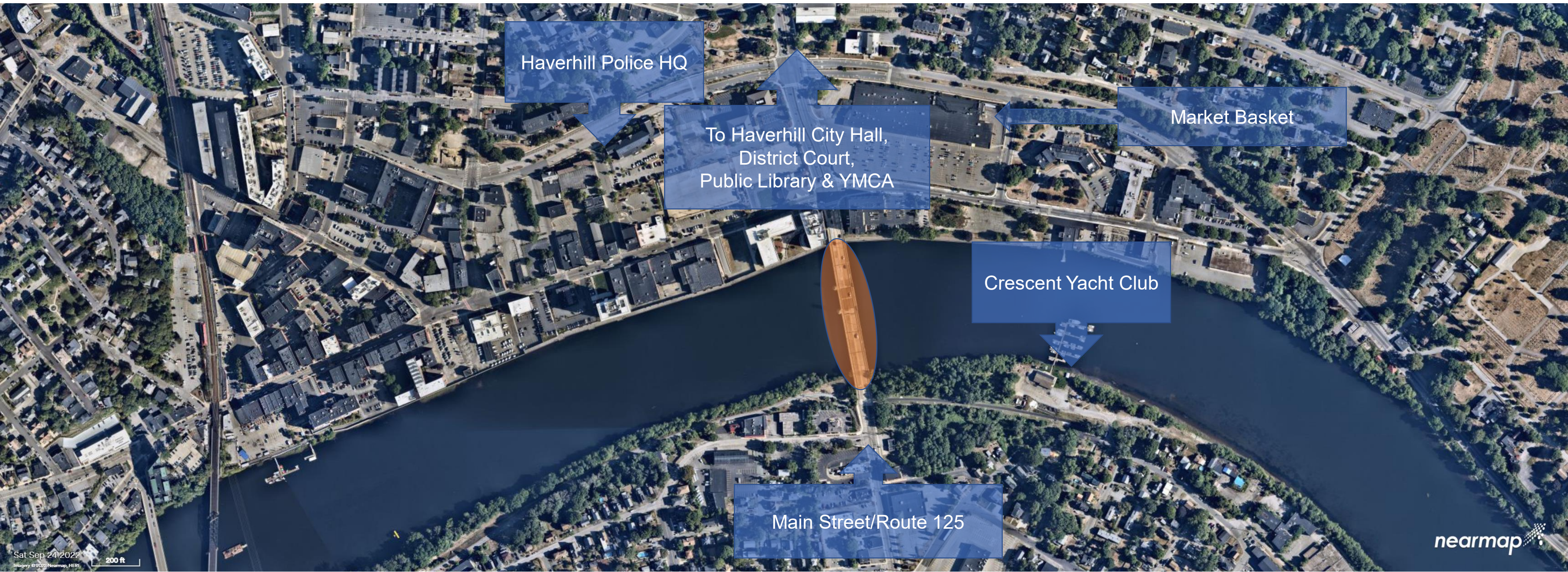
1. Welcome & Overview
2. Project Status
3. Keeping Haverhill Open for Business
4. What is our construction approach?
5. Questions & Discussion



How did we get here?

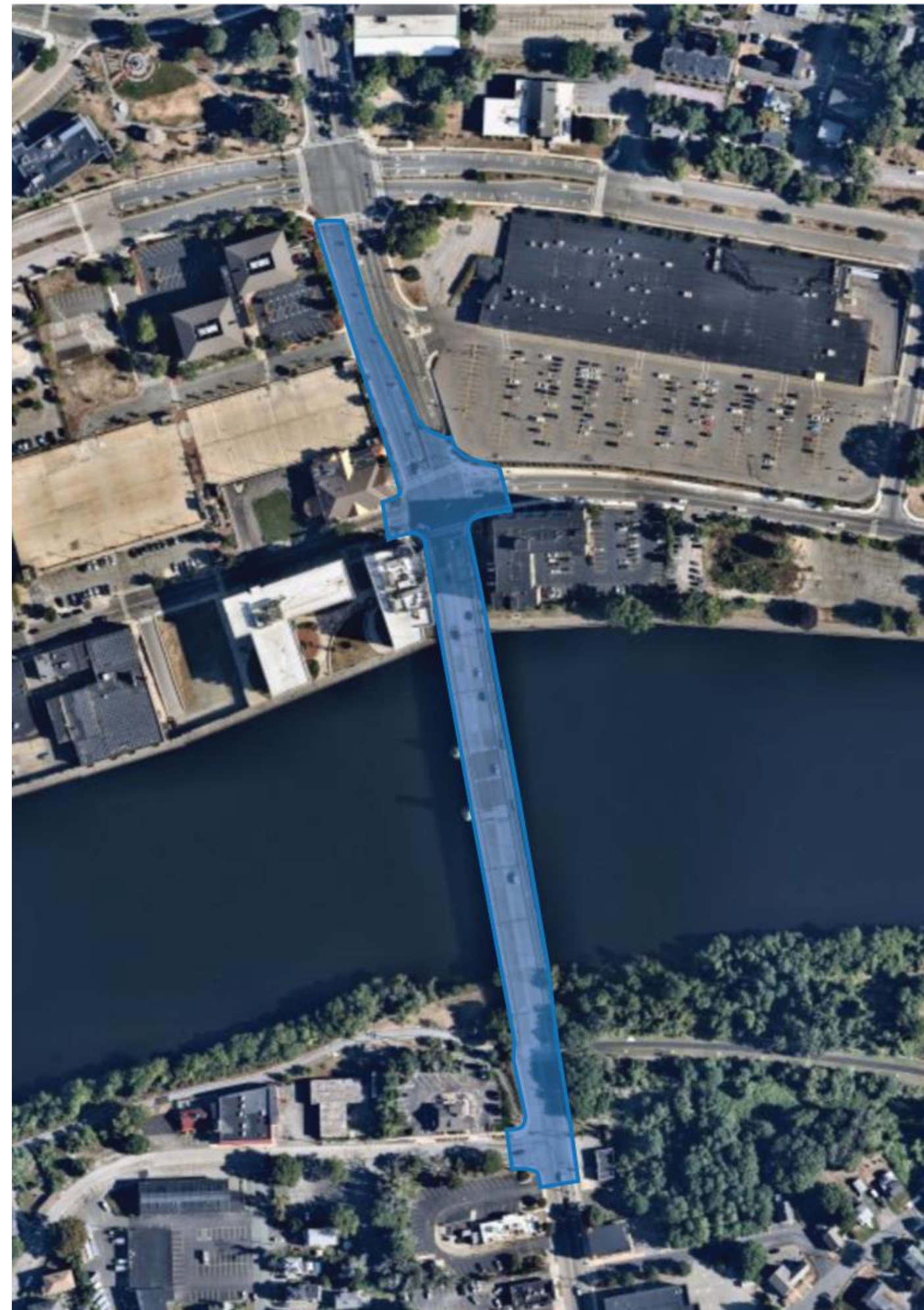


A Haverhill Landmark & Connector Since 1925

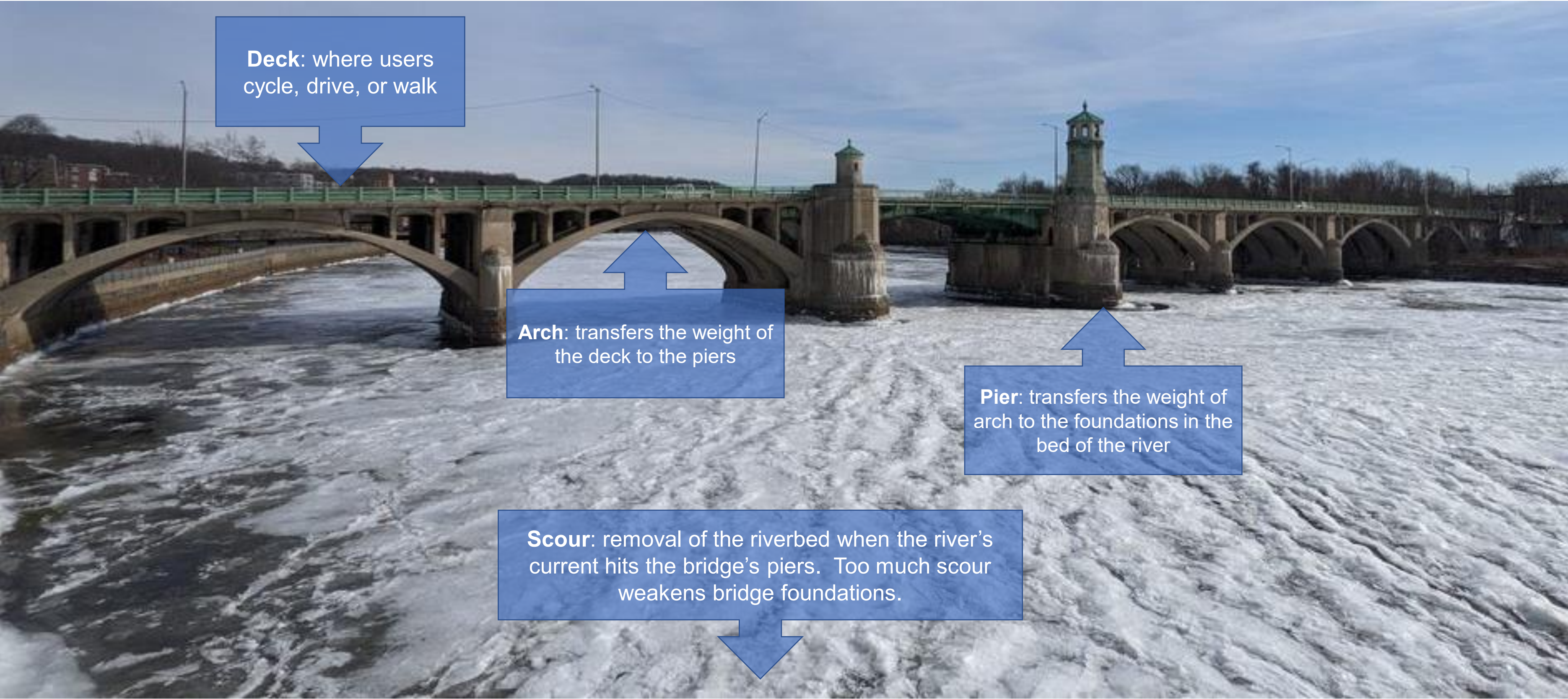


Current Limits of Work

- In the North:
 - The Main Street/Water Street/Merrimack Street intersection
 - A portion of Main Street as far north as Bailey Boulevard
- In the South:
 - Just past the S. Main Street/Middlesex Street intersection
- Includes short stretches of intersection approaches



Key Terms

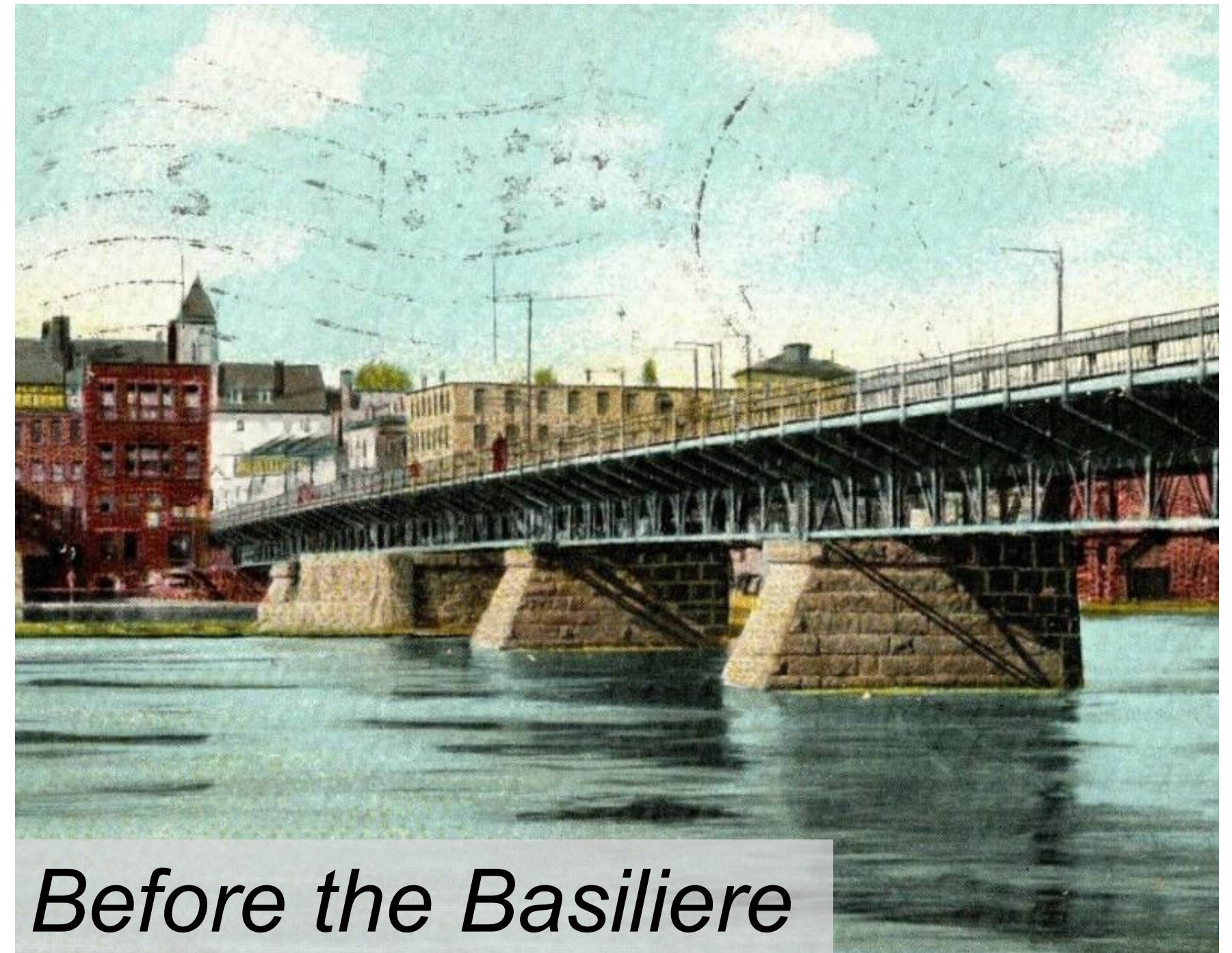




**Why was this
project
initiated?**

PFC Ralph T. Basiliere Bridge: Key Facts

- The existing bridge opened 1925 and replaced an older crossing.
- The Basiliere is technically two bridges with elements of the pre-1925 structure mixed into today's bridge
- Total length – roughly 800 feet
- Bridge width – roughly 68 feet
- Carries 20,000+ vehicles per day
 - 4% heavy vehicles including MVRTA buses
- At the end of its useful lifespan
- ***Remains safe for all users***



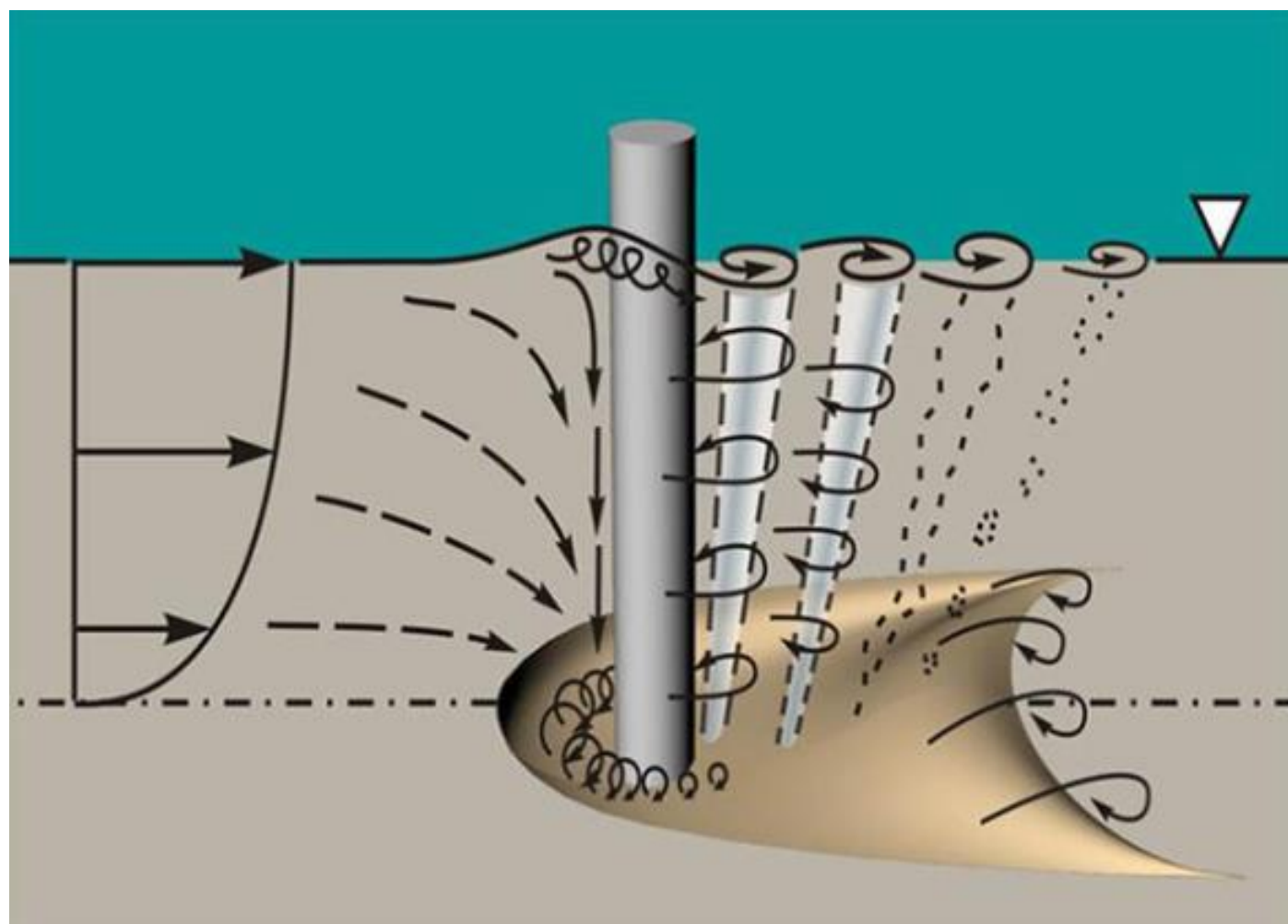
Before the Basiliere

Generally Deteriorated Conditions



Scour

- Scour is the removal of soil which supports bridge abutments and piers, caused by fast-flowing water.
- The fast-flowing water creates scour holes, which can lead to instability of the bridge's foundation.
- Drives the need for a full replacement of the Basiliere Bridge



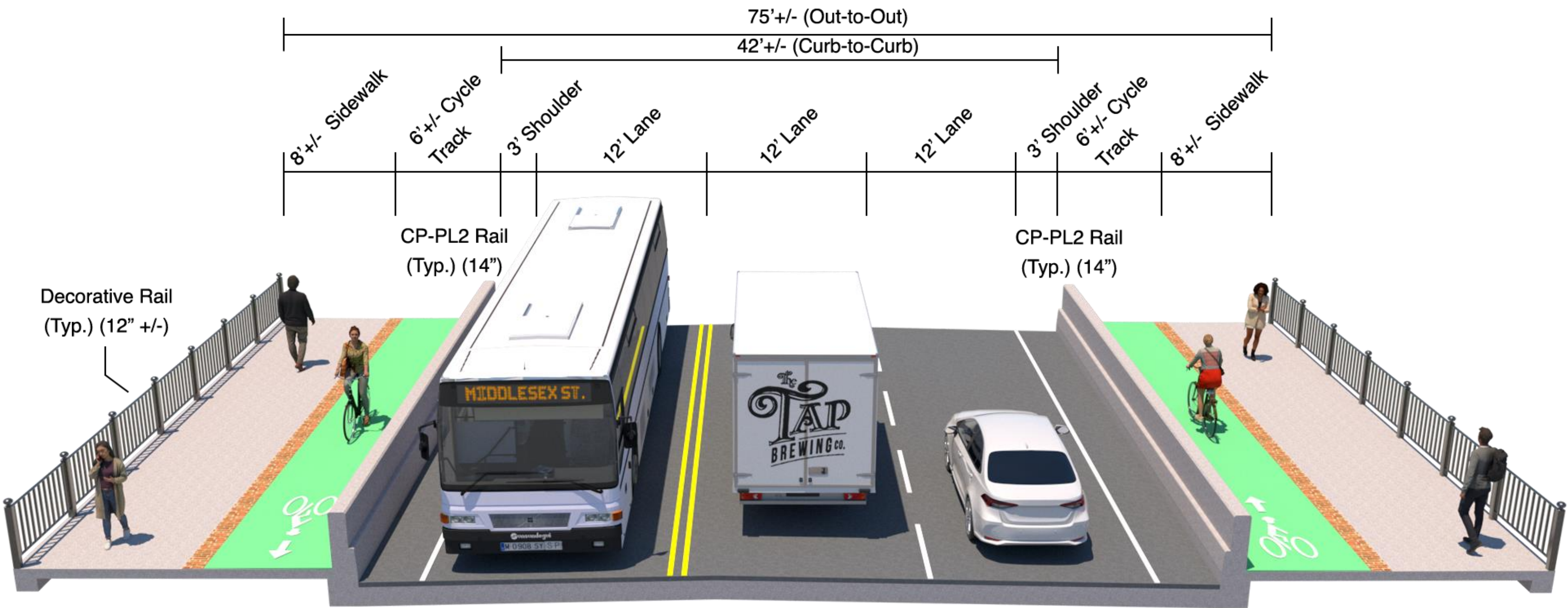


Project Status

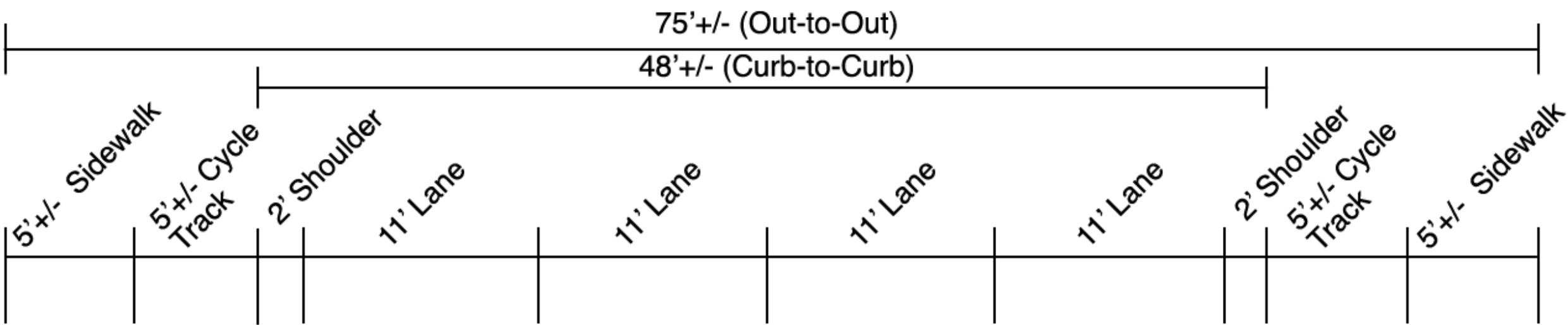
Status of Design Work

- Currently in concept design working to determine:
 - Bridge type
 - Cross-section – cycling facilities, lane arrangement, sidewalk dimensions
 - General bridge appearance
- Upcoming milestones:
 - Summer 2023:
 - MassDOT pre-25% design “over the shoulder” briefing
 - Bridge type study
 - Fall 2023 – Launch 25% design

Three Lane Cross-Section – Directional Cycling Facilities



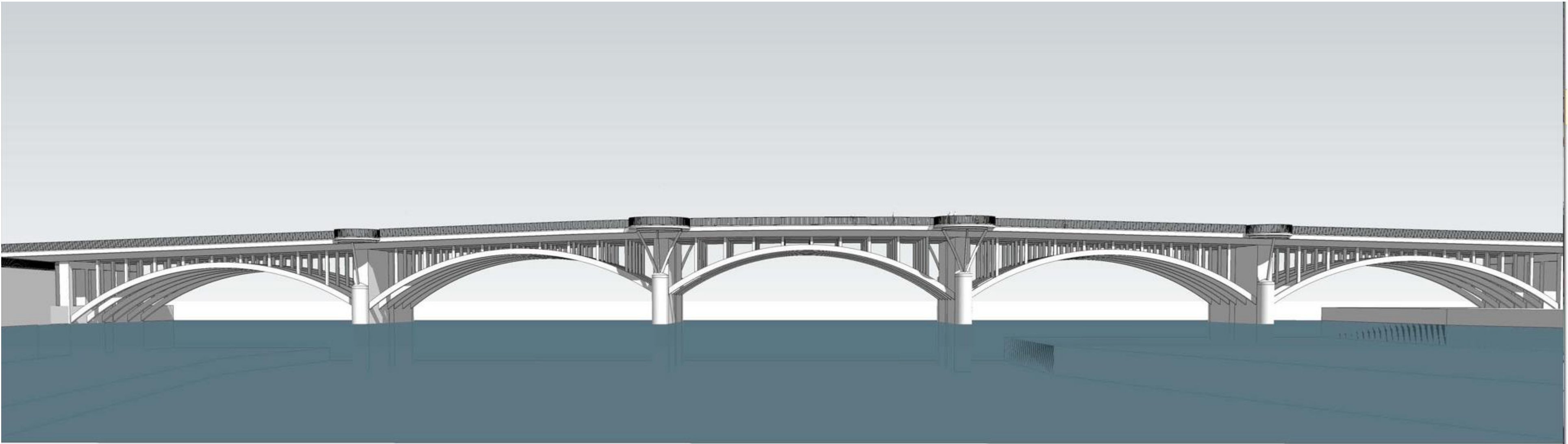
Four Lane Cross Section – Directional Cycling Facilities



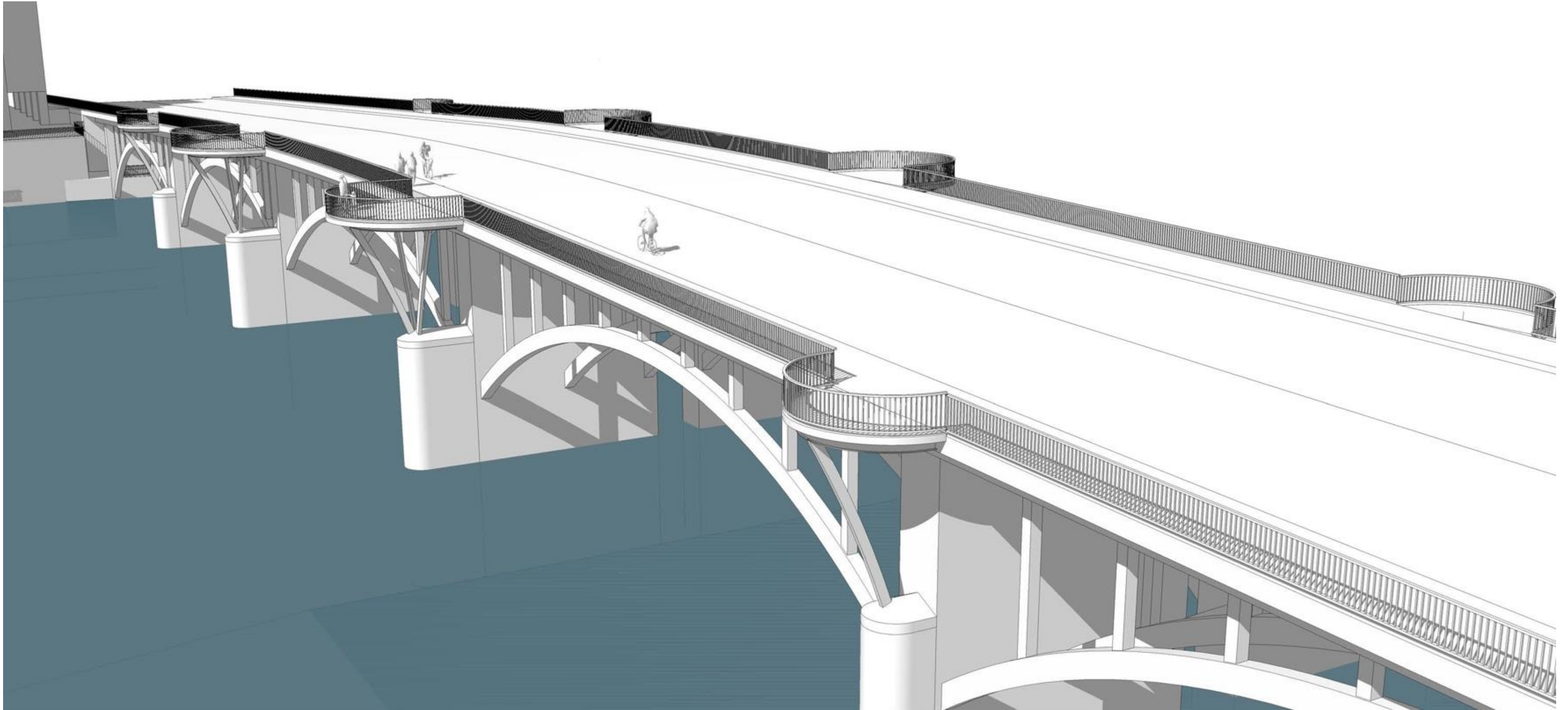
Roadway Cross-Section Design Update

- Cross-section study submitted to MassDOT and under review:
 - Clear recommendation for directional/symmetric cycling/walking facilities:
 - Familiar conditions for users of all modes
 - Four lane cross-section preferred in part on local preference:
 - Additional space for emergency response during congested conditions
 - Reserve capacity for anticipated future traffic volumes
- Three lane cross-sections remain under review by MassDOT
- Project team still seeking public input

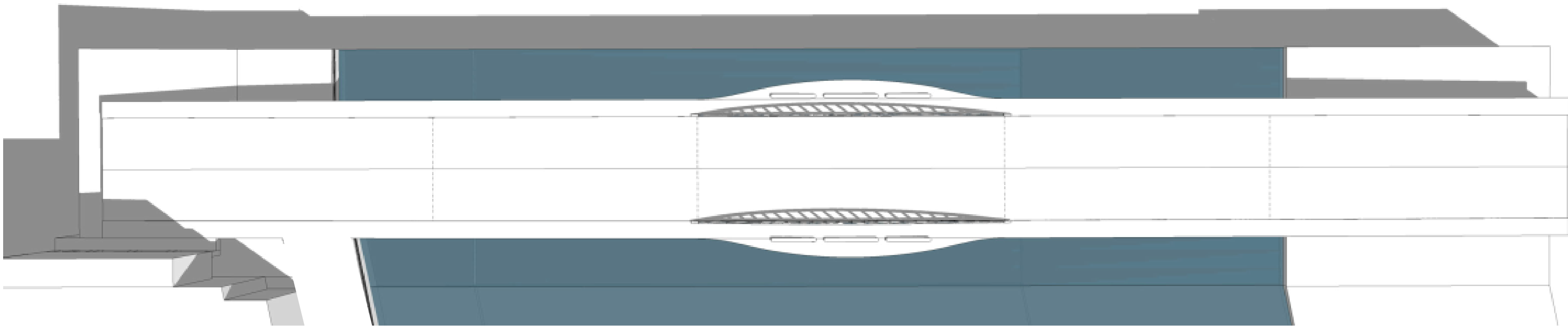
Evoking Today's Basiliere – From the River



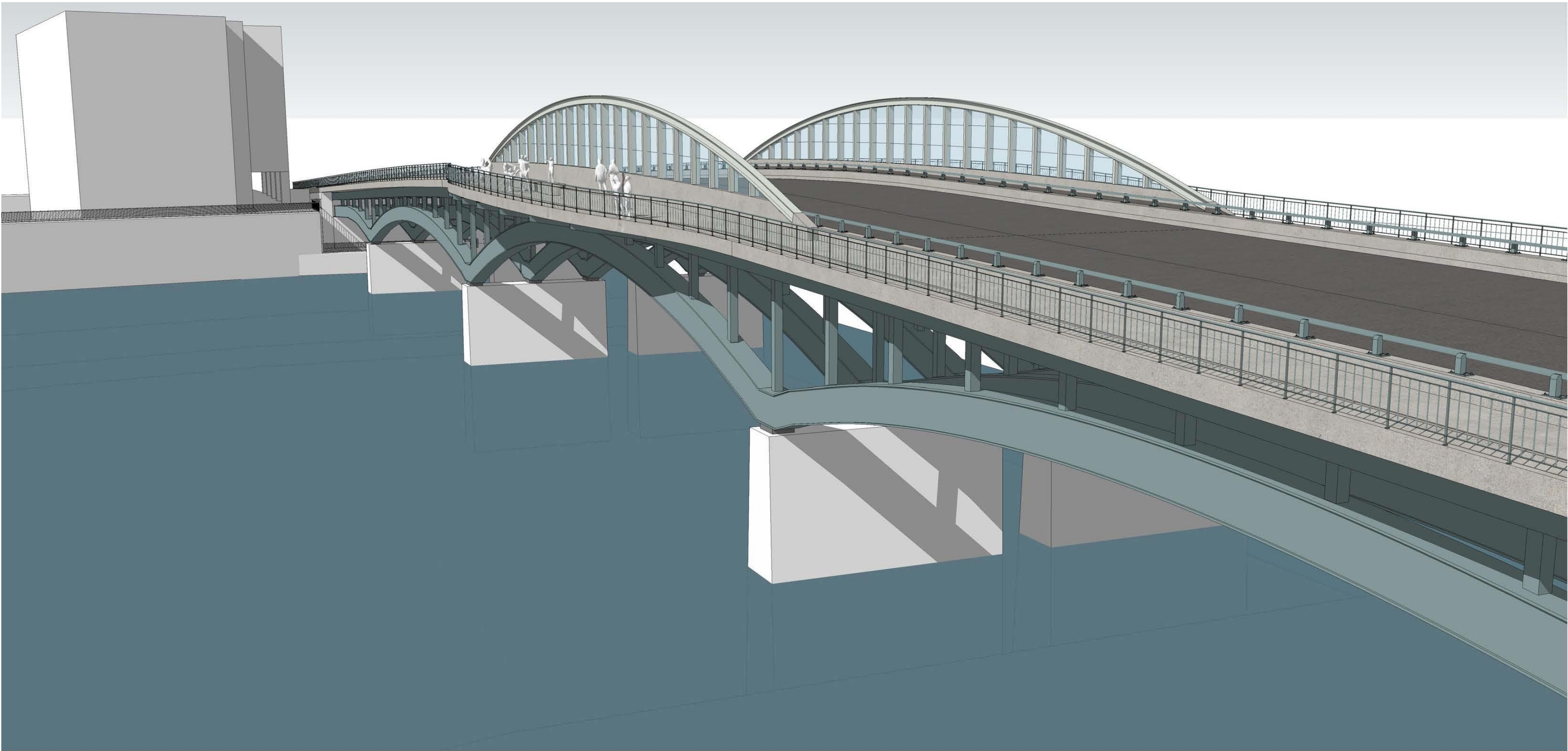
Evoking Today's Basiliere – From Above



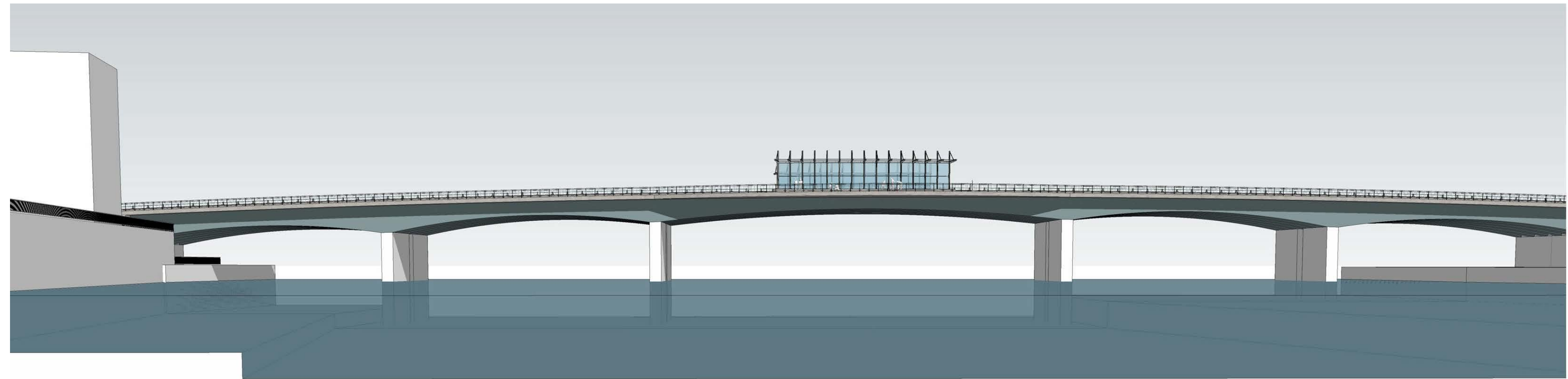
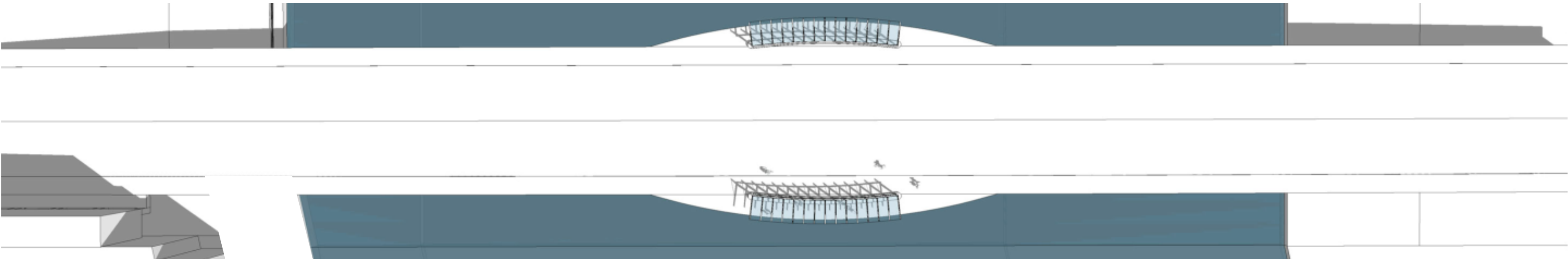
Steel Girders – Central Overlook



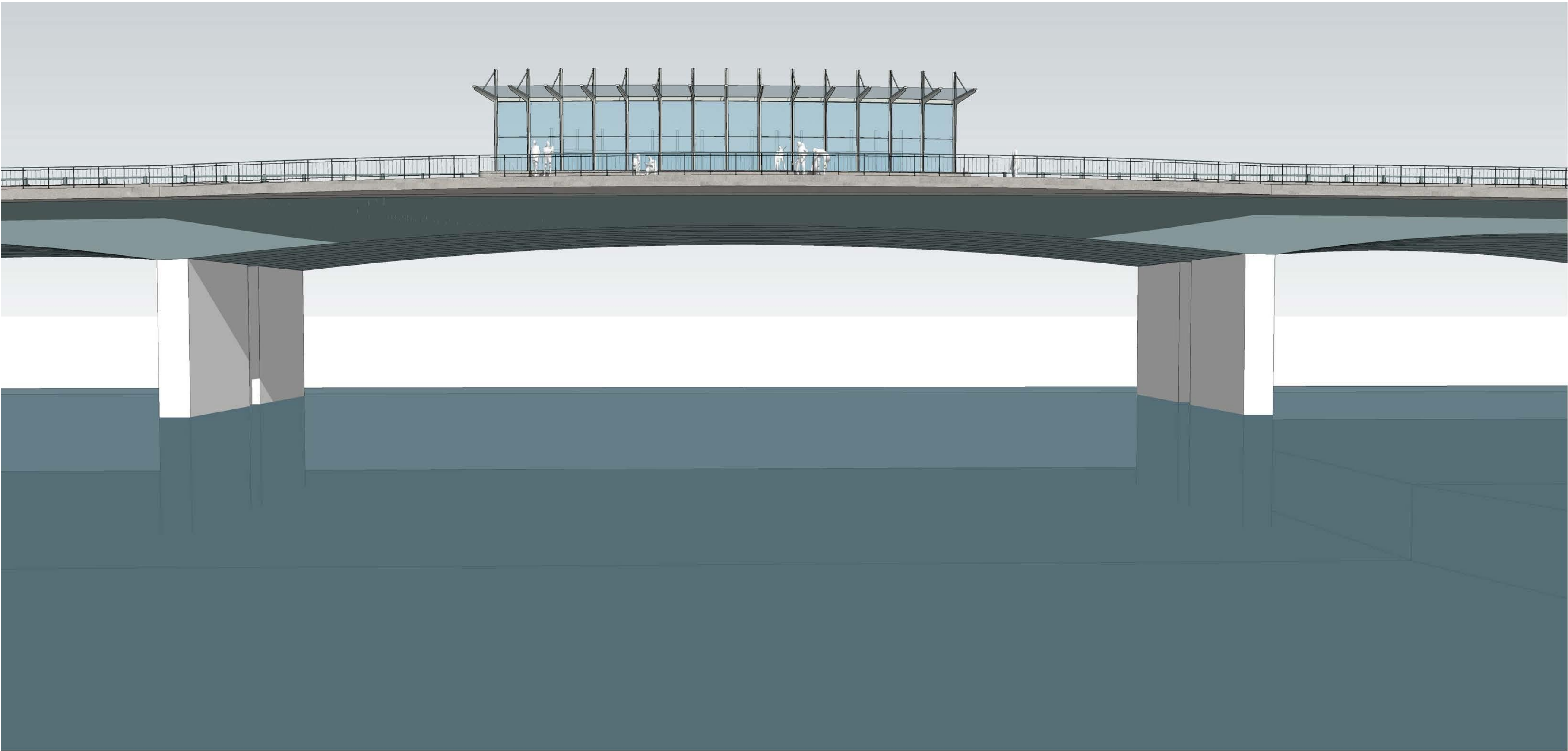
Steel Arch Girders – Side View



Haunched Girders – Central Overlook and Windbreak



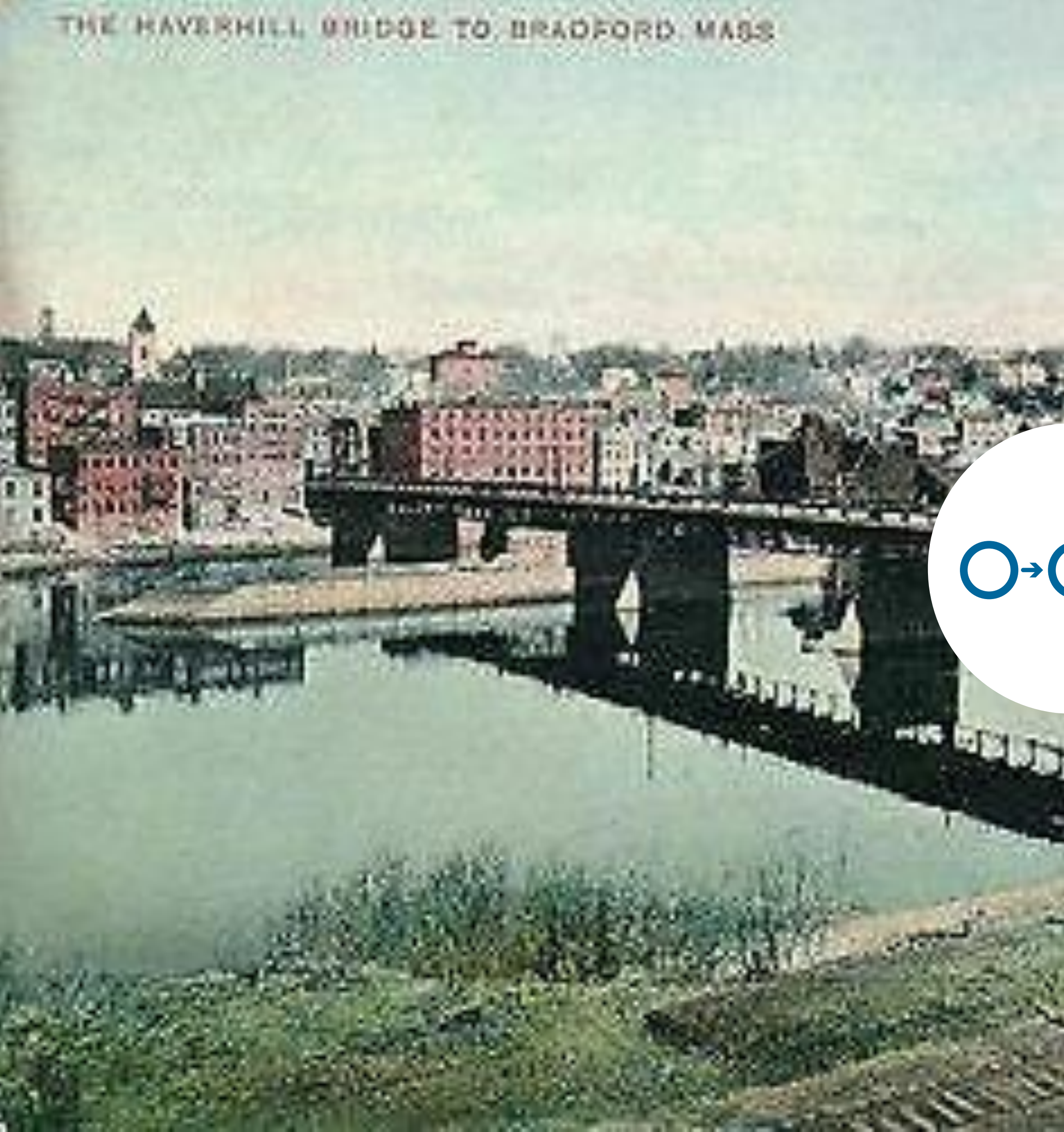
Haunched Girders – Side View



Promising Directions – A Blend of Old and New

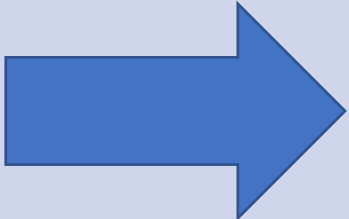
- Allows for a modern structure that evokes today's bridge with arches
- Provides a central overlook to enjoy the river
- Offers opportunities to:
 - Open water views from the riverbank
 - Improve bridge-to-Bradford Rail Trail connection
 - Include gateway features, lighting, vertical elements
- Does not preclude future Dempsey Boardwalk-to-Wall Street Path connection
- More to follow on bridge appearance soon
- Project team remains open to public input

THE HAVERHILL BRIDGE TO BRADFORD MASS



**Keeping
Haverhill
Open for
Business**

Assumed Business Concerns & Our Approach

Concern		Approach
Employees getting to and from work		<ul style="list-style-type: none">• Keep one lane in each direction at all times• Maintain one sidewalk at all times• Potential turn restrictions
Vendors getting to my business		<ul style="list-style-type: none">• Keep one lane in each direction at all times• Potential turn restrictions
Customers getting to my business		<ul style="list-style-type: none">• Keep one lane in each direction at all times• Maintain one sidewalk at all times• Potential turn restrictions
Overlap with Renaissance Development (parking deck redevelopment)		<ul style="list-style-type: none">• Renaissance phase one will be complete in 2025 prior to work really commencing• Continue coordination with City of Haverhill
Emergency response times		<ul style="list-style-type: none">• Keep one lane in each direction at all times• Potential turn restrictions• Continue coordination with emergency services
Overall project completion time		<ul style="list-style-type: none">• Schedule not fully developed yet• Trending towards 3+ years• D/B approach to speed construction



**What is the
construction
approach?**

Proposed construction approach: Design-Build

- Tonight's team will develop a 25% design and base technical concept (BTC) for bid by Design-Build (DB) entities
- DB Best Value procurement
 - Short-List Best Qualified Teams
 - Shorten project duration
 - Promote innovation by teaming the engineer and the general contractor
 - Allow for accelerated bridge construction (ABC) techniques if applicable
- 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 may be used to ensure compliance with contract timelines
- Public outreach will continue once construction begins



**Questions and
discussion**

Discussion Questions

- Have we captured your concerns correctly?
- Are there things we have missed regarding Haverhill's Latino community?
- Are there Latino-owned businesses in the area which could be part of a design/build entity?
- Are there special events we need to consider?
 - Annual Coalition Celebration or other festivals
 - City, State, or Federal Elections
- Do you have thoughts regarding the bridge's cross-section or appearance?

How to reach us?

- Submit written comments to:
Carrie Lavallee, P.E., Chief Engineer
MassDOT
10 Park Plaza
Boston, MA 02116
Attention: BRIDGE SECTION, PROJECT FILE NO. 605304
- Submit email comments to:
haverhillbasilierebridge@dot.state.ma.us
- Visit the project website at:
www.mass.gov/basiliere-bridge-project-haverhill