



Salem – Bridge Replacement, S-01-001, (ST 114) North Street over North River

Thank you for joining us.

This meeting will begin shortly.





Salem – Bridge Replacement, S-01-001, (ST 114) North Street over North River

Public Information Meeting

Monday July 20th, 2026, 6:00 pm

Project File No. 605332



Zoom meeting controls



- Listen in Spanish



- Ask a question and share comments



- Drop down menu to check microphone and speakers



- Raise your hand - *9 for users dialing in and Alt + Y to raise your hand



- If you are unable to access the internet or are having technical problems, please call into the meeting at 1-305-224-1968, Webinar ID: 896 5113 3059



- Use the View button in the upper right-hand corner to adjust the meeting view settings to your preference

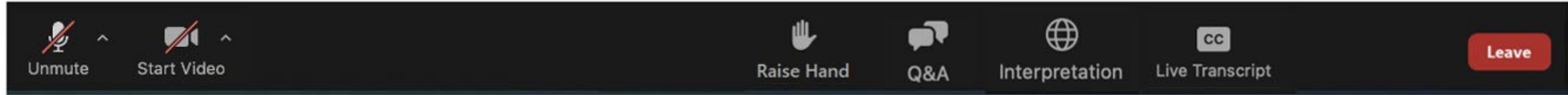


Live Transcript

- Closed captioning automatically generated by Zoom

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

1-888-799-9666



Public meeting notes and procedures

Notification of video recording

- This virtual public meeting will be recorded. The Massachusetts Department of Transportation may choose to retain and distribute the video, images, audio, and/or chat transcript.
- All parts of this meeting are considered public record.
- 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 and keep your microphone muted, or 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 formal presentation.
- Please take time to respond to our survey at the end of the meeting. Your feedback is important.

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

Notice of MassDOT's policy on diversity and civil rights

- All MassDOT activities, including public meetings, are free of discrimination.
- MassDOT complies with all federal and state civil rights requirements preventing discrimination based on sex, race, color, ancestry, national origin (limited English proficiency), religion, creed, gender, sexual orientation, gender identity or expression, or veteran's status.
- We welcome the diversity from across our entire service area. If you have any questions or concerns, please visit <https://www.mass.gov/nondiscrimination-in-transportation-program> to reach the Office of Diversity and Civil Rights.

Thank you for joining our meeting. We appreciate your participation!

Agenda

- 00 Presentation Participants
- 01 Project Timeline
- 02 Project Overview
- 03 Project Purpose & Need
- 04 Proposed Design
- 05 Preliminary Hydraulics
- 06 Next Steps
- 07 How to Reach Us
- 08 Question and Answer



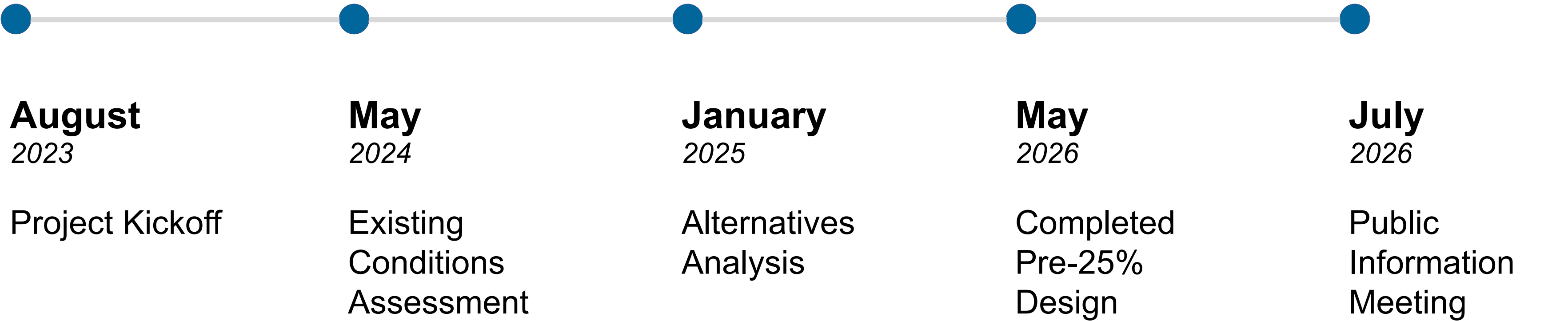
Presentation Participants

- **MassDOT Project Manager**
 - Bill Conroy
- **MassDOT Legislative Affairs**
 - Dan Fielding
- **MassDOT Producer/Facilitator**
 - Joe Yoo and Addy Olaoye
- **Design Consultant (HNTB)**
 - Gaby MacNeil, Project Manager
 - Steve Flormann, Hydraulics Engineering Lead

Language Translation Speakers

- **Spanish**
 - Marta Cerón
 - Maria Camila Vera Arias

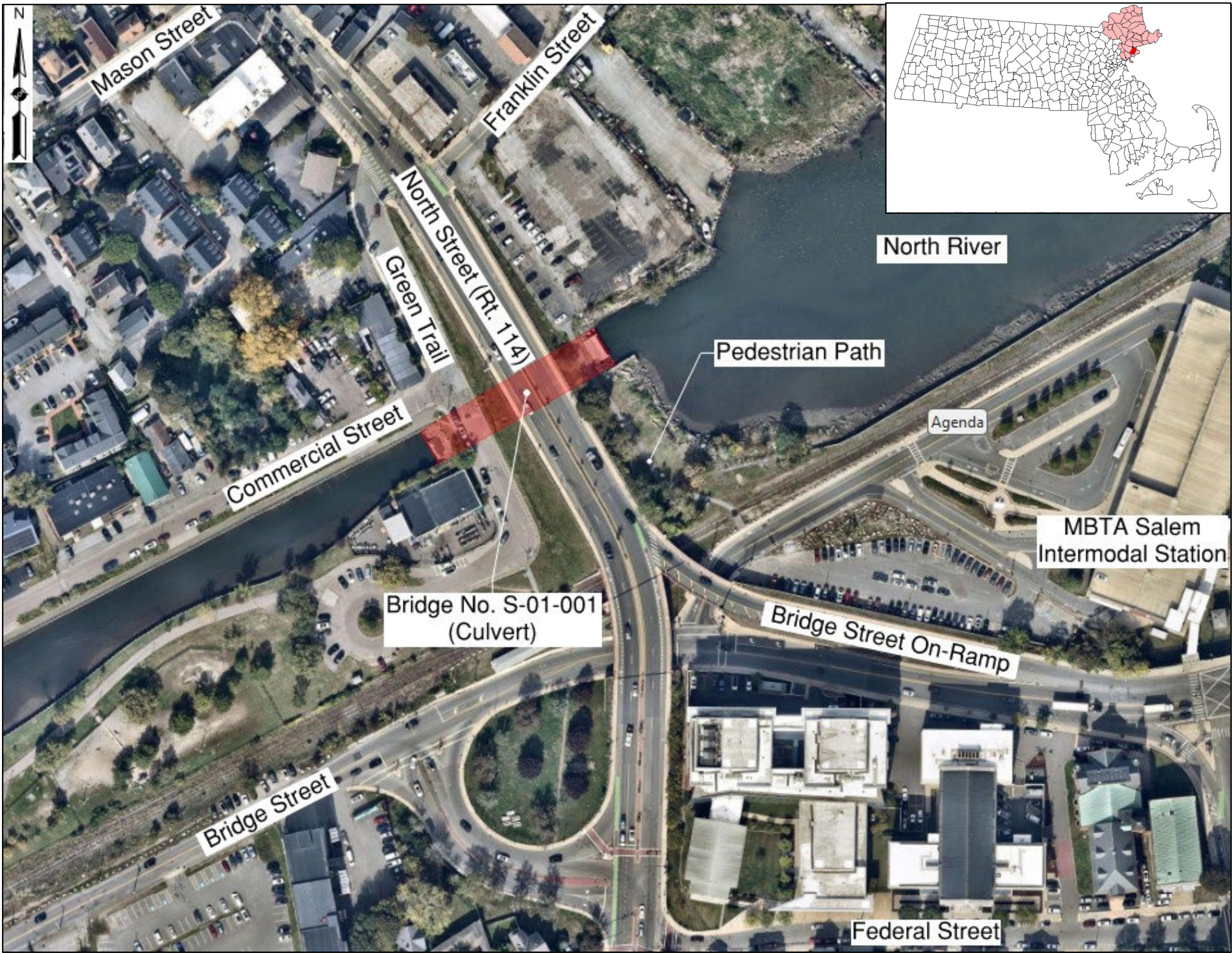
How did we get here?

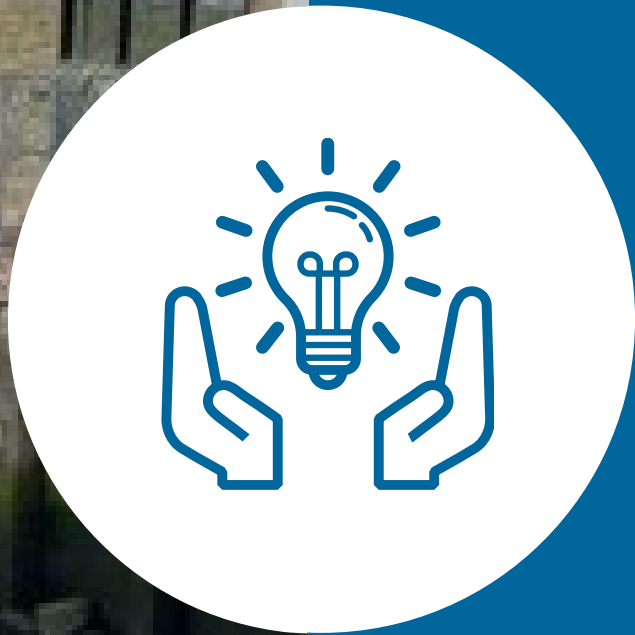




**Where is this
project
located?**

Project Overview - Location





**Why was this
project
initiated?**

Project Overview - Culvert Condition

- Culvert in **poor condition** according to the 2025 Culvert Inspection Report
- Roof exhibits moderate to heavy **scaling and leakage**
- Walls exhibit moderate to heavy **abrasions**
- Headwalls exhibit heavy **spalling, broken reinforcing, and map cracking**
- **Sink holes** located on western embankment





**What do we
want to
accomplish?**

Project Purpose and Need

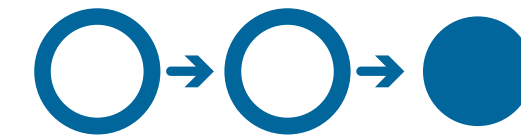
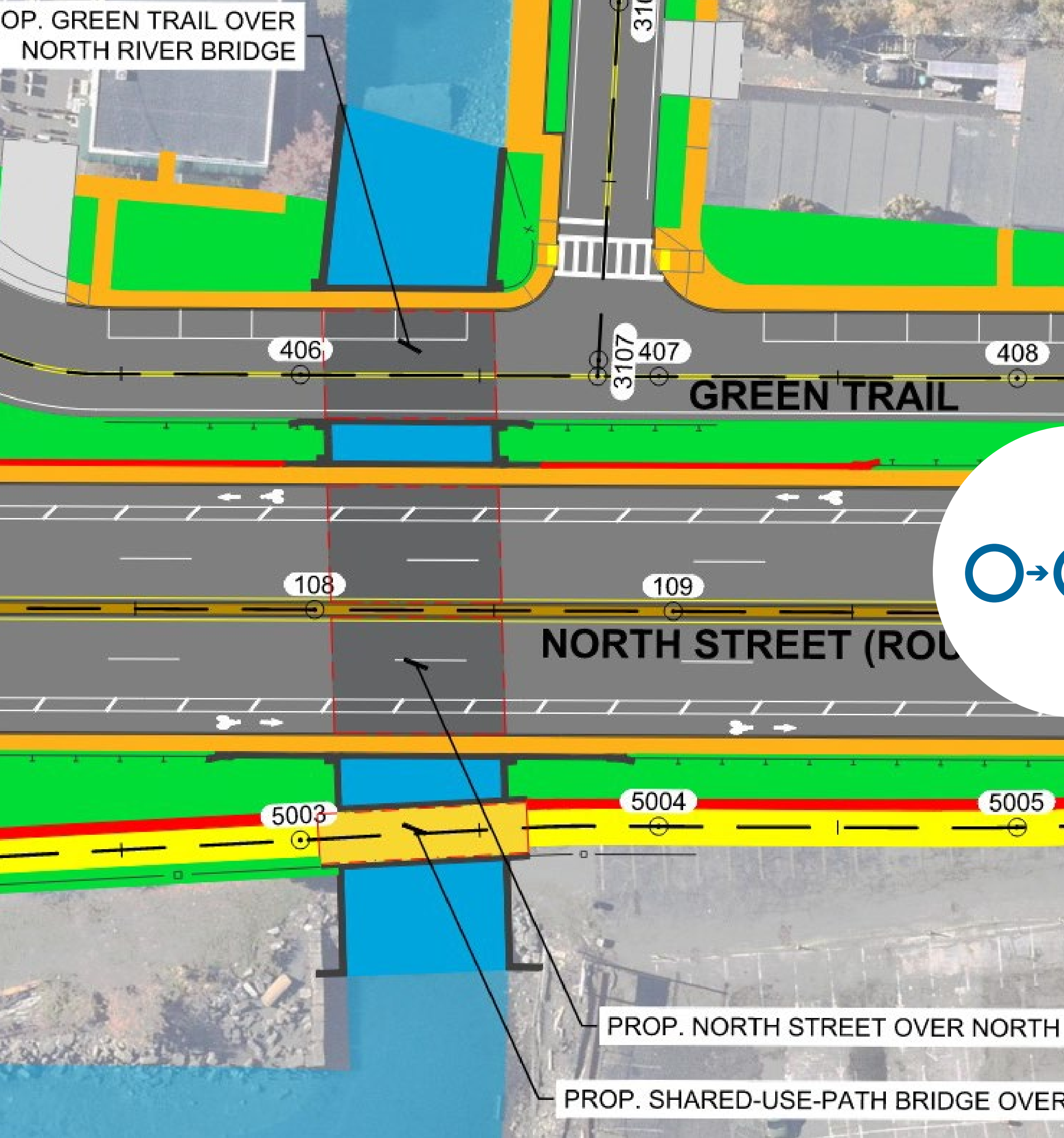
Project Purpose:

- “Improve structural integrity and hydraulic capacity of the culvert, while maintaining the multimodal connections...”

Project Need:

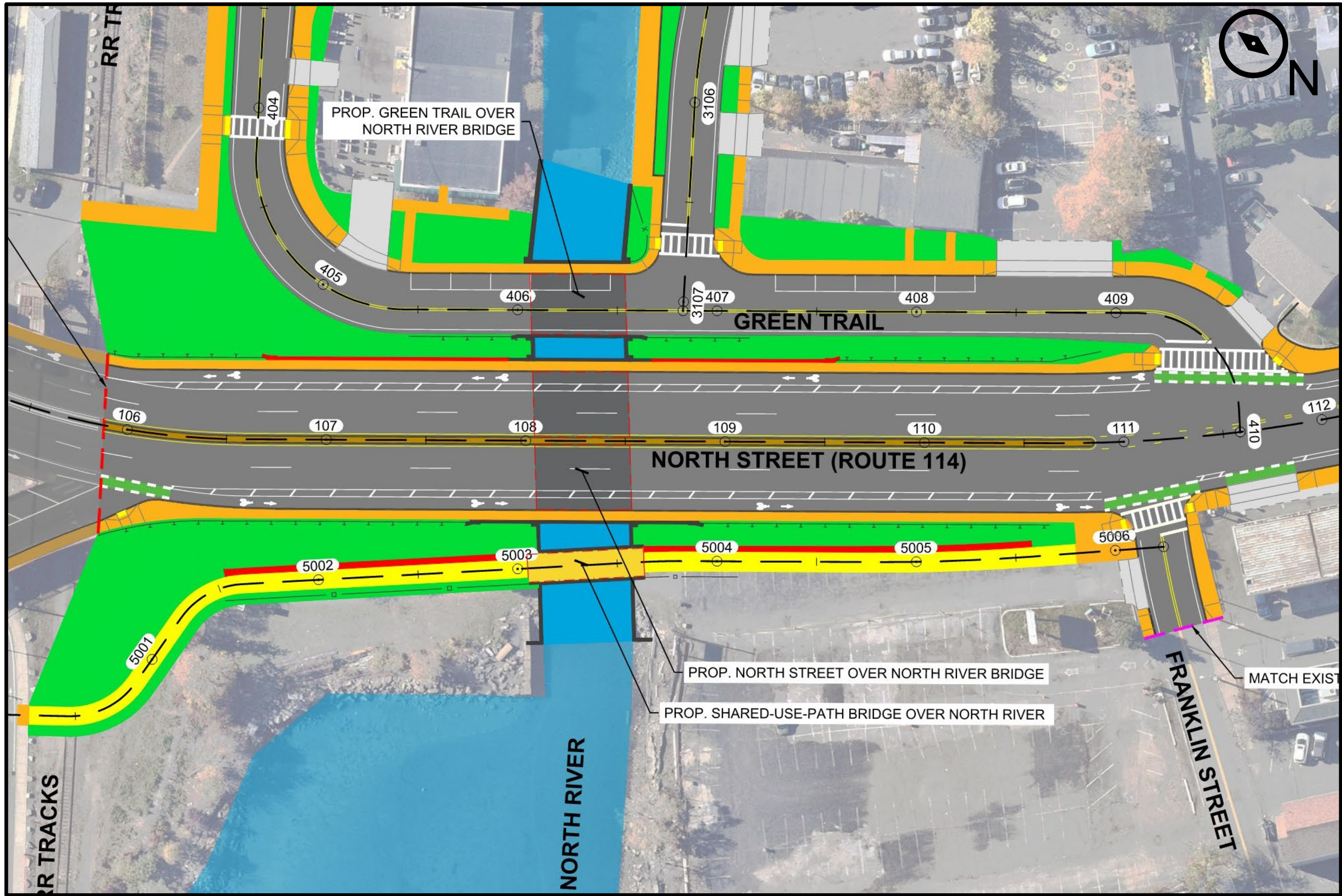
- **Culvert is structurally deficient and needs to be replaced.**
- History of flooding will increase with climate change
- Future and current flooding will continue to deteriorate the culvert
- Pedestrian and bicycle accommodations at the culvert do not comply with MassDOT standards.

OP. GREEN TRAIL OVER
NORTH RIVER BRIDGE

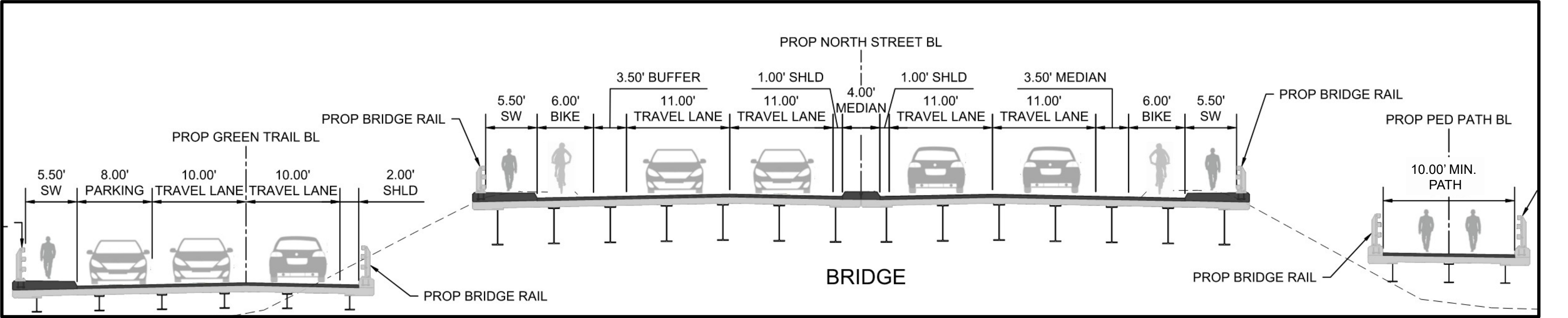
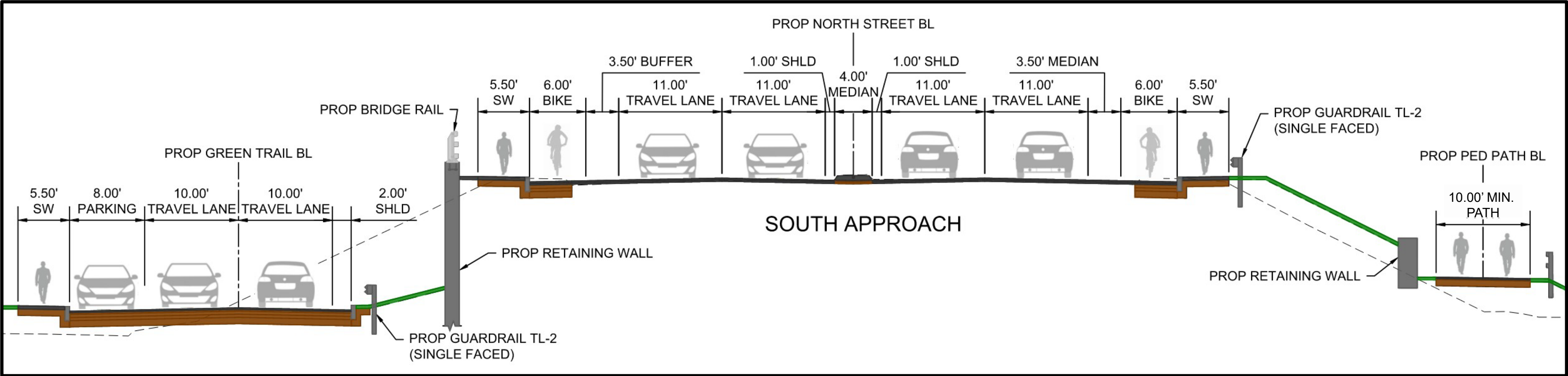


What is the
proposed
design?

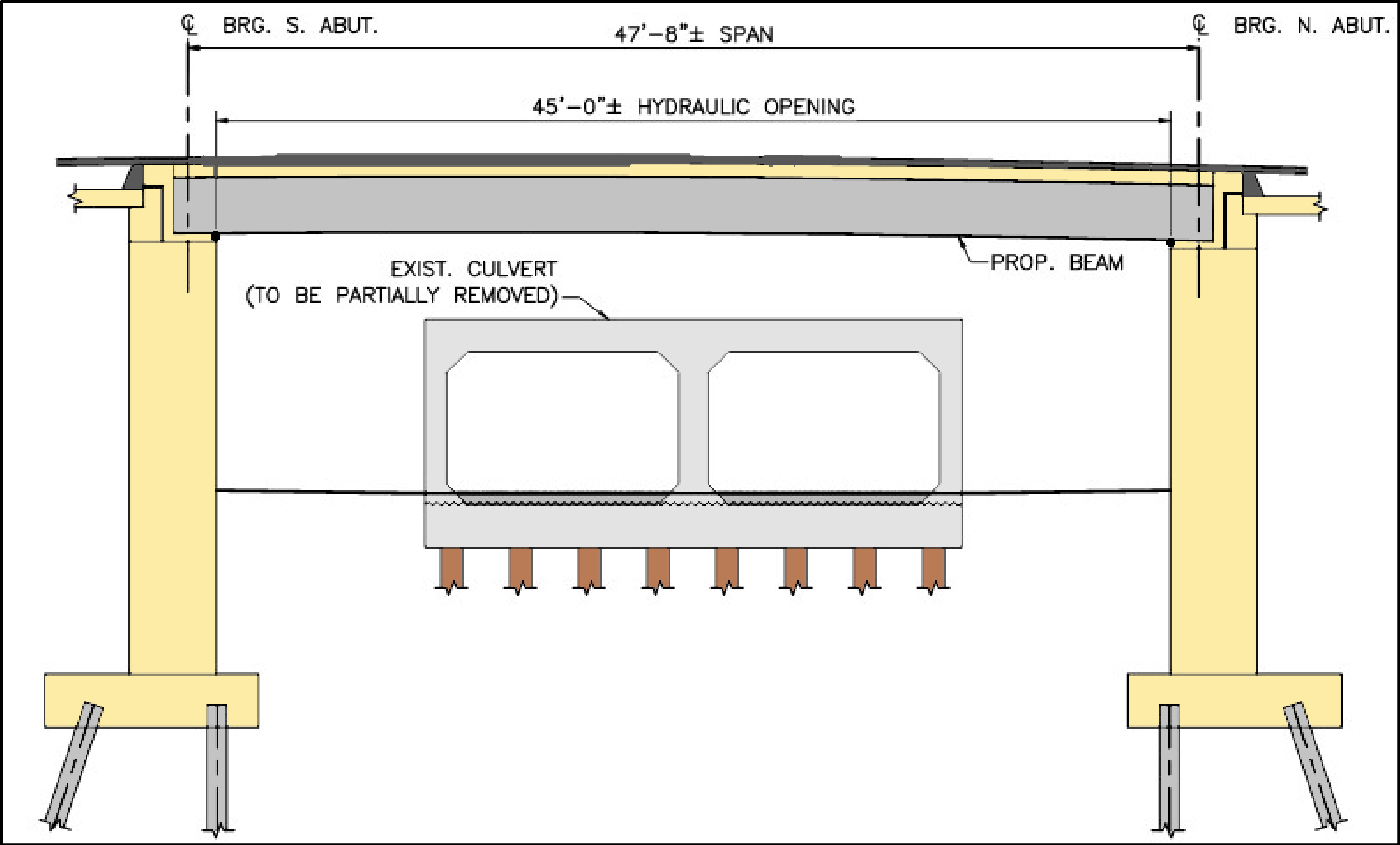
Proposed Design



Proposed Design



Preliminary Design



Preliminary Hydraulics

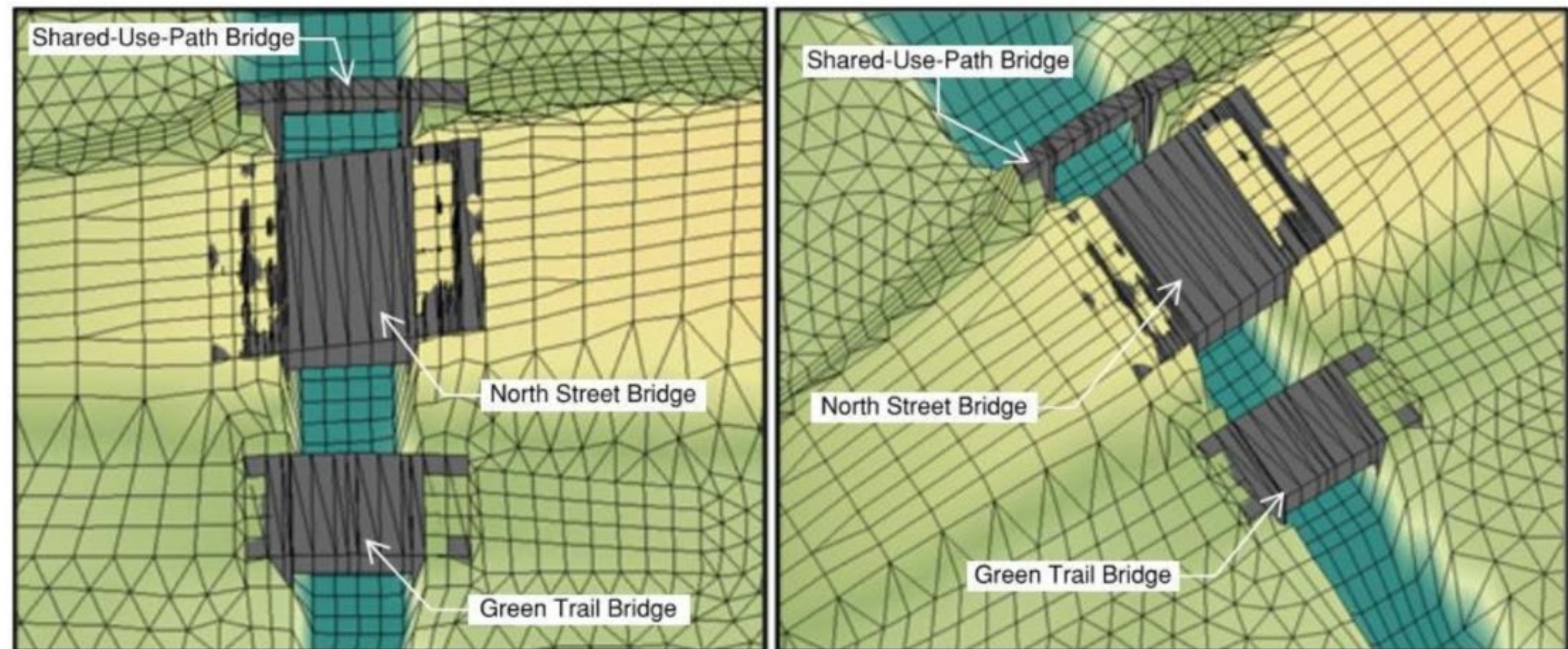
- **Existing Conditions**

Assessment – Hydraulics

- Determine Existing Flooding Limits
- What paths do the flood waters take?
- How much do the existing culverts impact the river?

- **Conceptual Hydraulics Report March 2026**

- Looked at multiple options to reduce flooding
- Balanced the structure vs waterway opening benefits



Preliminary Hydraulics

Table 3-9: Comparison of 2% AEP Water Surface Elevations (WSE, ft NAVD88)

Station	Existing WSE	Proposed WSE	Change in WSE (Proposed – Existing)	Existing WSE with SLR	Proposed WSE With SLR	Change in WSE SLR (Proposed – Existing)
239	10.69	7.91	-2.78	13.63	12.71	-0.92
505	10.69	7.94	-2.75	13.62	12.71	-0.91
607	10.67	7.82	-2.85	13.60	12.69	-0.91
1012	10.67	7.86	-2.81	13.61	12.69	-0.92
1315	10.67	7.86	-2.81	13.61	12.69	-0.92
1558	10.67	7.84	-2.83	13.61	12.69	-0.92
1886*	10.58	7.76	-2.82	13.60	12.63	-0.97
2098**	7.70	7.75	0.05	12.48	12.47	-0.01
2520	7.69	7.66	-0.03	12.47	12.47	0
2947	7.63	7.71	0.08	12.48	12.46	-0.02
3219	7.58	7.68	0.1	12.46	12.48	0.02

*Cross-section immediately upstream of the existing culvert
**Cross-section immediately downstream of the existing culvert

Preliminary Hydraulics – Existing (Current Scenario)



Preliminary Hydraulics – Proposed (Current Scenario)



Preliminary Hydraulics – Existing (Sea Level Rise Scenario)



Preliminary Hydraulics – Proposed (Sea Level Rise Scenario)



PROJECT AREA

0 30 60 90 120
Meters

MASSACHUSETTS DEPARTMENT OF TRANSPORTATION
WATER DEPTH MAP
2% AEP- PROPOSED CONDITIONS - SEA LEVEL RISE SCENARIO
HNTB CORPORATION



Our next steps



**Address Public
Comments**



25% Design
Spring 2027



**Design Public
Hearing**
Summer 2027



Final Design
2028



**Advertise
Construction Contract**
2029



**How will we
keep you
informed?**

How to reach us

- Submit email comments to:
MassDOTMajorProjects@dot.state.ma.us
- For project information visit the MassDOT Upcoming Events for Highway Division web site at <http://www.mass.gov/orgs/highway-division/events> or used the QR Code:
- Submit written comments to:
Carrie Lavallee, P.E., Chief Engineer
MassDOT
10 Park Plaza
Boston, MA 02116
Attention: MAJOR PROJECTS, PROJECT FILE NO. 605332





**Questions and
answers**

Questions and answers



- “Raise your hand” to be unmuted for verbal questions (Alt + Y if using a phone)



- 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

*Salem – Bridge Replacement, S-01-001,
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Project File No. 605332

Bill Conroy, MassDOT Highway Division



History of Site

- **Historic North Street Bridge**

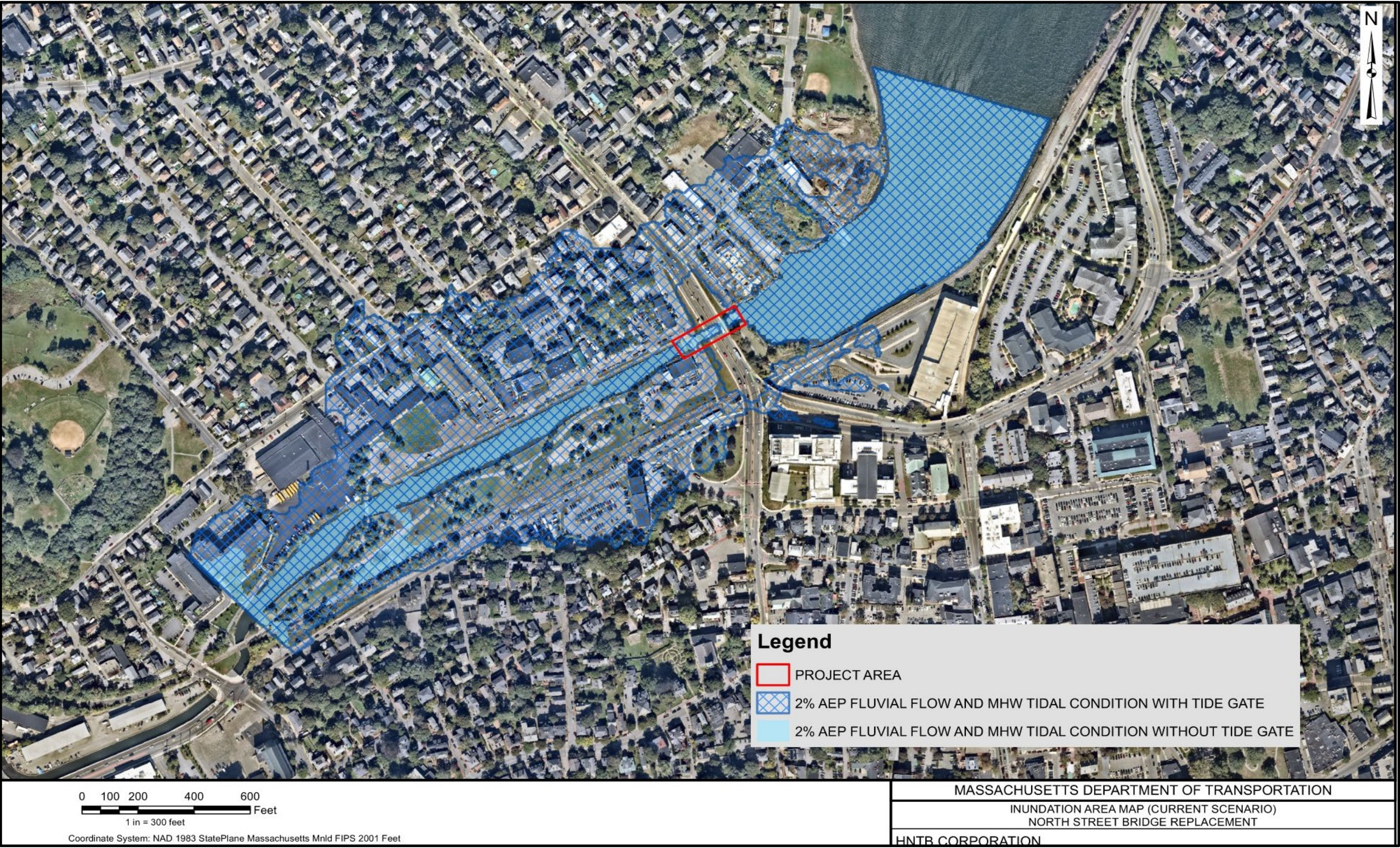
- Existing Culvert Built in 1700s
- Location of Leslie's Retreat
- Later Replaced by today's culvert in 1950s as part of the North Street Overpass project

- **Tide Gates**

- Tide Gates installed on culvert in 1978 as part of the North River Flood Control Project
 - Designed to close automatically during high tides
- Tide Gates were later removed in 1990s
 - Negatively impacting the environment and lead to maintenance issues



Preliminary Hydraulics – Tide Gate Evaluation



Preliminary Hydraulics – Tide Gate Evaluation



Anticipated Construction Approach

- **Maintain** travel over both North Street and Green Trail utilizing staged construction.
- Construction activities will be **limited during heavy tourism** months in coordination with the City.
- **Minimize** noise and disturbance where possible;
- **Maintain** access to local businesses and MBTA Station
- **Minimize** impacts to utilities during construction
- **Maintain** pedestrian access over the river throughout construction

