

Maplewood Avenue over North Mill Pond Bridge



Preconstruction Informational Meeting

City of Portsmouth, NH

May 7, 2024



Presentation Outline

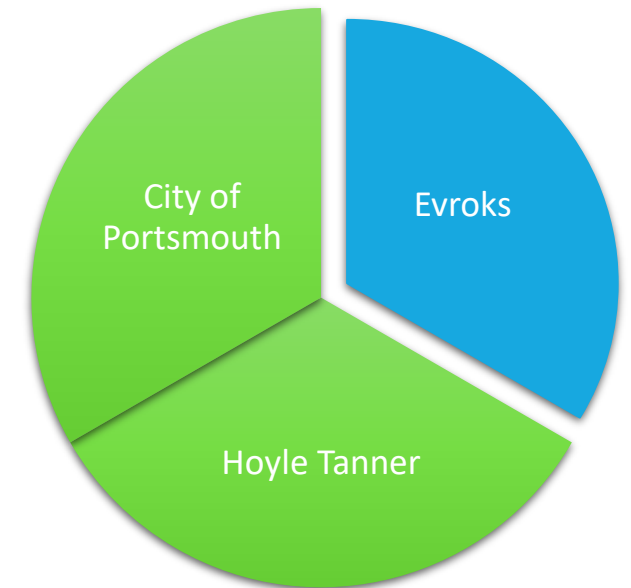


- Project Team
- Status/Condition of the Bridge
- Proposed Work
- Questions

Project Team

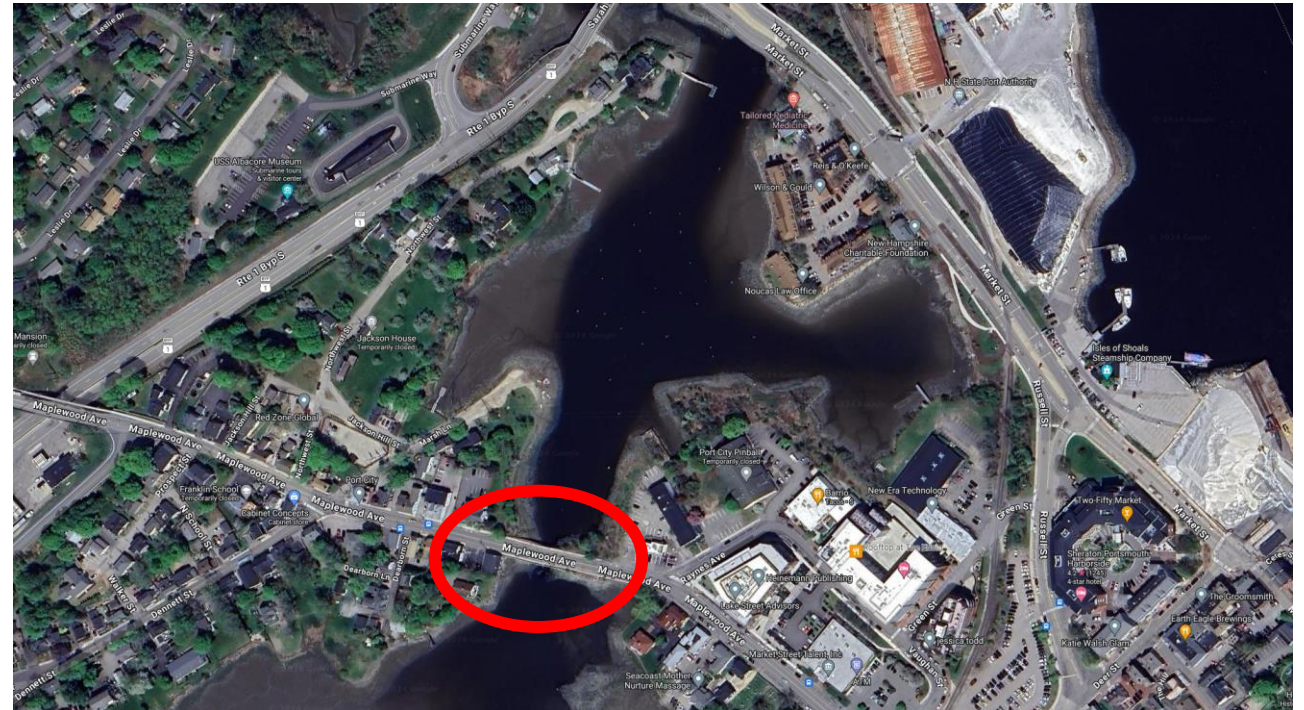


- Owner - City of Portsmouth Department of Public Works
 - Dave Desfosses - Project Manager
- Engineer - Hoyle Tanner & Associates, Inc.
 - Aaron Lachance, PE - Project Manager
 - Kathryn Dziadowicz - Resident Project Representative
- Contractor - Evroks Corporation
 - Mike Ferrari - President



Maplewood Ave over North Mill Pond

- Purpose and Need
 - Originally Constructed in 1896, repaired in 1976 (metal plate arch added)
 - Bridge Condition
 - Culvert = 3, Serious
- Funding
 - Construction cost = \$4.0M
 - City is funding repairs to keep the bridge open because State Bridge Funding availability is years out.



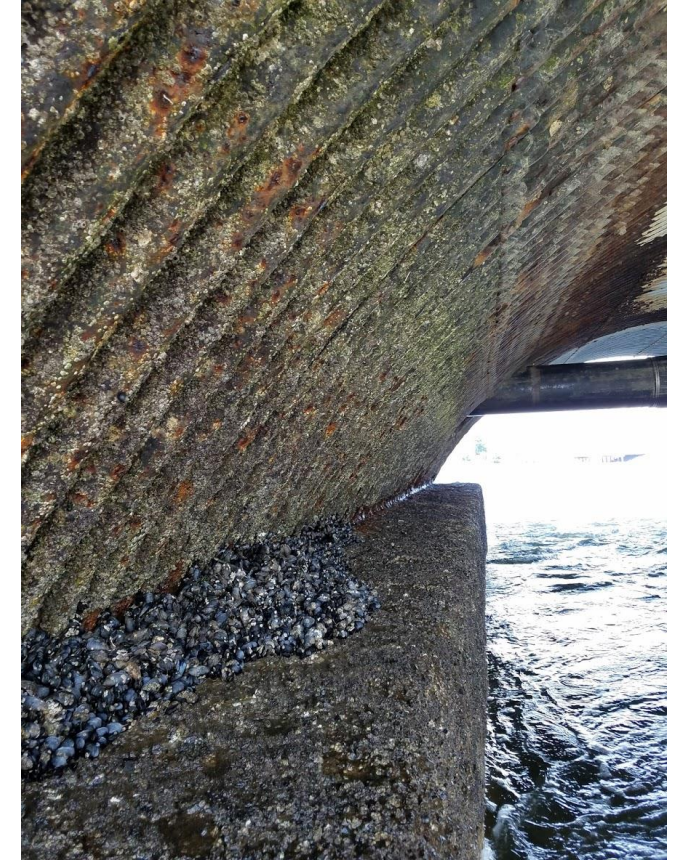
Maplewood Ave over North Mill Pond

- Proposed Work
 - Remove and replace existing substandard rail
 - Remove and replace slanted rail support slab
 - Restabilize portions of the retaining walls
 - Apply geopolymer liner for structural capacity



Maplewood Ave over North Mill Pond

- Proposed Work
 - Geopolymer liner
 - Reestablishes structural capacity



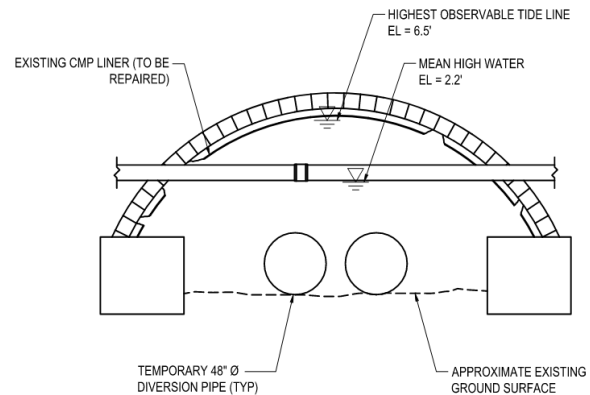
Maplewood Ave over North Mill Pond

- Proposed Work
 - Geopolymer liner
 - Reestablishes structural capacity



Maplewood Ave over North Mill Pond

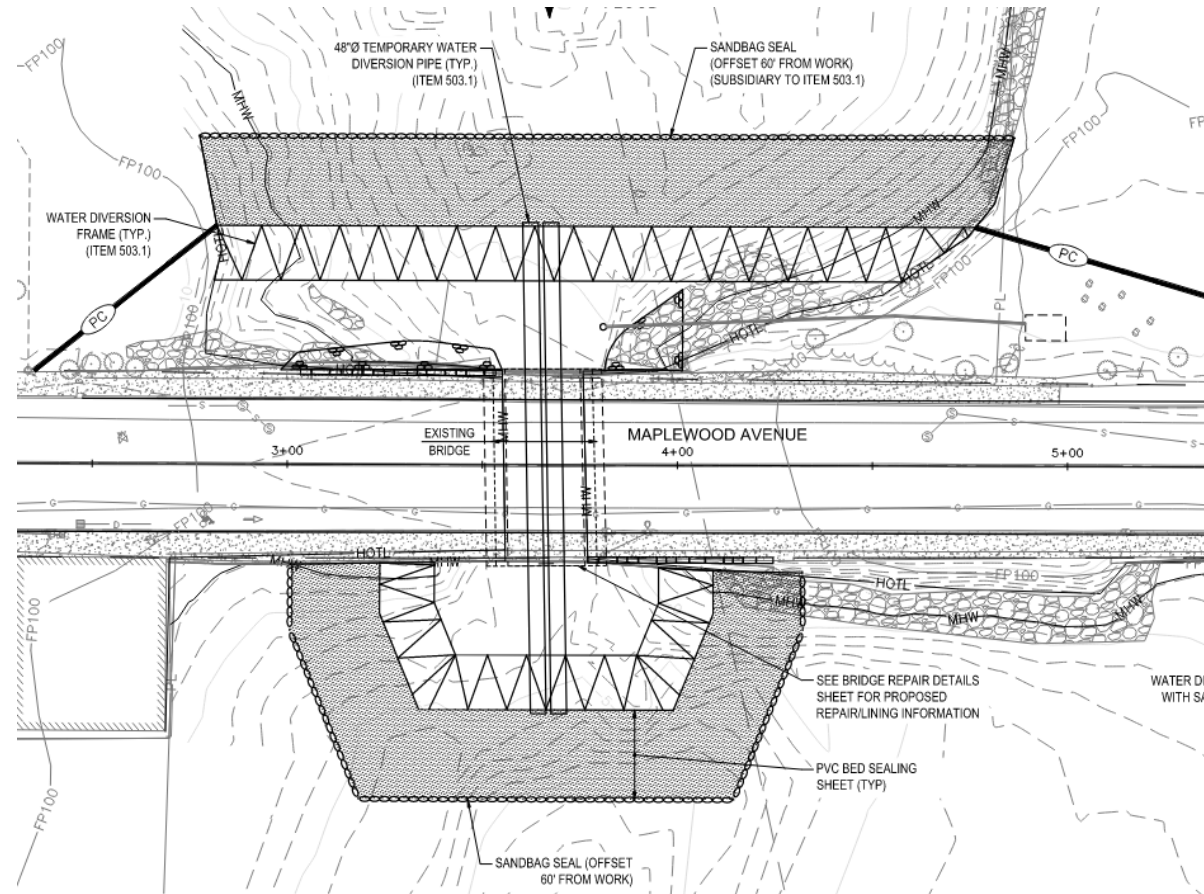
- Temporary Water Diversion
 - Cofferdams with diversion pipes allow work in the dry while maintaining flow through the bridge



NOTE

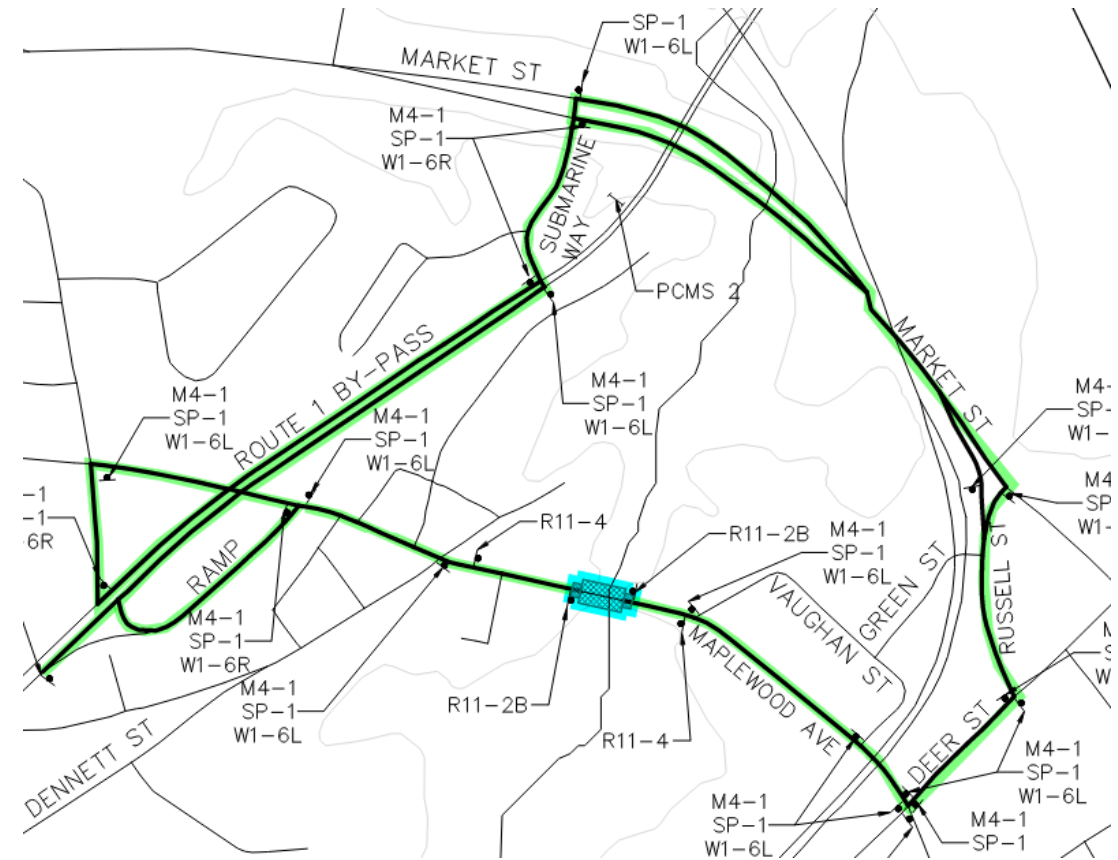
1. MAXIMUM VELOCITY THROUGH DIVERSION PIPES ESTIMATED AT 11.3 FPS.

WATER DIVERSION SECTION



Maplewood Ave over North Mill Pond

- Traffic Control
 - Maximum full closure duration of 80 days
 - Detour via Route 1 Bypass, Market St., Russell St., and Deer St.
 - Two-way traffic maintained outside of closure window
 - Pedestrian traffic maintained at all times



Detour Route

Tentative Construction Schedule



- **May / June:** Obtain final environmental permits
- **June:** Begin construction, close bridge to vehicular traffic
- **September:** Re-open bridge to traffic (80 days after closure)
- **November:** Substantial completion
- **June 2025:** Final paving and project closeout

Project Contacts



- Dave Desfosses – City of Portsmouth, Project Manager
 - djdesfosses@cityofportsmouth.com
 - (603) 766-1411
- Aaron Lachance, PE – Hoyle Tanner, Project Manager
 - alachance@hoyletanner.com
 - (603) 413-0815
- Kathryn Dziadowicz – Hoyle Tanner, Resident Project Representative
 - kdziadowicz@hoyletanner.com
 - (603) 413-0581
- Mike Ferrari – Evroks Corp., President
 - mferrari@metrocast.net
- Project Information
 - Posted on City's website: <https://www.cityofportsmouth.com/publicworks/maplewood-ave-bridge>

Questions / Comments?



