



Hall-Whitaker & Kernwood Avenue Bridge Replacements

Public Information Meeting

Beverly High School | October 11, 2022 | 6:30pm

Project File No. 608514

10/4/22 R1_Draft

Agenda

- 01 Timeline
- 02 Hall-Whitaker Existing Condition
- 03 Kernwood Ave Existing Condition
- 04 Project Development Status
- 05 Project Impacts
- 06 Preferred Concept
- 08 Next Steps
- 09 Questions/Discussion

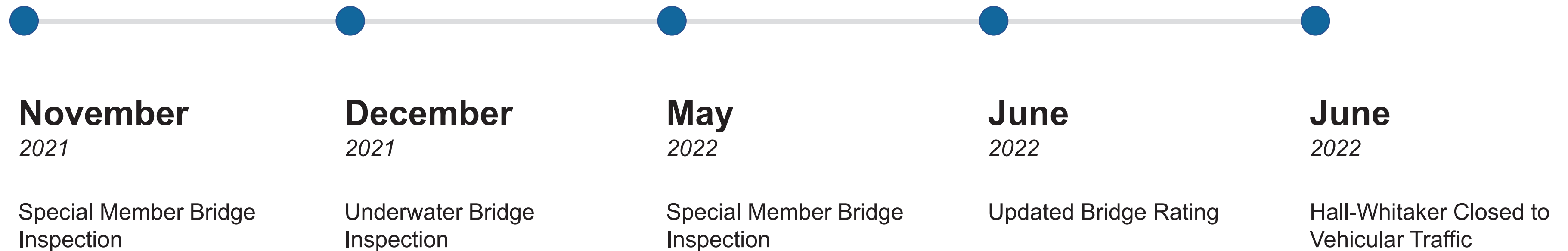


Program Objective

1. Provide a reliable travel route between the Ryal Side neighborhood and downtown Beverly (currently only open for bicycles and pedestrians w/traffic detour over Kernwood).
2. As quickly as practicable, safely restore vehicular traffic to Bridge Street.
3. Full bridge replacement of the Hall-Whitaker and Kernwood Avenue Bridges.

Timeline

Hall-Whitaker Recent Inspections



Bridge remains open to pedestrians, bicyclists, navigation.

INSPECTIONS – Engineers physically inspect all members of the bridge on a regular basis, noting deterioration and if the deterioration has increased since the previous inspection. Once elements are considered to be in “poor” condition, those elements get inspected on a more frequent basis, referred to as Special Member Inspection

RATING – The process where engineers use the results of the inspection and analyze the various bridge members for their structural capacity based on their current level of deterioration. The result determines the load the bridge can safely carry based on its condition



Hall-Whitaker Existing Condition

Initial Recommendation:

Bridge closure to vehicular traffic.

From the State Bridge Engineer:

The bridge is beyond its useful life and the extent of deterioration and necessary repairs eliminates this bridge as a candidate for repair or reconstruction and warrants a full replacement.

MassDOT Recommended Action:

Prioritize restoring vehicular traffic – demolish the existing bridge and construct a temporary fixed bridge on the same alignment.

Kernwood Existing Condition

Currently programmed for replacement in 2027.

The bridge is posted for 10-ton vehicles limiting truck, emergency response, school bus, and other access across the bridge.

MassDOT is currently preparing plans for significant repairs to be made to this bridge so it can remain in service until a temporary bridge can be installed at the Hall-Whitaker location.

A new temporary Hall-Whitaker bridge would provide a reliable traffic detour route during the full bridge replacement of this structure



Summary and Recommended Approach

Both bridges are in poor condition.

Hall-Whitaker condition required bridge closure to vehicular traffic.

A major repair contract will be performed on the Kernwood Ave bridge starting in 2023 to extend its service life while project development proceeds for a permanent replacement bridge.

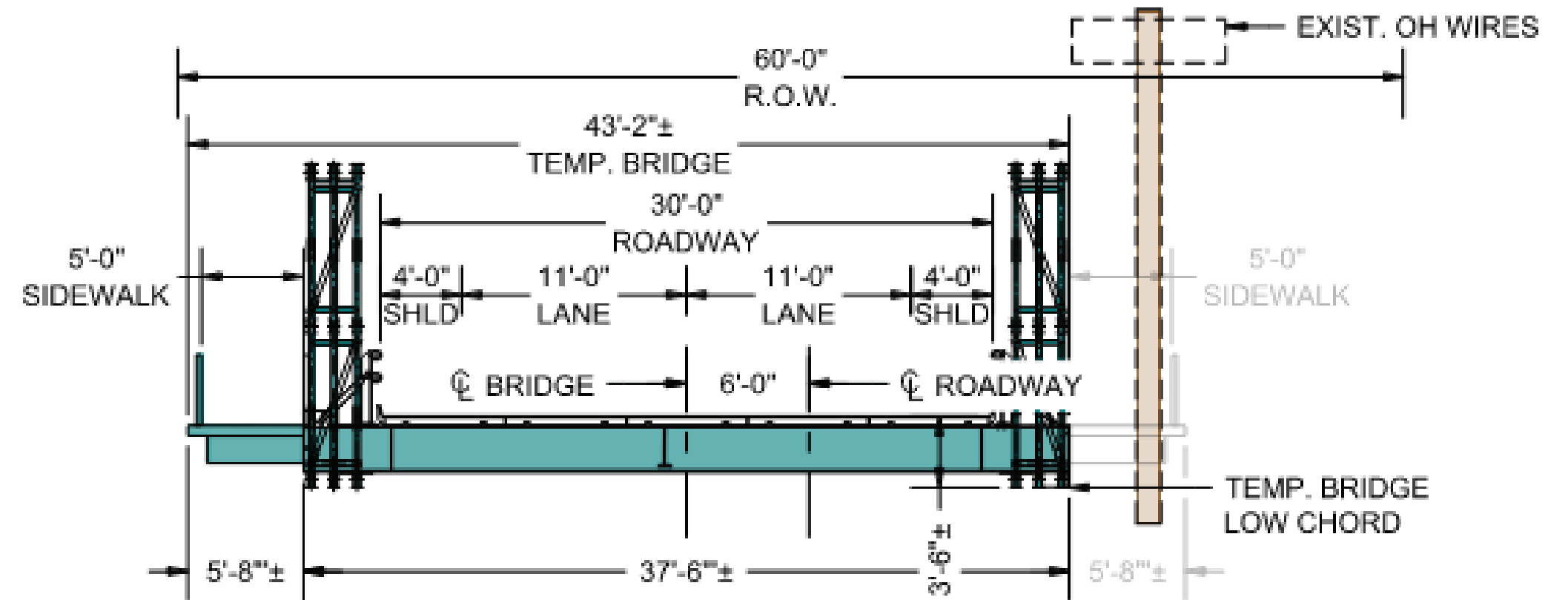
A temporary, fixed bridge will be installed on the existing alignment of the Hall-Whitaker. It is expected to be open to traffic in 2026.



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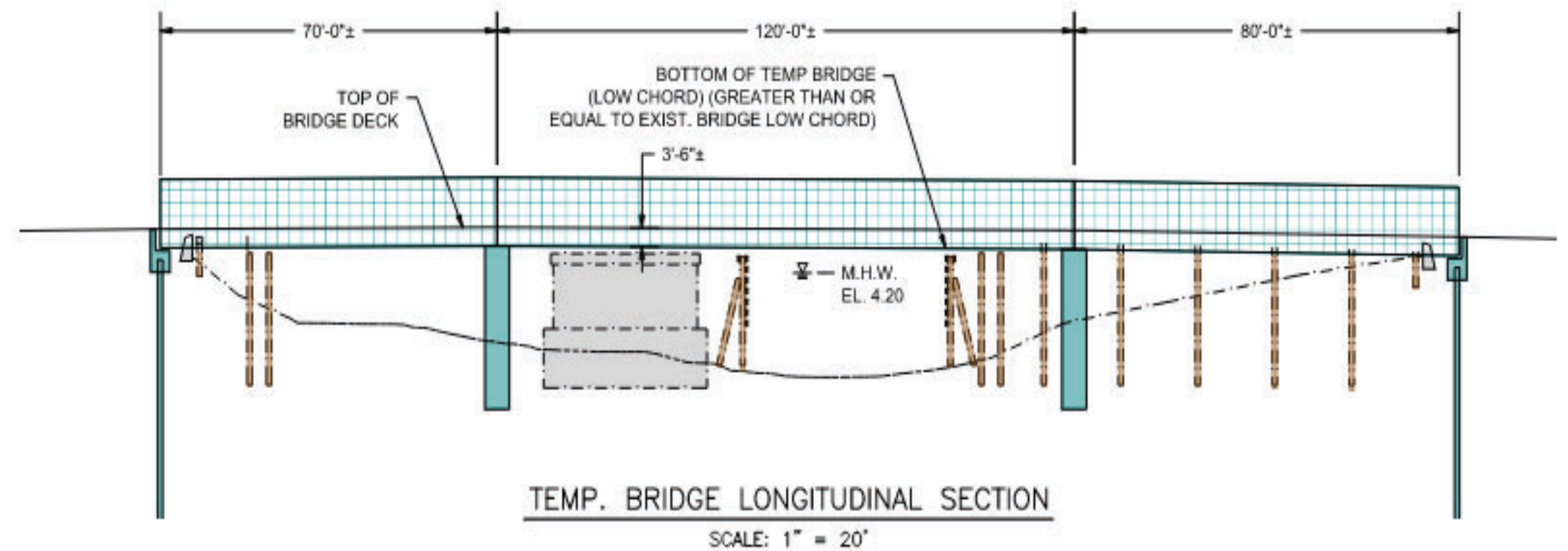
Proposed Cross Section

- 2 – 11' vehicle lanes
- 2 – 4' shoulders (shared use)
- 1 – 5' sidewalk



Span Configuration

- 3 spans
- maintain existing navigational channel
- maintain existing fixed navigational clearance height and width
- new piers located to avoid existing



Project Development Timeline

“Project Development” means preparing all the necessary documents for public bidding

These documents include:

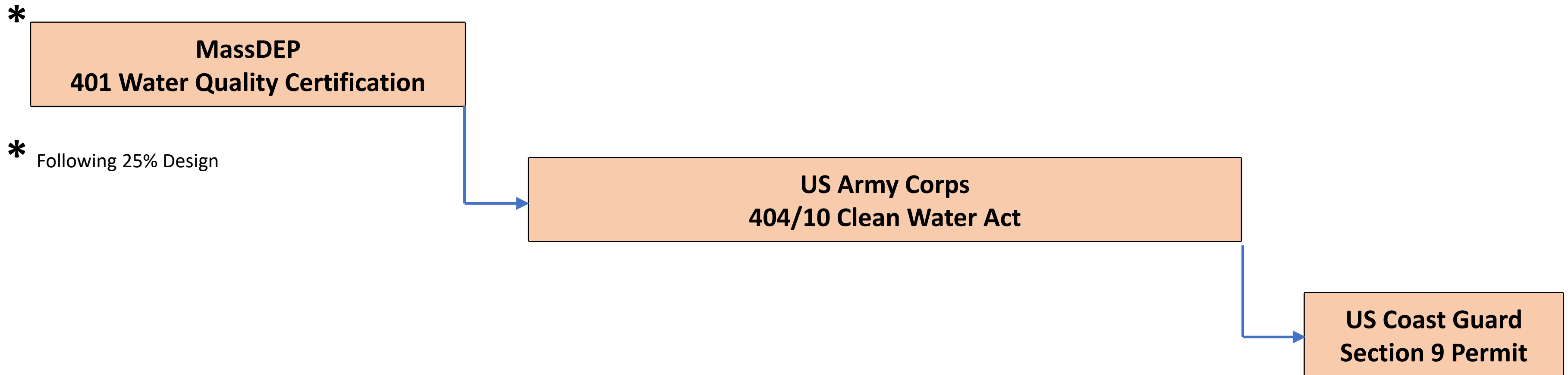
- Design plans and specifications
- All necessary environmental permits
- All necessary right-of-way
- Utility coordination and force accounts
- Advertisement, bid, and contract award

See the timelines for some of these efforts on the following slides.

Project Development Timeline - Present through 2023

Environmental Permitting Process - for the Temporary Bridge Alignment

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
4 to 6 months						9 to 12 months												2 to 4 months					



18 – 24 months

Design development progresses simultaneously.

Project Development Timeline

Best-Case Construction Schedule - for the Recommended Approach

2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035
W S S F	W S S F	W S S F	W S S F	W S S F	W S S F	W S S F	W S S F	W S S F	W S S F	W S S F	W S S F	W S S F

**ADVERTISE
& BID**



AWARD



CONSTRUCT

