



# Massachusetts Bay Transportation Authority

MBTA Contract No. C72PS01

Worcester Line Track and Stations Accessibility Improvements (P0261)  
Design and Engineering Services

---

Fiscal and Management Control Board

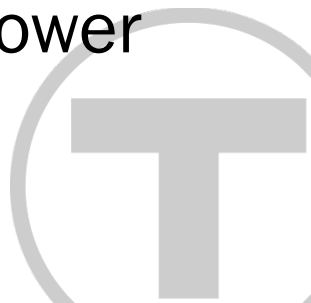
June 21, 2021

Maribel Kelly, Sr. Director CR Modernization Program, Capital Delivery

# Worcester Line Track and Stations Accessibility Improvements

---

- Purpose: Today's board action will provide authorization for Phase I-V (0% to 100% Design & Bid Phase Services) for Worcester Line Track and Stations Accessibility Improvements
- Project overview: The project consist of implementation of a new three track section including system upgrades and reconstruction of four commuter rail stations between Natick and Wellesley.
- Project Benefits: Improve commuter rail operational capacity and flexibility for Framingham/Worcester Line, achieve full accessibility compliance for four stations, improve reliability, reduce station life cycle maintenance cost and provide environmentally-friendly stations, lower energy consumption and increase overall system safety.



# Request of the Fiscal and Management Control Board

---

Today's board action will provide Professional Service Contract Phases I-V (0%-100% Design, Bid Phase Services) under **MBTA Contract No. C72PS01: Worcester Line Track and Station Accessibility Improvements**. An amendment to the contract for Phase VI CPS will be necessary once construction funding becomes available. This contract will be for full execution, but work will be authorized by phases.

## **VOTED:**

To authorize the General Manager to award and execute **MBTA Contract No. C72PS01: Worcester Line Track and Station Improvements** with HDR Engineering, Inc., in a form approved by the General Counsel, for certain professional services in an amount not to exceed **\$27,889,778.00** and with a contract duration of fifty four (54) months after Notice to Proceed.

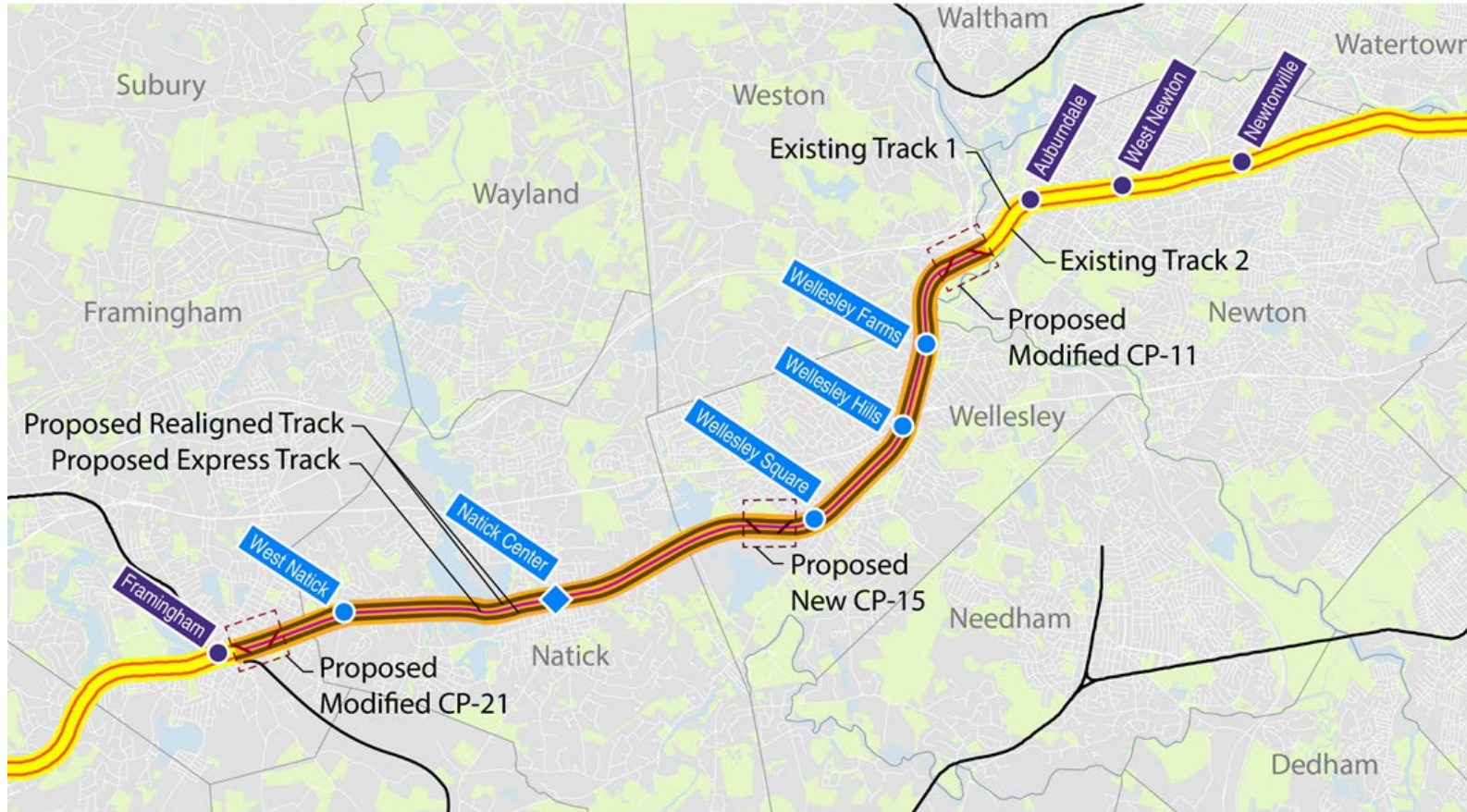


# Appendix

Project Scope Details



# Overview



Implementations of a new three-track section on Framingham/Worcester line from Mile Post MP11.0 to MP 21.2 in order to accomplish operational improvements as well as the design of four (4) commuter rail stations to bring them to full accessibility compliance.



# Required Improvements

---

- Trackwork between MP11.0 and MP21.2 (approx. 10-mile long corridor) with signals and communications upgrades
- New Interlocking CP-15, Reconfigured CP-11, Modified CP-21
- Some Bridge repairs
- Bishop Street grade crossing in Framingham
- Accessibility and third track accommodations for existing commuter rail stations:
  - West Natick Station
  - Wellesley Square Station
  - Wellesley Hills Station
  - Wellesley Farms Station



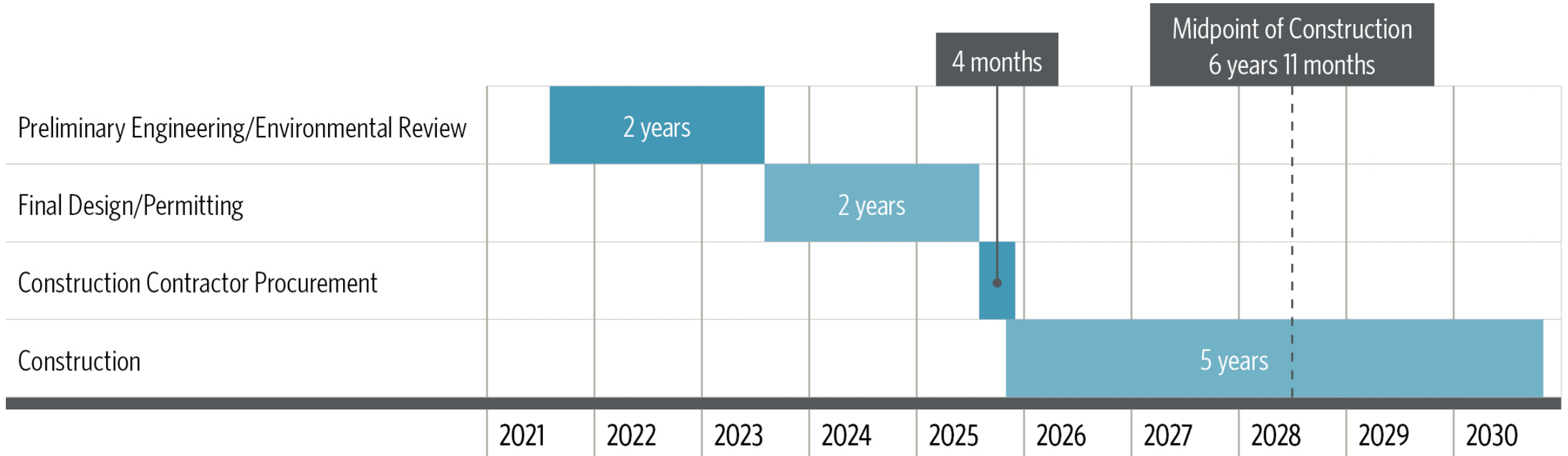
# Operational Analysis

---

- Study developed and tested Potential Service Plan
- The third track, in conjunction with other Worcester Main Line improvements, supports:
  - Improved arrival and departure times within the peak period for the existing Heart to Hub Worcester Express
  - Provision of an additional Heart to Hub Worcester Express service trip in both the AM and PM peaks
  - Provision of additional zone express and local peak period trips
  - Opportunities for increased reverse peak service associated with the peak direction service increases
  - Additional operational flexibility and reliability for a mix of express and local services
  - Opportunities for reductions in travel time that could be applied to reduce scheduled trip times, to increase operational resiliency, or to offset dwell time increases resulting from potential future ridership growth
- Service plan may require additional trainsets and associated support facilities for maintenance and layover



# Implementation Schedule





# Conceptual Estimate (Based on 2019 Study)

Program Element	OOM Cost Estimate
Corridor Track	\$126M
Corridor Signals and Communications	\$97M
Bishop Street Grade Crossing	\$1.7M
<b>Stations</b>	
West Natick Station	\$37M
Wellesley Square Station	\$31-\$35M
Without Redevelopment Concept	\$31M
With Redevelopment Concept	\$35M
Wellesley Hills Station	\$43M-\$45M
Option A	\$43M
Option B	\$45M
Option C	\$44M
Wellesley Farms Station	\$34M
<b>TOTAL PROGRAM</b>	<b>\$369M-\$375M*</b> <b>\$399M-\$406M**</b>

\*Costs developed during Study, May 2019 day dollars  
 \*\*Cost if adjusted 2 years to current midpoint to construction





Massachusetts Bay  
Transportation Authority

Thank You

