



**Massachusetts Bay
Transportation Authority**

General Engineering Contracts

Fiscal and Management Control Board

September 16, 2019

Jody Ray

Overview

This Board action seeks the FMCB's authorization for the General Manager to execute four (4) contract amendments to existing General Engineering Contracts (GEC) with STV, Jacobs, HNTB, and VHB. These contracts were initially executed in 2015, and each has been amended at least twice over the ensuing years. New GEC contracts are being prepared for advertisement, so this will be the final amendment.

If approved, all of the contracts term will be extended through the end of 2020.

- Two will see the contract value increased by \$1M each: RROPS16 – VHB and RROPS17 – HNTB
- Two will see the contract value increased by \$2M each: RROPS18 – Jacobs and RROPS19 – STV

New Commuter Rail General Engineering Contracts will be advertised and awarded during the term of this final extension.

Request of the FMCB:

Staff request that the Fiscal and Management Control Board authorize the MBTA General Manager, or his designee, to execute four General Engineering Contract Amendments to raise the contract value and extend the term for the following contracts/firms:

- RROPS17 – HNTB: increase by \$1M and extend through 12/31/2020
- RROPS18 – Jacobs: increase by \$2M and extend through 12/31/2020
- RROPS19 – STV: increase by \$2M and extend through 12/31/2020
- RROPS20 – VHB: increase by \$1M and extend through 12/31/2020



Background

- On August 11, 2015, the FMCB approved four General Engineering Contracts.
- Since FMCB approval, each GEC has been amended as follows:
 - **VHB**
 - 3/19/2018 AM-1 (Ceiling Increase: \$1,000,000)
 - 10/23/18 AM-2 (Time Extension: 8/11/18 to 8/11/19)
 - **HNTB**
 - 2/20/2018 AM-1 (Ceiling Increase: \$1,000,000)
 - 2/12/2018 AM-2 (Time Extension: 8/11/19 to 12/31/19)
 - 12/18/2018 AM-3 (Time Extension: 12/31/19 to 12/31/20)
 - **Jacobs**
 - 9/26/2018 AM-1 (Ceiling Increase: \$1,000,000)
 - 10/23/2018 AM-2 (Time Extension: 8/11/18 to 8/11/19)
 - **STV Incorporated**
 - 3/27/2019 AM-1 (Ceiling Increase: \$2,000,000)
 - 7/9/2018 AM-2 (Time Extension: 8/11/18 to 8/11/19)

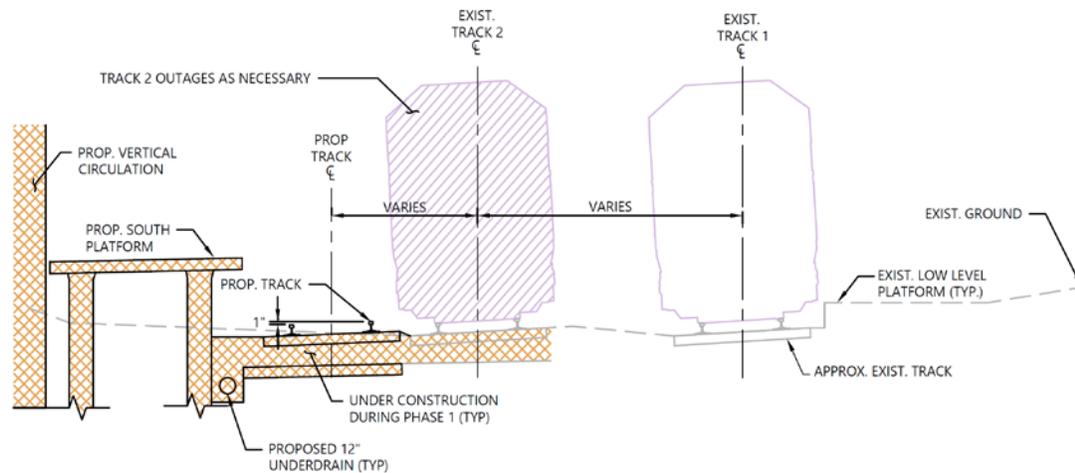


Appendix



VHB

- Engineering for South Side Main revenue equipment repair facility
- Worcester Third Track preliminary engineering
- Walpole interlocking
- State of the Service report for Commuter Rail and Ferry
- BET Leak Detection System
- Newton Stations conceptual design
- Inventory condition assessment
- Update signal maintenance and testing manual.
- Newburyport vibration assessment



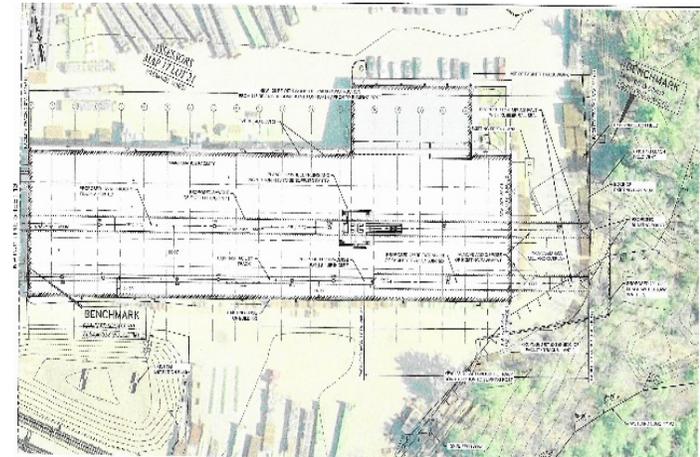
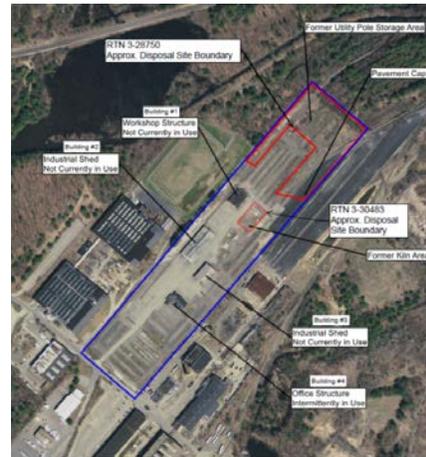
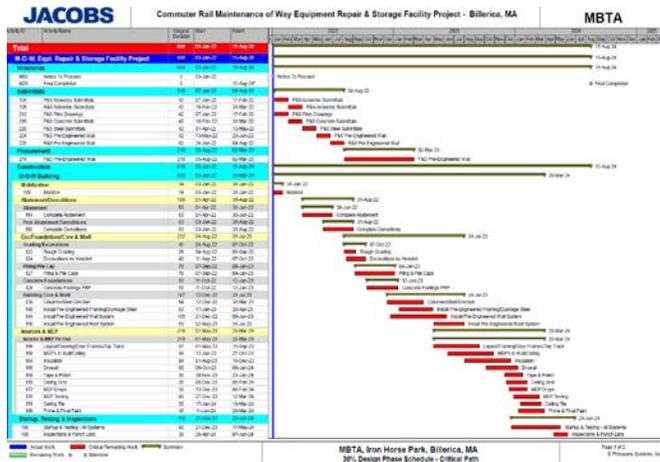
HNTB

- Asset Management: identifying and providing condition assessment all of Commuter Rail infrastructure
- Franklin Line double tracking (Phase 1)
- Repurposing of the ground water building into an HVAC shop at BET
- Updating the MBTA Standards, MW1, and Standard Plans
- Mechanical engineering services for overhaul of the two Gen-Set locomotives
- Review and condition assessments for all maintenance and work equipment



Jacobs Engineering

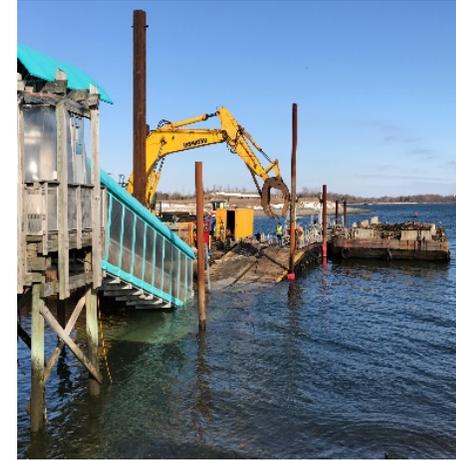
- Work equipment repair shop design
- Environmental remediation efforts
- CP3 & CP6 interlockings - Worcester Main Line
- Communications and fiber network system
- Security system, camera surveillance, perimeter fencing
- Wayside and emergency backup power
- Shop heating and ventilation system electrical upgrades for wheel true, turntable, and interior/exterior lighting
- Track and civil design
- FTA asset tracking and evaluation program



STV Incorporated

Fleet Reliability and Service Life Extension

- Specification for two Ferry Boat overhauls
- Single Level Coach restoration
- Locomotive/coach major repair efforts at Rochester
- HSP46 Locomotive acceptance and FMI support
- Technical support to evaluate rolling stock issues
- Support RROPS managed locomotive overhauls
- Specification development for major locomotive/coach systems



Engineering Support

- Maintenance activities
- Inspectional services
- Hingham Dock emergency repair

Facility Upgrades and Modifications

- Wheel true machine and turntable installation
- Inspection pit, jacking pads, and structural modifications

