

**Massachusetts Bay
Transportation Authority**

North Cambridge Battery Electric Bus Facility Project Request for R53CN03 Construction Contract Approval

MBTA Board of Directors

Christopher E. Brennan, P.E., Chief of Capital Delivery

October 24, 2023

Contract Action

- Today's action is to request the approval from the MBTA Board of Directors to authorize the MBTA General Manager or his designee to award and execute MBTA Construction Contract R53CN03 – North Cambridge Battery Electric Bus Facility Modifications project to J.F. White Contracting in the amount of \$27,317,324



Project Goals

- Supports the MBTA's effort to modernize its bus fleet and move towards a universal, battery electric bus (BEB) fleet, as documented in Focus40 and the MBTA's Bus Electrification Plan
- Provides storage and charging locations for the first large scale procurement of BEB's scheduled for October of 2025
- Replaces diesel hybrid buses currently servicing North Cambridge routes (71 and 73) being dispatched out of Charlestown
- Project DBE goal is 20%
 - Low bidder DBE participation meets the goal



Project Scope

- Installation of 11 battery electric bus charging units
- 34 BEB Charging Stations – 30 outside overhead gantry pantograph and 4 plug in chargers inside the garage
- 2 pad mounted transformers, low and medium switch gears
 - Securing electrical components through an early procurement process to mitigate long lead times
 - This will allow project completion to align with BEB delivery
- Municipal utility connections
- Full depth pavement construction with ADA parking spaces
- Mobile generator, electrical upgrades for lighting, camera surveillance, IT room upgrades as well as municipal utility connections
- Fire protection upgrade and new suppression systems



Project New Proposed Conditions



Overhead view of charging yard



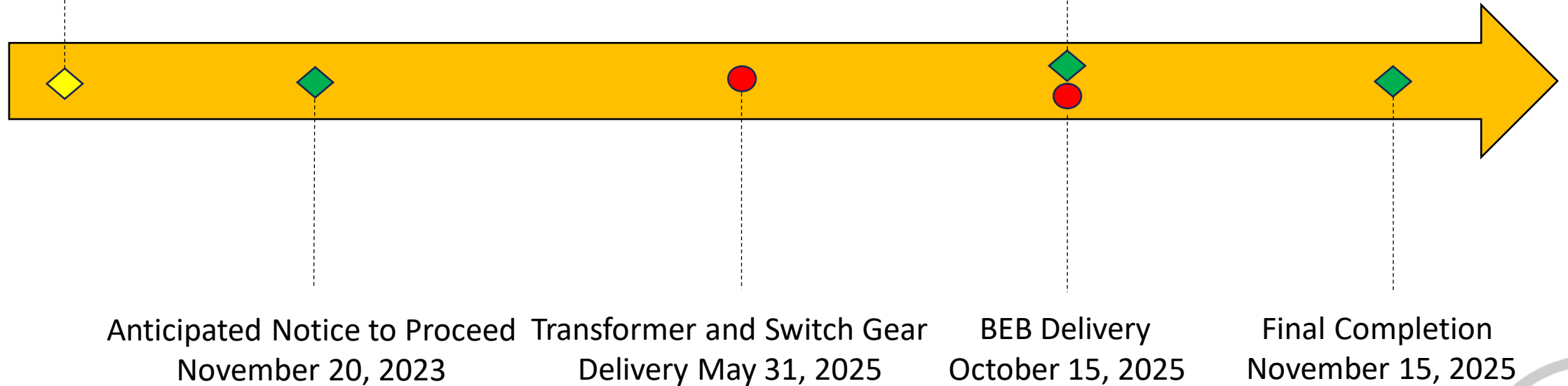
Gantry charging station yard view



Project and BEB Delivery Schedule

Board Action
October 24, 2023

Substantial Completion
October 15, 2025



Board action

VOTED:

That the MBTA Board of Directors hereby authorizes the General Manager or his designee to execute a contract with J.F. White Contracting Company for North Cambridge Battery Electric Bus Facility Rehabilitation in the amount of \$27,317,324, in a form approved by the General Counsel, and to execute any necessary or ancillary documents in the name of and on behalf of the Massachusetts Bay Transportation Authority to effectuate this Agreement



Appendix

Project Details



Project Location and Existing Conditions



2375 Massachusetts, North Cambridge Ave



Bus Facility Entrance – Massachusetts Ave



Project Overview

- Modifications of the existing North Cambridge bus facility to accommodate the charging and storage of 32 battery electric buses



Former Overhead Catenary Bus Facility



New Battery Electric Outdoor Charging Facility

