

# GLTPS



# GREEN LINE TRAIN PROTECTION SYSTEM

A CAPITAL TRANSFORMATION PROJECT

## Monthly Review and Lookahead

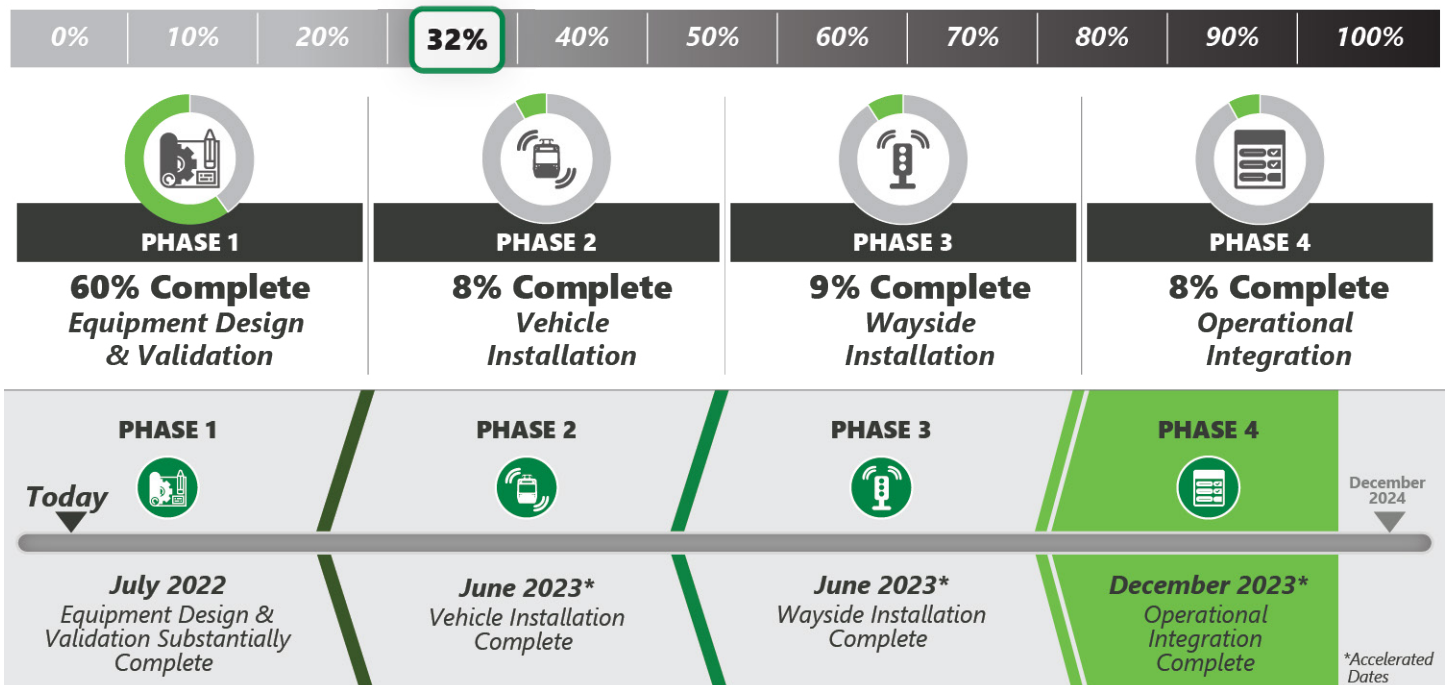
Wednesday April 27, 2022

**Overview:** The Green Line Train Protection System (GLTPS) combines vehicle and wayside equipment, that work together to avoid train on train collisions, add red light signal protection, and incorporate speed enforcement. The project has four (4) overlapping phases starting with **Equipment Design**, which integrates new components into the legacy system. The **Vehicle Installation** contract has been formally awarded and the Contractor is mobilizing at the GLX facility in Somerville. The **Wayside Installation** contract is in the procurement phase and will be finalized in May. The **Operational Integration** phase is preparing the MBTA to use the new safety system on its Green Line. Currently, our primary focus is working toward the baseline design finalization for Wayside and Type 7 vehicles.

### Did you know...

... the vehicle and wayside mounted radio upgrade equipment are in constant communication until a vehicle passes the next signal in sequence. This either enforces speed restriction or allows the vehicle to maintain a given speed dependent upon the wayside signal status. If that signal status changes while approaching a signal, the vehicle will react accordingly per the new condition and apply braking if the speed of the vehicle is above that of the enforced speed.

### GLTPS by the Numbers



## This Past Month



### Equipment Design & Validation

- **Project personnel completed First Article Inspections** on the Type 7 vehicle interior equipment enclosures at Transitair in Hornell, NY, allowing production to start. Open points are being addressed and manufacturing has begun to support the Pilot installation.
- **Pre-production equipment was installed on car 3664 in Riverside** and equipment testing was substantially completed. The car will remain equipped for further testing in May and then delivered to GLX in Somerville to have equipment installed to final configuration.



### Vehicle Installation

- **The Vehicle Installation Contractor was given notice to proceed on April 4** and began submittal of their Industrial and Safety Plans. Workshops were held with MBTA Project and Safety personnel to expedite these documents.
- **The Vehicle Installation Contractor is mobilizing at GLX** with modular offices and parts storage containers. Receiving inspection and the modification process of car 3708 has started and will be completed in early June.



### Wayside Installation

- **The Wayside Installation Package Public Bid Opening was held on Tuesday, April 19.** A follow-up procurement meeting was conducted with the respective MBTA Construction & Project Teams on April 21. Installation will include over 400 upgraded signal heads with LED components and 900 wayside balises to deliver the train protection system to Green Line.



## Lookahead for May



### Equipment Design & Validation

- Complete First Article Inspections (FAIs) for Type 7 vehicle & wayside assemblies
- Complete the Type 7 Pilot installation at GLX and begin preliminary qualification testing



### Wayside Installation

- Finalize wayside installation contract and issue notice to proceed (NTP)
- Begin receipt of programmed speed balises in advance of June installation



### Vehicle Installation

- Mobilize Installation Contractor at GLX
- Finalize Industrial & Safety Plan
- Begin Type 8 vehicle conceptual design review and prototyping of enclosures



### Operational Integration

- Provide Stakeholders with newly revised operational storyboard and video
- Develop Stakeholder training schedule for Operational Readiness integration