

# Green Line Extension Update

Fiscal and Management Control Board John Dalton, Program Manager

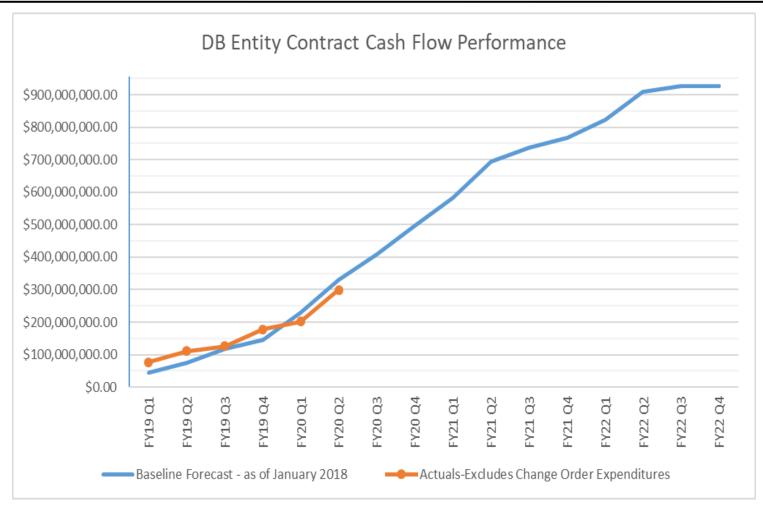
April 13, 2020

# Agenda

- GLX Project Update
- GLT Lechmere Viaduct Rehabilitation (B22CN02) & Coordination with GLX
- Lechmere Station Closure and Bus Diversion



# Design Build Entity Contract Cash Flow & Spending

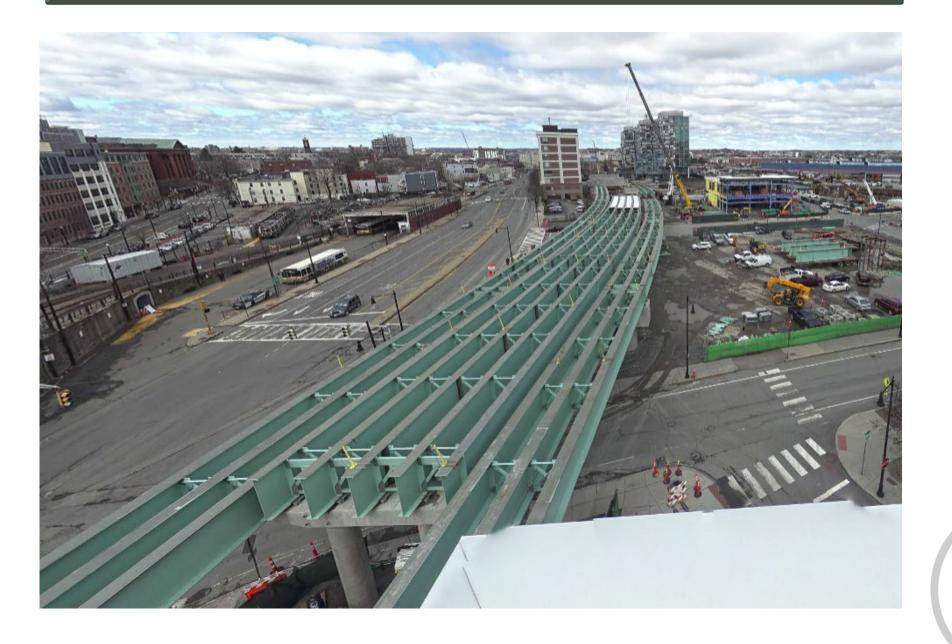


Updated Quarterly. Revised as of December 31, 2019.

Actuals = Paid only (does not include retainage or change orders)



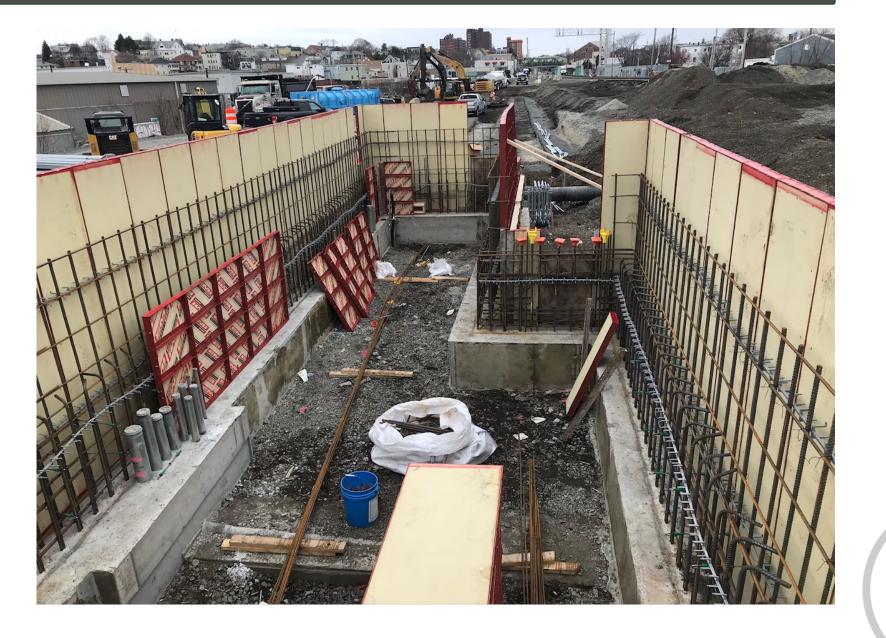
Lechmere
Viaduct and
Station Area
(existing and
future)



Red Bridge Viaduct Area (looking north)

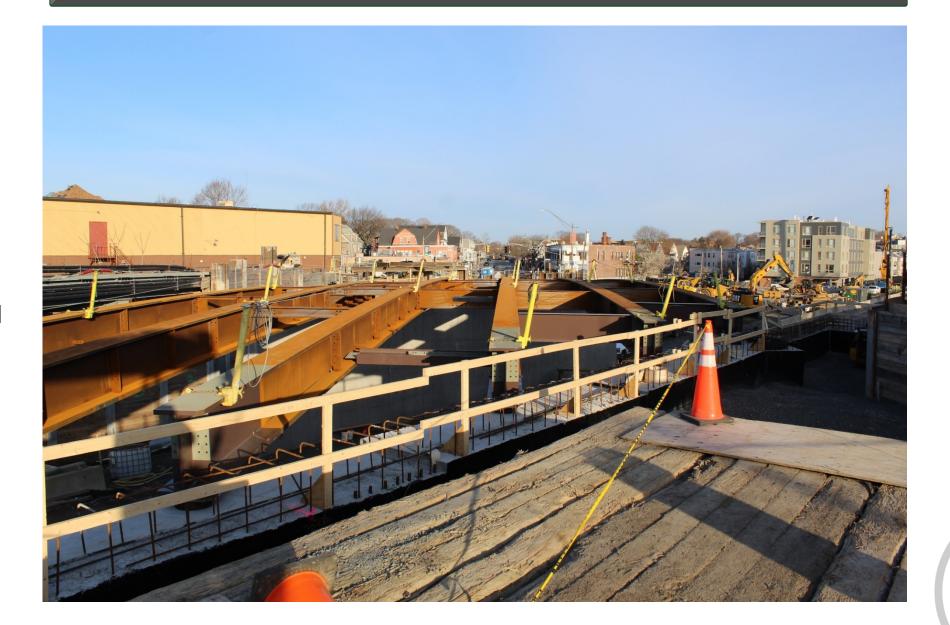


Future East Somerville Station

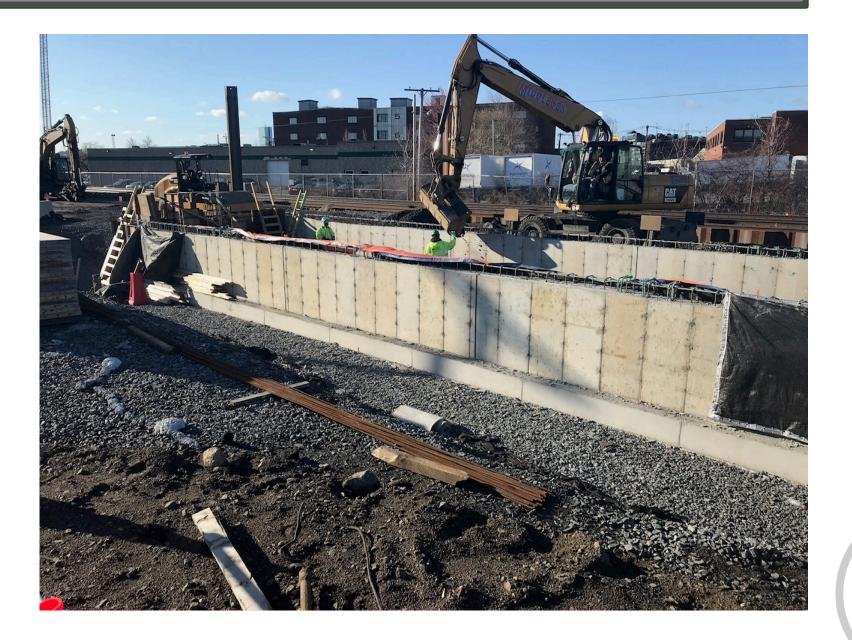


Broadway Bridge Steel Erection

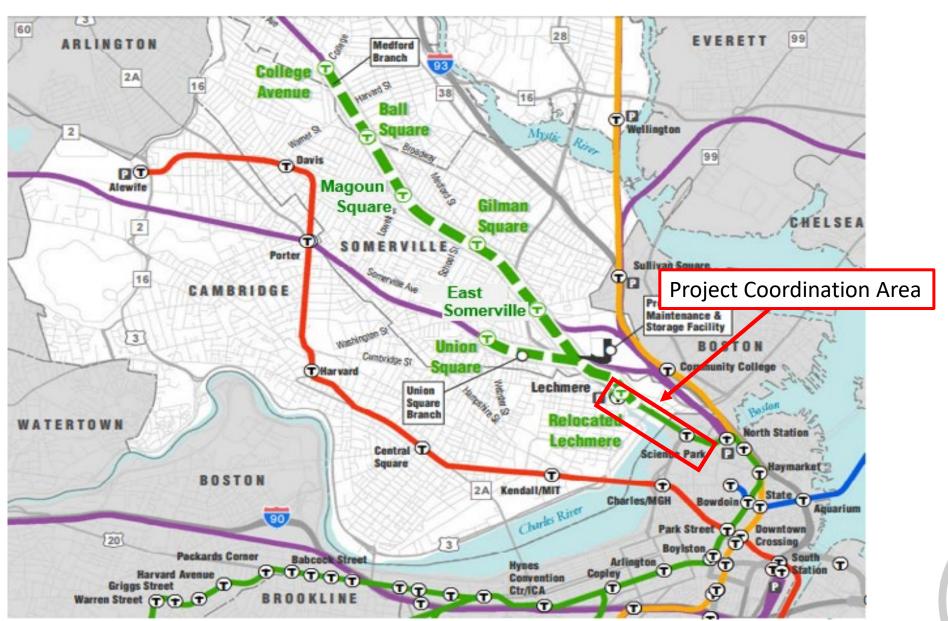




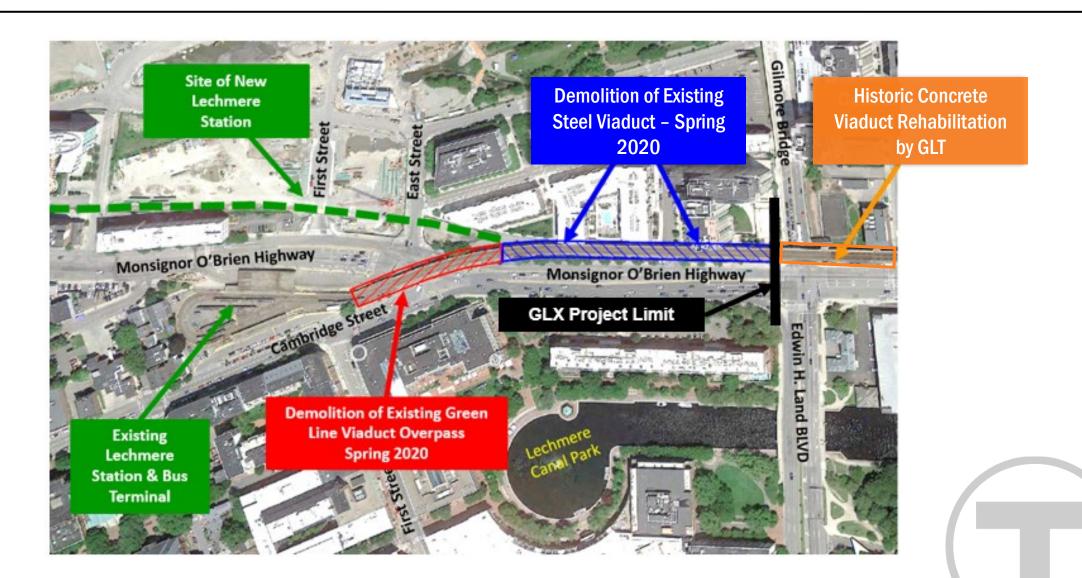
Broadway Bridge Steel Erection Future Union Square Station



# **GLX Site Overview**



# Lechmere Station Demolition & New Viaduct Section



# Lechmere Project Limits



**Green Line Extension (GLX)** 

**Green Line Transformation (GLT)** 

# GLT Lechmere Viaduct Rehabilitation Project



#### A

#### **Physical Conditions**

- The existing railing, deck, and stringer conditions warrant replacement due to extensive chloride intrusion and map cracking of the concrete
- Additional concrete and steel repairs necessary to extend the life of the structure

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#### Strength Requirements

 The structure's current load rating indicates the concrete arches are below statutory requirements, restricting the number of simultaneous revenue vehicles and work cars on the viaduct

## Lechmere Bus Replacement Service

### **Lechmere Station Operations**

- Existing Service Maintained: Bus Routes 69, 80, 87, and 88 continue to connect Somerville, Cambridge, Arlington, and Medford to Lechmere
- Green Line Shuttle: A separate fleet of accessible shuttle buses will connect Lechmere to North Station to meet or exceed existing Green Line headways
- Station Bus Infrastructure: Existing Bus Garage and Operator Facilities to remain until new bus loop and new Lechmere Station are fully functional

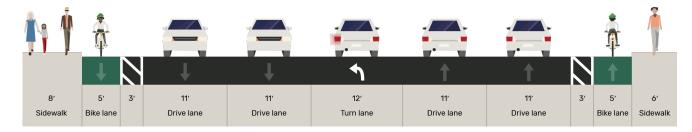
Bus Replacement Service expected to start on or around May 25th

# Lechmere Bus Replacement Service

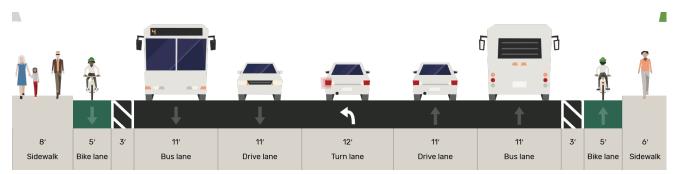
### **Charles River Dam Road (Craigie Dam)**

 Conversion to all-day two-way bus lanes, and accompanying bus lanes conversion in Cambridge and Boston





Conversion with bus lanes



## Lechmere Bus Replacement Service

### Bus lanes are needed to maintain people capacity

- In the absence of buses, many of the 14,000+ Green Line riders may choose to drive and overload the roadway system
- Congestion may increase with or without bus lane, but bus lane guarantees a reliable transit alternative
- Bus Lanes also projected to save up to 15 minutes roundtrip per passenger during weekday peak travel times