



GREEN LINE EXTENSION PROJECT



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Agenda

Welcome & Introduction

- John Dalton, MBTA / GLX Program Manager

Construction Plans for 2020

- Jeff Wagner, Public Outreach Manager, GLX-C

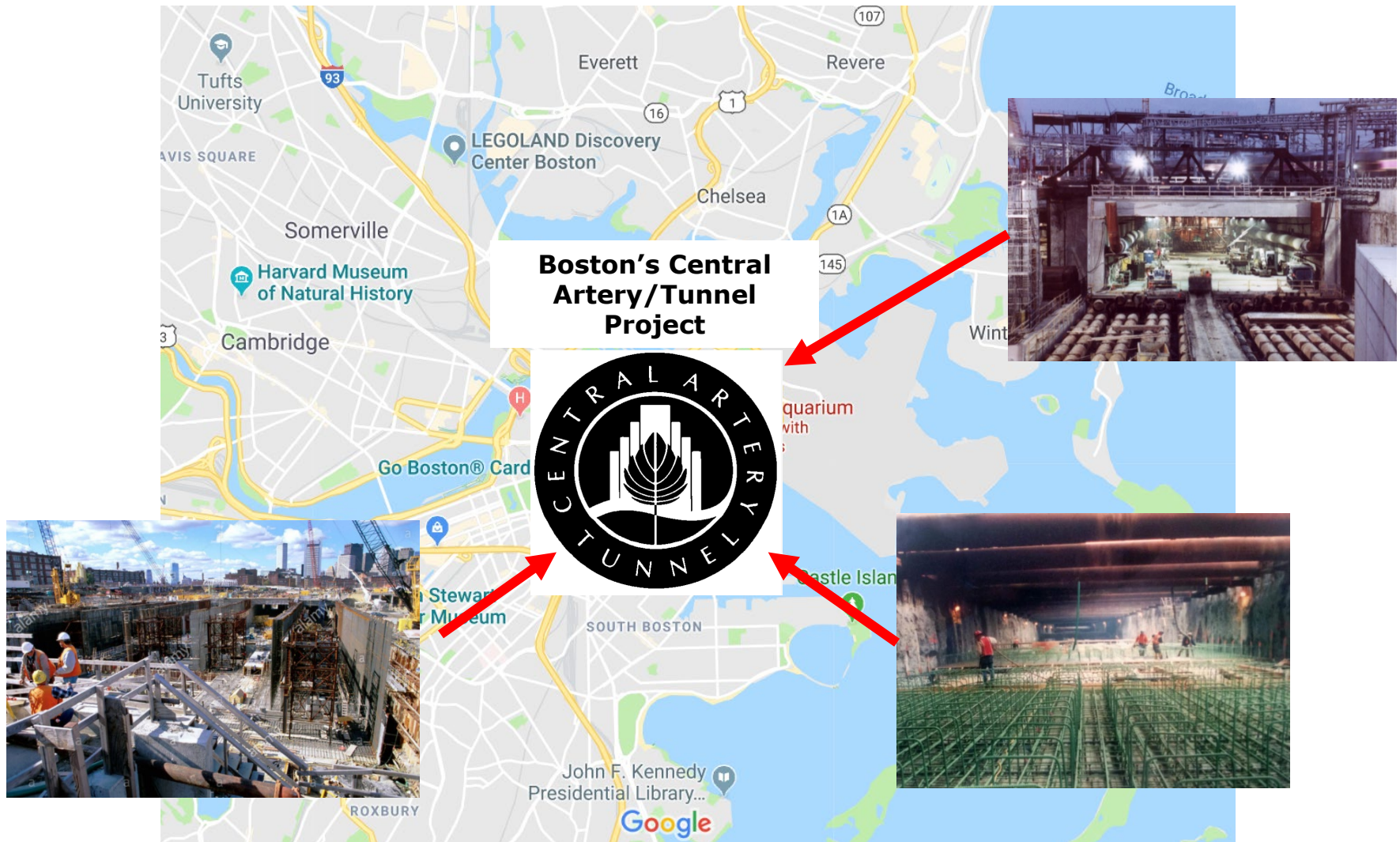
Public Outreach

- Terry McCarthy, MBTA / GLX Stakeholder Engagement

Comments / Questions



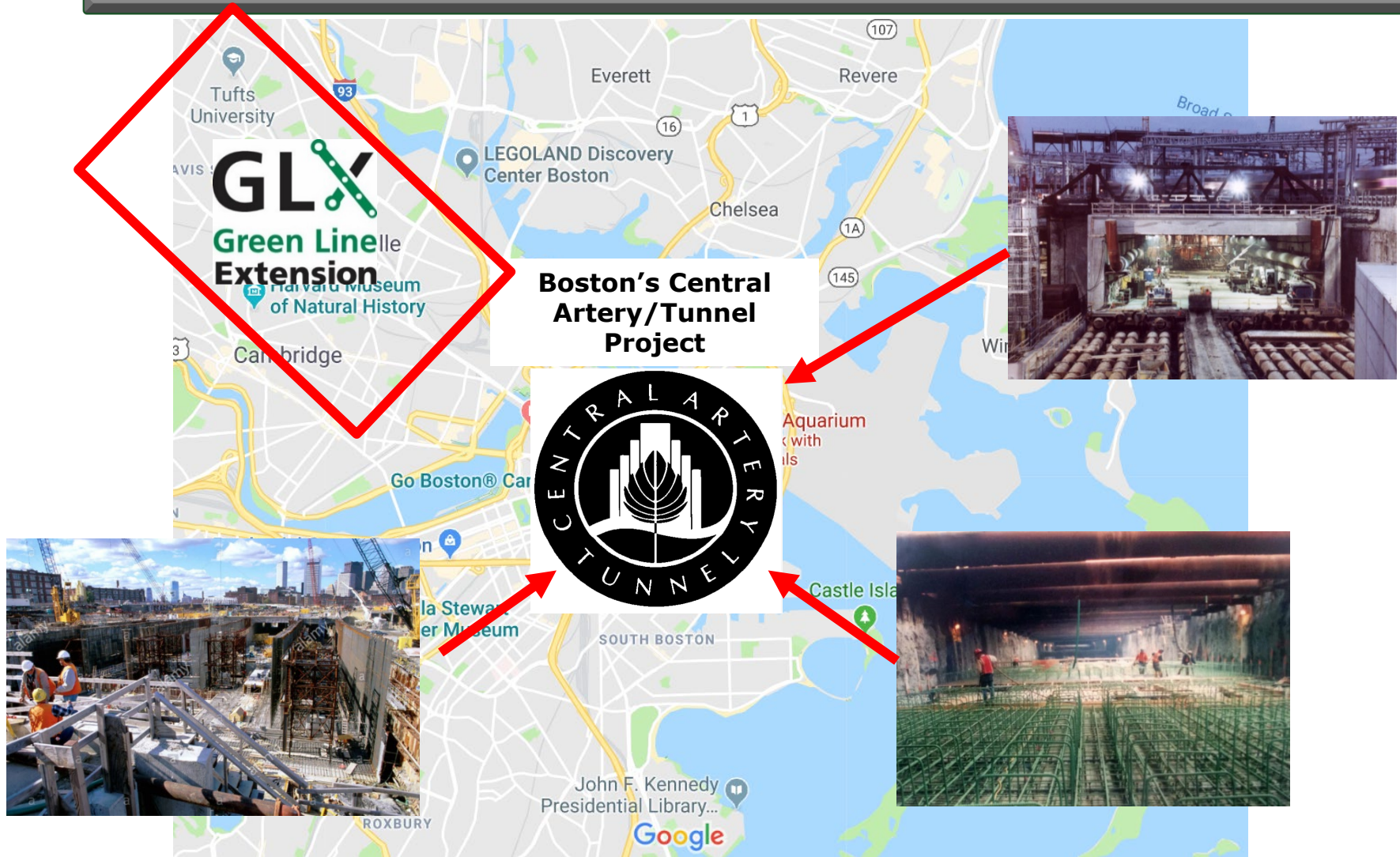
Genesis of GLX Project



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Genesis of GLX Project



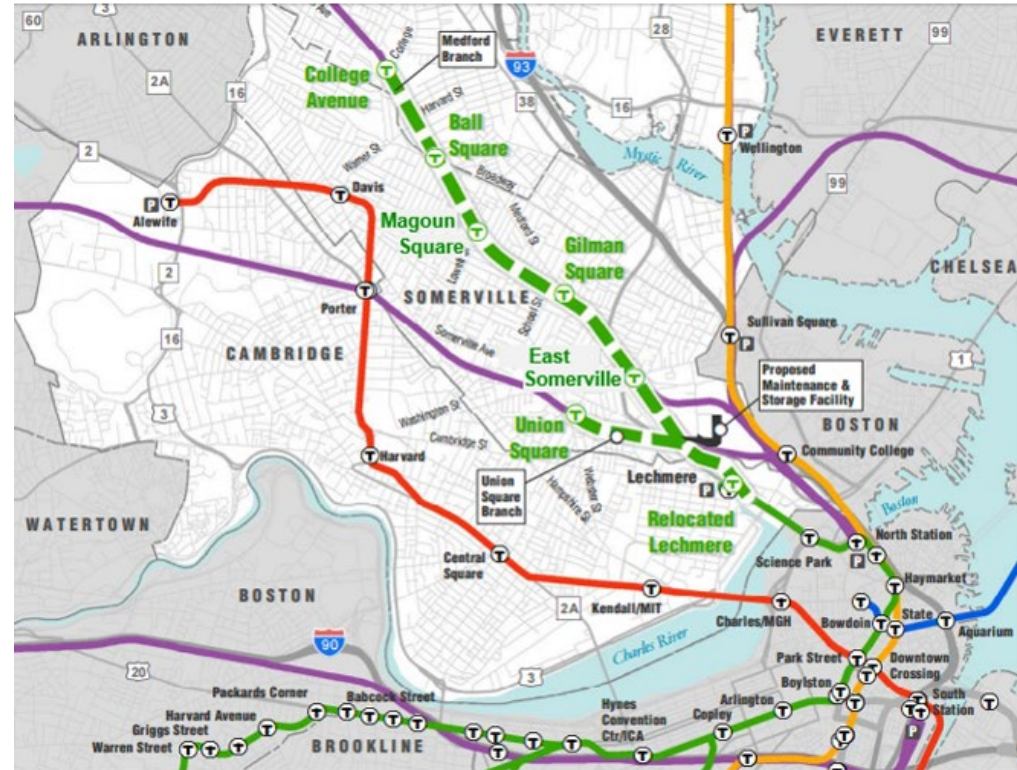
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Project Scope Summary



- 1) Seven light-rail GLX stations
 - Relocated Lechmere Station
 - 5 on Medford Branch
 - 1 on Union Square Branch
- 2) Includes a multiuse community path (Lowell Street to Cambridge Crossing/Lechmere)
- 3) Procurement of 24 Green Line light rail vehicles
- 4) Vehicle Maintenance Facility (VMF)
- 5) Any future Green Line service to Route 16 and/or Porter Square is not precluded



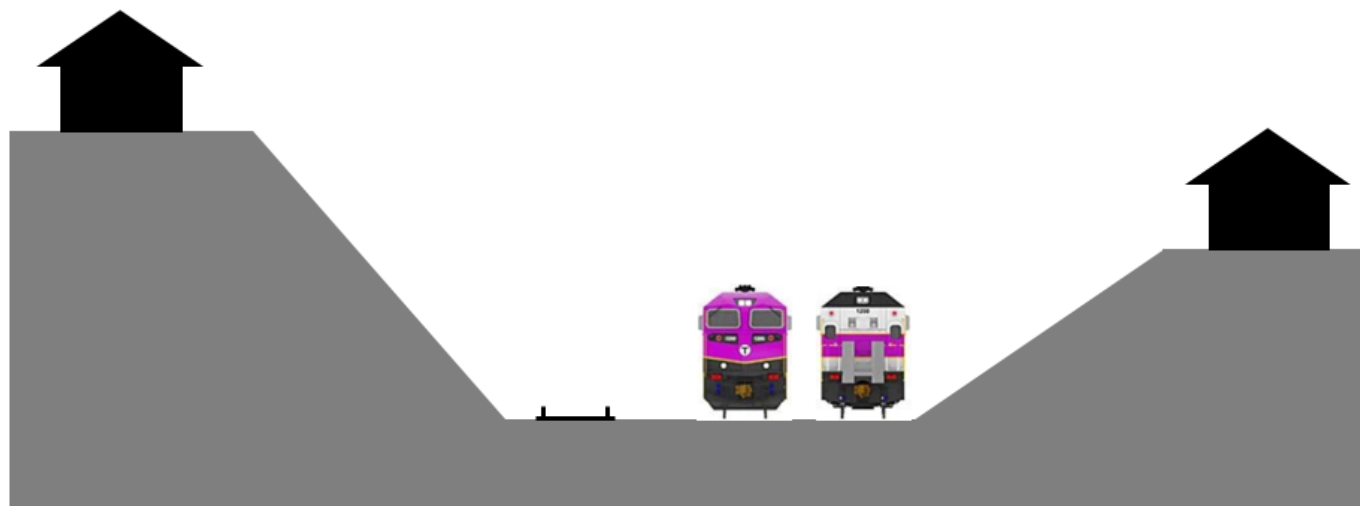
Project Goals & Benefits

- Improves local and regional air quality
- A projected reduction in regional daily Vehicle Miles Traveled by 25,728 miles reducing automobile congestion.
- Daily ridership (boardings and alightings) of approximately 45,000 by 2030.
- 20% of Somerville population is within walking distance of rail transit today, and 80% is anticipated to be so with GLX
- Economic benefits, including the improvement of the commercial tax base



Construction Sequencing

*Original
Configuration*



Fall 2018



Construction Sequencing

*Current
Configuration*



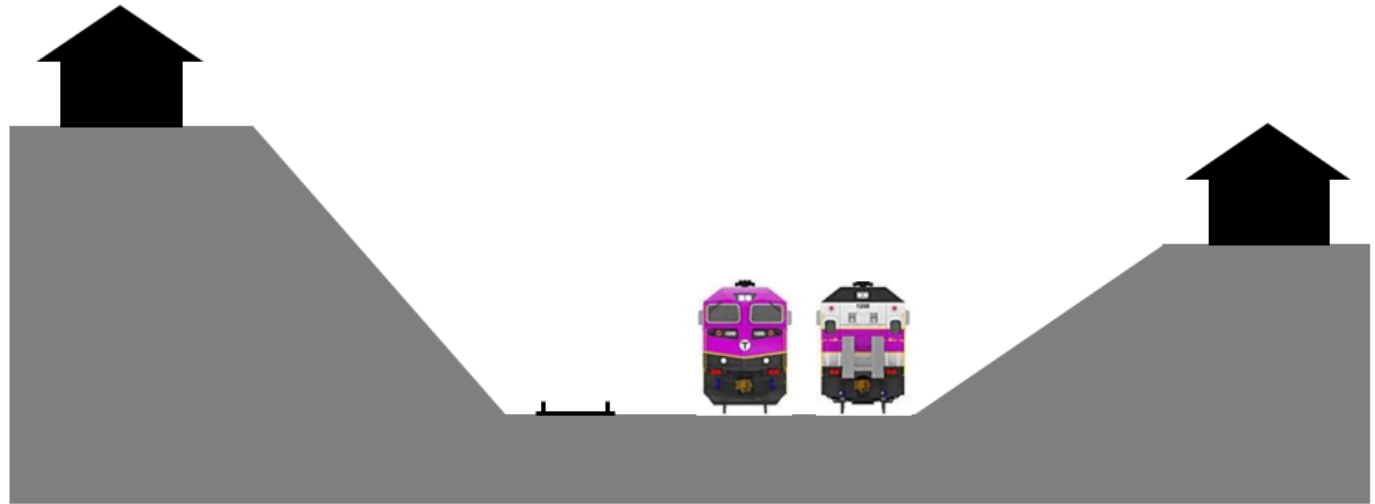
*2019 Performance
Goal =
November 2019*



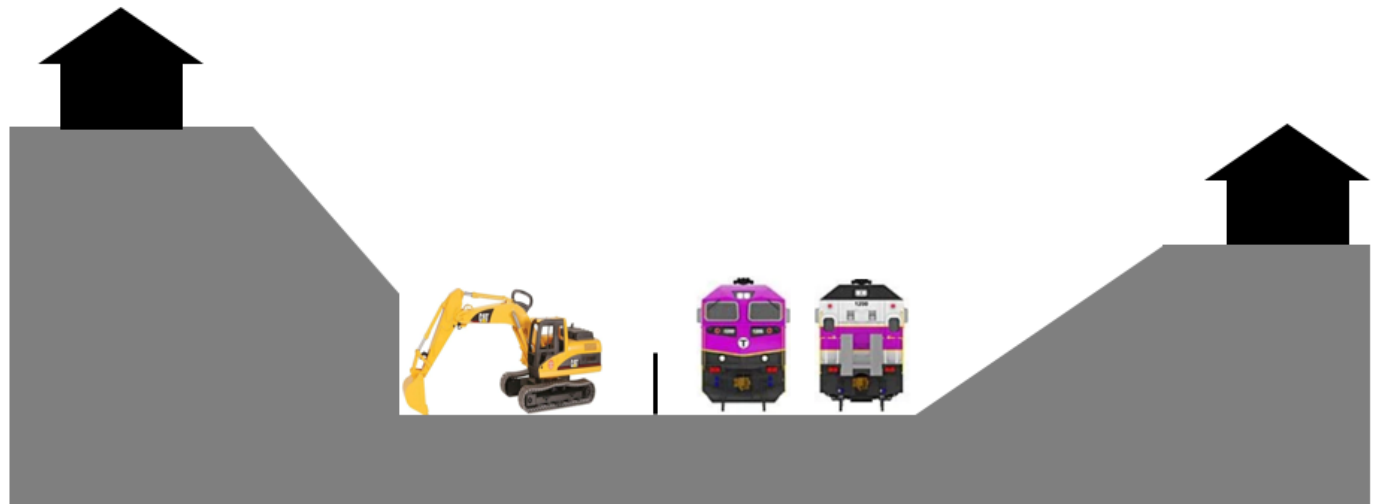
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Construction Sequencing

Original Configuration

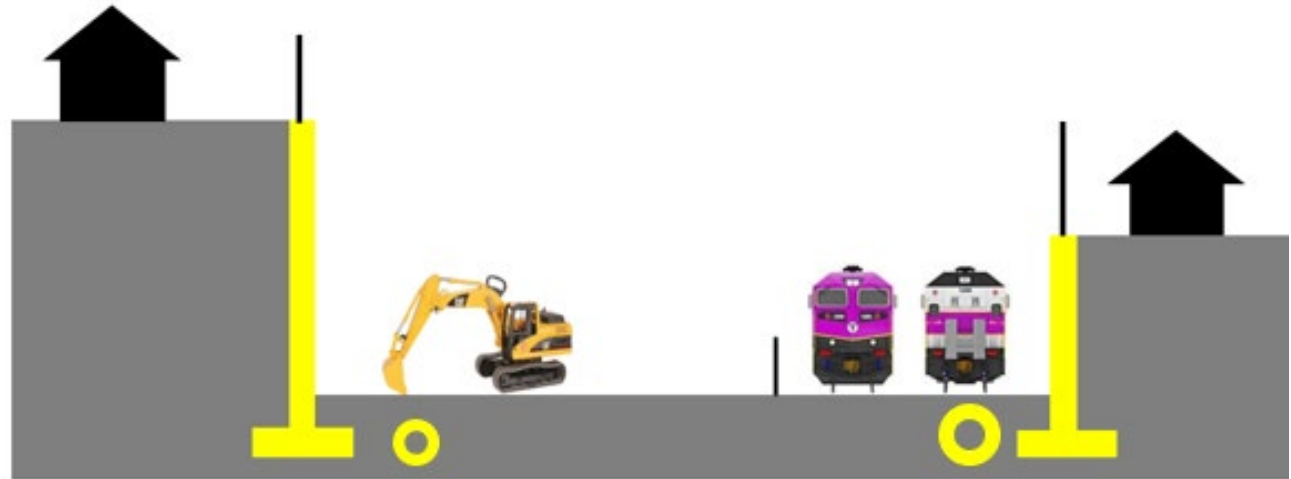


Fall 2018



Construction Sequencing

2020 / 2021



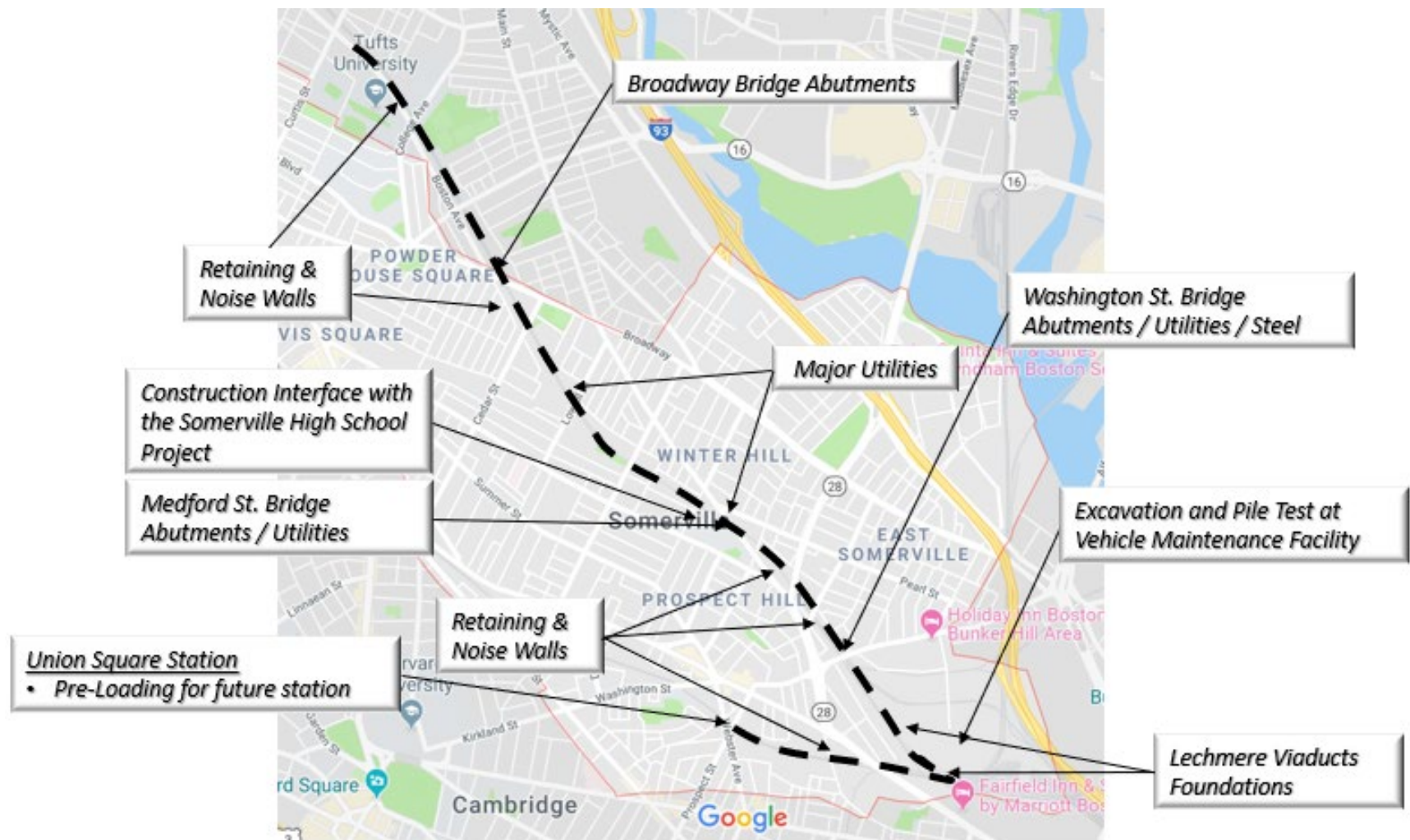
*New
Green Line
In Service*



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Significant Active Work Areas



Lechmere / Fitchburg Viaduct



55 Viaduct Drilled Shafts Complete

Lechmere / Fitchburg Viaduct



55 Viaduct Drilled Shafts Complete



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Progress Photos



55 Viaduct Drilled Shafts Complete



Progress Photos

Vehicle Maintenance Facility
Approximately 300 Foundation Pilings Complete



Progress Photos

Washington St. Bridge Phase - 1 Substantially Complete

- New bridge deck is ready to support commuter and freight rail traffic



Progress Photos

Washington Street Bridge



Progress Photos

Earth / Material Moving – Active Rail



Progress Photos

Gilman Square / Utility Work



Progress Photos

Gilman Square / Utility Work

- Prime example of the challenges associated with the construction of major infrastructure inside an active rail corridor
- Segment of 60-inch drainage pipe from School St. to Sycamore St. nearing completion



Progress Photos

Broadway Bridge Advancement

- West bridge abutment
- East bridge abutment
- Center bridge pier

Ball Square

- Major utility work progressing
- Station work to begin spring 2020



Progress Photos

Ball Square / Utility Work



Progress Photos

Noise & Retaining Walls

- *Panel installation underway*





GLX-C Construction Update



Safety Update

GLX Safety Performance

- Project Hours to Date – 1.5 Million
- OSHA Total Recordable Incident Rate – 0.80
- Bureau of Labor Statistics Rate – 3.20
- Performance is 400% better than national average



Construction Update

Track Shift



Construction Update



Track Shift

- South of College Ave to northern terminus underway



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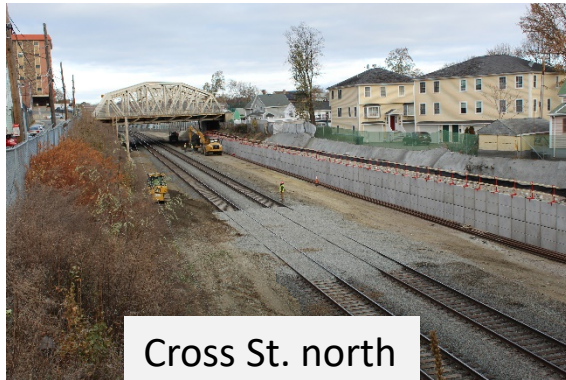


Construction Update



Track Shift

- Washington St. to Cedar



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Construction Update

Track Shift

- Cedar to North of Ball Square



Cedar north



Broadway north

Construction Update

What Drives When and Where we Work?

- Challenges of Working Along Commuter Rail Alignment
- Levels of rail service & implications on construction
 - Normal service
 - 1 track out of service
 - Full service outage



GLX-C Construction Plans for 2020

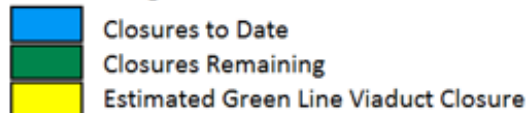


Bridge Closure Schedule



Bridge Closures	2019												2020												2021											
	WINTER			SPRING			SUMMER			FALL			WINTER			SPRING			SUMMER			FALL			WINTER			SPRING			SUMMER			FALL		
	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D
Broadway																																				
Washington Street																																				
Medford Street																																				
School Street																																				
College Avenue*																																				
Cedar Street*																																				
Lowell Street																																				
Green Line Bus Diversion Lechmere to North Station																																				
Lechmere Viaduct																																				

* On College Avenue and Cedar Street bridges, traffic may be restricted at times, but will remain open throughout construction.



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Construction Update

Broadway Bridge

- Drainage, wall construction and bridge construction continues
- Frequent weekend and night work based on track shutdowns
- Next Steps for Bridge Construction:
 - Complete drainage
 - Bridge abutment construction
 - Steel placement & build deck
 - Concrete
 - Complete tie ins and finishing work



Construction Update

Washington St. Rail Overpass

- First phase of Washington St. Rail Overpass construction nearly complete
- Demolition of 2nd half of old overpass to begin after track shift
- Build new section of overpass throughout winter





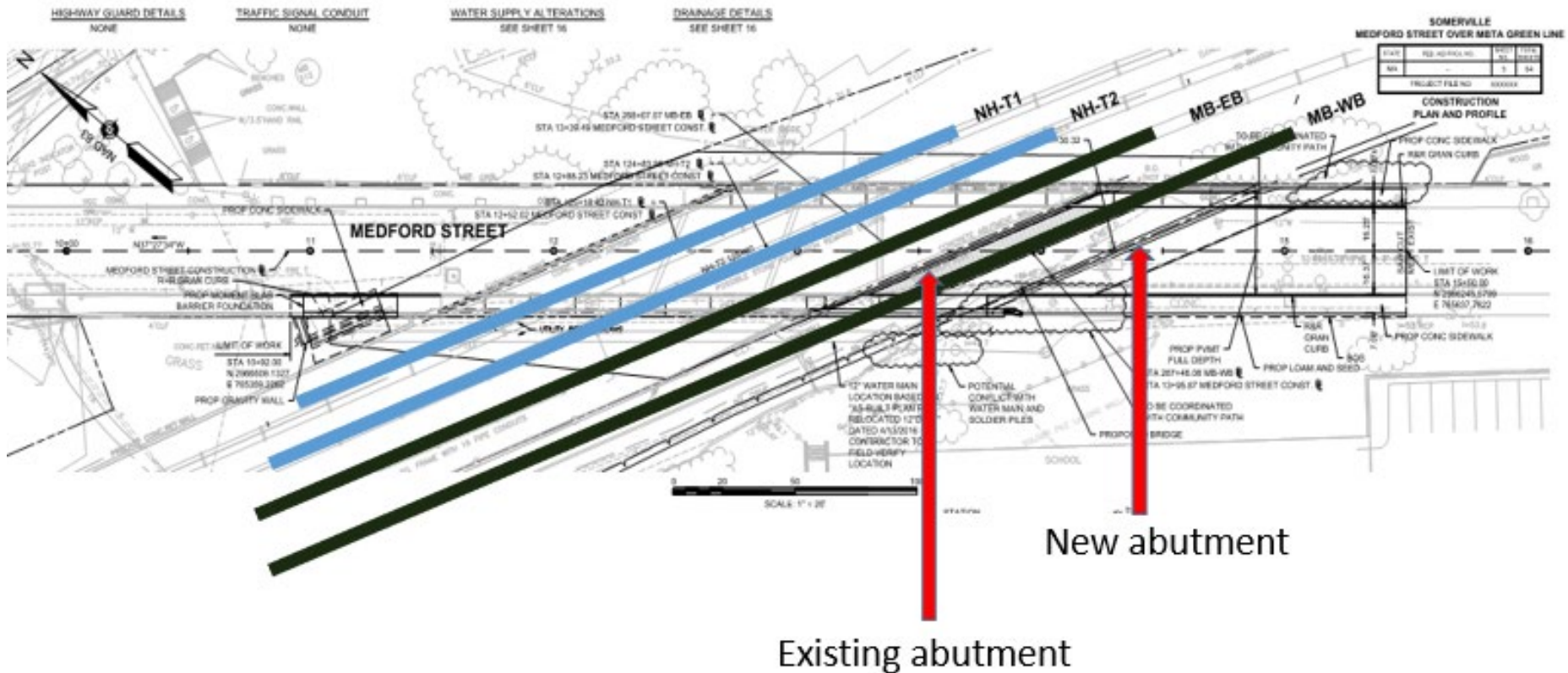
Construction Update



Medford St. Bridge

- Modification to West Abutment underway.

	Commuter / Freight Rail
	Green Line Rail



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Construction Update

Medford St. Bridge

- Modification to West Abutment underway
- New abutment and bridge extension to be complete in late spring



Construction Update

Medford St. Bridge

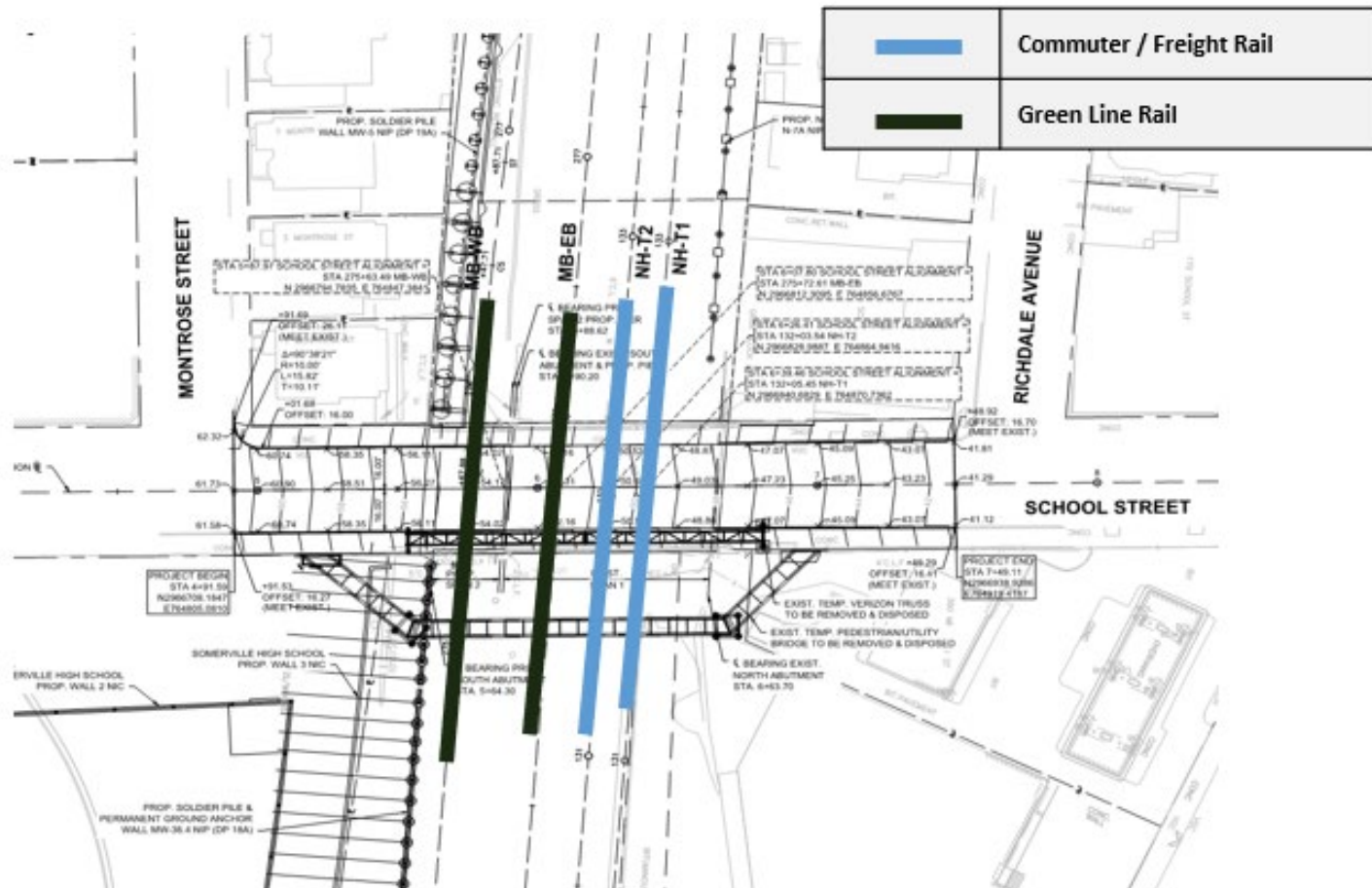
- Modification to West Abutment underway
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Construction Update



School St. Bridge



Construction Update

School St. Bridge



Construction Update

School St. Bridge

New
Underpass



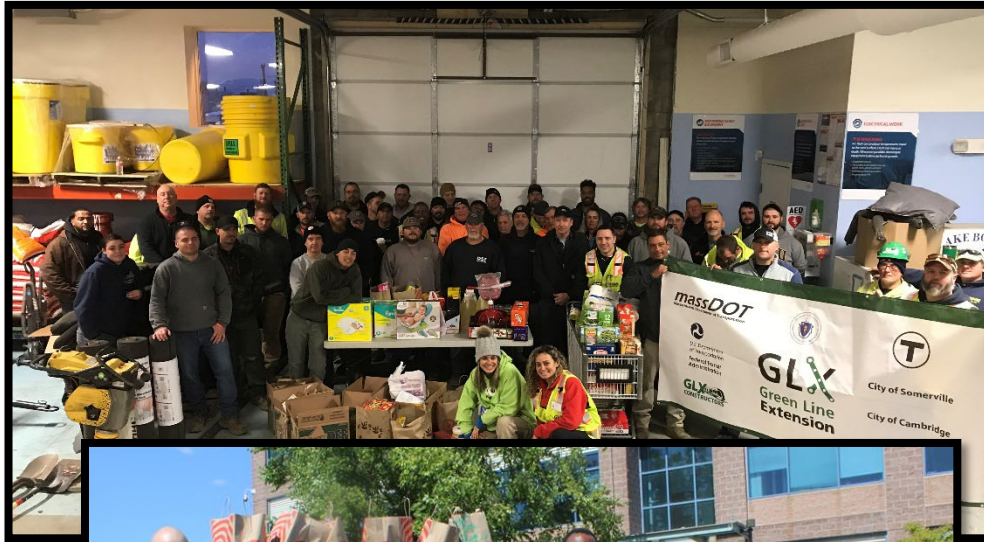
Local Outreach

- Community Working Group (24 consecutive monthly meetings)
- GLX website updates
www.Mass.gov/GLX
- Email Blasts (>7,250 registered)
- Automated phone calls (Reverse 911)
- Door-to-door leafletting (12,000+ delivered)
- Public Meetings
- City Traffic Engineers & First-Responders
- Tabling Events (20 events, 3,000+ engagements)



Outreach

GLX Team – Food Drives, School Supplies, Clothing, Causes



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Discussion

Q & A

Info@GLXinfo.com

(855)-GLX-INFO

www.Mass.gov/GLX

