GREEN LINE EXTENSION PROJECT

Agenda

Welcome & Introduction

- Terry McCarthy, GLX – MBTA

Update on Station Design

- Quon Chin, Station Designer, STV

Construction Update

- Randy McSherry, Construction Manager, GLX-C

MBTA Update

Local, Commuter, & Regional Traffic

GLX Green Line Extension

massDOT Massachusetts Department of Transportation

GLX Bridge Update

New Timing - Washington St. Bridge Closure

NEW TIMING:
The Washington Street Bridge / Underpass (currently closed for construction) near McGrath Highway in East Somerville will remain closed to vehicular traffic this winter (2019/2020). The bridge is expected to permanently reopen to vehicular traffic in April of 2020—approximately 5 months earlier than planned.

ORIGINAL TIMING:
The original closure plan for the Washington Street Bridge / Underpass involved temporarily opening the underpass for the winter of 2019/2020 followed by a second closure of the vehicular roadway from April 2020 through summer of 2020.

✖ **Washington Street Bridge (Underpass) in East Somerville**
*Closed April 8, 2019 to Spring 2020**

See planned detour routes on following pages
For further info and constant updates go to www.greenlineextension.org

Or email us at info@glxinfo.com

For urgent matters, dial 1-855-GLX INFO or 1-855-459-4636

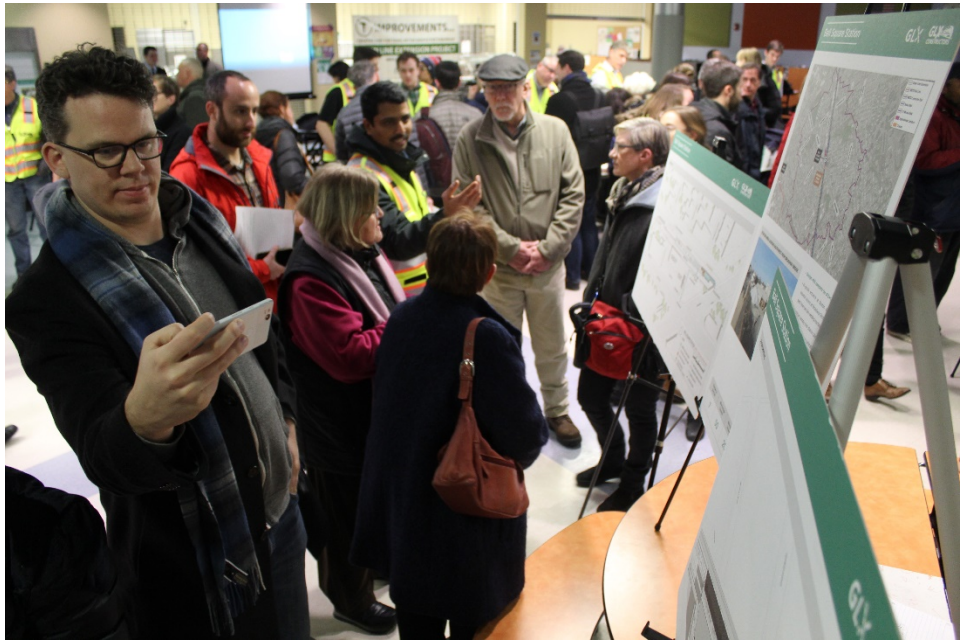
**Due to the nature of construction, all schedules are subject to change.*

Green Line Extension (GLX) Project | 200 Inner Belt Road, Somerville, MA 02143
1 (855) GLX-INFO (459-4636 | www.greenlineextension.org

September 2019

Upcoming Events

GLX General Public Meeting
Tuesday, November 19, 2019
6:30 – 8:00 p.m.
East Somerville Community School
50 Cross Street
Somerville, MA 02145

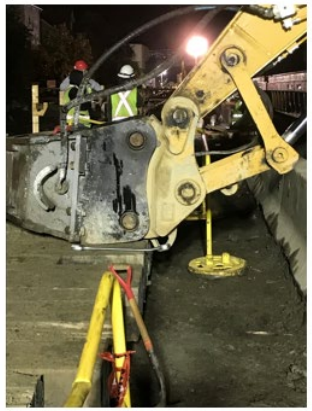


GLX-C Construction Update

Construction Update

Safety

- Fire Life Safety Committee meetings commenced by System Safety
- 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



Rock grinder on crane mat; post-incident

Excavator boom lifting log

EE's boot with rock grinder contact marks

GLX-C Construction Update – Station Design

Union Square Station

GLX GLX CONSTRUCTORS

STATION AREA LOOKING FROM PROSPECT STREET

- **Design: 100% complete (as of October 2019)**
- At grade entrance off Prospect Street/Bennett Court
- Additive canopy over station platform
- Emergency egress pathway to Allen Street
- Two Customer Assistance Areas on the station platform, with an emergency call box
- Two transformers at the station may emit a light hum to passersby
- Ped/bike access coordinated with developer
- Nearby buses include: 91, 85, CT2, 87 & 86
- Sidewalk: 10+ feet wide
- Station will be a catalyst for residential and business growth in this revitalized area
- Walking distance to Lincoln Park, Argenziano School, Market Basket, Target

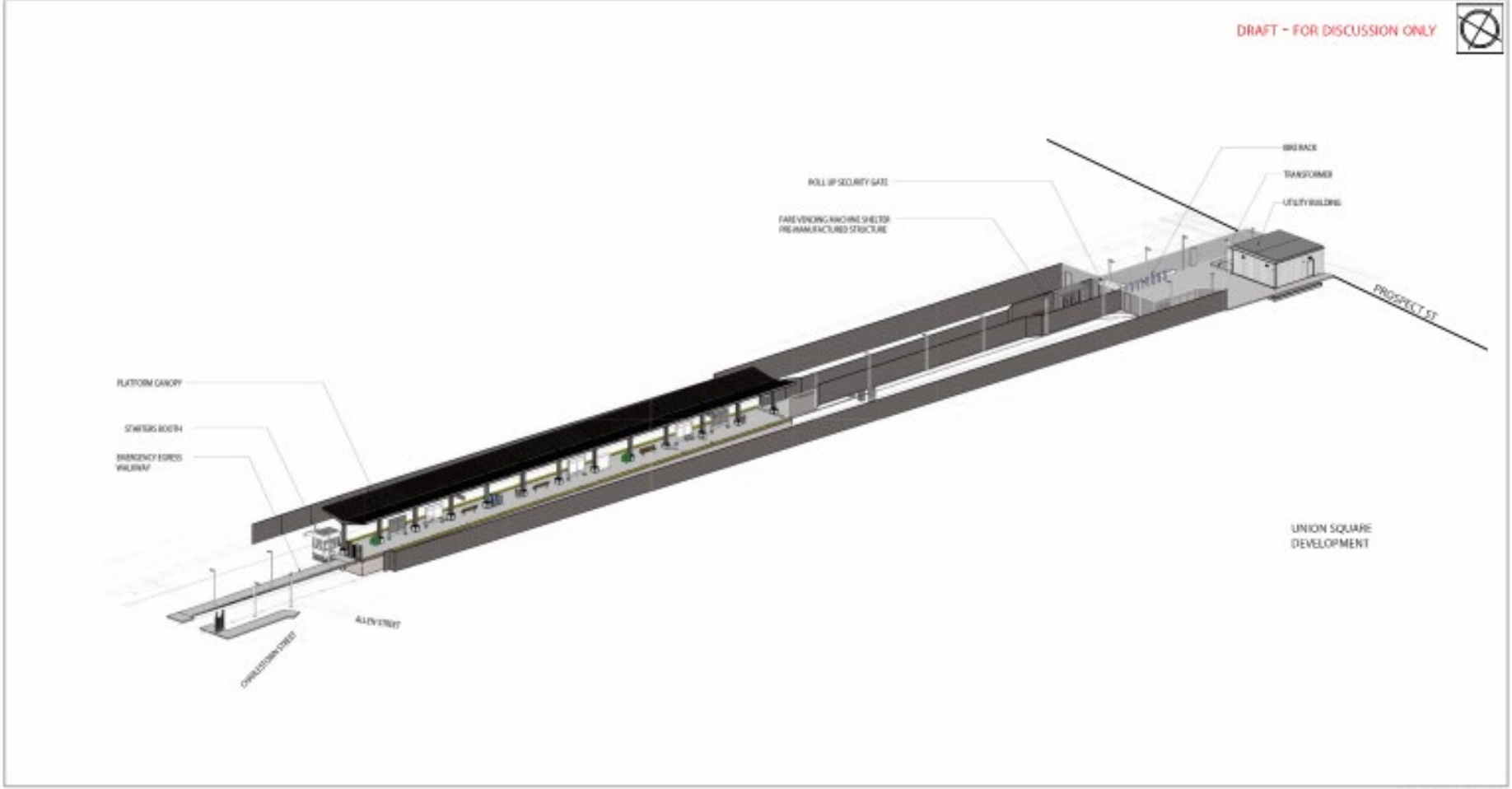
Number of Benches	Bike Storage Covered	Bike Storage Uncovered	Width/Length of Platform	Three-Sided Shelter	Pick-up/Drop-off
5	86 (Provided by US2)	34	20'x225'	X	X

November 2019

Union Square Station

GLX GLX CONSTRUCTORS

AXONOMETRIC

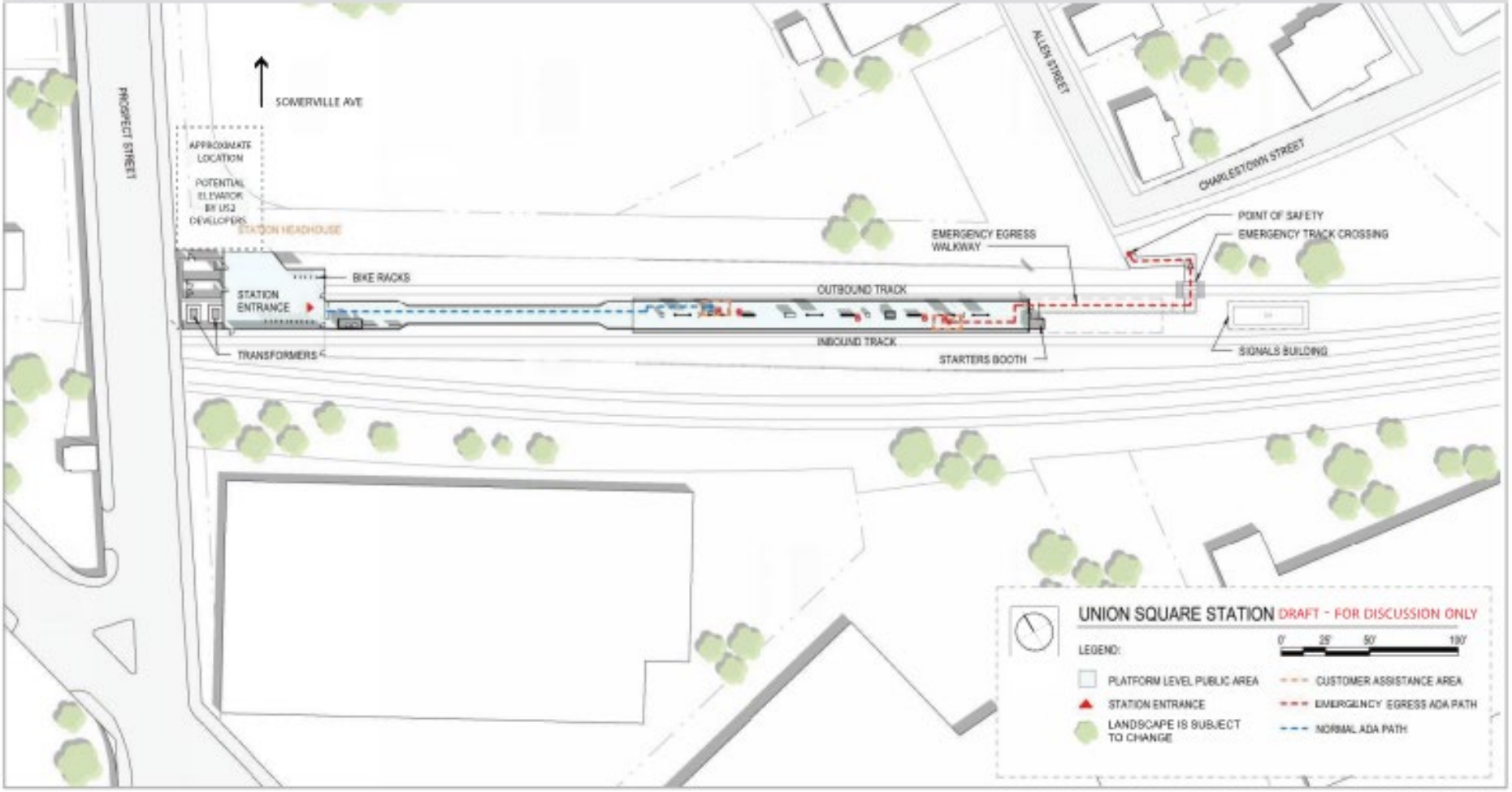


November 2019

Union Square Station

GLX GLX CONSTRUCTORS

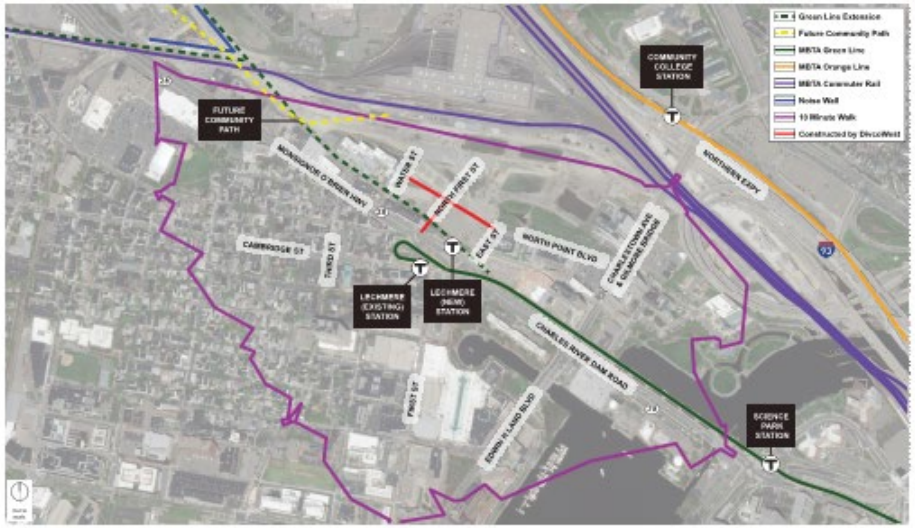
SITE PLAN



November 2019

Lechmere Station

GLX GLX CONSTRUCTORS



• Design: 100% complete (as of October 2019)

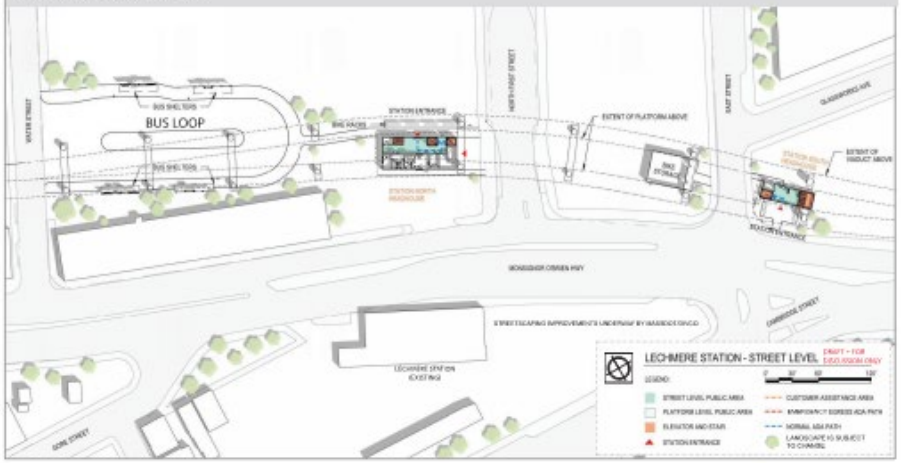
- Lechmere Station will be relocated to the north side of Monsignor O'Brien Highway in order to align the station with the remainder of the Green Line Extension. The new station will have two Headhouses, with one entrance at North First Street (Cambridge Crossing Street Network), and one entrance at East St.
- Station entrances feature two fare vending machines. In addition, the bus loop also has four more fare vending machines, two on each side
- Additive canopy over station platform
- Two Customer Assistance Areas on the station platform, with an emergency call box. Additional call box located at the Areas of Rescue Assistance in the headhouse
- New bus loop designed with three-sided bus shelters to service bus routes: 69 ,87, 88, & 80
- Sidewalks: 10 feet wide
- In order to develop Cambridge Crossing, DivcoWest (the project developer) is required to upgrade Msgr. O'Brien Highway from Land Boulevard to Third Street in cooperation with the City of Cambridge and MassDOT
- New location provides greater access and options to this rapidly expanding area
- Access to CambridgeSide Galleria, Lechmere Canal Park, North Point Common and North Point Park

Number of Benches	Bike Storage Covered	Bike Storage Uncovered	Width/Length of Platform	Three-Sided Shelter	Pick-up/Drop-off
8	182	72	32'-35'x355'	(bus loop)	

Lechmere Station

GLX GLX CONSTRUCTORS

SITE PLAN - STREET LEVEL



SITE PLAN - PLATFORM LEVEL

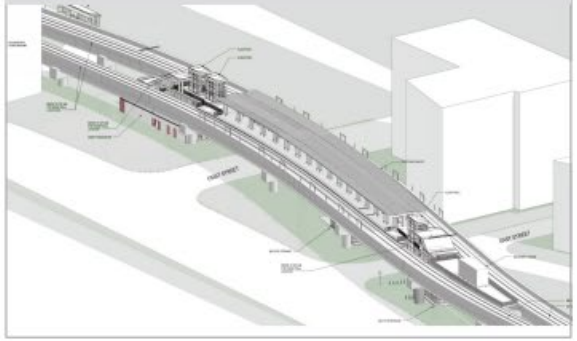
Lechmere Station

GLX GLX CONSTRUCTORS

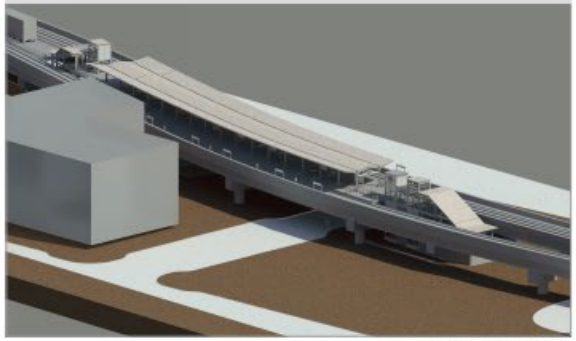
AXONOMETRIC

RENDERING

NEW STATION FROM O'BRIEN HIGHWAY



LECHMERE BUSWAY



November 2019

East Somerville Station

GLX GLX CONSTRUCTORS

STATION AREA LOOKING NORTHWEST FROM INNER BELT ROAD

- **Design: 95% complete (as of October 2019)**
- Station entrance is accessed from Washington Street Access Path adjacent to the Community Path
- Station entrance features two fare vending machines
- Additive canopy over station platform
- Emergency egress walkway to emergency track crossing to Community Path
- Two Customer Assistance Areas on the station platform, with an emergency call box
- Access path: 10 feet wide
- Nearby buses include: 86, 91 & CT-2
- Station services extremely active business and residential hub
- Walking distance to Cobble Hill Apartments, Capuano Early Childhood Center and Target
- Dedicated bicycle lanes on Washington Street

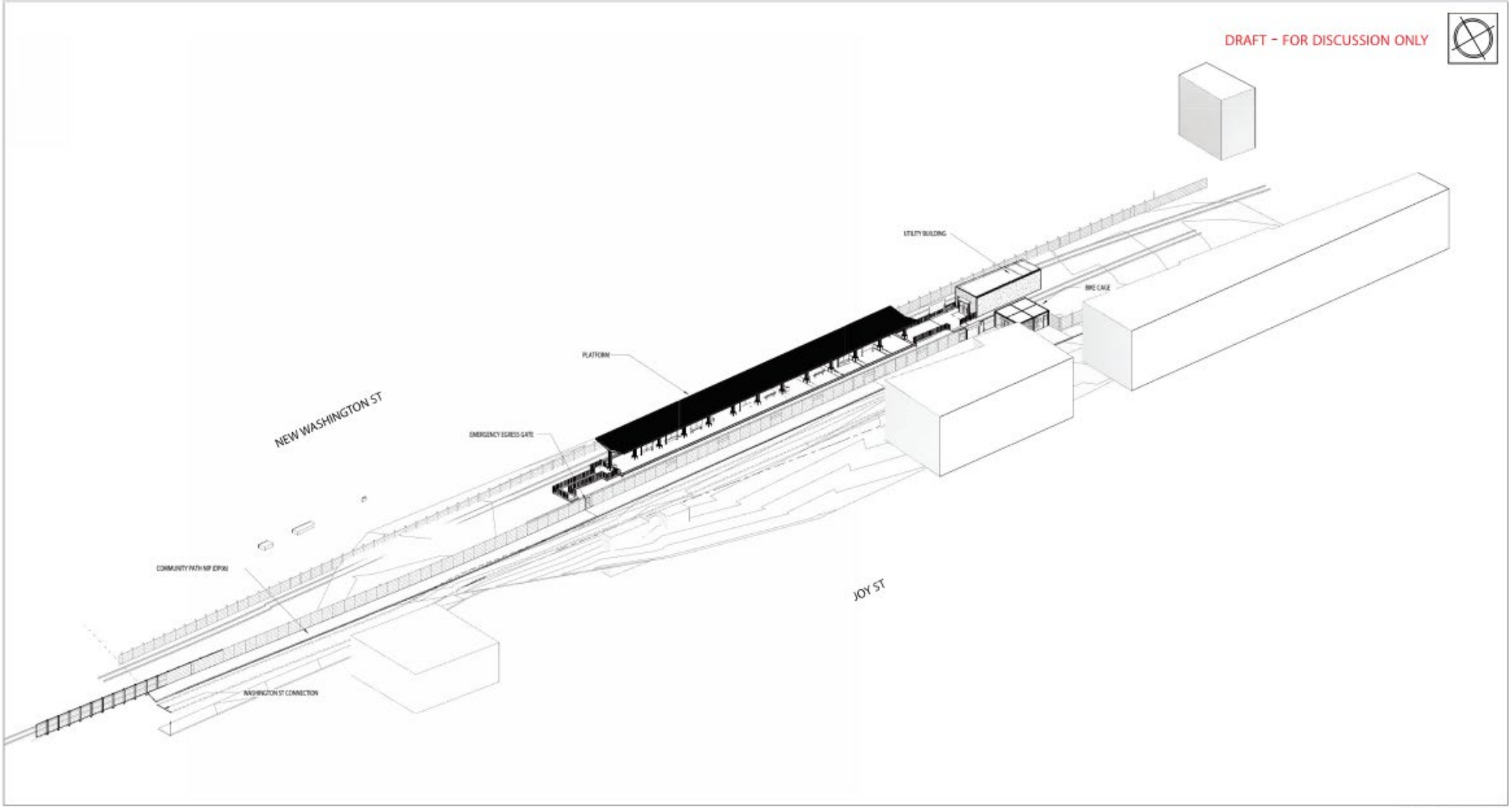
Number of Benches	Bike Storage Covered	Bike Storage Uncovered	Width/Length of Platform	Three-Sided Shelter	Pick-up/Drop-off
5	52	20	20'x225'	X	X

November 2019

East Somerville Station

GLX GLX CONSTRUCTORS

AXONOMETRIC

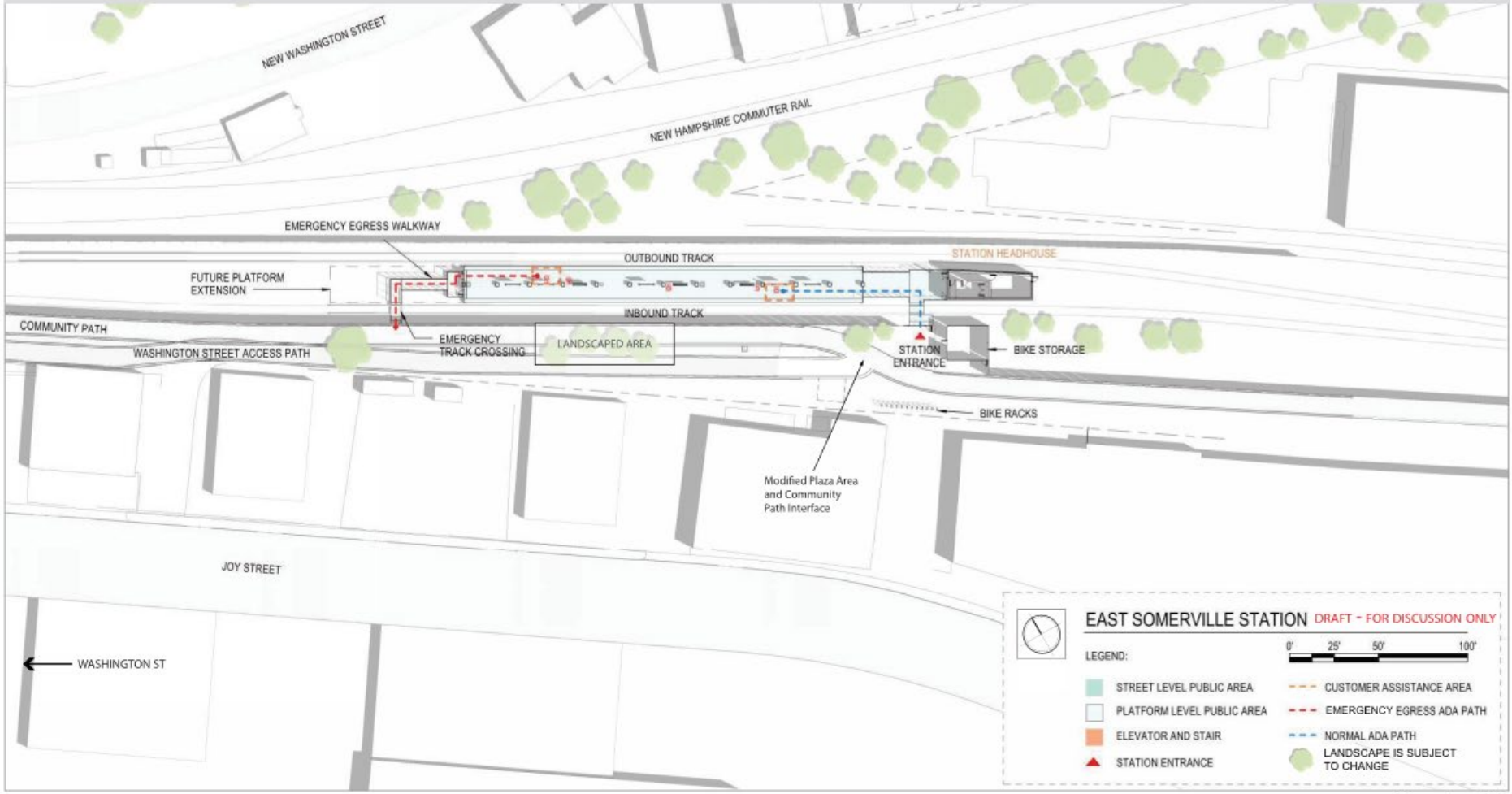


November 2019

East Somerville Station

GLX GLX CONSTRUCTORS

SITE PLAN



November 2019

Gilman Square Station

GLX GLX CONSTRUCTORS

STATION AREA FACING SOUTH WITH SOMERVILLE HIGH SCHOOL CONSTRUCTION IN THE BACKGROUND

- **Design: 100% complete (as of October 2019)**
- School Street and Medford Street entrances near Medford Street feature stairs and elevators
- Station entrances each have two fare vending machines
- Additive canopy over station platform
- Includes a Traction Power Substation
- Two Customer Assistance Areas on the station platform, with an emergency call box
- Additional call box located at the Areas of Rescue Assistance in both the headhouses
- Sidewalk: 10 feet wide
- Community Path and bicycle friendly roads near station
- Nearby buses include: 90, 88 & 80
- Station adjacent to high school, City Hall, public library and close to several senior care facilities. Easy access to businesses along Highland Ave.
- Walking distance to Winter Hill Community School, YMCA and Central Hill Playground

Number of Benches	Bike Storage Covered	Bike Storage Uncovered	Width/Length of Platform	Three-Sided Shelter	Pick-up/Drop-off
7	100	40	20'x225'	X	X

Gilman Square Station

GLX GLX CONSTRUCTORS

AXONOMETRIC

HEADHOUSE AT HIGH SCHOOL

PLATFORM LEVEL

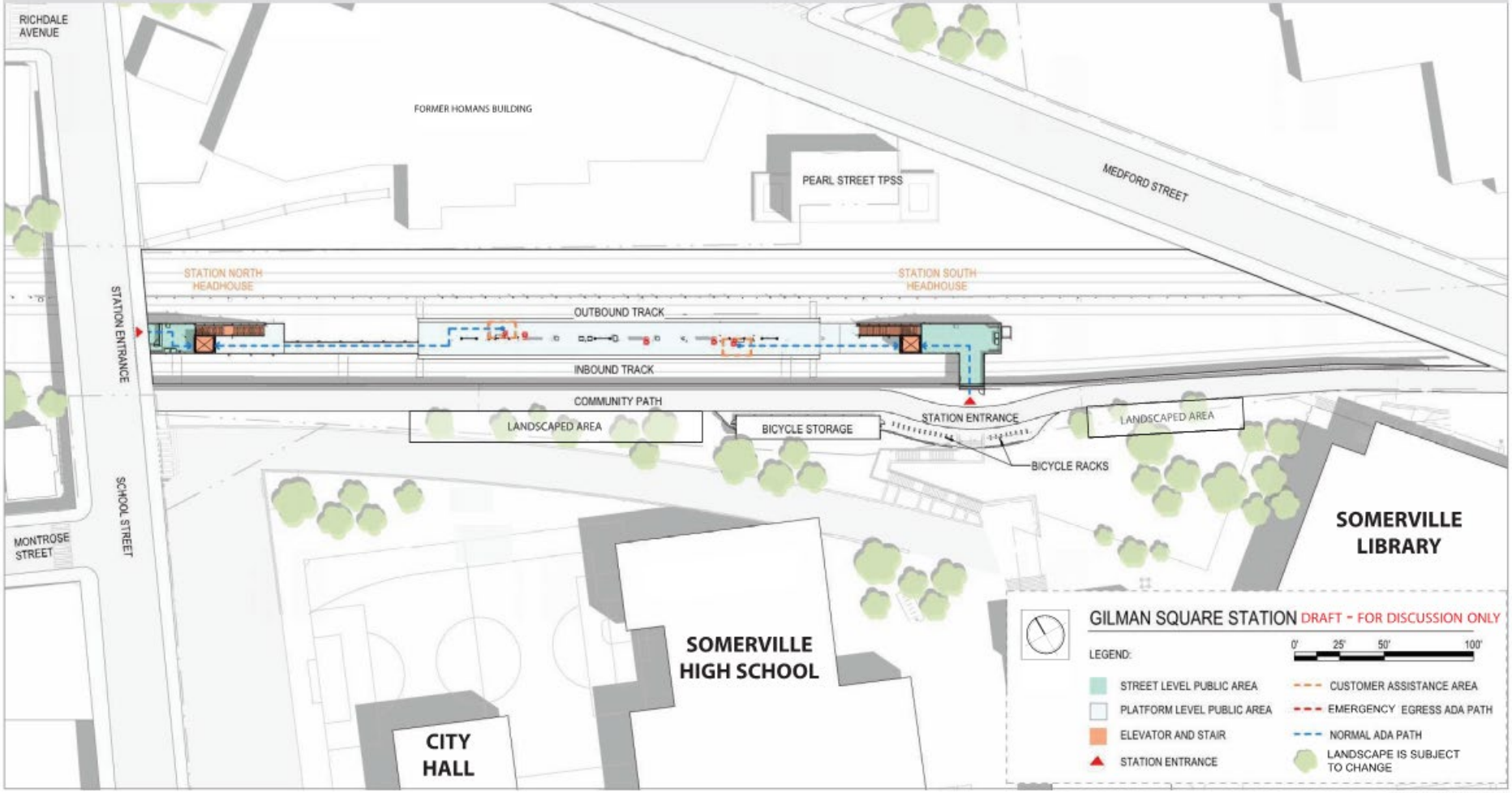
SCHOOL STREET ENTRANCE

November 2019

Gilman Square Station

GLX GLX CONSTRUCTORS

SITE PLAN



November 2019

Magoun Square Station

GLX GLX CONSTRUCTORS

STATION AREA LOOKING NORTHWEST FROM LOWELL STREET BRIDGE

- **Design: 80% complete (as of October 2019)**
- Elevated walkway from Lowell Street to station headhouse
- Station entrances feature two fare vending machines
- Additive canopy over station platform
- Two Customer Assistance Areas on the station platform, with an emergency call box
- Additional call box located at the Areas of Rescue Assistance in the headhouse
- Improved neighborhood mobility with new transportation option
- Sidewalks: 6-10 feet wide
- Connection to existing Community Path via Lowell Street Bridge
- Station close to numerous apartments and condominiums. Albion Playground and Hoyt Sullivan Playground is just a block away

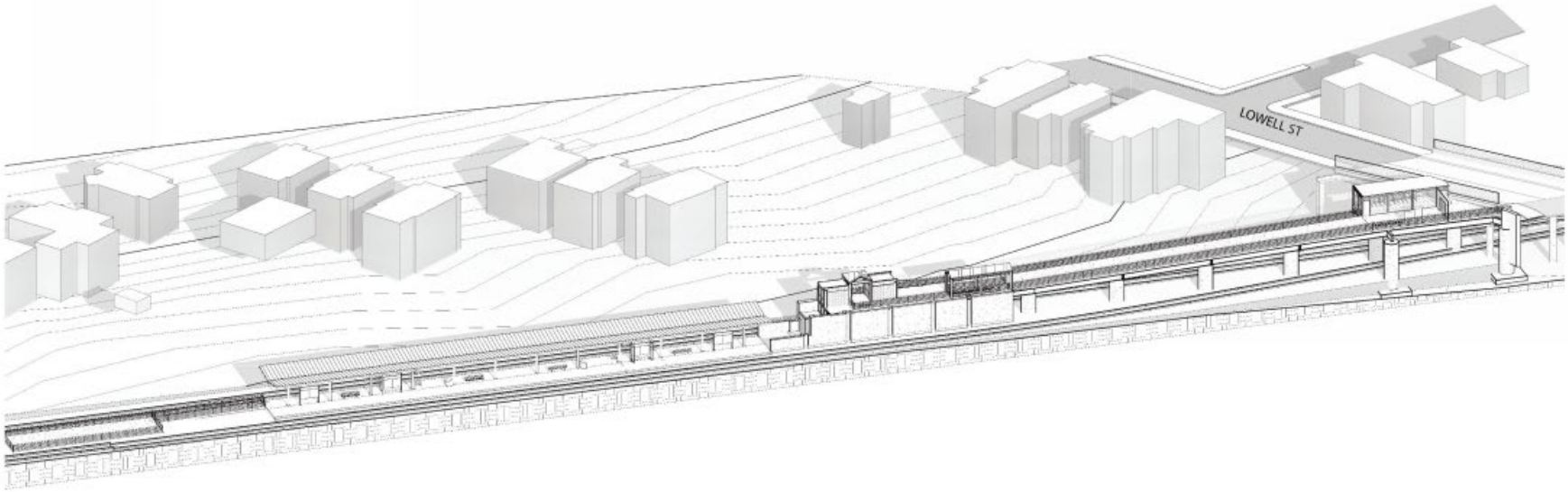
Number of Benches	Bike Storage Covered	Bike Storage Uncovered	Width/Length of Platform	Three-Sided Shelter	Pick-up/Drop-off
5	36	16	22.5'x225'	X	X

Magoun Square Station

GLX GLX CONSTRUCTORS

AXONOMETRIC

DRAFT - FOR DISCUSSION ONLY



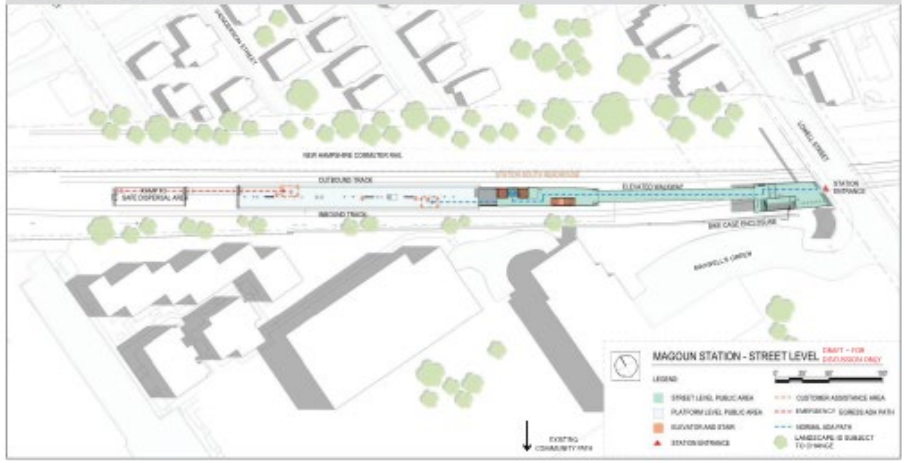
MAXWELL'S
GREEN

November 2019

GLX GLX CONSTRUCTORS

SITE PLAN - PLATFORM LEVEL

SITE PLAN - STREET LEVEL



Ball Square Station

GLX GLX CONSTRUCTORS

STATION AREA LOOKING NORTHWEST FROM BROADWAY

- **Design: 95% complete (as of October 2019)**
- At-grade entrance at Boston Avenue and stairs/elevator access at Broadway Bridge Station entrances each have two fare vending machines
- Additive canopy over station platform
- Includes a traction power substation. Two transformers at the station may emit a light hum to passersby
- Emergency egress walkway to Boston Avenue
- Two Customer Assistance Areas on the station platform, with an emergency call box
- Additional call box located at the Areas of Rescue Assistance in the headhouse
- Sidewalks: 10 feet wide
- Nearby buses include: 89 & 90
- Easy access to area businesses, Trum Field and Benjamin G. Brown School
- Opportunity for future Transit Oriented Development (TOD) development parcels to be dispersed from MBTA

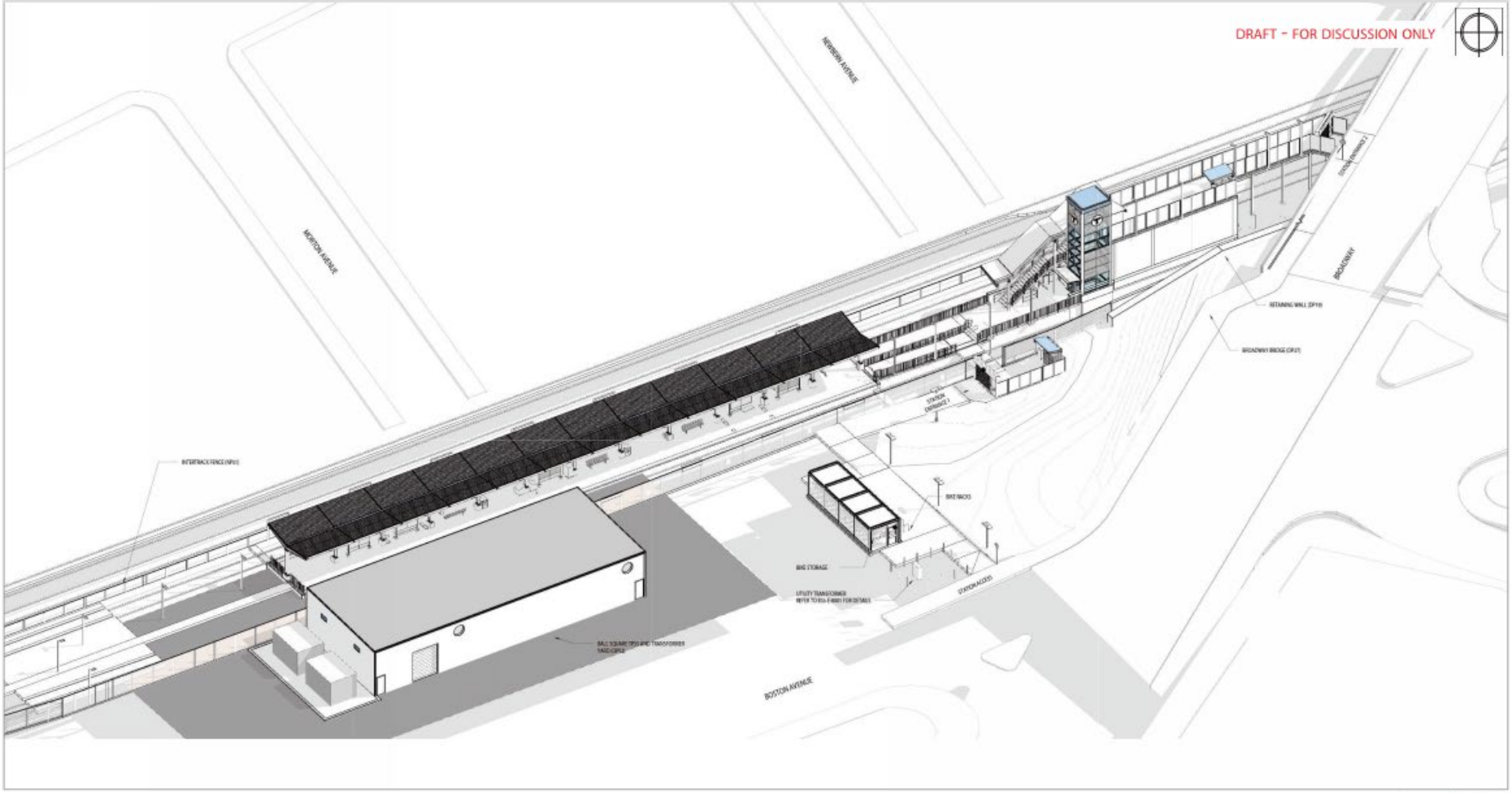
Number of Benches	Bike Storage Covered	Bike Storage Uncovered	Width/Length of Platform	Three-Sided Shelter	Pick-up/Drop-off
7	50	20	22'x225'	X	X

November 2019

Ball Square Station

GLX GLX CONSTRUCTORS

AXONOMETRIC

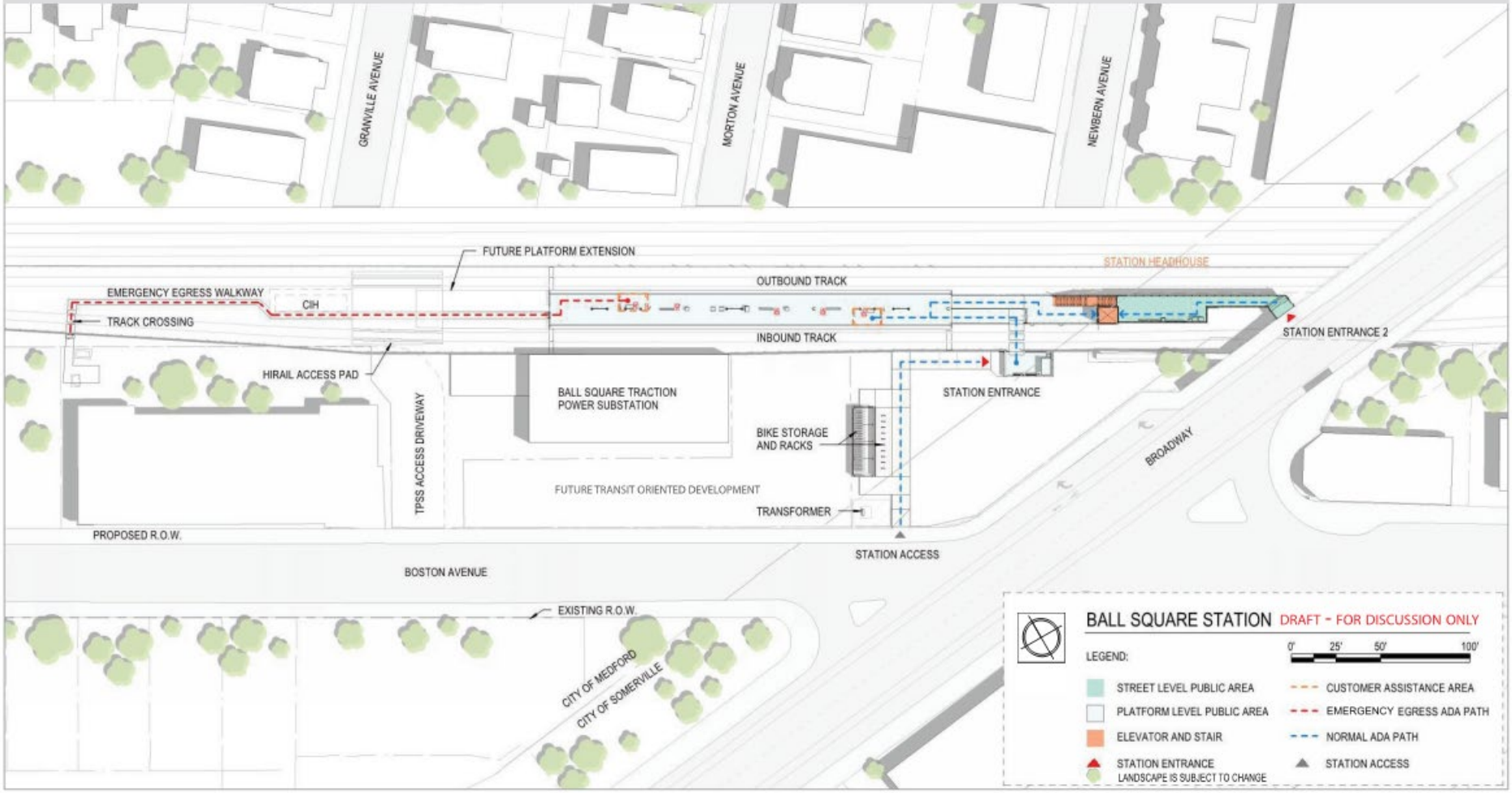


November 2019

Ball Square Station

GLX GLX CONSTRUCTORS

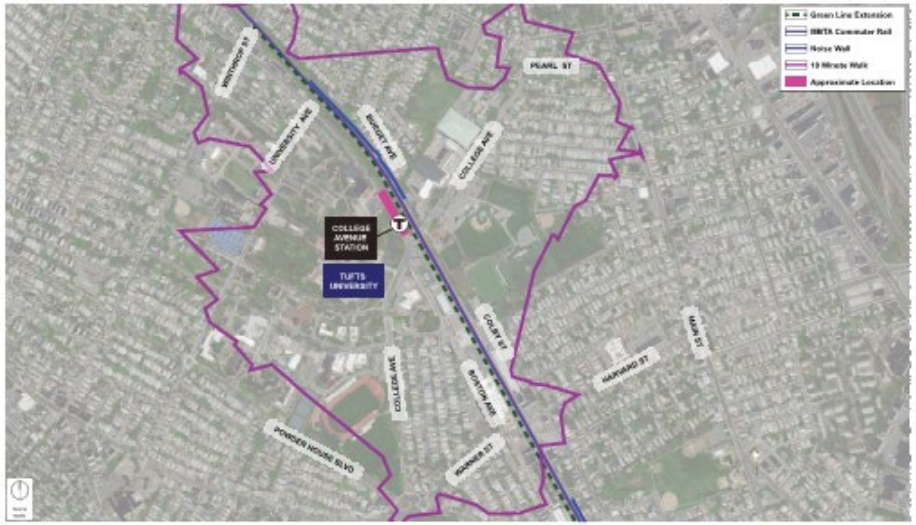
SITE PLAN



November 2019

College Avenue Station

GLX GLX CONSTRUCTORS



STATION AREA LOOKING NORTHWEST TOWARDS BOSTON AVENUE

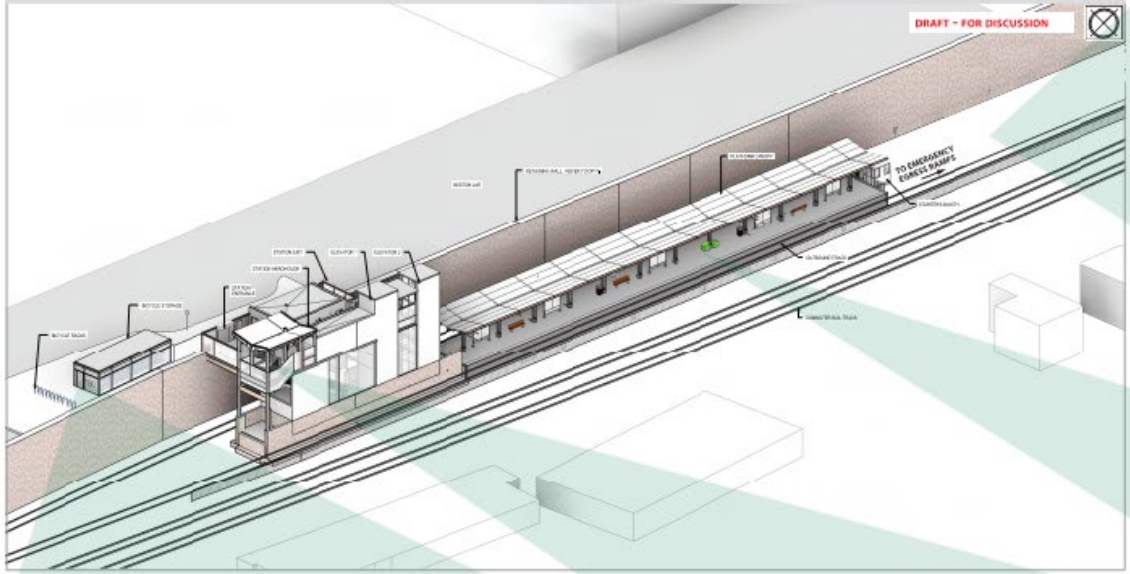
- **Design: 95% complete (as of Oct. 2019)**
- Entrance off Boston Avenue with (2) elevators and stairs and two fare vending machines
- Additive canopy over station platform
- Two Customer Assistance Areas on the station platform, with an emergency call box
- Additional call box located at the Areas of Rescue Assistance in the headhouse
- The station includes a small drop-off area for The Ride.
- Nearby buses include: 96, 94 & 80
- Sidewalks: 4.5-10 feet wide
- Services South Medford and Tufts University

Number of Benches	Bike Storage Covered	Bike Storage Uncovered	Width/Length of Platform	Three-Sided Shelter	Pick-up/Drop-off
5	50	20	22.5'x225'	X	The Ride

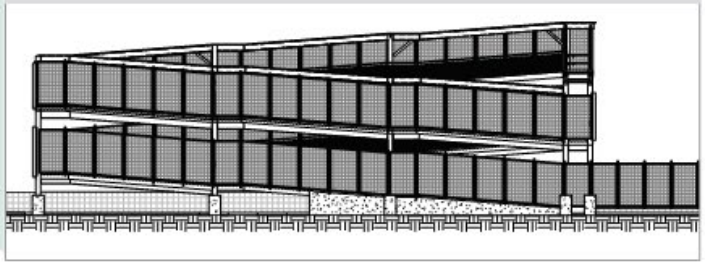
College Avenue Station

GLX CONSTRUCTORS

AXONOMETRIC



RAMPING SYSTEM TO BOSTON AVENUE



ENTRANCE

STATION LOBBY

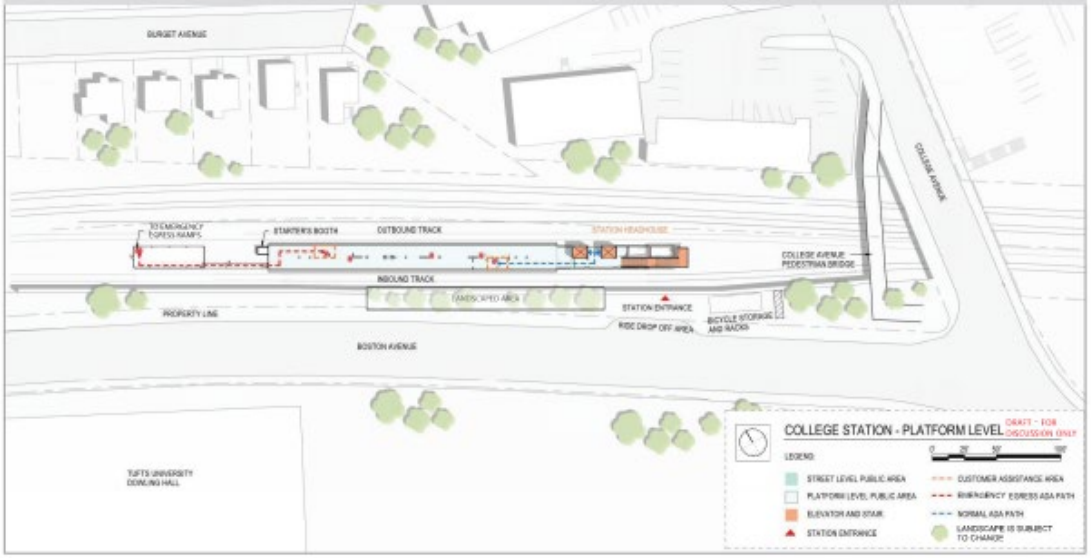
PLATFORM

November 2019

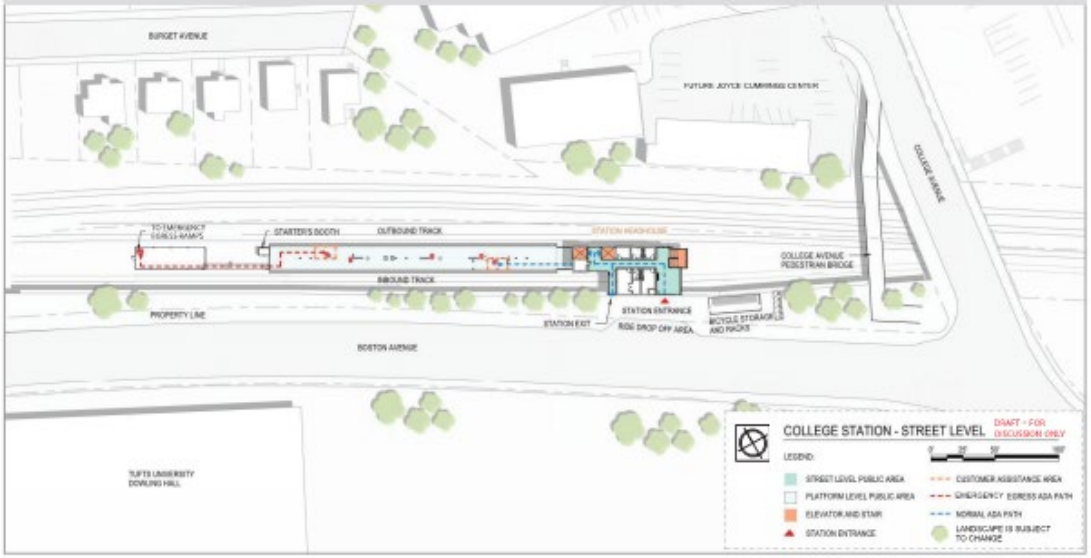
College Avenue Station

GLX GLX CONSTRUCTORS

SITE PLAN - PLATFORM LEVEL



SITE PLAN - STREET LEVEL



GLX-C Construction Update

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
  - “Line 4” – One track out of service
  - Full service outage

Construction Update

Key construction activities through end of 2019 / early 2020

- **Relocate Commuter Rail Track to final position on eastern side of alignment**

- **Prior to track relocation we must**:
  - Complete drainage work including north of Broadway at Granville
  - Complete noise & retaining wall panel placement

- **Vehicle Maintenance Facility**
  - Foundation, underground utilities, retaining wall, and stormwater detention facility

- **Lechmere area/Boston Engine Terminal**
  - Steel in place throughout & deck placement underway
  - Continue construction on new Lechmere station

Construction Update

Track Shift

Central Street looking north

Construction Update

Washington St. Rail Overpass

- First phase of Washington St. Rail Overpass nearly complete
- Next steps include: waterproofing, laying asphalt, ballast and commuter line track
- Demolition of 2nd half of old overpass to begin after track shift

September 2019

October 2019

Construction Update

Medford St. Bridge

- Modification to West Abutment underway.

Construction Update

Broadway Bridge

- Drainage, wall construction and bridge construction continues
- Frequent weekend and night work based on track shutdowns

Construction Update

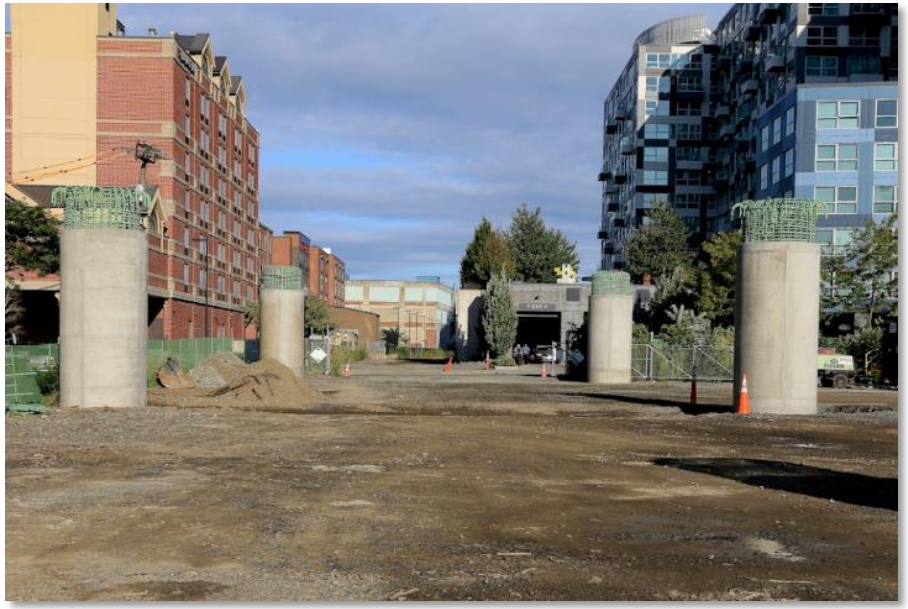
Vehicle Maintenance Facility

- Retaining wall work and drainage installation continues
- Foundation work on VMF and Transportation Building starting

Construction Update

Lechmere Area

- Both drilling crews working between BET area and Water St.
- Actively pouring concrete columns and pier caps for viaduct and Community Path



September 2019

October 2019

Construction Update

Noise & Retaining Walls

Retaining Wall Panel Placement

- Retaining wall panel placement began between McGrath Hwy and Walnut St. in early October

Construction Update

Noise & Retaining Walls

Retaining Wall Panel Placement

- Retaining wall panel placement north of College Ave.

Construction Update

Noise & Retaining Walls – Drainage

Between School St. – Central

- 60” storm drain placement advancing to Sycamore as we excavate through rock ledge
- Expected to reach Central & tie into new system in December

Construction Update

Noise & Retaining Walls – Drainage

Between College – Winthrop

- Hillside off Boston Ave. has been cleared and will be an access point as retaining wall and station construction moves forward on west side.

Outreach

GLX Hotline and Response to Comments/Requests

- 920 Inquiries thru Hotline, e-mail or direct contact with outreach staff (as of Oct. 31)
- 864 actions closed out.

Outreach

GLX Community Connection Team

- Thanksgiving Food Drive for Project Soup in Somerville

Somerville Homeless Coalition 5K Detour Run on Oct. 6

Discussion

Q & A