



# **D Branch Station Accessibility Improvements** ***Waban, Eliot, Chestnut Hill, Beaconsfield***

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*Virtual Public Meeting*

Thursday, April 29, 2021

# **SAFETY** MOMENT

*Everyone 16 years of age and older is now eligible to get a **COVID-19** vaccination*

*Ride Safer*





# Station Accessibility Improvements

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## GLT Program Vision & Goals



## Our Goal



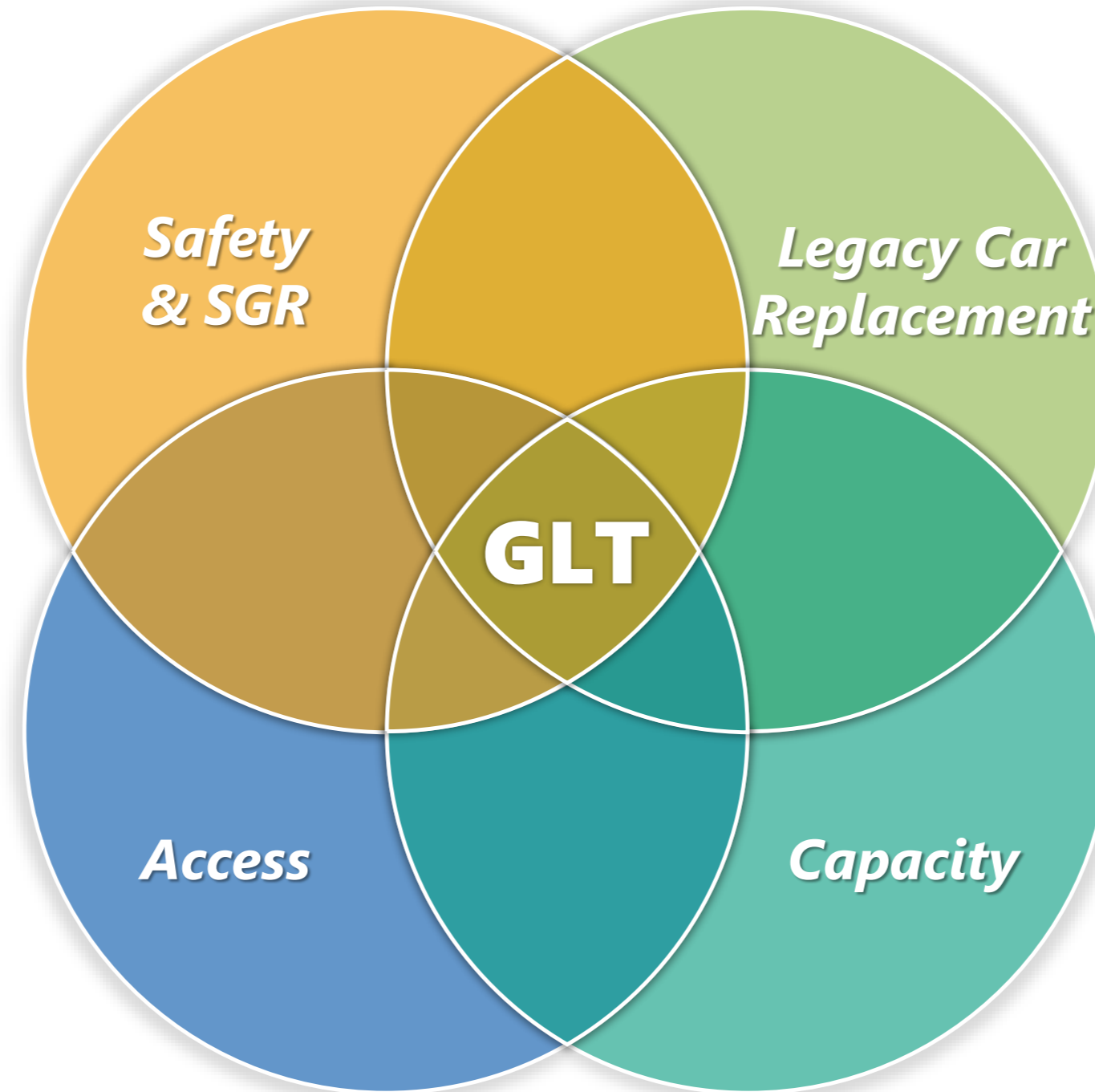
Improve the Green Line **quality of service**, including increased capacity and **enhanced accessibility**, through fleet modernization, **infrastructure/facility upgrades** and state-of-the-art technology

# Levels of Transformation

## *Achieving Multiple Goals*

<b>Level 0</b>	<b>Safety &amp; State of Good Repair (SGR)</b>
<ul style="list-style-type: none"> <li>• Minimize risk of service disruptions</li> <li>• Reduce speed restrictions</li> <li>• Bring assets to state of good repair</li> </ul>	

<b>Level 1</b>	<b>Accessible Stations</b>
<ul style="list-style-type: none"> <li>• New or upgraded platforms</li> <li>• Compliant height, width &amp; slope</li> <li>• Barrier-free pathways &amp; wayfinding</li> <li>• Detectable warning panels</li> </ul>	



<b>Level 2</b>	<b>Legacy Car Replacement</b>
<p>Operate and maintain single Type 10s</p> <ul style="list-style-type: none"> <li>• More efficient O&amp;M</li> <li>• 100% of Green Line trains accessible</li> <li>• More equitable across the Green Line</li> </ul>	

<b>Level 3</b>	<b>Increased Capacity</b>
<p>Vehicles and infrastructure for two-car Type 10 operation</p> <ul style="list-style-type: none"> <li>• Increase core capacity of subway</li> <li>• Reduce headways and journey time</li> <li>• Expand yards and facilities</li> </ul>	



## Level 0

Executed significant **Safety & State of Good Repair** improvements during construction in **2019 & 2020:**

- ✓ Replaced about **57,000 ft of track across all branches**
- ✓ Replaced **10 units of special trackwork** on the D and C Branches
- ✓ Installed **flood protection doors** and gates at Fenway portal

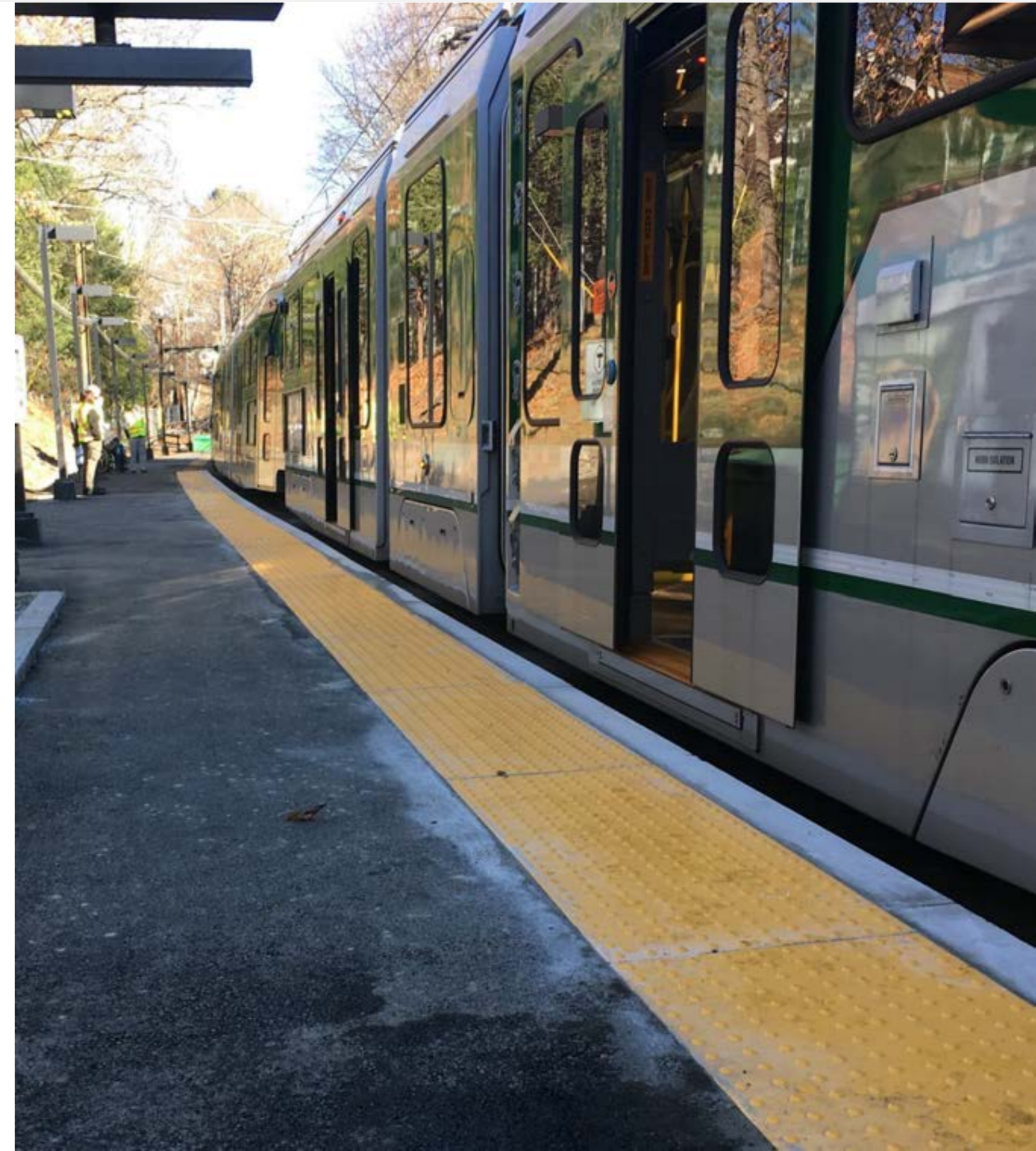


# Green Line Transformation | Accessible Stations



## **Level 1** Accessibility improvements to stations over the next several years

- ✓ **Raise and upgrade platform surfaces**
- ✓ **Barrier-free pathways**
- ✓ Add detectable warning panels
- ✓ Improve wayfinding & signage
- ✓ Improve communications systems
- ✓ Upgrade station amenities (benches, lighting)



# Fleet Overview | Existing Trains

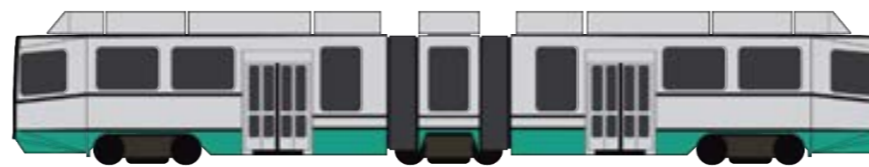
## Type 7: Vehicle Entrance

- No low floor entrances
- Requires mobile lift for accessibility (if available)
- Paired with Type 8



## Type 8: Vehicle Entrance

- Only middle door is low floor
- Bridge plate accessible with operator assistance



## Type 9: Vehicle Entrance

- Only middle door is low floor
- Bridge plate accessible with operator assistance





# Accessibility | Short-term and Long-term Improvements

## Short-term Station Accessibility Improvements

### Under Construction

- B Branch Station Consolidation
- Brookline Hills High School Expansion

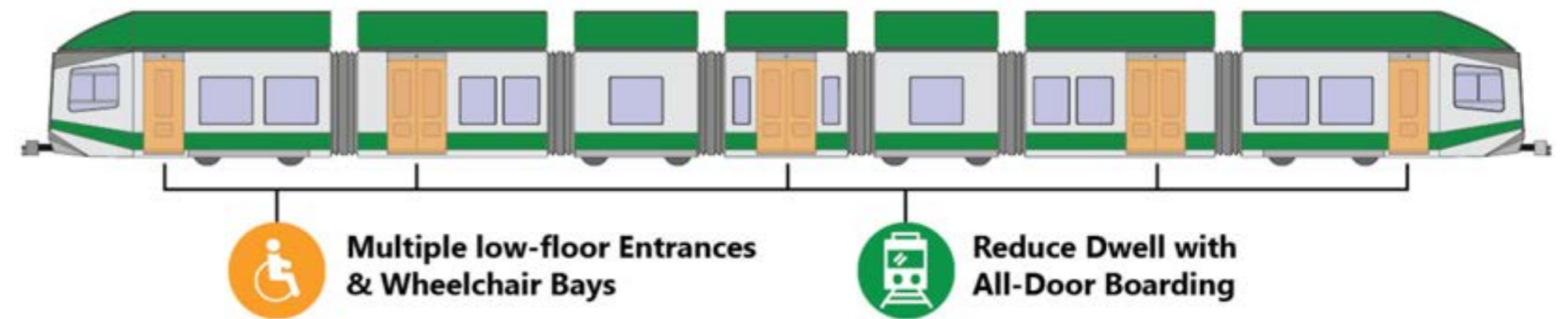
### In Design

- D Branch Station Accessibility Improvements
- Newton Highlands Accessibility Improvements
- Symphony Station Accessibility Improvements
- Hynes Station Accessibility Improvements

### Planning

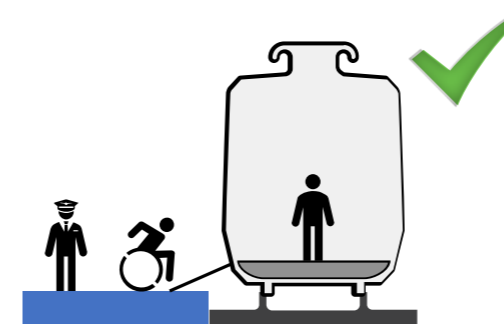
- B and C Branch Interim Station Accessibility Improvements

## Long-term Vehicle & Station Accessibility Improvements



Type 10 Supercar: conceptual rendering

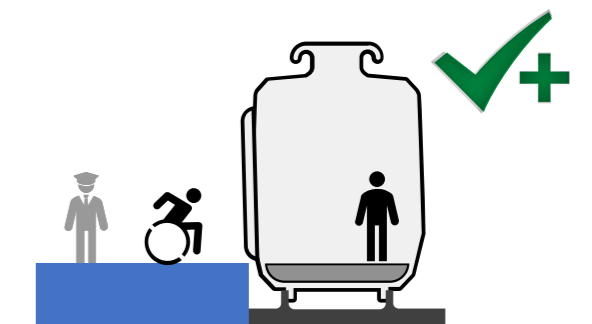
### 8" Raised Platform



#### Extendable Plate (Types 8, 9 & 10)

Accessible **with** assistance and increased dwell time

### 14" Raised Platform



#### Level Boarding (Type 10)

Accessible **without** additional assistance and increased dwell time

## D Branch | Project Overview

Upgrade four (4) D Branch stations **accessibility** by:

- Raising the platform heights to **8 inches above top-of-rail**
- Extending the raised **length to 225 feet**
- Adding **accessible pathways** and **2nd egress** path from each platform
- Increasing **lighting levels** for safety



### ***Project Status:***

- ✓ *Preliminary Design Completed*
- Final Design Start – **Summer 2021***
- Estimated Construction Start – **Fall/Winter 2022***



## Station Accessibility Improvements

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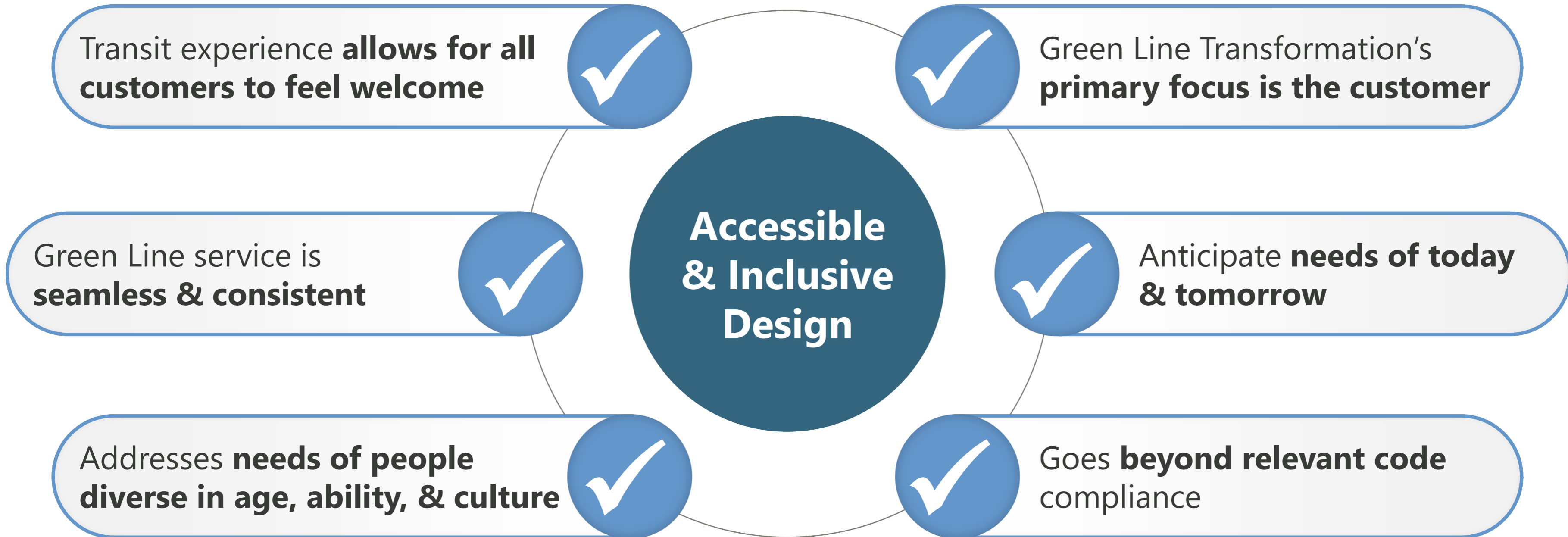
## Accessibility & Design Goals

**25% of Adults**

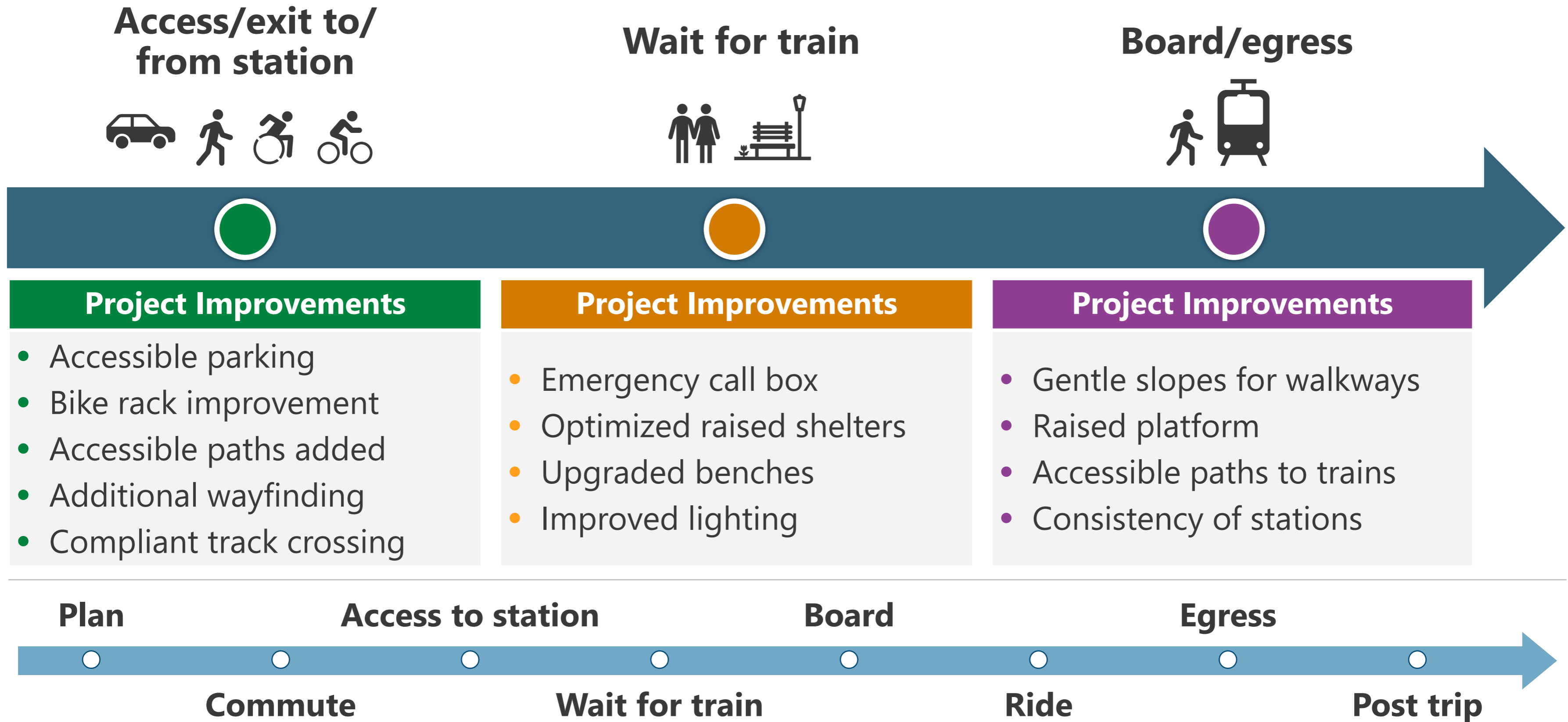
*in the MBTA service area have a disability*



# Design Goals | Holistic Vision for Accessibility & Inclusive Design



# Design Goals | *An accessible and enhanced customer's journey*



# Design Goals | *Design is Customer Centric*



"I find the Green Line platforms difficult to get to with all these poles and trees"

**Declutter pathways**



"I am afraid to fall. Most platforms are cracked and deteriorated"

**Resurface platforms and access paths**



"I never know what to expect and where to expect it: stations **amenities** (shelter, bench, trash...) are **inconsistent**"

**Upgraded benches and lighting, add call boxes**



"All stations are different, and it is sometimes hard/complex to get there"

**Use consistent design principles for all stations**



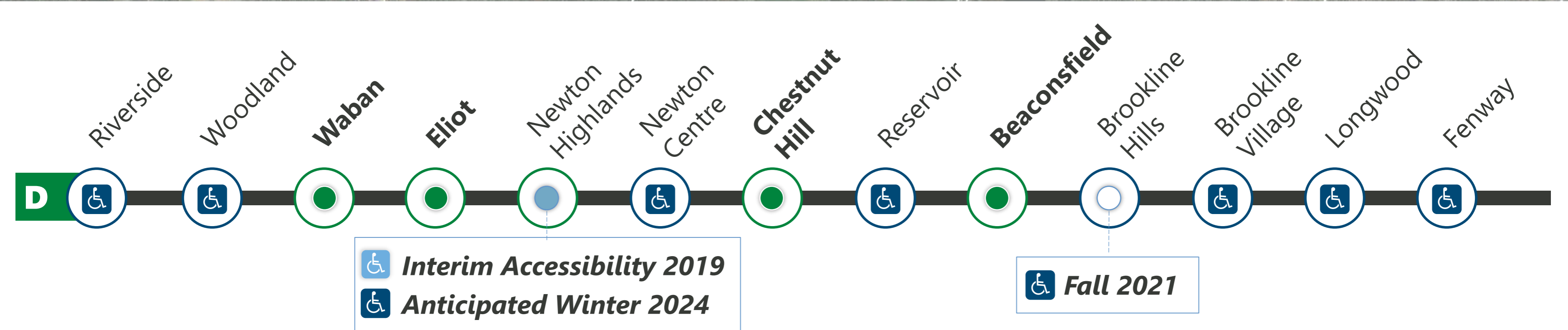
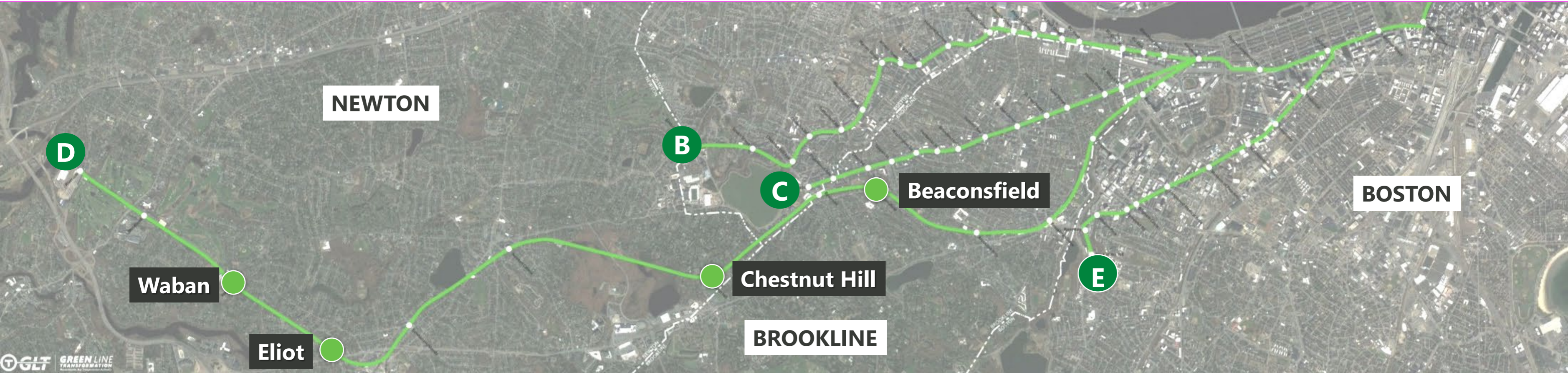
## **Station Accessibility Improvements**

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### **Existing Conditions at Stations**



# D Branch | Project Map





# Project Overview | Existing Conditions



**Eliot station**



**Beaconsfield station**



**Waban station**



**Beaconsfield station**



**Chestnut Hill station**



**Eliot station**



**Eliot station**



**Waban station**



# Station Accessibility Improvements

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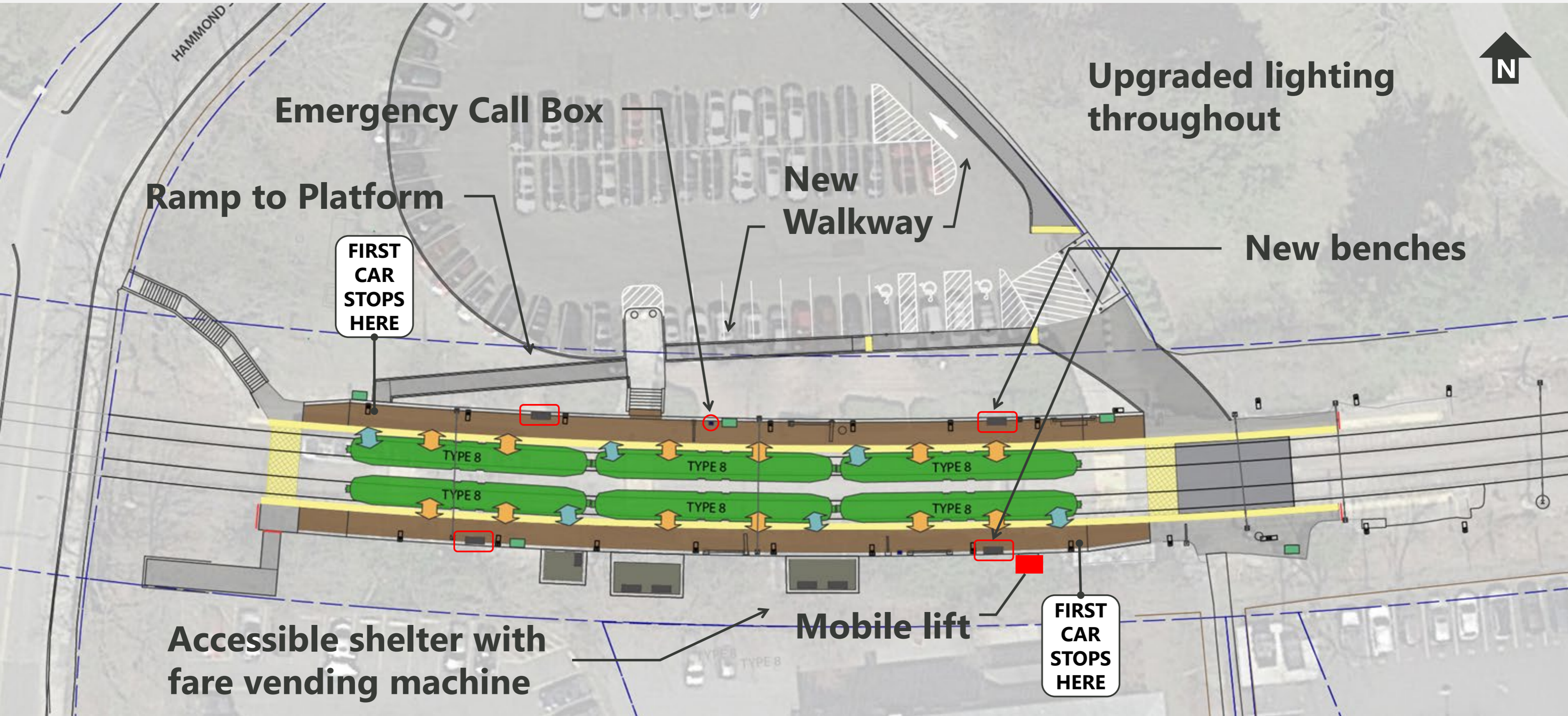
**Preliminary  
Design**



# Chestnut Hill Station | Station Plan



# Chestnut Hill Station | Access and Amenities

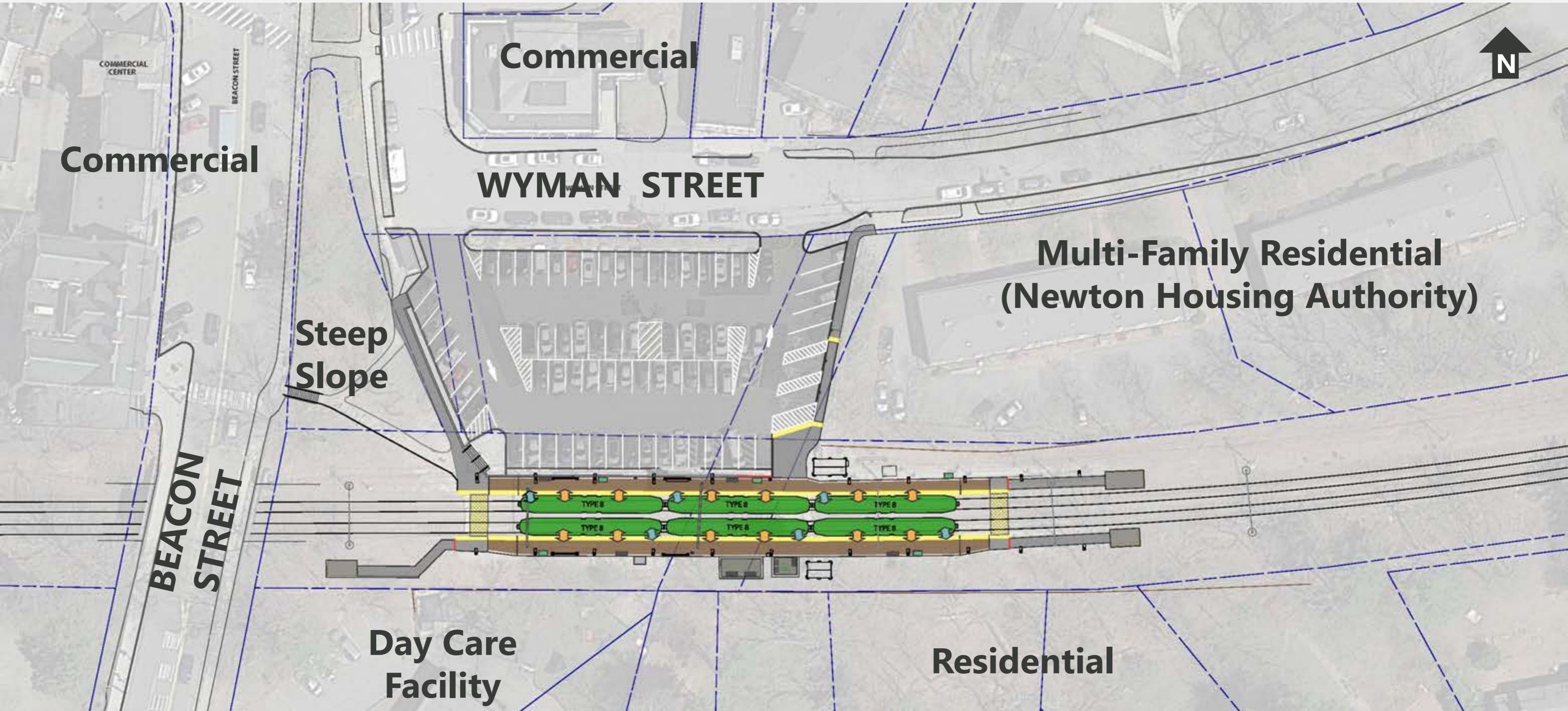




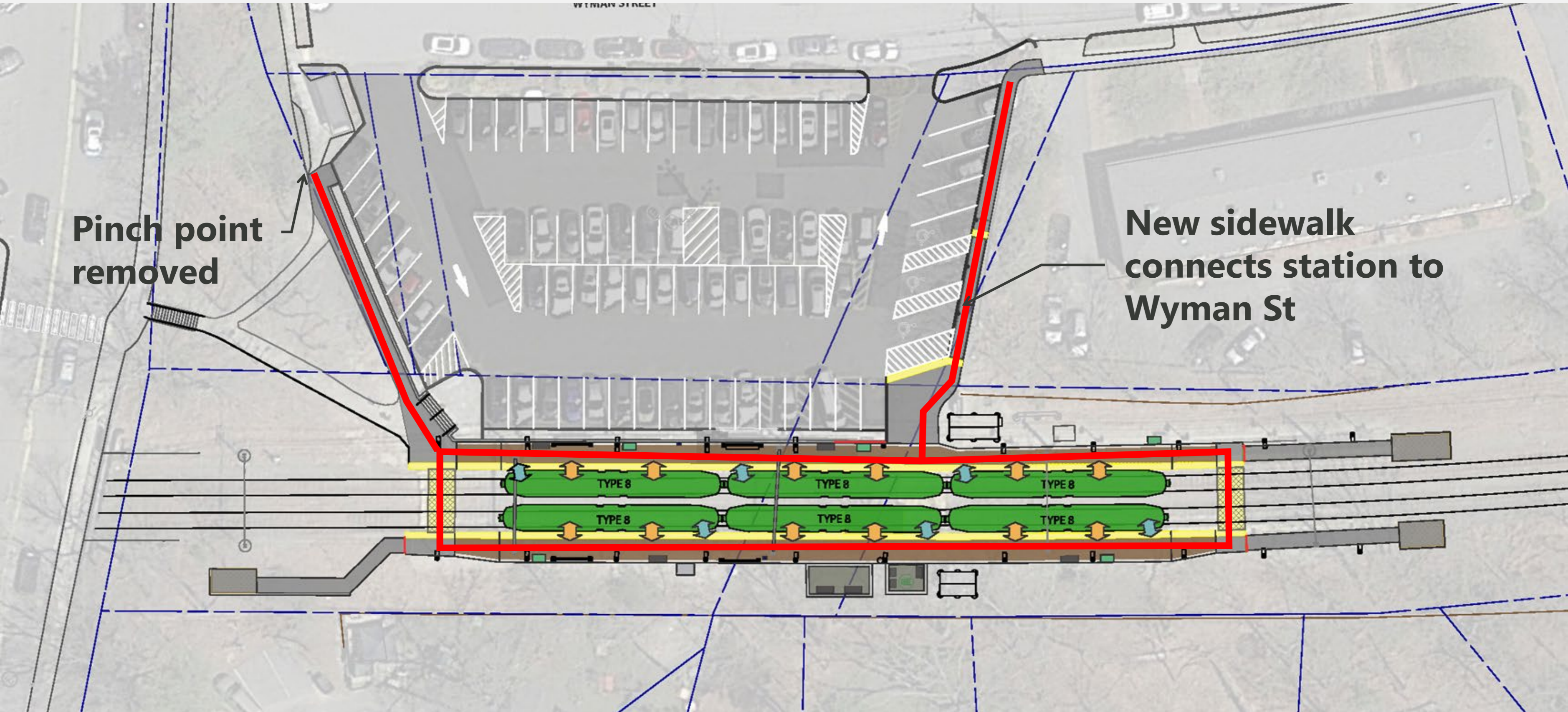
# Waban Station | *Specific Design Considerations*



# Waban Station | Station Plan



# Waban Station | Site Plan – Specific Design Considerations



**Pinch point removed**

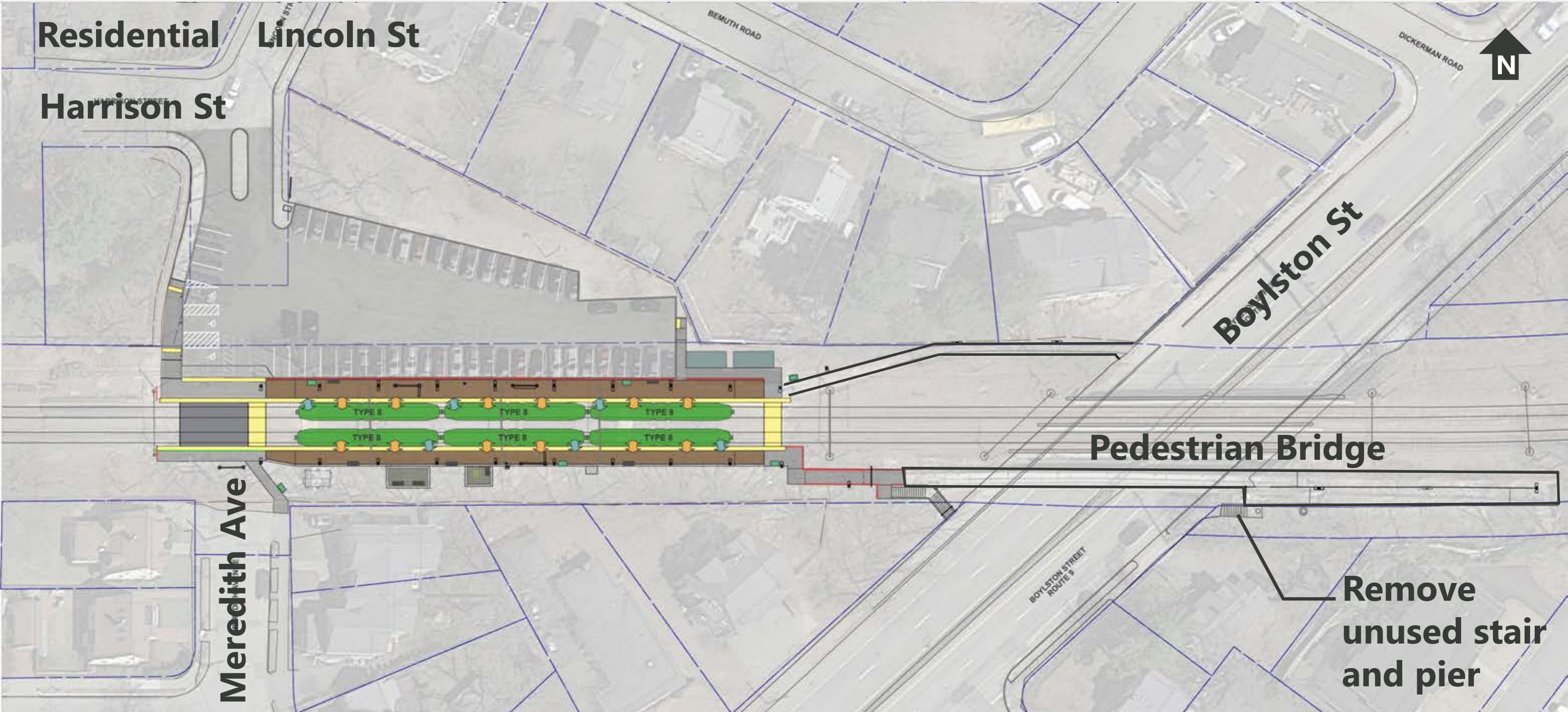
**New sidewalk connects station to Wyman St**



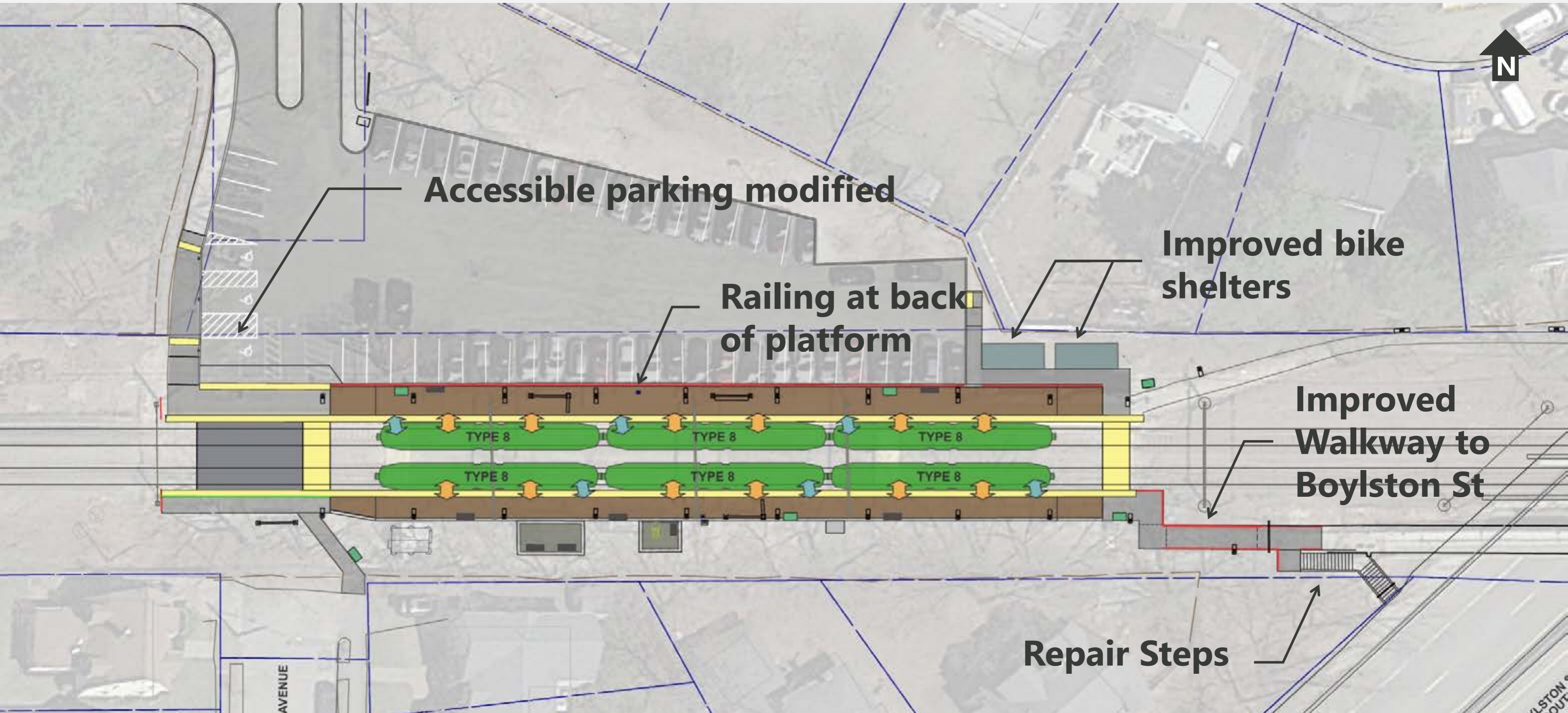
# Eliot Station | *Specific Design Considerations*



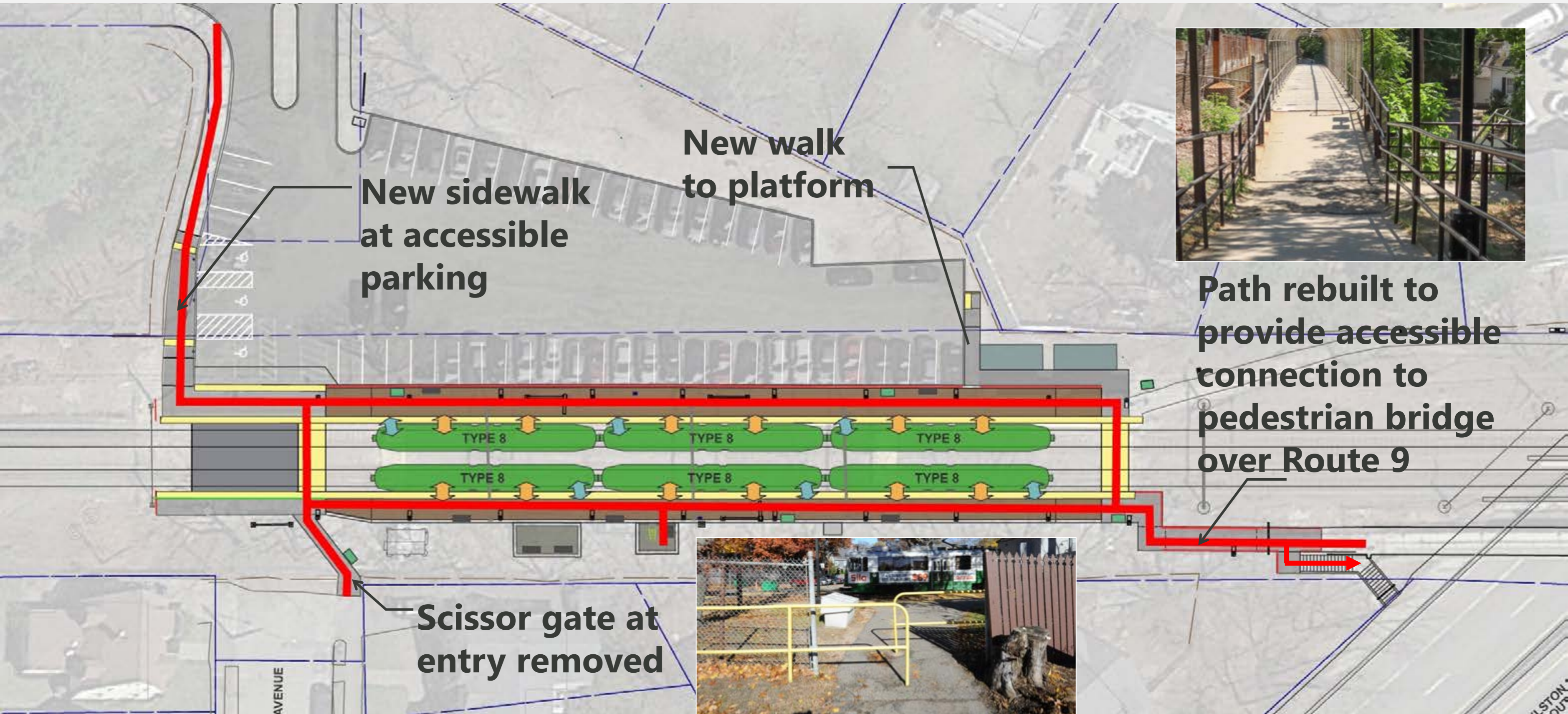
# Eliot Station | Site Plan



# Eliot Station | Station Plan



# Eliot Station | Station Access

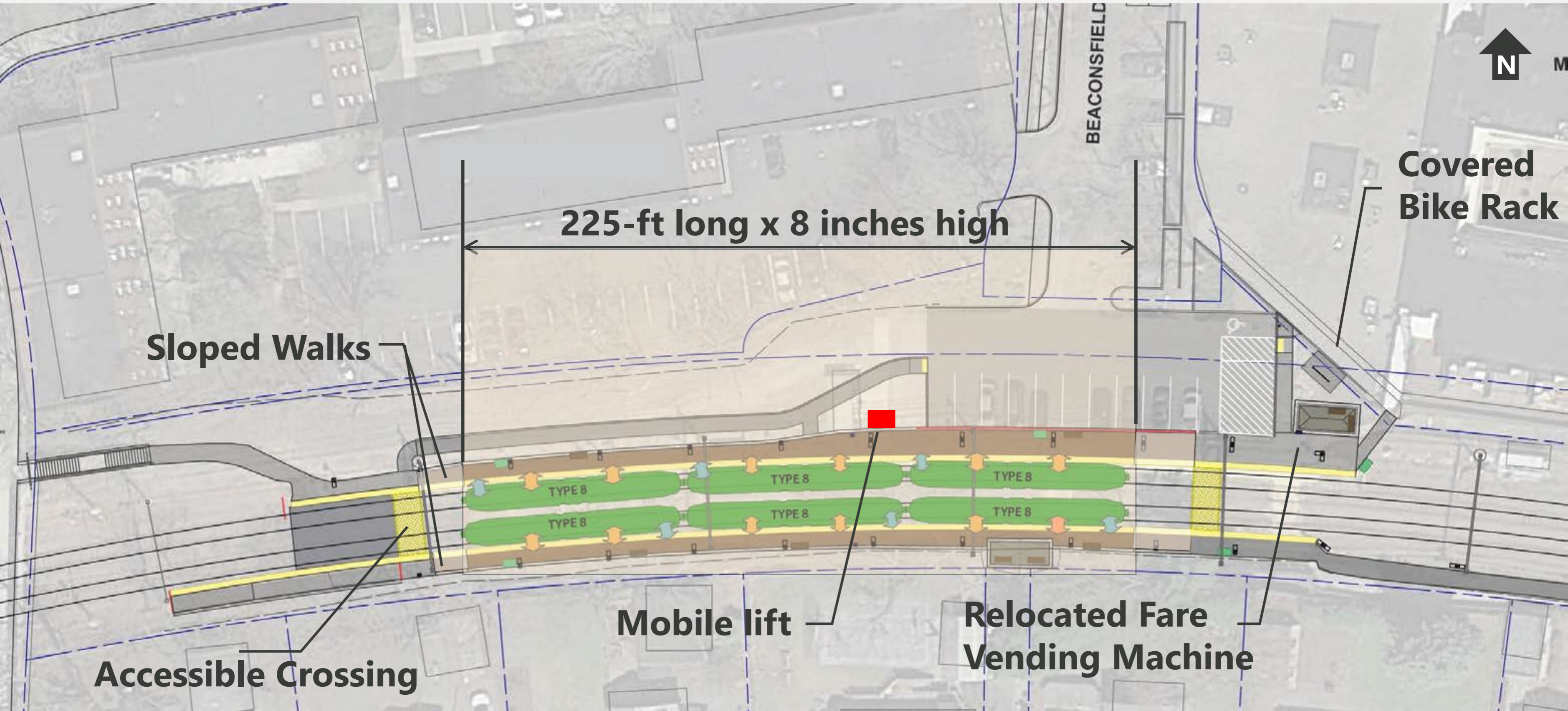


Path rebuilt to provide accessible connection to pedestrian bridge over Route 9



Scissor gate at entry removed

# Beaconsfield Station | Platform Plan

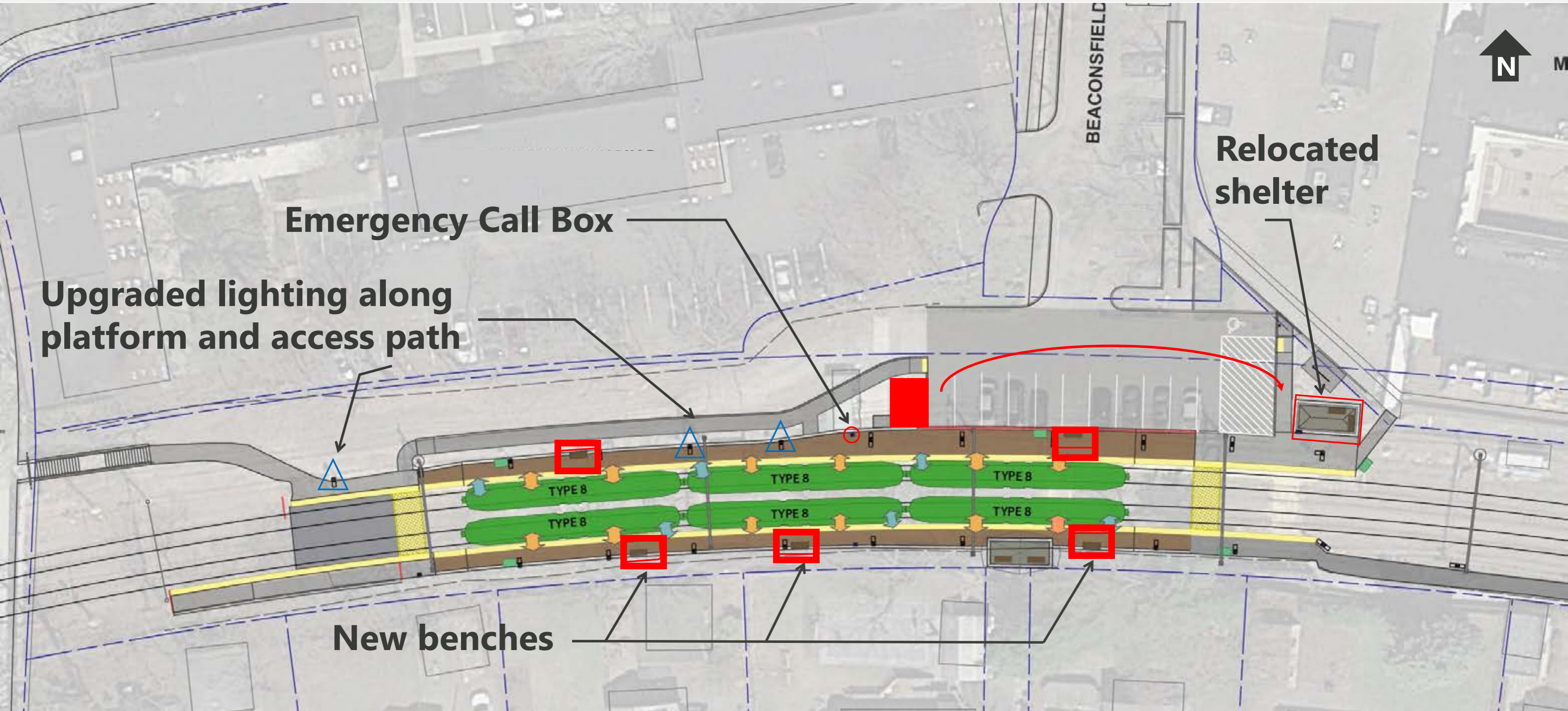




# Beaconsfield Station | Enhanced Access to Station



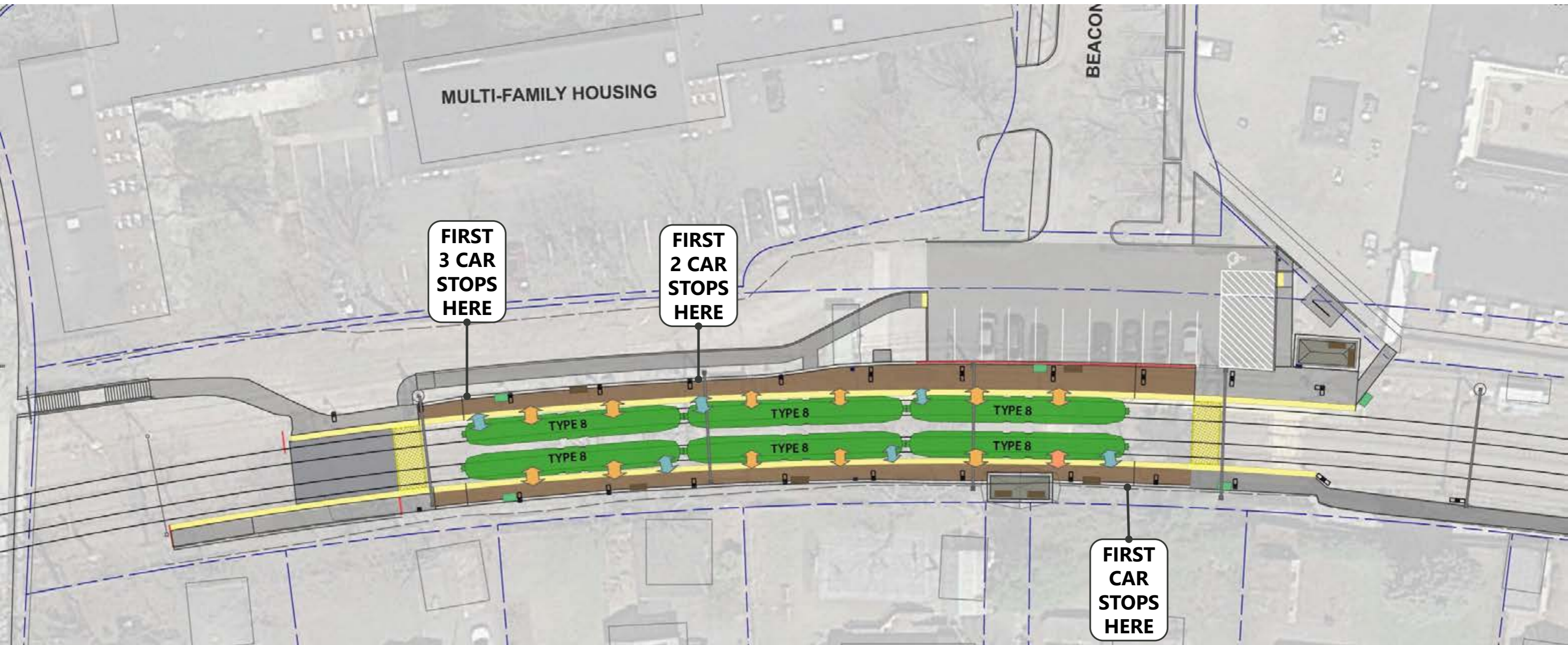
# Beaconsfield Station | Platform Improvements





# Beaconsfield Station | Boarding & Egress

Consistent stops at platform





# Station Accessibility Improvements

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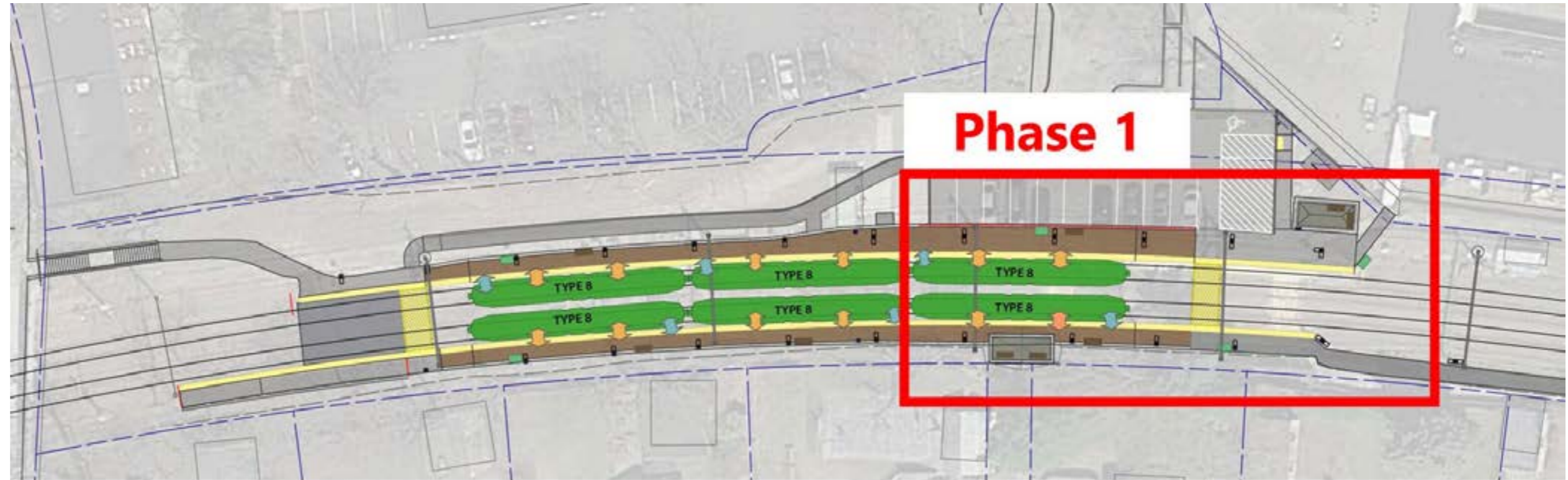
## Construction Phasing and Timeline



# Construction Phasing | Details

## Build stations in 2 phases

- **Limited weekend closures** to build within the track bed
- **Regular train service** during weekdays and most weekends



# D Branch | *Timeline*

Project	2021				2022				2023			
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
<b><i>D Branch Station Accessibility Improvements</i></b>												
<b>Final Design</b>			<b>9 Months</b>									
<b>Construction</b>							<b>11 Months</b>					



# D Branch | Customer and Community Engagement



## 2021 Outreach Activities

### Community Information Sessions

- ✓ **Public meetings** in communities served by the D Branch
  - ✓ **April 12** Newton Commission on Disability
  - ✓ **April 14** Brookline Commission on Disability
  - ✓ **April 27** Brookline Shared Mobility Committee
    - **April 29** Virtual public meeting
- ✓ **Continued engagement** as the project advances
  - Final Design public meeting in **late 2021**

## GLT Program Website

[www.mbta.com/GLT](http://www.mbta.com/GLT)



Contact us at:  
**GLT@mbta.com**



# **D Branch Station Accessibility Improvements**

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## ***Comments and Feedback***