

# Orange Line 30-Day Surge

## Week 2 Progress Update

August 19 - September 18, 2022

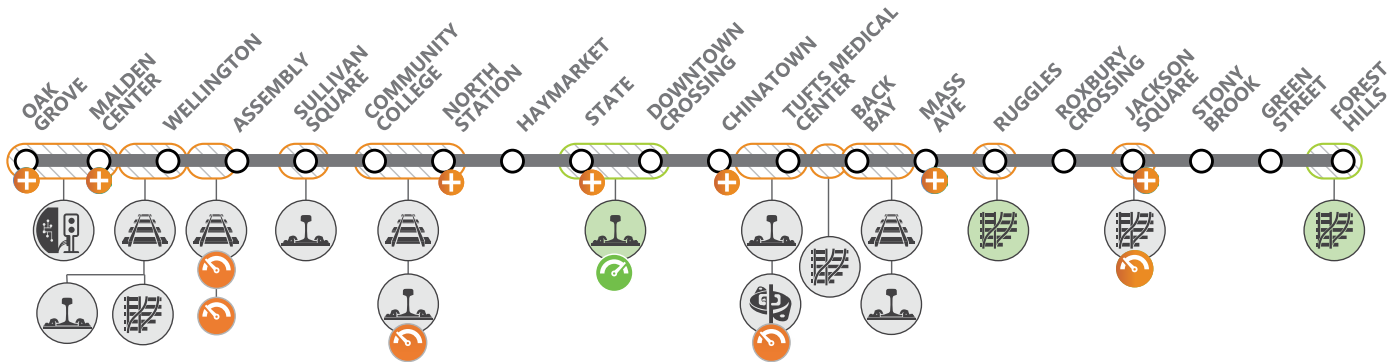
Prepared by Capital Transformation (CT)



On-Schedule | Friday, September 2, 2022



The MBTA has completed the second week of the Orange Line Surge, a collaborative effort that focuses on important safety, service, and reliability upgrades across the entire line. These upgrades wouldn't be possible without the exemplary efforts by all teams working diligently to drive progress. Surge work locations focus on track and signal upgrades depicted in the map below



Trackwork: New Rail, Ballast & Ties	New Rail Replacement	Special Trackwork: Turnout Renewal*	Cologne Egg Rail Fasteners	Signal System Upgrades	Work Activity to Address Slow Zone	Amplifying Results
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**Orange Line Surge:** Accelerating important reliability upgrades during a 30-day surge of the entire line from 9 PM on August 19 through September 18. The surge work focuses on track, rail, and signal system upgrades that will address slow zones across the Orange Line

- This Week |** Work that will address a second slow zone is nearing completion at the Jackson Square Crossover, and special trackwork replacement was completed at the Ruggles and Forest Hills Crossovers. Crews also made progress on rail and tie replacement near Wellington, Assembly, Sullivan Square, and Tufts Medical Center. Signals work advanced at Oak Grove and Malden

\*Schedule subject to change with weather conditions and in accordance with public health directives  
Project percentages represent the value of the installed work

14,000 Linear Feet of Rail Replacement



49% Completed

20 Units of Special Track Renewal\*



90% Completed

Signal Upgrades Oak Grove & Malden



51% Completed

3,500 Feet of Track Replacement



55% Completed

\*Includes both total replacement and partial component replacement



Trackwork Dana Bridge



Special Trackwork Ruggles



Special Trackwork Wellington

**This Week:**

- At Wellington, crews continued renewal of over 1,000 feet of full-depth track and rail replacement, installed two more units of special trackwork (for a total of four), continued track ballasting, completed alignment, commenced rail de-stressing, and began pulling cables in the new ductbanks for signal and power connections
- Tie replacement is ongoing across Dana Bridge and through Assembly and Sullivan areas; crews have replaced over 1,000 ties and are continuing toward the North Station tunnel
- Cologne egg hardware removal at Tufts Curve is ongoing for replacement on the northbound and southbound tracks

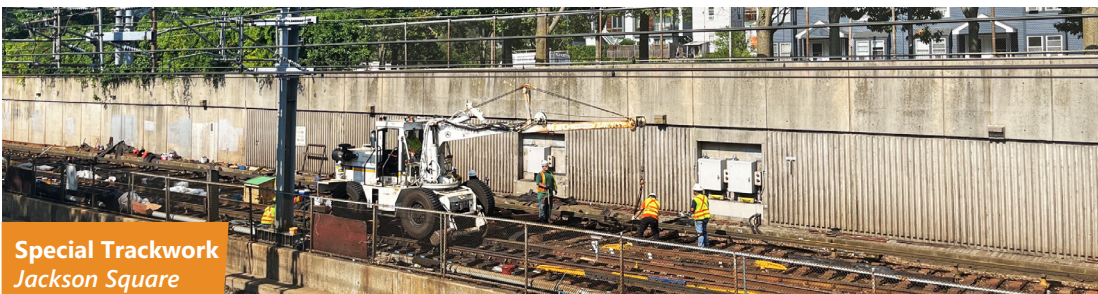


Rail Fasteners Tufts Curve

Replacing Cologne Egg Rail Fasteners



24% Completed



Special Trackwork Jackson Square

Removal of 6 Slow Zones



1 of 6 Completed

- **Lookahead** | Rail replacement and trackwork will begin at Back Bay and continue near Wellington, Assembly, Sullivan Square and Tufts Medical Center. Tie replacement will continue from the Dana Bridge to the North Station Portal, and rail installation will begin across the Sullivan Flyover, which carries the Orange Line over the Commuter Rail tracks. Track surfacing from Assembly to Community College will commence, and signals work continues at Oak Grove and Malden

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Project percentages represent the value of the installed work

**Did you know?**

A railroad turnout, or "switch," is a device that guides trains from one track to another. A pair of connected turnouts is a crossover, allowing for movement from each track to the other. Crossovers are critical to keeping Orange Line operations running smoothly on a single track if one track is unavailable for service

**+ Amplifying Results**



**Concrete Core Sampling**  
State Street



**Security Camera Replacement**  
North Station

The MBTA is leveraging work windows that do not impede the priority work to achieve other planned repairs and upgrades. Several of this week's Amplifying Results items roll up to the MBTA's Elevator Accessibility Upgrades, which include improvements at multiple stations. As part of the Orange Line Surge, the following work at Chinatown and State advanced that initiative. This week, these efforts were completed:

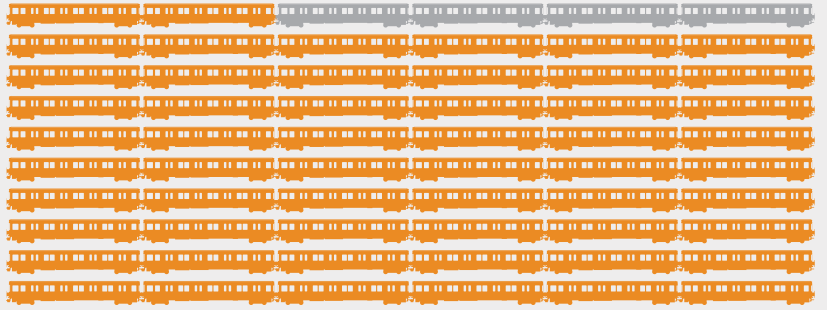
- ✓ **Chinatown Concrete Core Sampling:** Core samples taken from the station lobby provides a better understanding of what's beneath the slabs and what will be required to implement planned station accessibility improvements, including elevator improvements and reactivation of station entrances at Chinatown
- ✓ **State Street Concrete Core Sampling:** At State Street Station, the core samples taken provide a better understanding of how to support planned accessibility improvements including a new lobby floor and a modernized elevator
- ✓ **Chinatown to State Conduit Inspection:** This task was completed to help confirm the feasibility of installing new electrical cables to provide emergency power improvements in support of planned upgrades at Chinatown
- ✓ **North Station Security Cameras:** Crews replaced conduit, wires, cameras and security equipment at each end of both Orange Line platforms. The existing equipment was 15 years old, and this upgrade allows MBTA Security to monitor and be aware of any safety incidents at the tunnel entrances
- ✓ **North Station to Tufts Tunnel Inspection:** An inspection of the tunnel structure was conducted between Haymarket and North Station on the northbound and southbound tracks. These inspections are required to help facilitate future infrastructure repairs and identify any areas in need of improvement

## New Orange Line Trains Readiness

During the Surge, 60 new Orange Line cars are being prepped for when Orange Line service is restored on September 19. Following the Surge, riders will experience better service on an Orange Line fleet that is predominately new cars. This week, crews completed vehicle readiness of 56 vehicles, enough to cover peak morning service



**56 of 60  
Cars Ready**



**Did you know?** Six cars make up a full train

## Safety First



Daily safety briefings continue to be held at every shift change multiple times a day at work sites across the Orange Line, providing each crew member with crucial, up-to-date safety information every time they enter a work zone

## Alternative Service



**Alternative service options include free,** accessible shuttle bus service and enhanced commuter rail service. For travel within downtown Boston, riders are encouraged to use existing bus and Green Line service. The City of Boston has increased the availability of Bluebikes and created new bus and bike lanes

- Check out [mbta.com/bbt2022](https://www.mbta.com/bbt2022) for more information on what to expect throughout the closure and how to navigate the service diversions
- The MBTA has created the [Rider's Guide to Planning Ahead](#), a tool to provide riders with available travel options and information to inform travel decisions. You can use the trip planner for more personalized route options to get you where you need to go. Download the Rider's Guide to Planning Ahead in your preferred language: [English](#), [Español](#), [Português](#), [漢語](#), [Français](#), [Kreyòl Ayisyen](#), [Af Soomali](#)
- For more information, connect with the T on Twitter [@MBTA](#), #TAccess, #RideSafer, #BuildingABetterT, Facebook [/TheMBTA](#), or Instagram [@theMBTA](#). You can also submit questions and comments to [OLT@mbta.com](mailto:OLT@mbta.com)

## **Rider Experience**



Over the second week of the Surge, we have listened to our riders, learned from their experiences, and made necessary wayfinding and service adjustments to our alternative service. Transit Ambassadors are on site to help riders get to where they need to go. Expanded bus stops that have dedicated space for passengers to wait on the sidewalk and for multiple buses to stop for boarding have been installed along the Orange Line, including shelters near stop locations to provide shade and protection from the elements

- Signage has been placed in and around stations to guide passengers on how to get to these new stops and continues to be placed each morning to make sure riders can see where to go. Signage in foreign languages has been placed in key locations. Bus lanes have been implemented to allow shuttles to run smoothly, with the assistance of MBTA and municipalities to guide traffic. Shuttle drivers are making more frequent announcements, so riders don't miss a stop. And police details are on site monitoring traffic and assisting with bus operations at almost every major intersection. As work progresses, we will continue to solicit your feedback and will do our best to respond to the needs of Orange Line riders

***Sign up for T-Alerts and check out our project updates online***

***Green Line  
Transformation***

***Orange Line  
Transformation***

***Red Line  
Transformation***