



CAPITAL 
TRANSFORMATION
A Division of Capital Programs

Track and Signal Upgrades Wellington to Oak Grove

Virtual Public Meeting

June 30, 2022

Meeting Overview | *Diversity and Civil Rights*

All MBTA activities, including public meetings, are free of discrimination. The MBTA complies with all federal and state civil rights requirements preventing discrimination on the basis of race, color, national origin, limited English proficiency, and additional protected characteristics. We welcome the diversity from across our entire service area. If you have any questions or concerns, please visit www.mbta.com/titlevi to reach the Office of Diversity and Civil Rights.

Spanish

Todas las actividades de MBTA, incluidas las reuniones públicas, están libres de discriminación. La MBTA cumple con todos los requisitos de derechos civiles federales y estatales que impiden la discriminación por motivos de raza, color, origen nacional, dominio limitado del inglés y características protegidas adicionales. Damos la bienvenida a la diversidad de toda nuestra área de servicio. Si tiene alguna pregunta o preocupación, visite www.mbta.com/titlevi para comunicarse con la Oficina de Diversidad y Derechos Civiles.

Chinese

MBTA 的所有活动，包括公开会议，都没有歧视。MBTA 遵守所有联邦和州公民权利要求，防止基于种族、肤色、国籍、有限的英语能力和其他受保护特征的歧视。我们欢迎来自我们整个服务领域的多样性。如果您有任何问题或疑虑，请访问 www.mbta.com/titlevi 联系多元化和民权办公室。

Portuguese

Todas as atividades da MBTA, incluindo reuniões públicas, são contra discriminação. A MBTA atende a todos os requisitos de direitos civis federais e estaduais que impedem a discriminação com base em raça, cor, nacionalidade, proficiência limitada em inglês e características protegidas adicionais. Prezamos pela diversidade de toda a nossa área de serviço. Se você tiver alguma dúvida ou preocupação, visite www.mbta.com/titlevi para entrar em contato com o Escritório de Diversidade e Direitos Civis.

Meeting Overview | *Language Accessibility*

We offer interpretation during this meeting. In your meeting/webinar controls, click Interpretation (the small globe icon) and click the language that you would like to hear.

Spanish

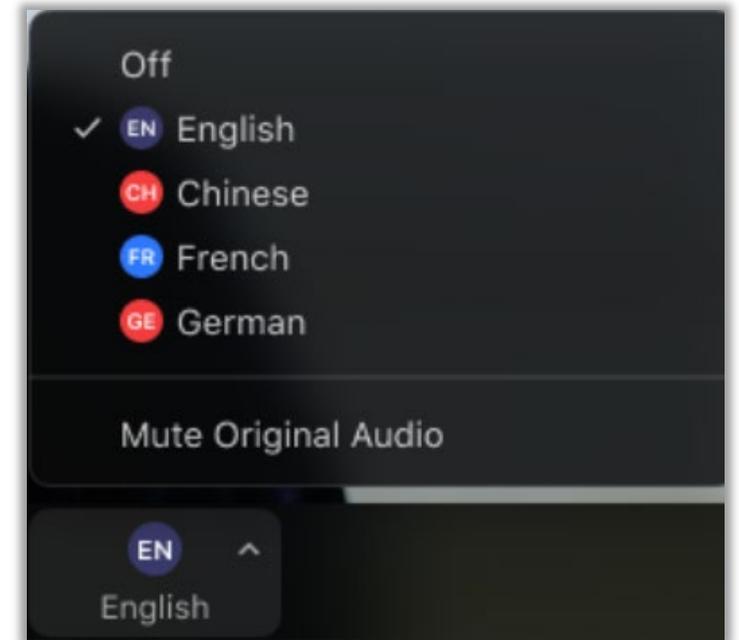
Ofrecemos interpretación en español durante esta junta. Para escoger el audio en Inglés o en Espanol tendrá que picar el botón de interpretación, el cual tiene un imagen de un mundo. Cuando le pique la interpretación por favor de escoger el idioma cual le gustaria oír

Chinese

我们本次会议期间提供口译服务。在您的会议/网络研讨会的控件中，单击口译（小地球图标），并单击您想听到的语言

Portuguese

Oferecemos interpretação durante esta reunião. Nos controles de reunião/webinar, clique em Interpretação (o pequeno ícone de um globo) e selecione o idioma que você gostaria de ouvir.



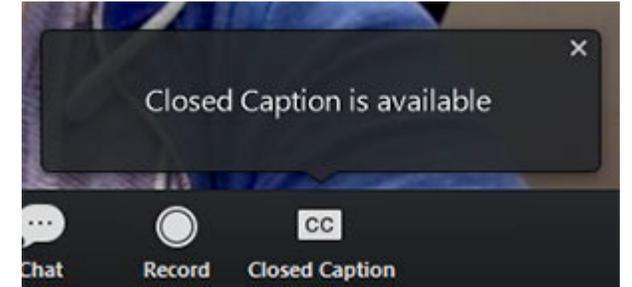
Meeting Overview | *Closed Captions*

Click **Closed Caption** to start viewing closed captioning

- **Tip:** Click and drag the closed captioning to move its position in the meeting window

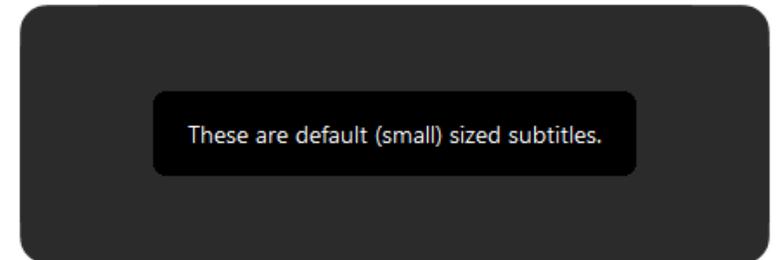
To adjust the caption size:

- Click the upward arrow next to **Start Video / Stop Video**
- Click **Video Settings** then **Accessibility**
- Move the slider to adjust the caption size



Closed Caption

Closed Caption Font Size: Normal Medium Large





SAFETY MOMENT

*All Transit Ambassadors
are trained to
inspect stations for
cleanliness and safety.*

Ride Safer



Public Meeting Agenda

1. Capital Transformation
2. 2022 Construction
3. Wellington Track and Signal Upgrades
4. Alternative Service
5. Outreach and Transparency



To improve the quality of service for MBTA riders and neighboring communities through strategic capital investments.



What is Capital Transformation?

Levels of Transformation:

- 🛡️ Improved Safety and State of Good Repair
- ♿️ Enhanced Accessibility
- 🚆 Replacement of Legacy Fleets
- 👥 Increased Passenger Capacity
- 👤 Modernized Rider Experience
- ⚙️ Expansion of Service

Each level aims to **improve reliability** and the overall **quality of service** for all riders and communities served by the system

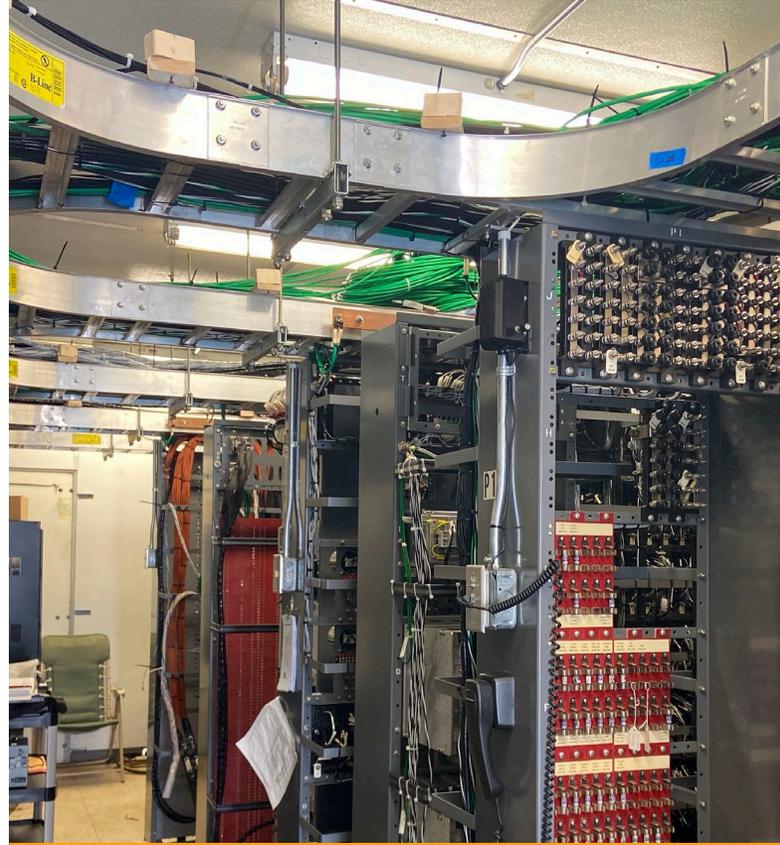


Capital Transformation | Orange Line Transformation

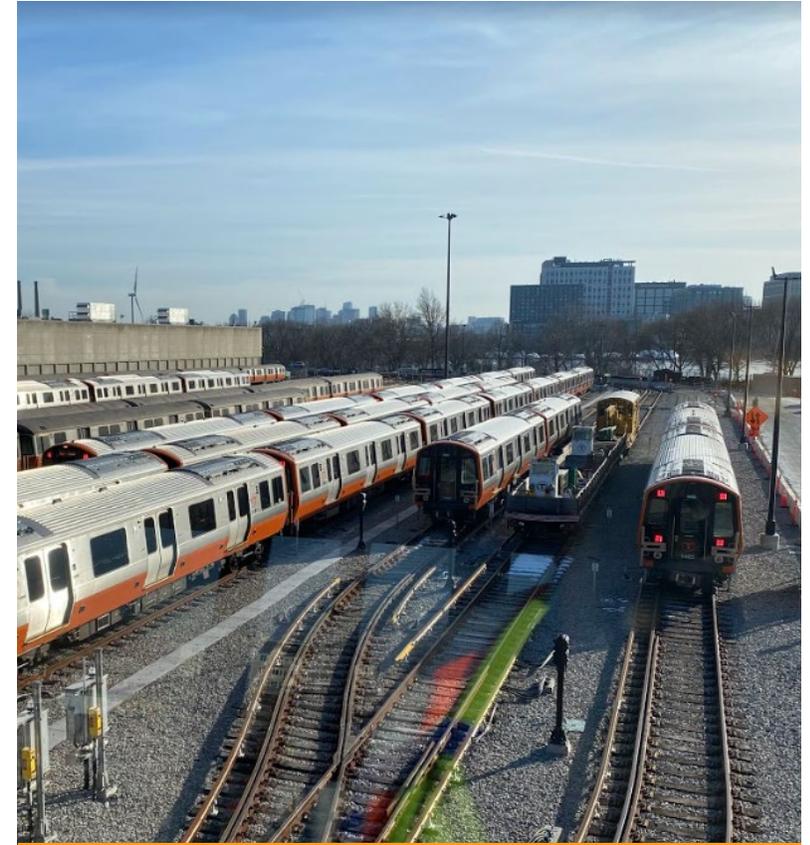
We will improve the Orange Line quality of service, including increased capacity and improved reliability, through fleet modernization, infrastructure upgrades, and state-of-the-art technology



Traction Power Substations

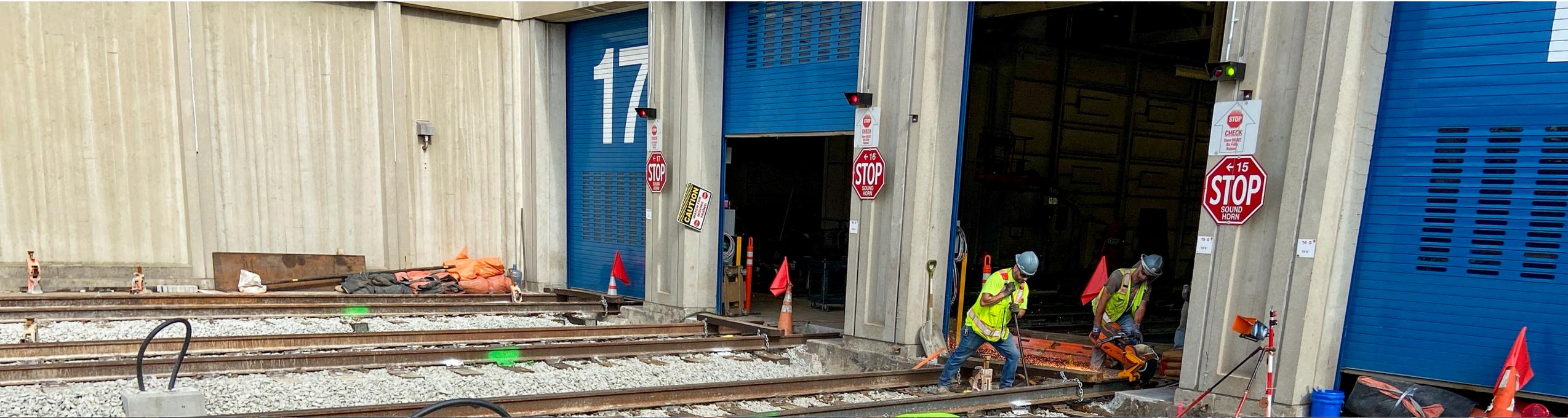


Orange Line Signal Upgrades



Wellington Yard & Maintenance Facility

Orange Line Yards | *Where Quality of Service Begins*



Enhancing Yard Capabilities

- **Clean & Maintain** trains proactively
- **Store** trains in a secure location
- **Deploy** daily service efficiently

...Improves Quality of Service for the Rider

- 
- 🛡️ **Provide Cleaner & Safer Service**
 - 🚆 **Increase Capacity & Frequency**
 - 🕒 **Reduce Service Disruptions**



Track and Signal Upgrades

Acceleration Timeline

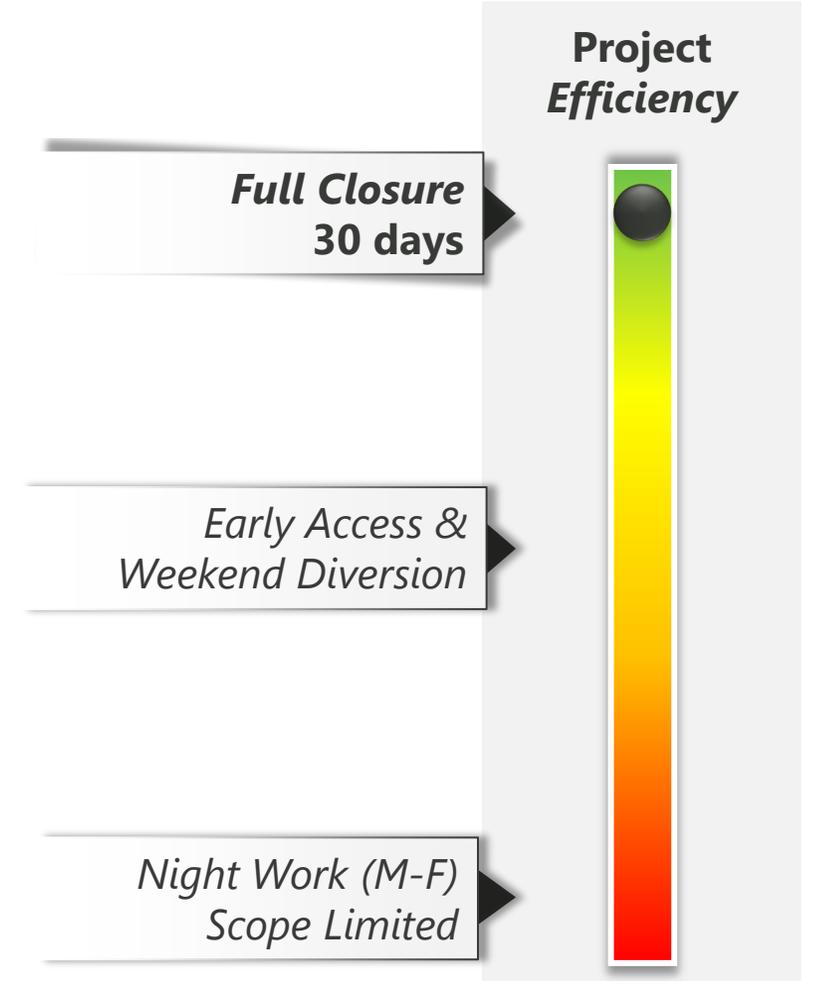


Acceleration Strategy | Condensed Schedule

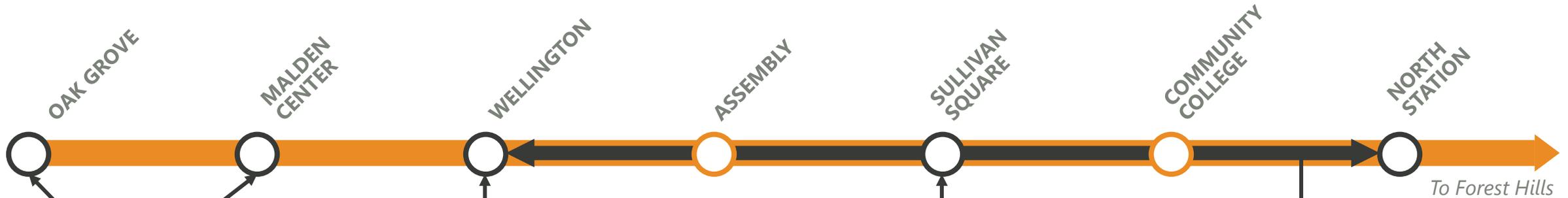
The acceleration reduces the project timeline by over 1 year

24-hour access to the system allows crews to accomplish more work faster

- **30 days of full access is more efficient than 12 months of weekend diversions and night work**
 - ✓ Improves work site safety
 - ✓ Allows for more complex work that cannot be done over a weekend or overnight
 - ✓ Eliminates repeated setup/breakdown time
 - ✓ Reduces overall duration of impact to the corridor
 - ✓ Saves time and resources



Orange Line | Amplifying Results with Full Access



Installing New Signal System
Oak Grove and Malden Center



Replacing Track and Special Trackwork
Wellington Station

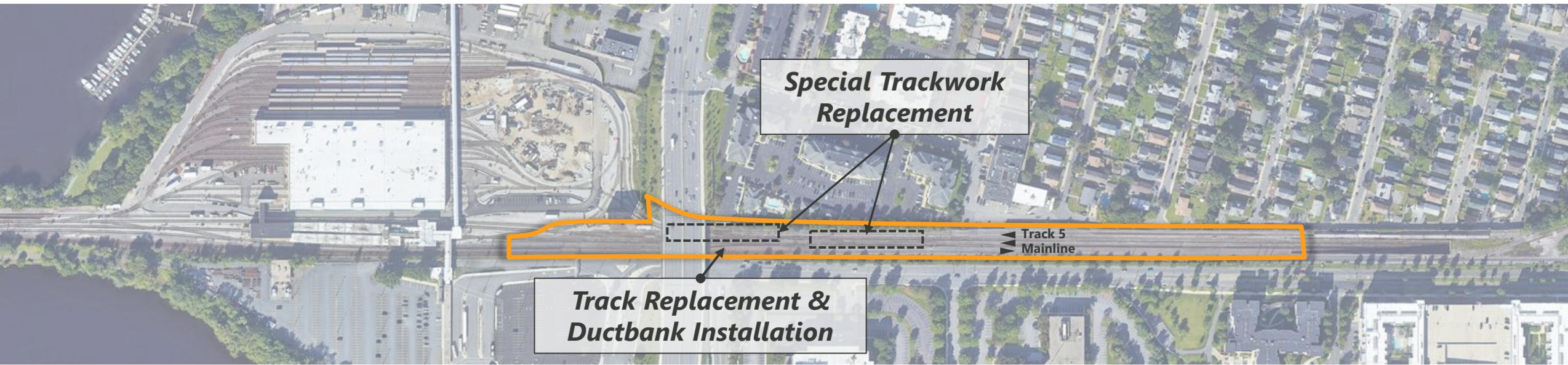


Repairing Canopies
Sullivan Sq. Station
(Weekends)



Replacing Ties
North Station to Wellington Station
(Weekends)

Track and Signal Upgrades | Wellington to Oak Grove



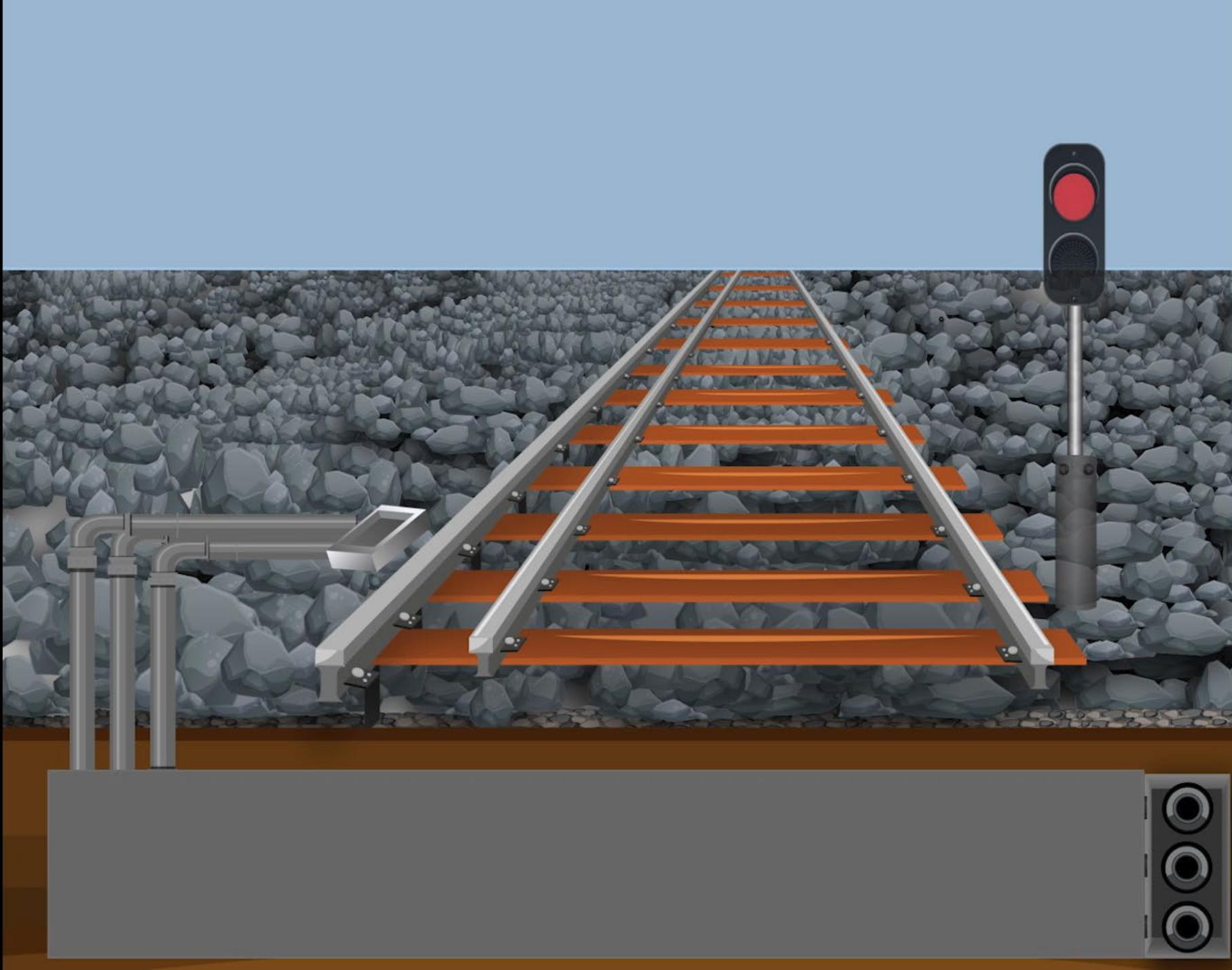
30-Day Full Access

Friday, July 29, to
Sunday, August 28, 2022

- **Weekdays:** Oak Grove to Wellington Station
- **Weekends:** Oak Grove to North Station

Replace over **7,000 feet of track**

- Full-depth reconstruction of the **4 units of special trackwork**
- **2,300 feet of third rail** and **new third rail heater elements**
- **Replace 150 feet of ductbank**
- Install new **traction power switch with cables**





Track and Signal Upgrades

Construction Overview



Ductbank Installation

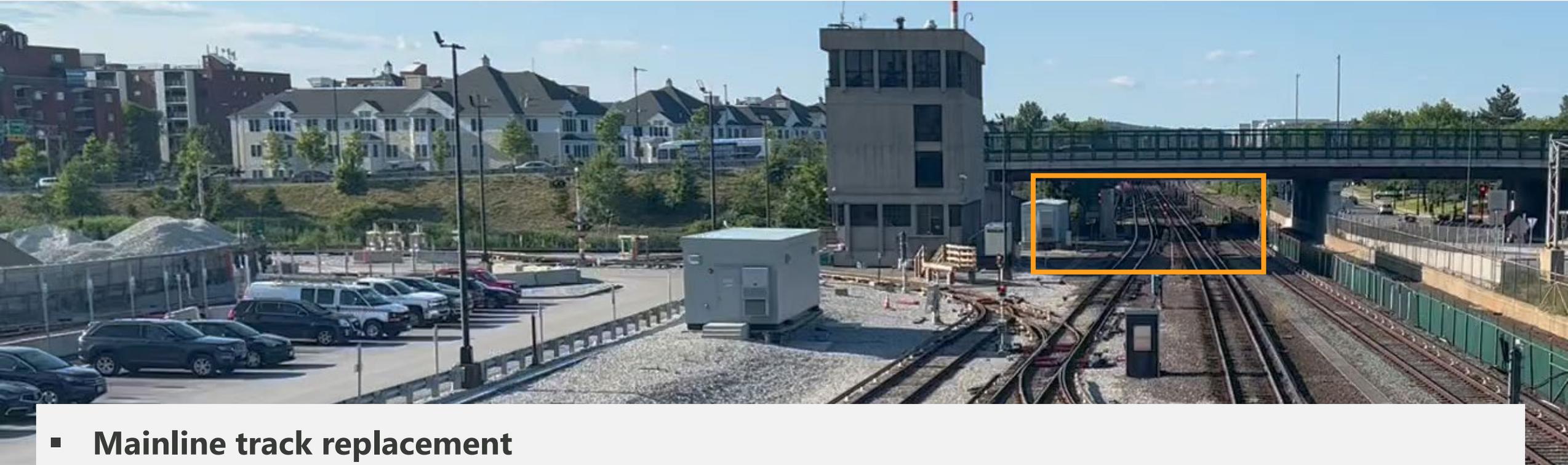
To protect all signal and power cables under and around the track

150 ft of ductbank reconstruction before the new tracks are installed:

- Excavate down to the existing cable pathways
- Remove old collapsed ducts and power cables
- Construct new power cable pathways
- Install new, longer life power cables



Track Replacement and Special Trackwork Upgrades



- **Mainline track replacement**

- **1,110 feet of track replacement** (ties and ballast) on the connecting track for mainline to the north yard
- Surface and align **4,250 ft** of track northbound & southbound

- **Full-depth reconstruction of 4 Units of Special trackwork**

- **275 tons** of asphalt underlayment under the crossovers
- **Installation of 4** new switch machines

Mainline Signal Upgrades

To efficiently deploy trains around the yard and onto the mainline track

- Replace 6 mainline signals
- Remove and replace aging Signal cable pathways
- Install new, longer life Signal cables
- Install new signal system at Oak Grove
- Install new signal system at Malden Center





*Track and Signal
Upgrades*

**Alternative Service
& Engagement**



Alternative Service | Starting Saturday, July 30, to Sunday, August 28, 2022



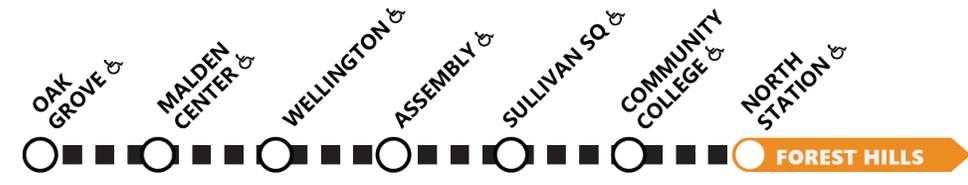
Free accessible shuttle service will be accessible vehicles from private carriers

- Planned shuttle schedule frequency **approximately every 4 to 8 minutes**

Weekday Diversion Oak Grove to Wellington Station



Weekend Diversion Oak Grove to North Station



○ SHUTTLE STOP | ■ SHUTTLE ROUTE | ■ REGULAR SERVICE

Weekday Alternative Service | Oak Grove to Wellington Station

Station Signage

- Shuttle stops along Orange Line stations and **marked with signage**
- **Transit Ambassadors** will be available at Orange Line stations throughout the diversion
- No other bus services will be disrupted

Oak Grove



Malden Center



Wellington



Minimizing Impact to Surrounding Community



The loudest work will occur when crews cut rails with a saw and tamp the track to the proper elevation

We use several strategies to minimize disruptions for neighbors

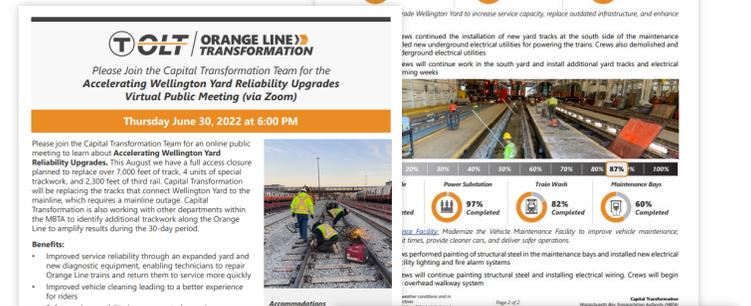
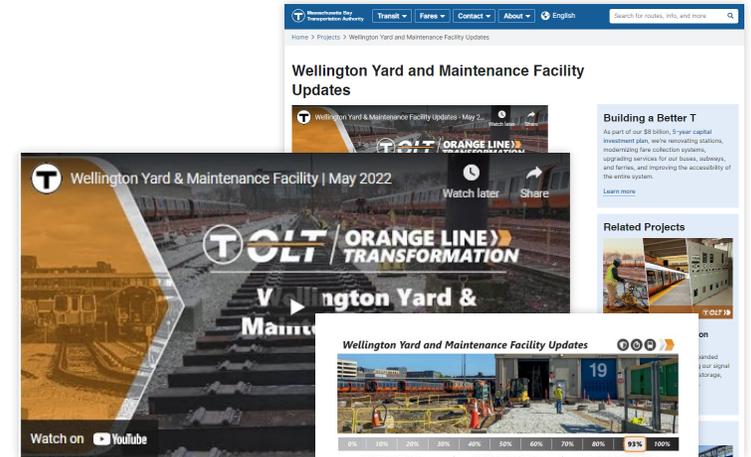
- Using silencers, or mufflers on equipment
- Lining dumping bins, hoppers, and trucks with sound-deadening material
- Using **noise blankets** and shielding where possible
- Applying **dust control** measures
- Pest control mitigation

We monitor noise levels and respond to all noise complaints. If you would like to report a noise issue, please call the 24/7 hotline at **(857) 880-4702**

Coordination | Keeping Riders and Stakeholders Informed



- **Public Meeting Announcement & Press Release** (May 26, 2022)
- **Distributed Flyers in Four (4) Different Languages**
- **Virtual Public Meeting** (June 30, 2022)
- Responding to Questions **OLT@mbta.com** (ongoing)
- Weekly Reporting on **MBTA.com** (every Friday)
- **Subscribe to alerts** [mbta.com/alerts](https://www.mbta.com/alerts)



Virtual Meeting | *Raising Your Hand*



To speak,
click **"Participants"**
then **"Raise hand"**



Type a Question
to the moderator by
clicking **"Q&A"**



***9**
Raise Hand



Questions and Answers

After you speak, we will lower your hand and you will be muted to allow the team to respond and provide opportunities for others to participate

Please use Zoom's "Raise Hand" feature to indicate if you have a comment

All participants are muted upon entry so that only the presenters can be heard. Please raise your hand and the meeting host will ask you to unmute so that you can state your question/comment.

Por favor de usar el encero de levantar la mano en Zoom para indicar que usted tiene algún comentario o pregunta.

Todos los participantes en esta llamada están silenciados, para que solo los presentadores se puedan oír. Cuando usted levante su mano, manda un alerta a la moderadora que quisiera hablar. La moderadora le quitará el silencio para que pueda hacer su pregunta o comentario.

如果您有评论，请使用 Zoom 的“举手”功能。

所有的参与者在进来时都被静音了以便于只听到演讲者。请举手，会议主持人将让您取消静音，以便您陈述您的问题/评论。

Use o recurso "Levantar a mão" do Zoom para indicar que quer fazer um comentário

Todos os participantes são silenciados na entrada para que apenas os apresentadores possam ser ouvidos. Levante a mão e o organizador da reunião pedirá para você ativar o som para que você possa fazer sua pergunta/comentário.

Comments may also be sent to OLT@mbta.com



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TRANSFORMATION**

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