

2024 Track Improvement Program (TIP)

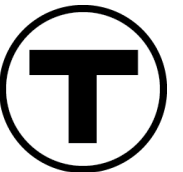
Massachusetts Bay Transportation Authority
Adam Kamoune, MBTA External Affairs
















Overview of Work

Track Improvement Program

- MBTA has launched the Track Improvement Program, an initiative to eliminate all existing speed restrictions and bring tracks closer to a State of Good Repair by the end of this year.
- The MBTA will be rebuilding track infrastructure across the Red, Orange, Blue, and Green Lines over a series of surges.
- The Program will increase train speeds, reduce delays and disruptions, improve safety, and support reliable and consistent service.
- We will also use this opportunity to improve station areas, including lighting upgrades, deep cleaning, and infrastructure improvements.



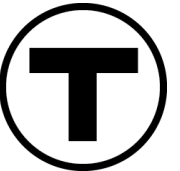
 SYSTEMWIDE	 138 Speed Restrictions <i>(as of 1-15-24)</i>	 740,000 Approx. Feet of Track <i>(140 miles)</i>	 28 Years Average Age of Track	 611 Signals	 32 Years Average Age of Signal System	 132 Stations <i>(Unique, excluding Bus)</i>	 677,000 Approx. Weekday Trips <i>(2019)</i>
 RED LINE	53 Speed Restrictions <i>(as of 1/15/24)</i>	228,000 Feet of Track <i>(43 miles)</i>	31 Years	105 Signals	40 Years	22 Stations: 22/22 Meet Accessibility Standards	258,000 Weekday Riders
 ORANGE LINE	37 Speed Restrictions <i>(as of 1/15/24)</i>	121,000 Feet of Track <i>(23 miles)</i>	38 Years	81 Signals	38 Years	20 Stations: 20/20 Meet Accessibility Standards	191,000 Weekday Riders
 BLUE LINE	14 Speed Restrictions <i>(as of 1/15/24)</i>	67,000 Feet of Track <i>(13 miles)</i>	23 Years	40 Signals	25 Years	12 Stations: 11/12 Meet Accessibility Standards	143,000 Weekday Riders
 GREEN LINE B C D E	34 Speed Restrictions <i>(as of 1/15/24)</i>	297,000 Feet of Track <i>(56 miles)</i>	20 Years	385 Signals	25 Years	70 Stations: 48/70 Meet Accessibility Standards	78,000 Weekday Riders
 MATTAPAN LINE	0 Speed Restrictions <i>(as of 1/15/24)</i>	27,000 Feet of Track <i>(5.2 miles)</i>	31 Years	Not signaled	Not signaled	8 Stations: 7/8 Meet Accessibility Standards	7,000 Weekday Riders



TIP System Map

Track Work Locations and Sequence

Segt	Alternative Service Area
1	North Station to Lechmere
2	North Station to Kenmore, Heath, Babcock
3	Copley to Cleveland Circle, Babcock, Brookline Hills
4	Boston College to Kenmore
5	Cleveland Circle to St. Mary's
1	Oak Grove to North Station
2	Wellington to North Station
3	Sullivan to Back Bay
4	Haymarket to Jackson Sq
5	Back Bay to Forest Hills
1	Alewife to Harvard
2	Alewife to Park
3	Harvard to Park
4	Kendall/MIT to Broadway
5	Park to JFK/UMass
6	Broadway to North Quincy
7	JFK/UMass to Braintree
1	Airport to Wonderland
2	Bowdoin to Airport



- ✓ Critical trackwork along entire system.
- ✓ Remove all speed restrictions.
- ✓ Ensure track reliability.

Track Improvement Program 2024 | Segmenting Track

Priority Trackwork for State of Good Repair in 2024

Segt	Alternative Service Area	Speed Restriction s	Modeled Delay (min)	Duration (days)	January	February	March	April	May	June	July	August	Sept	October	November	December
1	North Station to Lechmere	2	1.8	14											█	
2	North Station to Kenmore, Heath, Babcock	15	8.7	23	█ █											
3	Copley to Cleveland Circle, Babcock, Brookline Hills	11	4.2	18		█										
4	Boston College to Kenmore	7	1.7	12								█				
5	Cleveland Circle to St. Mary's	1	0.1	6											█	
1	Oak Grove to North Station	13	1.7	6									█			
2	Wellington to North Station	5	4.3	10								█				
3	Sullivan to Back Bay	6	2.3	10						█						
4	Haymarket to Jackson Sq	2	1.3	4				█								
5	Back Bay to Forest Hills	15	4.8	11										█		
1	Alewife to Harvard	8	6.5	10		█										
2	Alewife to Park	9	4.0	16								█				
3	Harvard to Park	3	0.8	6												█
4	Kendall/MIT to Broadway	8	3.7	6										█		
5	Park to JFK/UMass	8	2.6	8					█							
6	Broadway to North Quincy	4	2.7	6												█
7	JFK/UMass to Braintree	22	9.1	16									█			
1	Airport to Wonderland	12	5.3	13				█								
2	Bowdoin to Airport	2	0.7	Night Orders												
		153	66.3	195												

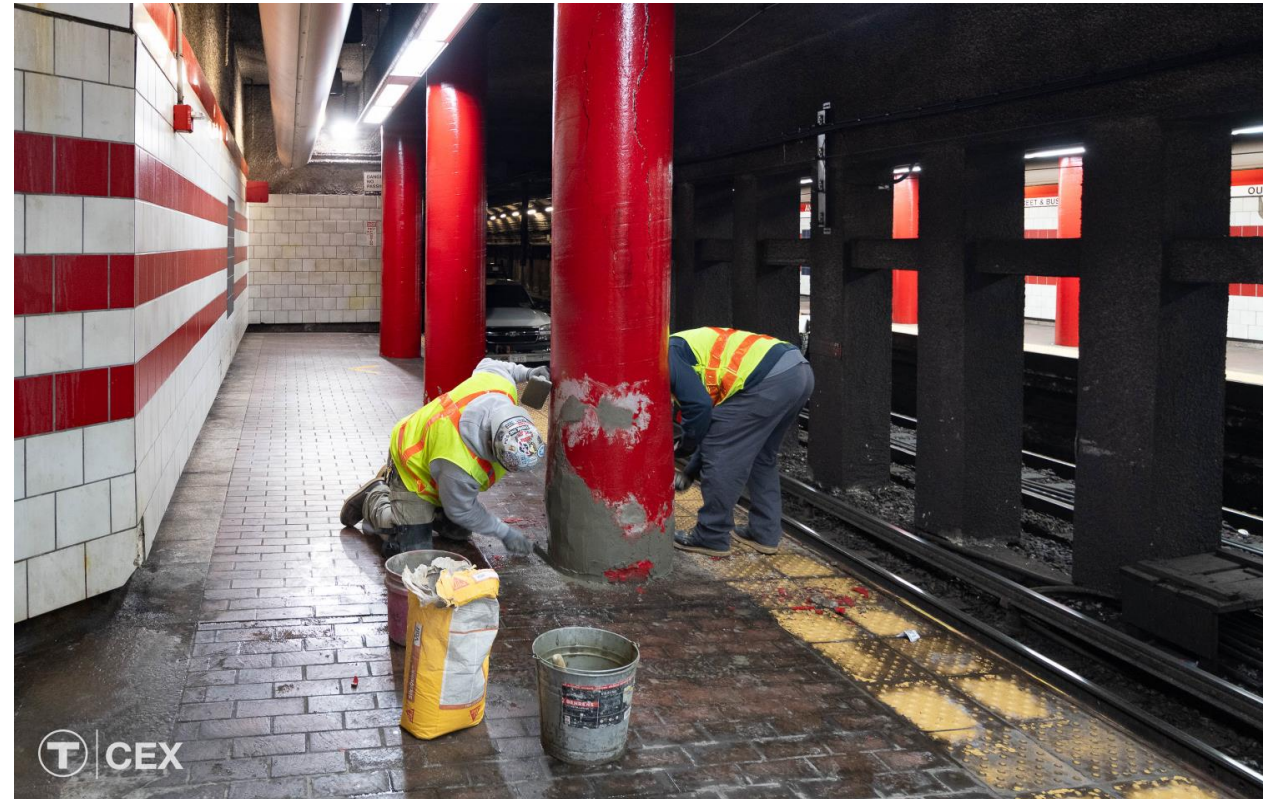
of Speed Restrictions as of 11/6/23



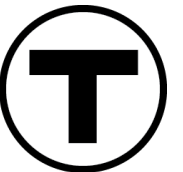
Overview of Work – Alewife to Harvard

Alewife Branch, February 5th – 14th, 2024

- On the Alewife Branch, we will be removing a total of 8 speed restrictions which will result in an approximate time savings of 6.5 minutes.
- The alternative service limits of the diversion are between Alewife and Harvard and will extend to Park St starting at 8:45 PM every night.
- We will be replacing special trackwork, about a mile of track, 6500 new brackets/spacers, 28 primary floating slabs, 60 secondary slabs, and tamping and aligning over a mile of track.
- The signal system will receive critical software upgrades to all AF track circuit modules and perform necessary testing.
- At Alewife, Davis, and Porter stations, maintenance and repairs will be performed such as paint, bench repairs, concrete, repairs, floor repairs, stair tread replacement, hand-rail replacement, ceiling panel removals, waste receptacle replacement, plumbing & HVAC maintenance and inspection activities.



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Service Impacts

Alewife to Harvard, February 5th – February 14th



- There will be no Red Line Service between Alewife and Harvard between February 5th- February 14th.
- Starting at 8:45 PM every night, there will be no Red Line Service between Alewife and Park Street.
- The MBTA will provide free, accessible shuttle bus service for riders on the Alewife Branch.
- Buses will arrive approximately every 5 minutes, potentially sooner during peak times.



Overview of Work – Copley to Babcock, Cleveland Circle, and Brookline Hills

Green Line, February 20th – March 8th, 2024

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- On the Green line, we will be removing a total of 11 speed restrictions which will result in an approximate time savings of 4.2 minutes.
- We will be replacing special trackwork, over a mile of track, approximately 1200 ties, and tamping and aligning about two miles of track.
- At the stations, maintenance and repairs will be performed such as paint, bench repairs, concrete, repairs, floor repairs, stair tread replacement, hand-rail replacement, ceiling panel removals, waste receptacle replacement, plumbing & HVAC maintenance and inspection activities.
- Alternative service impacts to be provided in advance of the surge.

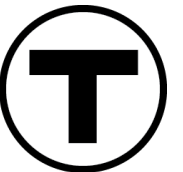


Overview of Work – Haymarket to Jackson Square

Orange Line, March 18th – 21st, 2024

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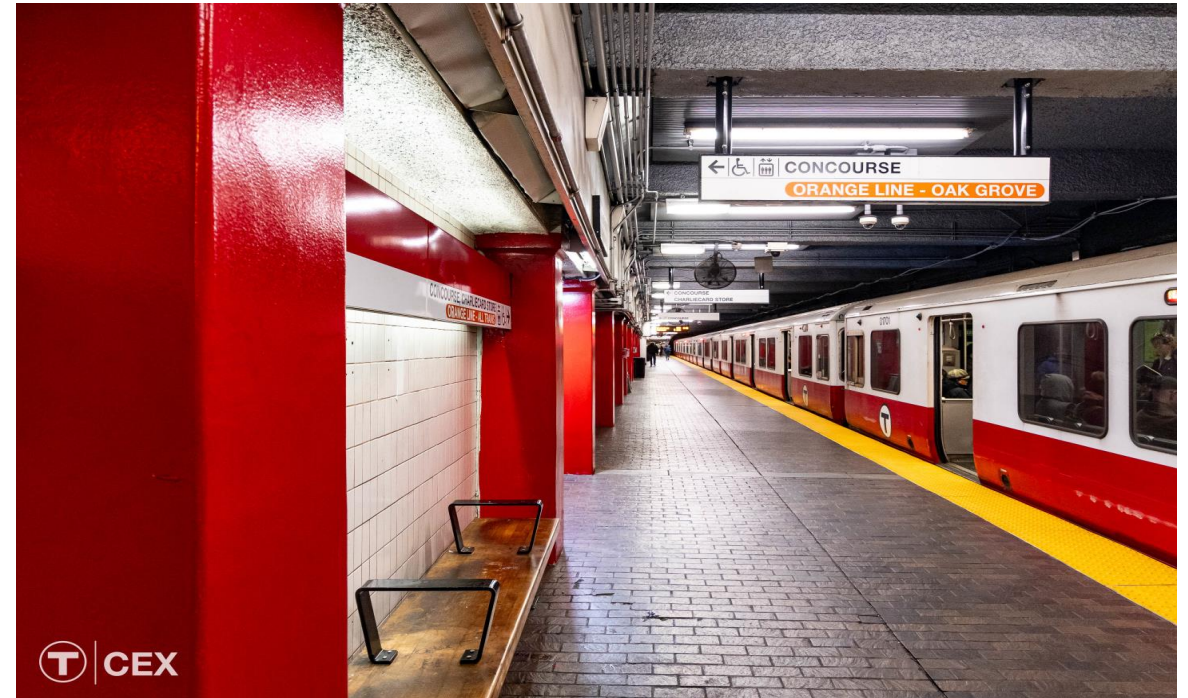
- On the Orange line, we will be removing a total of 2 speed restrictions which will result in an approximate time savings of 1.3 minutes.
- We will be replacing over a mile of track, approximately 1300 ties, and tamping and aligning about two miles of track.
- At the stations, maintenance and repairs will be performed such as paint, bench repairs, concrete, repairs, floor repairs, stair tread replacement, hand-rail replacement, ceiling panel removals, waste receptacle replacement, plumbing & HVAC maintenance and inspection activities.
- Alternative service impacts to be provided in advance of the surge.



Program Benefits

2024 Track Improvement Program

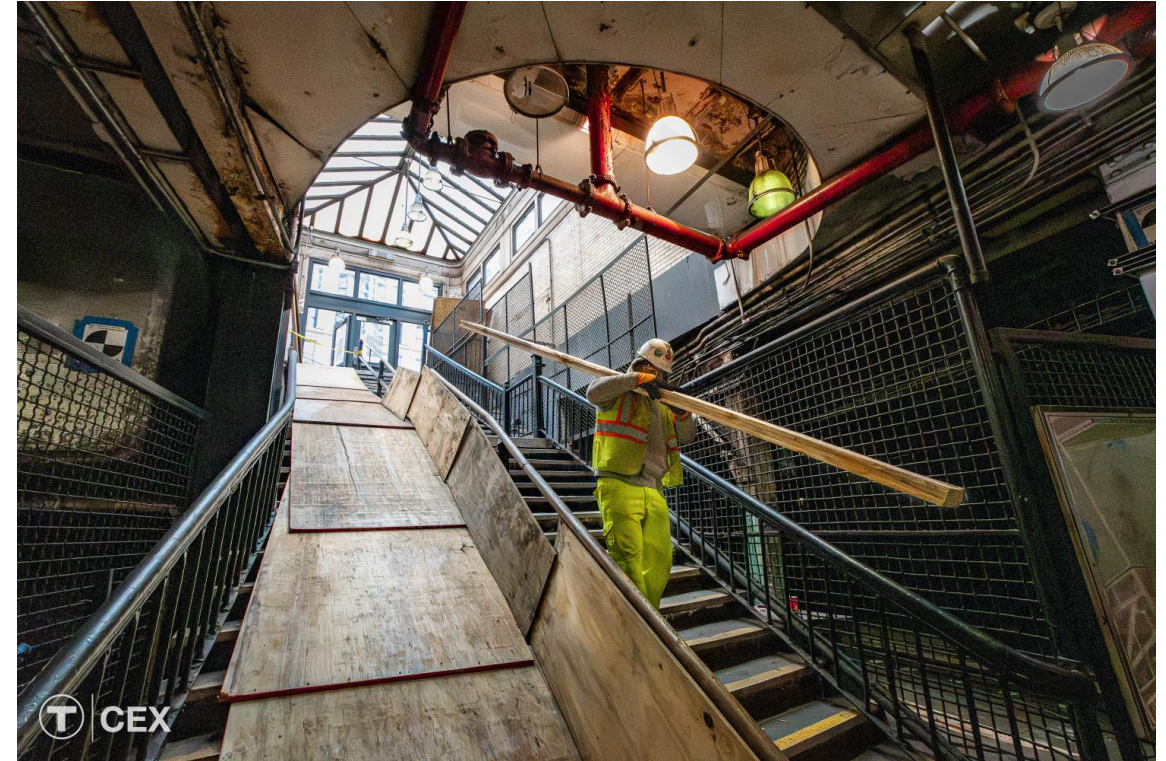
- Riders can expect to see improvements to travel time and station areas after the work is complete.
- This program removes speed restrictions making for a safer and more reliable system.
- The MBTA will actively identify rider experience improvements through station enhancements, such as painting, power washing, and repairing lighting fixtures; vegetation removal; the removal of tripping hazards; and accessibility improvements.



What to Expect During Construction

2024 Track Improvement Program

- Crews will complete this important program by having multiple shifts, around the clock during each surge to accomplish work.
- The MBTA will mitigate noise levels wherever possible—including through noise-dampening blankets, low impact backup alarms, and noise monitoring. A hotline will be made for the public to report noise, and other construction-related issues will also be available.
- During individual surges, specific wayfinding signage, and additional transit ambassadors will be deployed to assist riders navigate the free alternative shuttle service.

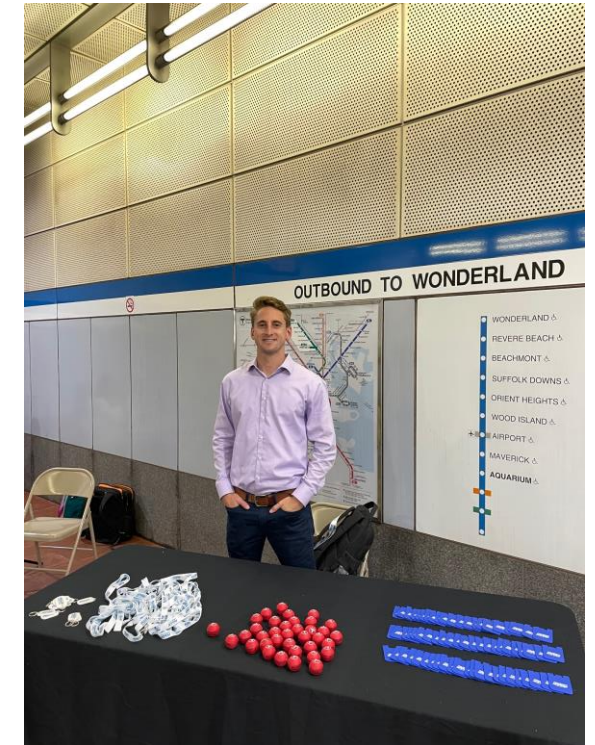


Upcoming Community Engagement Events

Join us to learn more about the Track Improvement Program at an Open House or Station Pop-Up

Open House:

- Thursday, 1/25/2024, 6pm – 7:30pm, Cristo Rey High School
- Wednesday, 2/21/2024, 6:30pm – 8pm, Zoom
- Thursday, 3/7/2024, 6:30pm – 8pm, Zoom
- Thursday, 4/11/2024, 6pm – 7:30pm, Boston Public Library
- Tuesday, 5/14/2024, 6pm – 7:30pm, Mattapan Public Library
- Monday, 8/19/2024, 6pm – 7:30pm, English High School



Interpretation services will be made available in American Sign Language, Haitian Creole, Spanish, Vietnamese, Chinese, and Cape Verdean Creole. Additional languages are available upon request.



TTAPAN LINE

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ASHMONT

ASHMONT/PEABODY SQ.

EXIT A

Contact Us

- Email: Publicengagement@mbta.com
- Phone: 617-222-3030
- Web: Dedicated Webpage Coming Soon!



Thank you

