



**Massachusetts Bay
Transportation Authority**

South Coast Rail Project Update

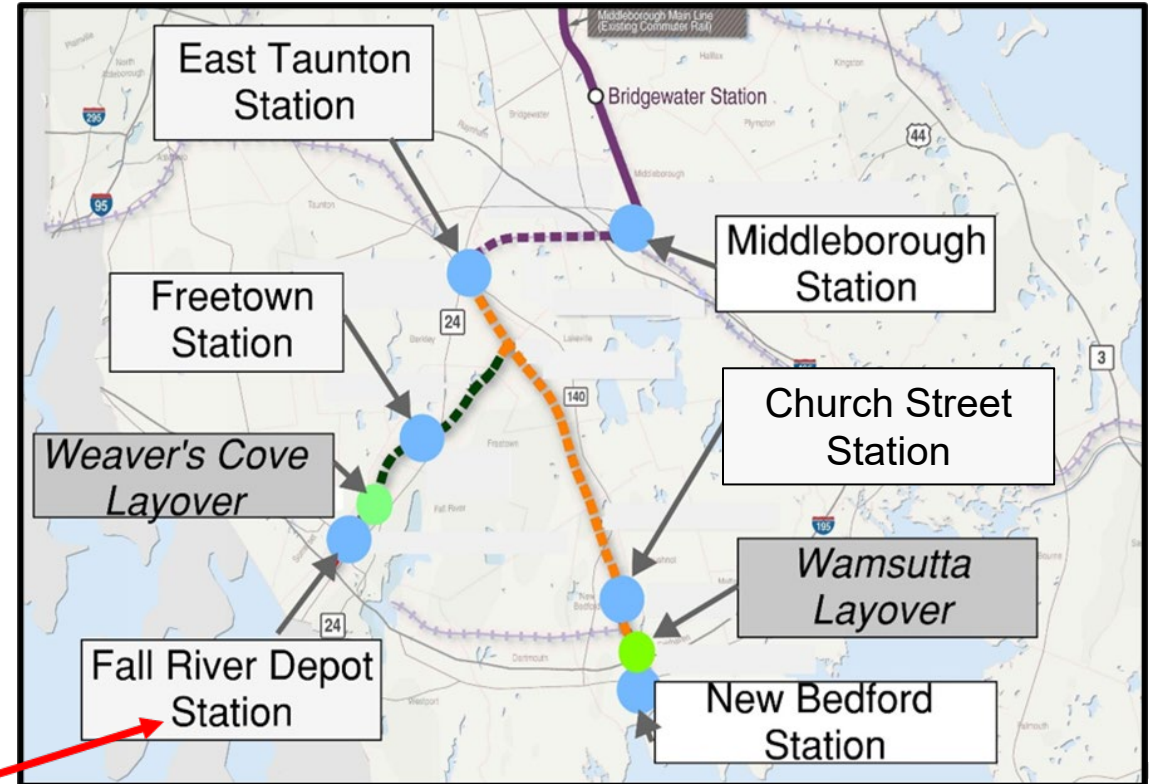
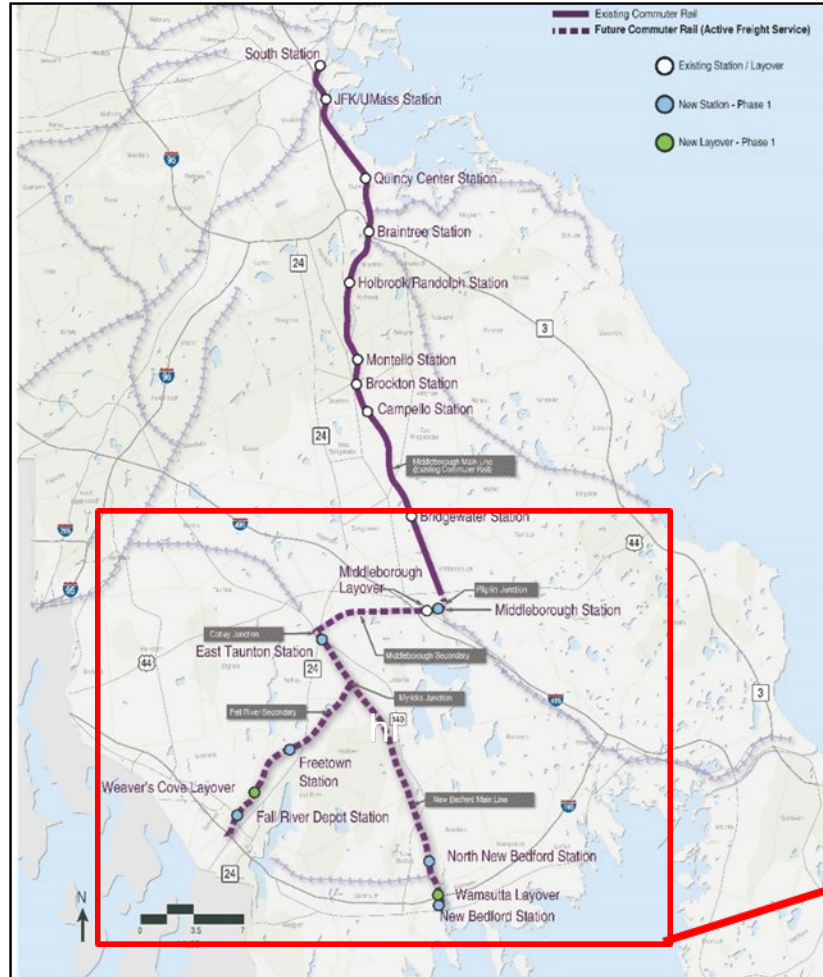
MBTA Board of Directors

September 28, 2023

Sam Zhou, P.E., Chief Engineer

Ryan D. Coholan, Chief Operating Officer

South Coast Rail – Phase I



Background

The South Coast Rail Program is one of the largest rail expansions in recent Massachusetts history.

With \$1.1 billion in Commonwealth funding, South Coast Rail will expand the MBTA commuter rail service from Boston to the cities of Taunton, Fall River, New Bedford, and the Southeastern region.

Phase-1 includes 36 miles of right of way work including; new track, installation of modern signals and communication systems, traffic signal, crosswalks, road work at station entry and the following:

Stations

- Middleborough
- East Taunton
- New Bedford
- Church Street
- Freetown
- Fall River Depot

Layover Facilities

- Wamsutta Layover, New Bedford, MA
- Weaver's Cove Layover, Fall River, MA

Fall River Secondary Line

- 12.1 miles of track
- 8 bridges
- 10 grade crossings
- 10 culverts

Middleborough/New Bedford Main Line

- 24.1 miles of track
- 18-grade crossings
- 11 culverts

Rolling Stock

- 16 Hyundai Rotem Bi Level Coaches
- Overhaul of two existing Locomotives
- Equip MCRR locomotives with PTC
- Upgrade freight yard tracks and sidings



Safety of Project

- Every right-of-way (ROW) grade crossing will include active warning system including crossing gates, bells and lights
- Grade Crossing safety equipment will be activated when MBTA and Keolis begin testing trains on the ROW
- The Safety-First program has been created to alert every community to the startup and testing of SCR vehicles
 - Follow-up email to targeted stakeholders:
 - Schools, municipalities, sportsmen, ATV users, pedestrians, dog walkers and more
 - Requests for presentations are coming in
 - Program includes presentations, theme brochures, handouts and videos
 - Monthly theme messaging started in April
- SCR team meets with regional Fire/Life/Safety agencies
 - Regional emergency services drills
 - July 27 in Freetown for the Freetown and mutual aid departments along the Fall River Secondary.
 - November 19 in New Bedford for the New Bedford Mainline and Middleborough Secondary departments.



Community Engagement

- SCR Community Engagement is robust meeting with:
 - Fall River
 - New Bedford
 - Taunton
 - Middleborough
 - Freetown
 - Berkley
 - Legislative Leaders
 - Municipal Leaders
 - Local Chambers of Commerce
 - Regional Planning Agencies
 - Neighborhood Organizations
 - Elementary, Middle, High School
 - Colleges
- Through September the Community Engagement Team has
 - Respond to hundreds of emails and calls in a timely fashion
 - Held close to 40 municipal meetings and attended 6 public meetings
 - 30 abutter site visits
 - More than a dozen other stakeholder meetings including Fire, Life, Safety meetings, and legislative and municipal briefings
 - Emergency drills with local community police, fire and EMS.
 - 6,000+ email subscribers. To join our email list, please email: SouthCoastRail@dot.state.ma.us



South Coast Rail Construction Accomplishments

Early Action Contracts

- 46 Culverts
- 4 Bridges
- Demolition of Structures
- Long Lead Material Procurement

Construction Contracts

- Fall River Secondary
- Middleborough Secondary/New Bedford Mainline
- New Bedford Pedestrian Bridge
- Off-Site Traffic Mitigation
- Freight Yard Upgrades

Work Complete as of September 15, 2023

- 36 miles of track installed
- 18 Bridges
- 25 Grade Crossings
- 21 additional Culverts
- 2 Stations
- 2 Layover Facilities
- 2 Crew houses
- 50+ Utility Agreements



Current Status

- The Fall River Line construction contract is **substantially complete**; with only final punch list items left to complete.
- The Middleborough/New Bedford Line contract is **85% complete**. Final track, civil and station work are expected to be substantially completed by the end of 2023. ATC/PTC Systems Testing and Commissioning on the Middleborough, New Bedford and Fall River Lines will continue through the spring; followed by Operational Qualification (Field) Training and FRA Simulated Service Demonstration.
- The Off-Site Traffic Mitigation project is **80% complete**. The contractor is closing out East Taunton's construction in October with remaining work at Fall River, New Bedford and Middleborough complete by end of the year.



Next Steps

- East Taunton
 - Station and Elevator Completion
- Automatic Train Control (ATC) testing:
 - Nearly 2,000 required tests
- Positive Train Control (PTC):
 - Software design and verification (lab tests)
- Positive Train Control (PTC):
 - Months of locomotive field testing along all three lines of the South Coast Rail Territory
- Fire/Life Safety Training
- Safety Certification of System
 - Over 200 Safety Critical Elements
 - Bridges, Culverts, Grade Crossings, Walls
 - Track, Stations, Layovers, ATC/PTC Systems, etc.
- Operational Qualification Field testing:
 - Locomotive Crews
 - Commissioning Equipment for Service
- FRA Simulated Service Demonstration
- System Ready for Service



Track & Grade Crossings



Photos

Freetown Station



1. Site Prep and Foundations 2. Sub Surface and Platforms 3. Canopies and Electrical 4. Station Finishes

0% | 10% | 20% | 30% | 40% | 50% | 60% | 70% | 80% | 90% | 100%

Foundation



100% Complete

Platform



100% Complete

Canopy



100% Complete



Fall River Depot



1. Site Prep and Foundations 2. Sub Surface and Platforms 3. Canopies and Electrical 4. Station Finishes

0% | 10% | 20% | 30% | 40% | 50% | 60% | 70% | 80% | 90% | 100%

Foundation



100% Complete

Platform



100% Complete

Canopy



100% Complete

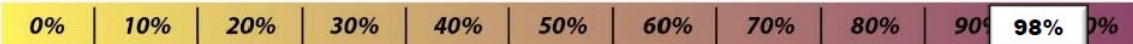


Photos

Middleborough Station



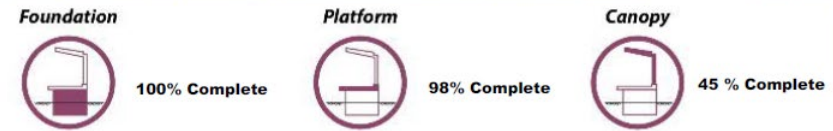
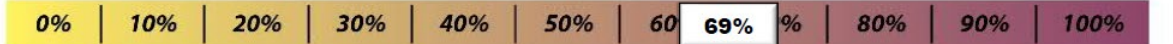
1. Site Prep and Foundations 2. Sub Surface and Platforms 3. Canopies and Electrical 4. Station Finishes



East Taunton Station



1. Site Prep and Foundations 2. Sub Surface and Platforms 3. Canopies and Electrical 4. Station Finishes



East Taunton Station



Photos

Church Street Station



Foundation



100% Complete

Platform



98% Complete

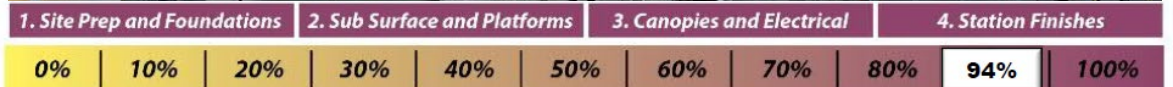
Canopy



100% Complete - Shop DWGs



New Bedford Station



Foundation



100% Complete

Platform



98% Complete

Canopy



54% Complete

