

Massachusetts Bay Transportation Authority

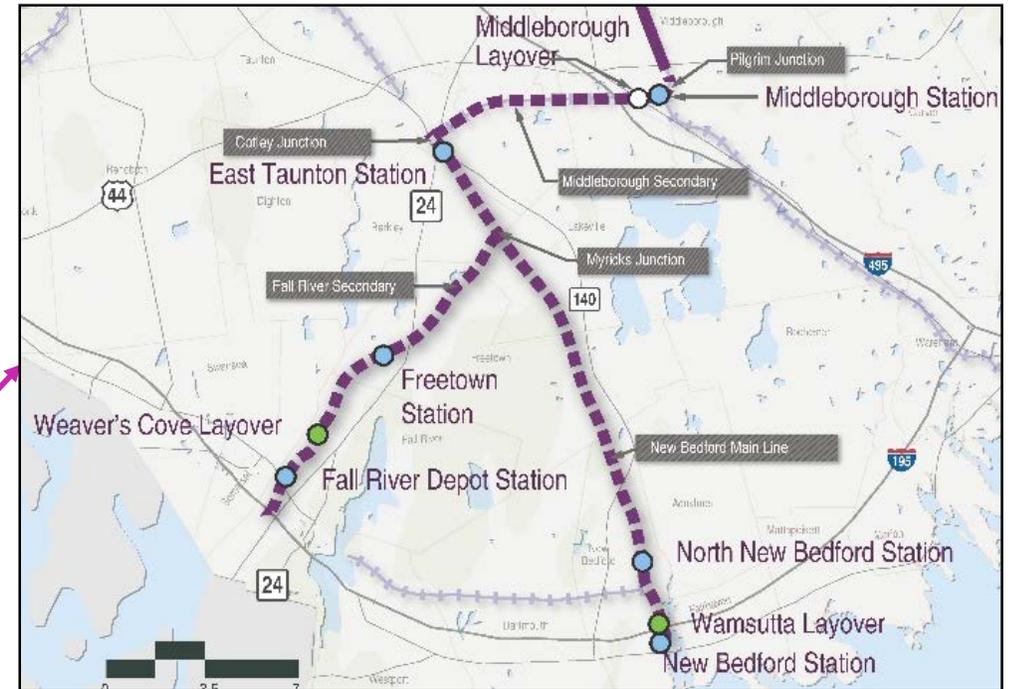
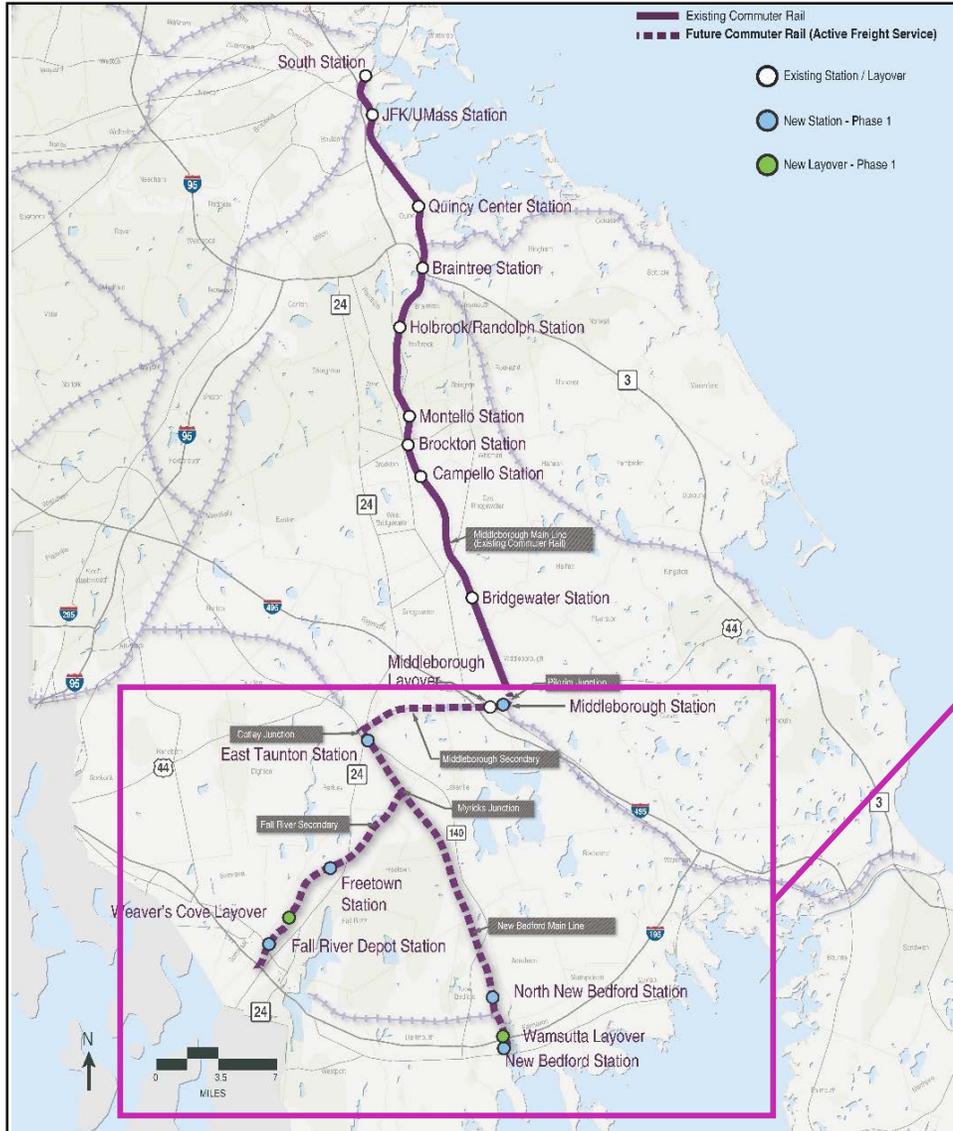
South Coast Rail Phase 1 Update

Joint Meeting of the MassDOT Board & Fiscal and Management Control Board

May 11, 2020

Jennifer Tabakin

Phase 1



Quarterly Update

- Three early construction projects are underway, expected completion in fall 2020
- Two major construction packages will be awarded in May and July
- Land acquisition needed for construction near completion
- Covid-19 precautions for all South Coast Rail employees, contactors, and consultants in place



South Coast Rail Team

MBTA SCR Team:

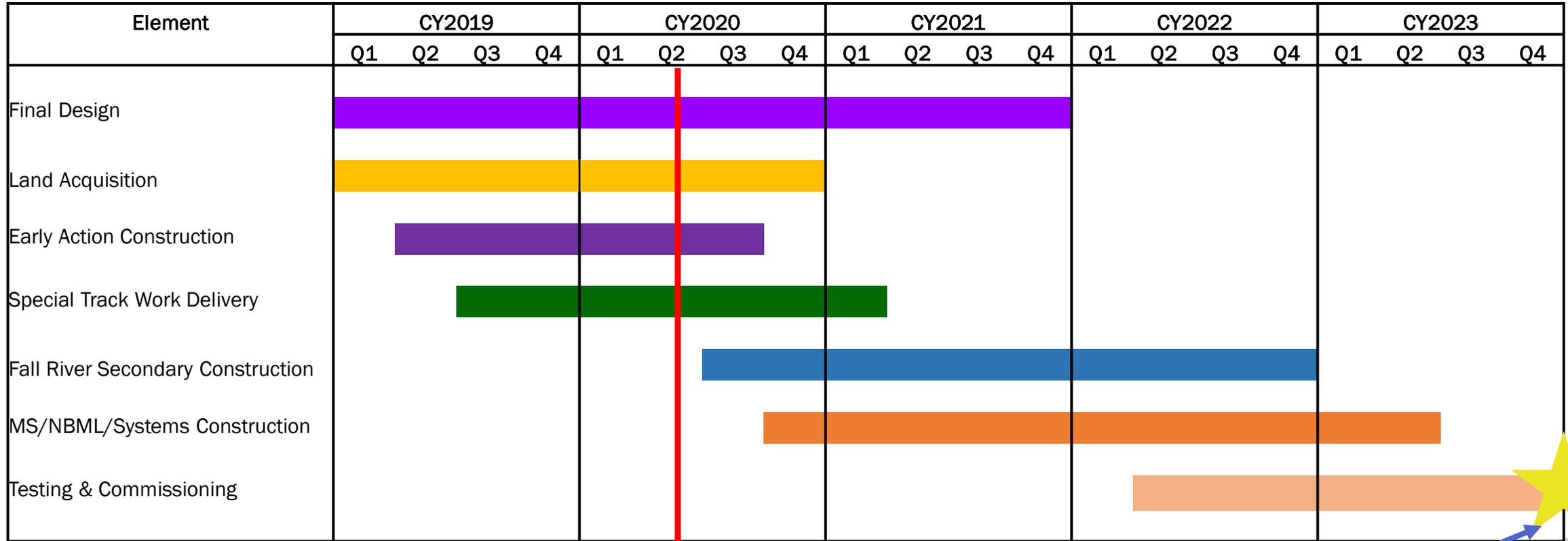
- Program Manager, Jennifer Tabakin; Deputy Program Manager, Michael Fitzgerald; Project Assistant, Joseph Piemonte
- Director of Construction, Kim Dobosz; Director of Community Engagement, Jean Fox; Environmental Director, Holly Palmgren
- Resident Engineers, Dan Letendre, Steve Stock; Inspectors, John Glynn, Carl Duke Nash
- Project Controls, Patrick O'Malley; Budget Analyst, Martin Crowley; Legal, Sarah Bellino, Roger LeBoeuf; Real Estate, Carolann McCarron, James Rush
- New Hires in Progress: Director of Design Administration, Project Assistant, Senior Project Manager
- Capital Support –Procurement, Sean McDonnell; E-Builder, Jennifer Kelley; QA/QC, Patrick Hagerty; Safety, Robert Ortiz; Budget, Joanna Aalto
- Partners: MassDOT District 5, MassDOT Highway, MassDOT Rail and Transit, MBTA Rail Road Operations

Professional Services:

- AECOM and HDR: Project Management/Construction Management – Lou Tucciarone and Anthony Gouveia
- VHB/HNTB Joint Venture: Designer of Record, Rick Carey/Michael Stoffel
- WSP: Owner's Representative, Michael Bertoulin and Chris Barnett



Phase 1 Program Schedule



Start of Revenue Service - Nov. 2023



SCR Overview: Six Stations in Phase 1



Middleborough Station, Pilgrim Junction



East Taunton Station, Route 140

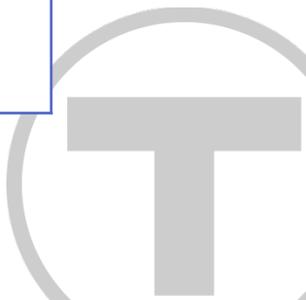
| Station | Parking Spaces |
|------------------|----------------|
| Middleborough | 500 |
| East Taunton | 363 |
| Church Street | 355 |
| New Bedford | 352 |
| Freetown | 107 |
| Fall River Depot | 220 |



SCR Phase 1 – Overview

| Infrastructure | | | |
|------------------------|------------|--------------------|-------|
| SCR | Fall River | MS/NB ML & Systems | Total |
| ROW Miles | 12.1 | 24.1 | 36.2 |
| Track Miles | 12.9 | 35.1 | 48.0 |
| Stations | 2 | 4 | 6 |
| Layovers | 1 | 1 | 2 |
| Grade Crossings | 10 | 18 | 28 |
| Bridges | 8 | 6 | 14 |
| Interlockings | 6 | 12 | 18 |

| Real Estate | | | |
|--------------------------|------------|--------------------|------------|
| SCR | Fall River | MS/NB ML & Systems | Total |
| Fee | 13 | 12 | 24 |
| Perm Easement | 3 | 36 | 39 |
| Temp Easement | 16 | 32 | 45 |
| License Agreement | 3 | 3 | 6 |
| # RE ACTIONS | 35 | 83 | 118 |



SCR Demolition Contract

- Demolition contract was awarded to DW White Construction of Acushnet
- Contract Value is \$1.7M
- Notice to Proceed was issued April 24, 2020
- Work is being done at nine sites with Fall River Secondary sites prioritized
- Early demolition is estimated for completion in November 2020



Upcoming Major Construction

Fall River Secondary

- Advertised on February 14, 2020
- Bids to be opened on May 7, 2020
- Contract estimate \$167M
- Scope
 - 12.1 miles of track
 - 2 new stations
 - Layover facility in Fall River
 - 8 bridges
 - 10 grade crossings
 - 10 culverts
 - Infrastructure
- 30 months of construction

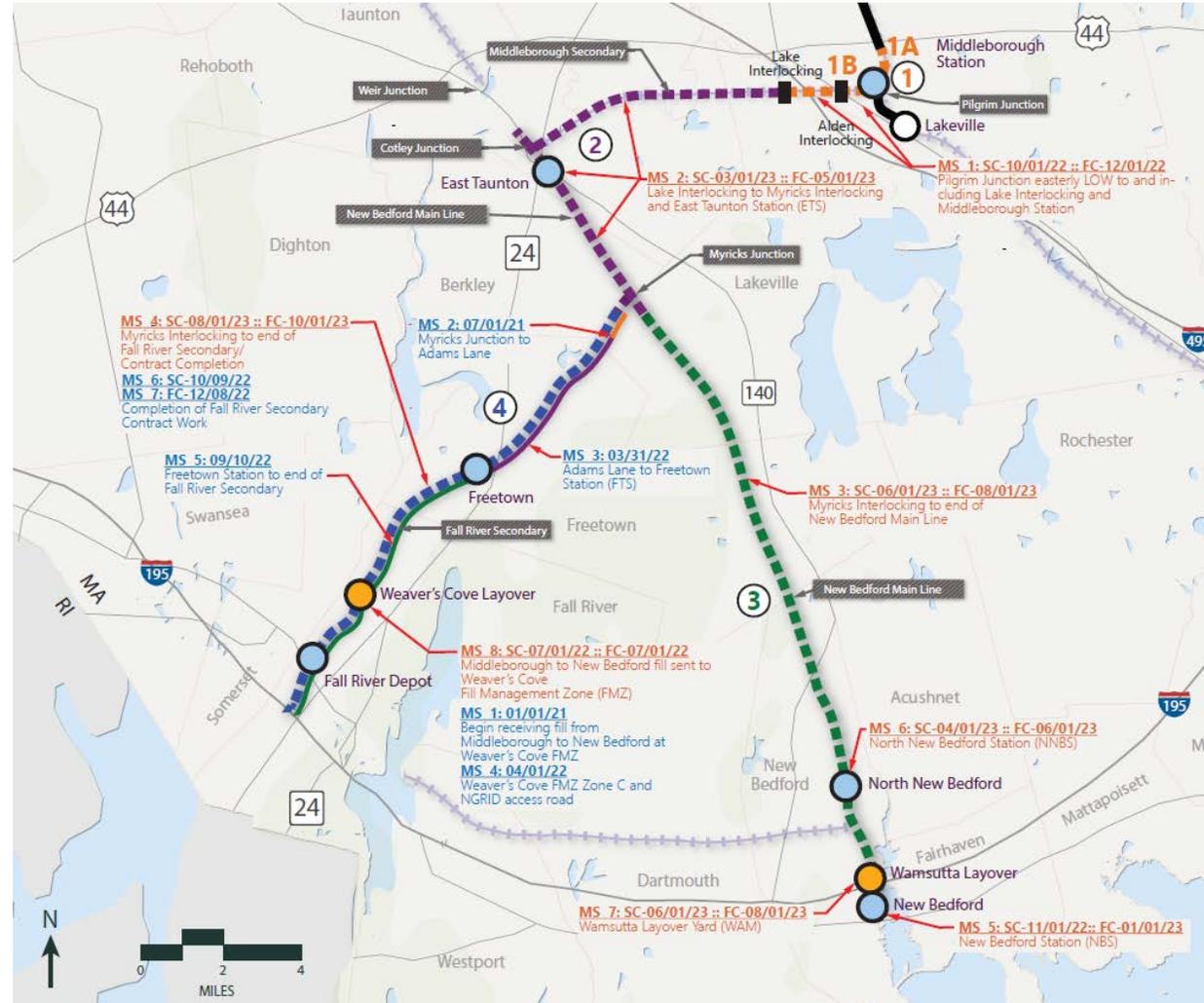
New Bedford/Middleborough Line

- Advertised early May 2020
- Bids to be opened on June 25, 2020
- Contract estimate \$412M
- Scope
 - 24.1 miles of track
 - 4 new stations
 - Layover facility in New Bedford
 - 18 grade crossings
 - 11 culverts
 - Systems and infrastructure
- 39 months of construction



Key Contract Interfaces

- Fill Management Plan
- Myricks Junction
- Signal and PTC Equipment
- Pilgrim Junction
- Testing and Commissioning



Testing and Commissioning

Signal Cutover Plans: Fall River Secondary contract includes two interim milestones for turnover of right-of-way zones to the New Bedford Mainline contractor to install signals and communications and subsequently testing and commissioning

- Testing and Commissioning of South Coast Rail, to start as part of the New Bedford Mainline contract
- Approach to testing: four phases or zones over 12 month period

Advantages of a phased approach:

- I. Allows for leveling of technical commissioning resources
- II. Reduces overall schedule risk by performing segmental cutovers
- III. Reduces impacts on existing commuter rail operations to South Station during commissioning phase



Fall River Secondary Contract

- 2 stations
- 1 overhead bridge
- 7 under-grade bridges
- Weaver's Cove Layover Facility
- 10 grade crossings
- 6 interlockings
- 12.1 miles of right of way



Freetown Station

Fall River Layover: Weaver's Cove

- 6 tracks
- Crew quarters – 1800 sq. ft., one-story building
- Layover Secure
- Employee Parking

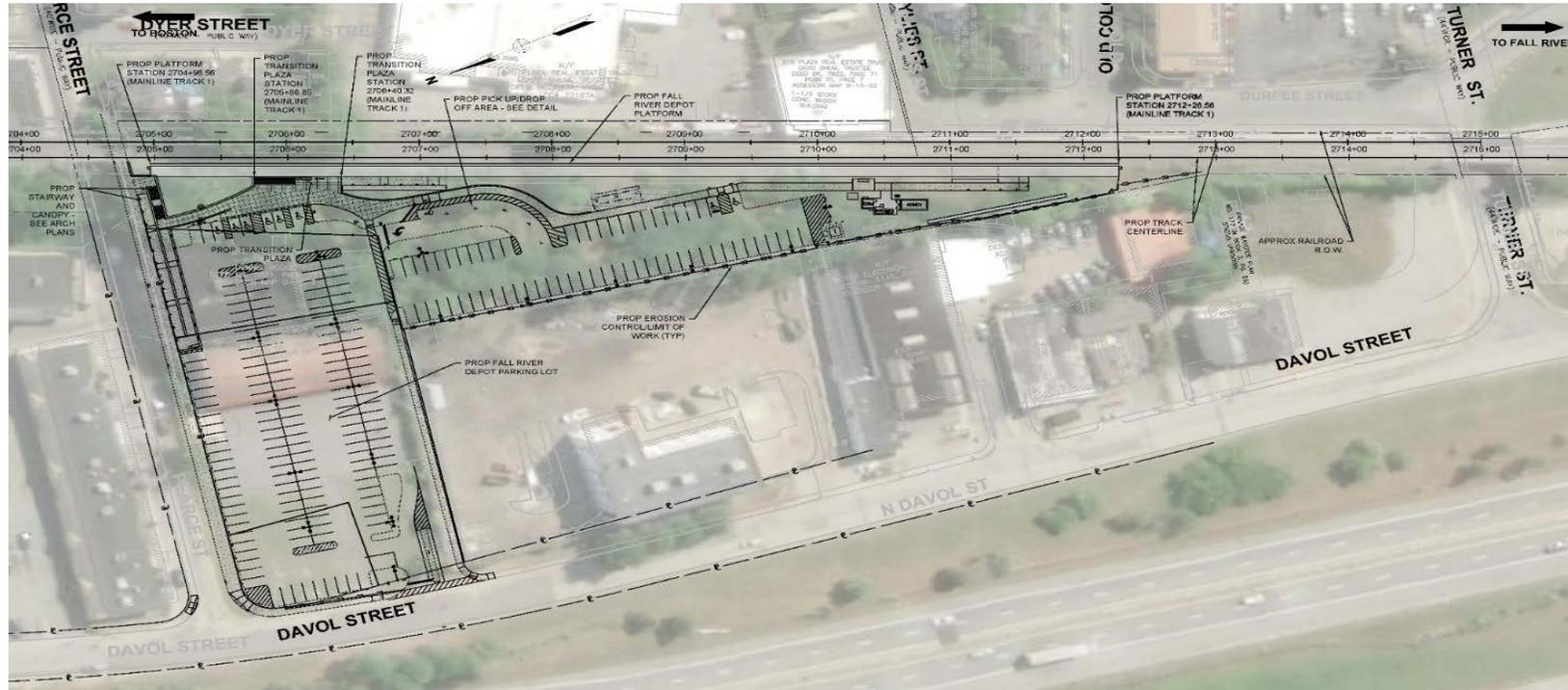


Weaver's Cove Layover Facility



Fall River Depot Station

- Located at Route 79 and Davol Street in the vicinity of the historic Fall River Station
- 730-foot platform with canopy between Turner Street and Pearce Street
- Parking: 220 vehicular spaces, 22 bicycle spaces, accessible parking, and EV charging spaces
- Accessible drop-off/pick-up location

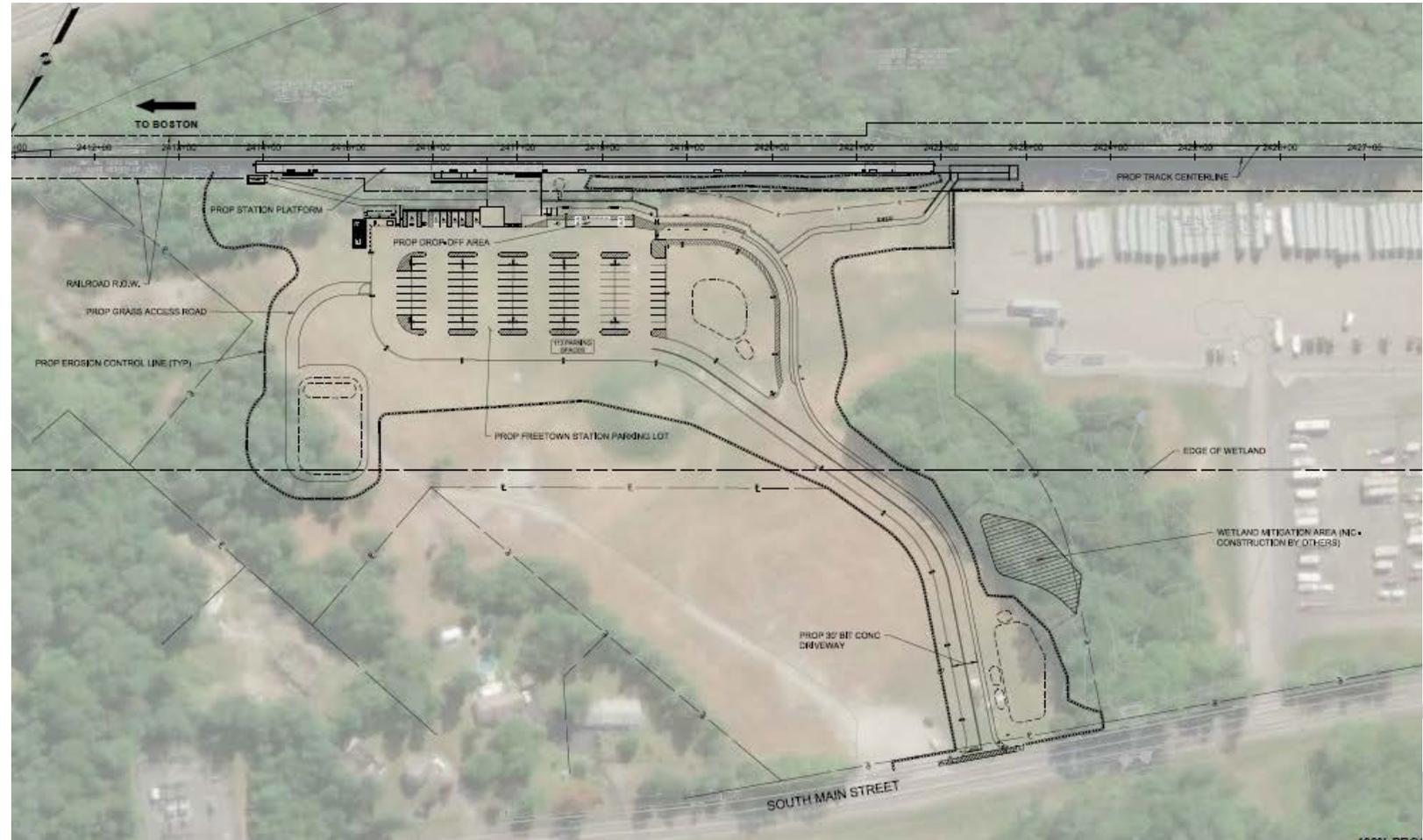


Fall River Depot



Freetown Station

- Located at 165 South Main Street
- 800 foot platform with canopy
- 107 parking spaces
- 22 bicycle parking spaces
- 6 accessible parking spaces and 2 EV charging spaces
- Accessible drop-off/pick-up location



Freetown Station

New Bedford/Middleborough Contract Overview

- 4 stations
- 6 overhead bridges
- 1 under-grade bridge
- Wamsutta Layover Facility
- 10 grade crossings
- 12 interlockings
- 24.1 miles of right of way



Middleboro Station

New Bedford/Middleborough Contract Stations

- Middleborough Station
- East Taunton Station
- Church Street Station
(formerly North New Bedford)
- New Bedford Station



New Bedford Station



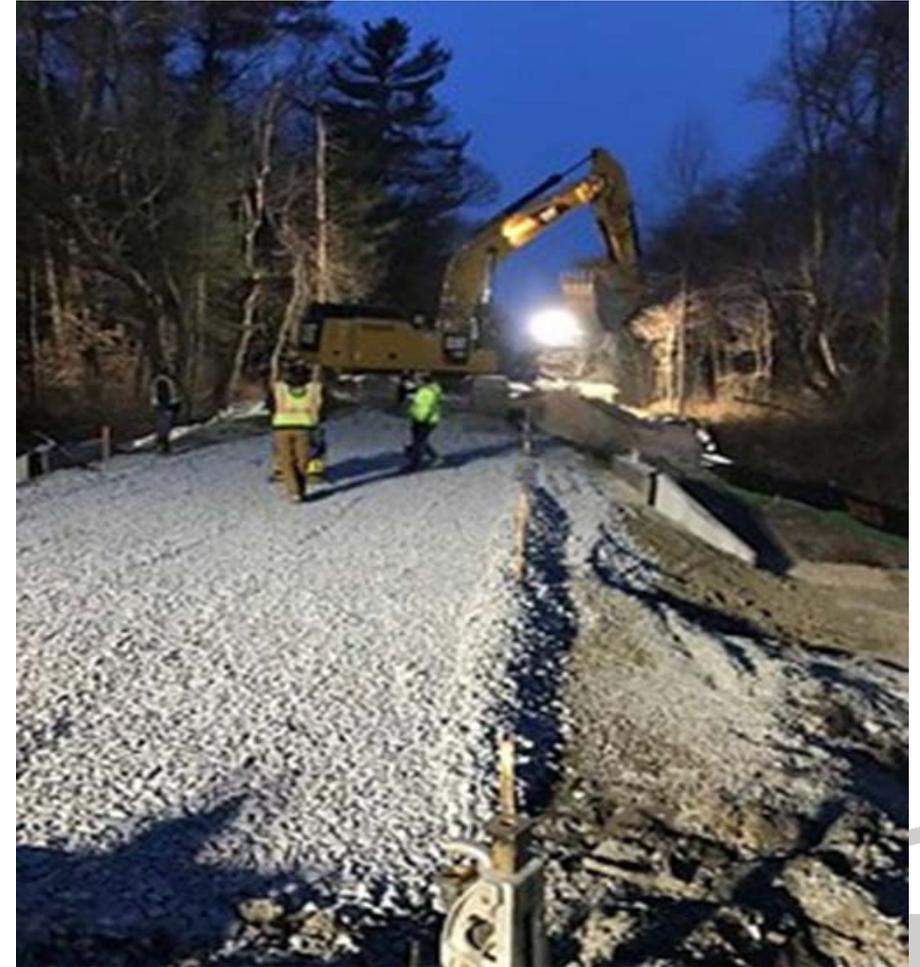
MassDOT 46 Culverts and Four Bridges

46 Early Action Culverts

- \$18.3M
- Final completion in June 2020

Four Early Action Bridges

- \$26.1M
- Final completion in November 2020



Culvert Work

South Coast Rail Authorized Funds

| SCR Funding – MBTA and DOT | | |
|----------------------------|------------------------------------------------|------------------------|
| FMCB Approval | Interagency Service Agreement Funding | Funds Authorized |
| 1/24/20 | SCR MBTA Phase I and FB Design (S19001) | 862,750,000 |
| 1/24/20 | <i>Construction (S19001 Am2)</i> | 632,750,000 |
| 11/13/19 | <i>Professional Services (S19001 Am1)</i> | 122,000,000 |
| 5/7/19 | <i>CM/PM, Force, land, admin (S19001 base)</i> | 108,000,000 |
| 11/27/19 | SCR 16 Coaches (S20001) | 69,037,292 |
| 6/30/14 | SCR Early Design (S15001) | 27,094,942 |
| 8/1/2015 | Owner Rep (S15004) | 10,000,000 |
| | MBTA Project Administration | 20,000,000 |
| | MBTA Authorized Funds | \$988,882,234 |
| | DOT SCR Committed Funds | \$153,679,000 |
| | SCR TOTAL Authorized | \$1,142,562,348 |



South Coast Rail Budget FY20 – FY25

| SCR Cash Flow – FY20-25 | |
|----------------------------------------|------------------|
| Construction | \$664,345 |
| Professional Services | 119,669 |
| Material Procurement | 9,845 |
| Vehicle Procurement | 76,038 |
| Noise Mitigation | 11,529 |
| Land Acquisition | 18,075 |
| Third Party Force Account | 25,135 |
| MBTA Proj Admin | 22,000 |
| Program Contingency | 16,684 |
| SCR FY20-FY25 Phase I TOTAL | 963,320 |
| Full Build Design FY21-FY25 | 88,662 |
| SCR FY20-FY25 Ph 1 and FB TOTAL | 1,051,982 |
| SCR FY17-FY19 | 90,580 |
| TOTAL | 1,142,562 |



| Construction – FY20-25 | |
|---------------------------------|------------------|
| DOT Culverts | 16,960 |
| DOT Four Bridges | 22,356 |
| Building Demolition | 1,745 |
| DOT Rt 24 Bridge | 27,557 |
| New Bedford ML / MS and Signals | 412,325 |
| Fall River Secondary | 167,026 |
| New Bedford Pedestrian Bridge | 8,578 |
| Traffic Mitigation | 7,798 |
| TOTAL | \$664,345 |



SCR Capital Spending Plan FY20 – FY25

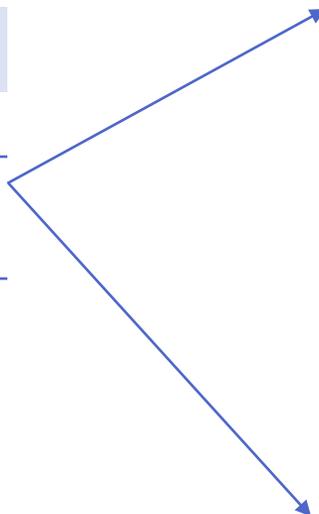
| SCR Capital Spend Plan | |
|------------------------|--------------------|
| Fiscal Year 20 | 98,197 |
| Fiscal Year 21 | 132,870 |
| Fiscal Year 22 | 345,205 |
| Fiscal Year 23 | 367,341 |
| Fiscal Year 24 | 81,092 |
| Fiscal Year 25 | 27,277 |
| Total | \$1,051,982 |

SCR MBTA

| | |
|----------------|---------------|
| Fiscal Year 20 | 45.4 |
| Fiscal Year 21 | 122.10 |
| Fiscal Year 22 | 338.30 |
| Fiscal Year 23 | 360.40 |
| Fiscal Year 24 | 74.20 |
| Fiscal Year 25 | 20.40 |
| Total | 960.80 |

SCR Mass DOT

| | |
|----------------|--------------|
| Fiscal Year 20 | 52.80 |
| Fiscal Year 21 | 10.80 |
| Fiscal Year 22 | 6.90 |
| Fiscal Year 23 | 6.90 |
| Fiscal Year 24 | 6.90 |
| Fiscal Year 25 | 6.90 |
| Total | 91.20 |



South Coast Rail Awarded Construction Contracts

| Construction Award | Contractor | FY2019 | FY2020 | FY2021 |
|------------------------------|------------------------------|-------------|--------------|--------------|
| DOT Early Action Culverts | JF White | 18.3 | | |
| DOT Four Bridges | JF White | 22.6 | | |
| DOT Track Material | Progress Rail | 9.6 | | |
| DOT Route 24 Bridge | TBD | | | 27 |
| 16 Bi Level Coaches | Hun R. | | 69.1 | |
| Demolition | DW White Const | | 1.7 | |
| Fall River Secondary | TBD | | 167 | |
| New Bedford / Middleboro | TBD | | | 412 |
| New Bedford Ped Bridge | TBD | | | 8.7 |
| Traffic Mitigation | TBD | | | 7.8 |
| Third Party Force Account | 51 Utilities, 6 Railroads | | 25 | |
| TOTAL AWARDED | | 50.5 | 262.8 | 455.5 |

- ✓ By June 2020, \$313.3M contracts awarded, including Fall River Secondary
- ✓ By June 2021, over \$768.8M in SCR construction, material work committed.
- ✓ Hard costs only,



Stakeholder Engagement

- **Partnering** with local government, business groups, and local stakeholders
- **Technical Assistance Grant Program:** provides funding to support planning and zoning studies to use for economic development around new stations
- **Noise Mitigation for Operating RR:** funds available for eligible properties
- **Construction Impacts:** working with communities to address impacts of construction
- **Outreach plan:** construction notifications and updates, weekly newsletters, quarterly fact sheets, blogs, social media exposure, and the website.
- **Monthly stakeholder meetings** are ongoing in two communities, with additional communities planned
- **SCR Hotline** will be provided for questions or concerns



Look Ahead

- Summer 2020: come to the Board to award K78CN04 New Bedford/Middleborough Signals contact
- Design underway for the traffic mitigation
- Design underway for the New Bedford Pedestrian Bridge
- Full Build design to continue into FY 2021



South Coast Rail Project Web Site: www.mass.gov/southcoastrail



New Bedford Station



Weekday Service Under Phase 1

- Less than a 90 minute ride from Boston to New Bedford/Fall River.
- One-seat ride from Boston to New Bedford/Fall River.
- SCR service will be an extension of the existing Middleborough/Lakeville service.

| | In/Out | Peak |
|----------------------|--------|------------|
| New Bedford | 14 | 3 AM, 3 PM |
| Fall River, Freetown | 12 | 3 AM, 3 PM |
| Taunton, Middleboro | 26 | 6 AM, 6 PM |

