



Massachusetts Department of Transportation

**Transit Commitments
January 2010 Status Report**

January 21, 2010

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INTRODUCTION

This report is being submitted to the Federal Highway Administration (FHWA) and the Federal Transit Administration (FTA) to provide an update on the status of the four outstanding State Implementation Plan (SIP) transportation control measure (TCM) projects: (1) improvements to the Fairmount Line, (2) the siting and construction of 1,000 new commuter parking spaces, (3) the design of the Red Line/Blue Line Connector, and (4) the construction of the Green Line Extension to College Avenue (Medford) and Union Square (Somerville). The U.S. Environmental Protection Agency (EPA) approved the projects as part of the SIP on July 31, 2008. A complete description of the process by which those projects were included in the SIP is provided in the Boston Region MPO's long-range transportation plan – JOURNEY TO 2030 Amendment adopted on September 24, 2009. As part of the approval of the JOURNEY TO 2030 Amendment, FHWA and FTA stated:

“The demonstration of timely implementation of TCMs in the SIP is required for a conformity determination. In order to ensure that the TCMs are completed as scheduled, the Executive Office of Transportation and Public Works shall prepare monthly progress reports to FTA, FHWA, and EPA. In addition to these progress reports EOT (MassDOT after November 1, 2009) shall convene monthly meetings with all interested parties to discuss the status of each TCM. This reporting requirement will be effective starting November 2009.”

This is the third of the required status reports, to be presented at the Boston MPO's Transportation Planning and Programming Committee at their January 21, 2010 meeting. This report builds on the *State Implementation Plan Transit Commitments 2009 Status Report*, submitted to the Massachusetts Department of Environmental Protection on July 1, 2009. This report will be posted on the website of the Massachusetts Department of Transportation.

I. FAIRMOUNT LINE IMPROVEMENT PROJECT

Project Description

The 9.2-mile Fairmount commuter rail line runs from South Station, currently serves four stations (Uphams Corner, Morton Street, Fairmount, and Readville) in the communities of Dorchester, Mattapan, and Hyde Park, and terminates in the Readville section of Boston. The line, which uses right-of-way entirely owned by the MBTA, also includes 41 bridges. It is the only MBTA commuter rail line that exclusively serves neighborhoods within the City of Boston, but ridership has historically been low and passenger facilities along the line do not meet modern standards.

The Fairmount Line Project includes the rehabilitation of the existing Uphams Corner and Morton Street Stations, construction of four new stations – Newmarket, Four Corners, Talbot Avenue, and Blue Hill Avenue – reconstruction of six existing railroad bridges (located over Columbia Road, Quincy Street, Massachusetts Avenue, Talbot Avenue, Woodrow Avenue, and the Neponset River), and construction of a new interlocking and upgraded signal system (required to advance the bridge reconstruction work). These upgrades will enhance future service, allowing for increased frequency on the line.

Project Cost

The total estimate for the Fairmount Line Improvements SIP Project is \$138,105,000.

Project Funding

In August 2007, MassDOT and the MBTA executed a contract to transfer approximately \$39 million in Commonwealth bond funds from MassDOT to the MBTA to support the costs of (1) signal work, (2) reconstructing three major bridges on the line (the Columbia road, Quincy Street, and Massachusetts Avenue bridges), (3) designing three others (the Talbot Avenue, Woodrow Avenue, and Neponset River bridges), and (4) designing the remaining three new stations (the Newmarket, Talbot, and Blue Hill Avenue stations). A supplemental funding agreement providing \$23,756,574 in Commonwealth bond funding has been executed for the cost of construction of the Four Corners Station, a construction contract was executed by the Acting General Manager during the week of January 11.

SIP Deadline

“Before December 31, 2011, construction of the following facilities shall be completed and opened to full public use: Fairmount Line improvements consisting of enhancements of existing stations including without limitation: platform extensions; improved lighting and improved access; a new station in the general location of Four Corners, and a new station in each of the neighborhoods of Dorchester, Mattapan and Roxbury; and bridge upgrades and other measures to improve service and increase ridership (the Fairmount Line project).”

Project Status

Systems

The upgrades to the interlocking and signal system have been completed and are currently in use, allowing for the reconstruction of structurally deficient bridges along the Fairmount Line.

Bridges

A construction contract to replace the Columbia Road, Quincy Street, and Massachusetts Avenue bridges was awarded in October of 2007, with work currently scheduled to be completed in 2010. The design of the Talbot Avenue, Woodrow Avenue, and Neponset River bridges is 100% complete and construction is expected to begin in the spring of 2010. Talbot Avenue and Woodrow Avenue will be constructed under the same construction contract as the Talbot Avenue Station with the project construction bid advertisement anticipated for January/February 2010 with finalization of the state funding agreement. The Neponset River Bridge will be a stand-alone construction project occurring at the same time.

Existing Stations

The MBTA held a station-opening at Uphams Corner on January 23, 2007. The reconstruction of Morton Street was celebrated at a station-opening on July 17, 2007. New elements at both stations include extended high-level passenger platforms, accessible walkways, canopies, benches, windscreens, signage, bicycle racks, variable messages signs, lighting, and landscaping.

New Stations

The MBTA has completed the design of **Four Corners Station**. Construction bids were opened in October 2009. The MBTA Board of directors approved authorization of a \$17.7 million construction contract award to S & R Construction at its December 2009 meeting. The contract was executed by the Acting General Manager during the week January 11, 2010. The construction of the Four Corners Station will begin in the spring of 2010 and is anticipated to continue for 24 to 27 months. This construction projection suggests that this station will be completed three to six months after the SIP deadline of December 31, 2011.

Currently, **Talbot Avenue Station** is at 100% design and the MBTA anticipates putting the project out to bid for construction in January/February 2010. This construction package will also include the rehabilitation of the Talbot Avenue and Woodrow Avenue Bridges. An approximately two-year construction period is anticipated. MassDOT and the MBTA currently estimate that the completion of this station will be delayed past the December 31, 2011 SIP deadline by approximately six to nine months.

Newmarket Station is currently at 100% design. The construction of this station will be advertised shortly. MassDOT and the MBTA currently estimate that the

completion of this station will be delayed past the December 31, 2011 SIP deadline by approximately six to nine months.

Blue Hill Avenue/Cummins Highway is at 60% design, but concerns raised by abutters about negative local impacts compelled the MBTA to review potential alternative locations for Mattapan Station. A technical assessment of an alternative station site in the River Street area has been completed, and the MBTA has once again determined that the Blue Hill Avenue/Cummins Highway location is the best site for a Mattapan-area station. MassDOT and the MBTA are now readying to meet with community members to attempt to find a positive resolution to the issue. Depending on the outcome of this civic engagement effort, the MBTA hopes to complete final design of a Mattapan station in 2010 and maintain the schedule for meeting the December 2011 deadline.

Potential Challenges

Should the construction projections for the Four Corners, Talbot, and Newmarket Stations prove accurate, the delay would trigger the need for MassDOT to collaborate with DEP to publicly develop a mitigation proposal for the interim months. In addition, abutter concerns about the preferred location for a Mattapan station may impact the final completion schedule for the overall Fairmount project.

II. CONSTRUCTION OF 1,000 NEW PARKING SPACES

Project Description

The MBTA will construct 1,000 new parking spaces within the area of the Boston Region Metropolitan Planning Organization to encourage commuters and other travelers to make use of the public transit network for trips into downtown Boston. MassDOT and the MBTA have identified the Beverly Commuter Rail Station and the Salem Commuter Rail Station as good candidates for new parking structures. The MBTA is also implementing new parking spaces at other locations throughout the area of the Boston Region MPO.

Project Cost

Beverly cost estimate (concept level): \$20,300,000

Salem cost estimate (pre-30%): \$45,000,000

Project Funding

MassDOT will fund the costs of the Beverly and Salem parking projects . The costs of other parking projects will be supported by the MBTA.

SIP Deadline

Before December 31, 2011, construction of the following facilities shall be completed and opened to full public use: 1000 new park and ride parking spaces serving commuter transit facilities within the 101 cities and towns constituting the Boston Metropolitan Planning Organization.

Project Status

Beverly

On June 8, 2008, the MBTA issued a solicitation for a mixed-use development – to include the parking as well as other uses – for appropriate parcels in the vicinity of the Beverly commuter rail station. Proposals were received by the advertised deadline of August 8, 2008, and based on these proposals, MassDOT and the MBTA selected a preferred location on a series of parcels on Rantoul Street in downtown Beverly. Based on that selection, the MBTA completed the federal environmental review of the project. At its meeting on June 4, 2009, the MBTA Board of Directors voted to acquire the property using state and federal funding. Land acquisition was completed over the summer.

No responsive bids were received in Fall 2009 for joint public-private development of the garage facility. An alternative implementation plan is underway to initiate design of a stand-alone garage facility and undertake a Construction Management At Risk procurement under Massachusetts General Laws Chapter 149A. Action is pending for a future MBTA Board of Directors meeting seeking authorization for the Authority to apply with the Inspector General's office to pursue the alternative procurement option and facilitate meeting the SIP project deadline of December

2011. MassDOT has agreed to assist in the public costs of the Beverly project with the primary requirement that the project meet the overall completion deadlines identified in the SIP. Proposed schedule for implementation includes:

- February 2010 through Summer 2010: Design/Permitting
- Fall 2010: Construction Start
- Spring/Summer 2011: Construction Completion (34 weeks)

Salem

The parking garage at the Salem commuter rail station would contain approximately 750 spaces in a multi-level structure to be shared proportionately between the MBTA and the Department of Capital Asset Management (DCAM). Currently, DCAM proposes to contribute \$3 million in exchange for the use of 150 spaces to serve the new Essex County Courthouse complex. The project is estimated to cost approximately \$45 million. In addition to the \$3 million in DCAM funding, the FTA has earmarked \$3.375 million for the project.

The contract amendment to advance design of the 750 space Salem parking garage to 30% was approved by the MBTA and work commenced in early June, 2009. The 30% design was completed in December 2009. The funding agreement is pending to complete the final design. The final design contract scope is scheduled for a future MBTA Board of Directors meeting.

Other Projects

In addition to the projects described above, MassDOT and the MBTA is and will continue to pursue other parking projects that will support the SIP requirement, including the construction of parking at Wonderland Station, at Quincy Shipyard (168 new spaces currently under construction and anticipated for completion in 2010), Savin Hill station (30 new spaces completed), and Sullivan Square station (10 new spaces completed). MassDOT and the MBTA will continue to seek out all viable opportunities to add commuter parking to the MBTA system, while also pursuing large projects like those at Salem, Wonderland, and Beverly.

The Wonderland project is worth particular note because it is advancing quickly, in part due to funding from the American Recovery and Reinvestment Act (ARRA). The availability of ARRA funding is making it possible for more Wonderland parking spaces to be completed more quickly than originally anticipated.

Completion of all of the projects identified here will provide new commuter parking spaces in excess of the 1,000 required by the SIP.

Potential Challenges

The process of identifying appropriate locations in which to construct the required 1,000 new parking spaces has been lengthier than expected. While the effort is now underway

and locations for the construction of new large-scale MBTA parking facilities have been identified (to date: the MBTA Commuter Rail stations in Salem and Beverly, as well as a transit-oriented development project at Wonderland Station), the exact timeframe within which all of the 1,000 spaces will be constructed is not fully defined. Current projections suggest that the Wonderland Station project will be in construction at the time of the required SIP deadline of December 31, 2011, but substantial completion will likely occur several months after the deadline. Likewise, both the Salem and Beverly projects may be completed after the required SIP deadline of December 31, 2011. Should construction estimates project that all 1,000 spaces will still likely not be completed by the SIP deadline, the delay would trigger the need for MassDOT to collaborate with DEP to publicly develop a mitigation proposal for the interim months.

III. RED LINE-BLUE LINE CONNECTOR - DESIGN

Project Description

The proposed Red Line/Blue Line Connector – intended to improve mobility and regional transportation access for residents of East Boston and North Shore communities and the residents of Cambridge and the northwestern suburbs, as well as relieve congestion in the central subway – consists of an extension of the MBTA Blue Line under Cambridge Street to the Red Line station at Charles/MGH. As currently envisioned, the project consists of two major components: (1) a new tunnel extending the Blue Line under Cambridge Street from Joy Street to Charles Circle and (2) a new underground Blue Line station connected to the existing Charles/MGH station. The project will also consider whether and how to make use of the existing Bowdoin Station – which will require significant rehabilitation – possibly including the relocation of underground trackage and platforms at Bowdoin Station. The exact configurations of both the Charles/MGH platform and the new Blue Line station have not yet been determined.

Project Cost

It is estimated that it will require \$30,000,000 to complete the legal commitment (the current consultant contract is for \$3,000,000 to complete a Draft Environmental Impact Report by June 2010).

Project Funding

The ‘immediate needs’ Transportation Bond Bill of 2007 provided state bond funding for the design of the Red Line/Blue Line Connector project. The costs of this project will be supported using funds from that source.

SIP Deadline

Before December 31, 2011, complete final design of the Red Line/Blue Line Connector, from the Blue Line at Government Center to the Red Line at Charles Station.

Project Status

On September 14, 2007, MassDOT filed an Expanded Environmental Notification Form with the Massachusetts Environmental Policy Act Office. A public scoping session was held on October 17, 2007, and the Secretary of Energy & Environmental Affairs issued a certificate on the project on November 15, 2007. Based on the project scope as defined in the MEPA Certificate, MassDOT issued a Request for Proposals on March 27, 2008 for a consultant to complete the necessary environmental reviews and engineering for the project. MassDOT awarded a consultant contract during the summer of 2008.

MassDOT is completing the necessary environmental reviews and conceptual engineering for the project, as described below.

Public Outreach

- Five Working Group meetings have been held with the most recent one on December 14. Additional Working Group meetings will be scheduled every two months until the Draft Environmental Impact Report is submitted.
- A project website has been launched.

Refinement of Alternatives/Conceptual Engineering

- The refinement of alternatives was performed for three options: (1) a no-build option, (2) a tunnel option with Bowdoin Station remaining open, and (3) a tunnel option with Bowdoin Station eliminated. The refinement of alternatives also included an evaluation of potential construction options (a mined tunnel vs. a cut-and-cover tunnel) and construction phasing schemes.
- The Definition of Alternatives/Conceptual Engineering Report was completed in November 2009.

Design Criteria

- A draft Design Criteria Report was prepared and was included with the Definition of Alternatives Report.

Alternatives Analysis

- Alternatives Analysis will be completed January 2010.

Design

- The conceptual design of the project is underway.

Cost Estimates

- Conceptual cost estimates were included in the Definition of Alternatives Report.

Construction Staging and Sequencing Plans

- Construction Staging and Sequencing Plans were included in the Definition of Alternatives Report.

Real Estate Requirements

- Potential real estate impacts will be identified as part of DEIR/EA.

The following major milestones are anticipated over the course of the next year:

- Alternatives Analysis Report – January 2010
- Draft Environmental Impact Report – Spring 2010

By filing an Expanded Environmental Notification Form and having successfully selected a design consultant, MassDOT is advancing the Red Line/Blue Line Connector project. MassDOT currently believes that it is on track to meet the SIP requirement to complete final design for the Red Line/Blue Line Connector by December 31, 2011.

Potential Challenges

There has been some unfavorable press coverage about the Red Line/Blue Line project spending \$3 million on a project that does not currently have capital funds for construction. There is the possibility that soliciting proposals for the approximately \$25 million required to comply with the legal commitment will generate additional negative publicity given recent reviews of the state of the MBTA's finances.

IV. GREEN LINE EXTENSION TO SOMERVILLE AND MEDFORD

Project Description

This project - the purpose of which is to improve corridor mobility, boost transit ridership, improve regional air quality, ensure equitable distribution of transit services, and support opportunities for smart growth initiatives and sustainable development – will extend the Green Line from a relocated Lechmere Station within the MBTA’s Lowell Line commuter rail right-of-way to Medford with a branch line along the MBTA’s Fitchburg Line commuter rail right-of-way to the vicinity of Union Square in Somerville.

Stations are currently proposed to be located in the vicinity of:

- **Mystic Valley Parkway/Route 16** – Located in the vicinity of the intersection of Mystic Valley Parkway/Route 16 and Boston Avenue in Somerville/Medford, south of the Mystic River. The station platform will be located south of the Mystic Valley Parkway/Route 16 undergrade crossing of the MBTA’s Lowell Line commuter rail tracks. Access to the station will be provided via property adjacent to Boston Avenue and Route 16. *This station is proposed to be constructed as part of a second phase of the project, to be completed after the December 31, 2014 legal deadline.*
- **College Avenue/Medford Hillside** – Located at the intersection of College Avenue and Boston Avenue in Medford, adjacent to Tufts University. The station platform will be located on the north side of the College Avenue overgrade bridge crossing of the MBTA’s Lowell Line commuter rail tracks. Access to the station will be provided from both Boston Avenue and College Avenue.
- **Broadway/Ball Square, Medford/Somerville** – Located at the intersection of Broadway and Boston Avenue on the north side of Ball Square (located in both Somerville and Medford). The station platform will be located on the north side of the Broadway overgrade bridge crossing of the MBTA’s Lowell Line commuter rail tracks. Access to the station will be provided from both Boston Avenue and from Broadway.
- **Lowell Street, Somerville** – Located at the Lowell Street bridge overgrade crossing of the MBTA’s Lowell Line commuter rail tracks, adjacent to the proposed Somerville Community Path. The station platform will be located on the north side of the Lowell Street Bridge and access to the station will be provided from Lowell Street.
- **Gilman Square, Somerville** – Located in the vicinity of the Medford Street crossing of the MBTA’s Lowell Line commuter rail tracks, behind Somerville’s City Hall, Public Library, and High School. The station platform will be located on the north side of the Medford Street overgrade bridge crossing of the MBTA’s Lowell Line commuter rail tracks. Access to the station will be provided from Medford Street. The proposed Somerville Community Path will be located in close proximity to the station.

- **Brickbottom, Somerville** – Located in the vicinity of Washington and Joy Streets in Somerville’s Brickbottom/Inner Belt area. The station platform will be located south of Washington Street’s undergrade crossing of the MBTA’s Lowell Line commuter rail tracks. Access to the station will be provided via property on Joy Street, with potential access also to occur from the City’s proposed Inner Belt development on the east. The proposed Somerville Community Path will be located in close proximity to the station.
- **Union Square, Somerville** – Located east of Prospect Street in the vicinity of Union Square in Somerville. The station platform will be located within the MBTA’s Fitchburg Line commuter rail right-of-way east of Prospect Street from both the street and bridge levels. Access to this station will be provided from Prospect Street.

Support Facility

The Green Line Extension will also require the construction of a new light rail maintenance facility for vehicle care and storage in the vicinity of the Green Line Extension. MassDOT has identified a three-part parcel known as Yard 8 – in the Brickbottom/Inner Belt area of Somerville – as the preferred location within the project corridor for the facility. In addition, MassDOT is currently studying two alternative locations for the maintenance/storage facility, known as ‘Mirror H’ and ‘Option L’. MassDOT has prepared a preliminary analysis of these additional sites, which is available on the Green Line Extension project website (www.mass.gov/greenlineextension). MassDOT also presented the information at a public meeting on December 16 in Cambridge.

Project Cost

The DEIR/EA includes concept plans (at the 10% level) for the alternative alignments considered for the Green Line Extension project, as well as detailed capital cost estimates for those alternatives. The capital improvements include, but are not limited to: construction of track, station structures, drainage, utilities, property acquisitions and relocations, vehicle acquisitions, and the construction of a vehicle maintenance facility. The project cost also includes relocating the existing Lechmere Station. The total cost is estimated at \$805 million in 2008 dollars, including \$76 million for the purchase of new vehicles. The total estimated costs for the project have been increased to include inflation for the implementation period (Year of Expenditure Dollars or “YOE”). The YOE dollar costs for the project are projected to be \$932.4 million.

Project Funding

MassDOT intends to pursue federal funding – through the competitive New Starts program managed by FTA – to support the construction of the Green Line Extension project. In 2008, the FTA engaged a Project Management Oversight Consultant (PMOC) to undertake a review of the preliminary cost estimate for the Green Line Extension Project. The PMOC review identified a number of issues that introduce risk into this preliminary cost estimate. The most significant issues relate to construction

methodology and schedule. As a result, FTA is not able to endorse these cost estimates at this time. MassDOT recognizes these issues, which are principally related to the current state of conceptual engineering for the Project, as appropriate to a draft environmental document. MassDOT will continue to work with FTA and the PMOC process to address these issues and ensure FTA endorsement of the Green Line Extension Project cost estimates as the Project develops through preliminary engineering and final design.

SIP Deadline

Before December 31, 2014, construction of the following facilities shall be completed and opened to full public use: 1. The Green Line Extension from Lechmere Station to Medford Hillside; 2. The Green Line Union Square spur of the Green Line Extension to Medford Hillside.

Project Status

The following work has been completed or is currently on-going in support of the Green Line Extension project:

Public Outreach

- Advisory Groups– 11 held
- Station Workshops (February 2008) – 5 held
- Interagency meetings (ongoing) – 31 held so far
- Neighborhood briefings– 16 held so far
- Public agency and local official briefings (ongoing) – 43 held so far
- Institution and business group meetings (ongoing) – 3 held so far
- Public Meetings – 5 held so far
- Advisory Group Tutorials– 3
- Public Hearing – 1 held for DEIR/EA

Refinement of Alternatives

- Completed

Development of Design Criteria

- Completed

Station Location Program and Siting

- Completed

Support Facility Program and Siting

- Completed

Design of Green Line Vehicles

- Underway (using funding provide by MassDOT, the MBTA and their consultant are currently developing vehicle specifications). The MBTA intends to advertise for vehicle procurement early in 2010.

Alternatives Analysis

- Completed

Conceptual Engineering

- Completed

Design

- Completed

Cost Estimates

- Completed, currently being reviewed by FTA

Construction Staging and Sequencing Plans

- Completed, currently being reviewed by FTA

Real Estate Requirements

- Completed, potential real estate impacts have been identified as part of DEIR/EA. MassDOT will continue to work with the project team and the MBTA to investigate opportunities to minimize property impacts during Preliminary Engineering.

The following major milestones are anticipated for the next few months:

- FTA New Starts Application – Spring 2010
- Submission of a Final Environmental Impact Report – Spring 2010

Potential Challenges

The challenge of siting a northside support facility for the storage and maintenance of Green Line vehicles – a facility integral to the implementation of the Green Line Extension as a whole – has proven formidable. MassDOT is continuing to work on the issue and, with public and municipal input and collaboration, hopes to have a resolution soon.