

Silver Line Gateway

Extension of Silver Line Bus Rapid Transit (BRT) to Chelsea and East Boston

Public Informational Meeting Chelsea, MA

August 18, 2014

Introduction / Design Process

Design Team

- Joe Pavao, PE, MassDOT Project Manager
- John McCormack, MBTA Project Manager
- Frank Astone, PE, AECOM

Municipal and Agency Partners

- City of Chelsea
- EOEEA
- MBTA
- MassDOT
- Massport



Project Phasing

Phase I – MassDOT

- Busway and BRT Stations at Mystic Mall, Box District, and Eastern Avenue;
- Washington Avenue Bridge Replacement;
- Shared Use Path

Phase II – MBTA

- Commuter Rail Station at Mystic Mall;
- Decommissioning of existing commuter rail station
- BRT Station at Downtown Chelsea
- Evaluation of Busway traffic signal systems



Project Schedule

Phase I

July 2014

• July 19, 2014

Mid/Late September 2014

November/December 2014

March/April 2015

December 2016

Complete Final Design

Advertise for Construction

Bid Opening

Anticipated Award and Notice to Proceed

Anticipated Start of Construction

Substantial Completion of Construction

Phase II

• 2014 - 2015

Summer 2015

Fall 2015

December 2017

Design Development

Finalize Bid Documents & Advertise

Bidding & Award Construction Contract

Substantial Completion of Construction



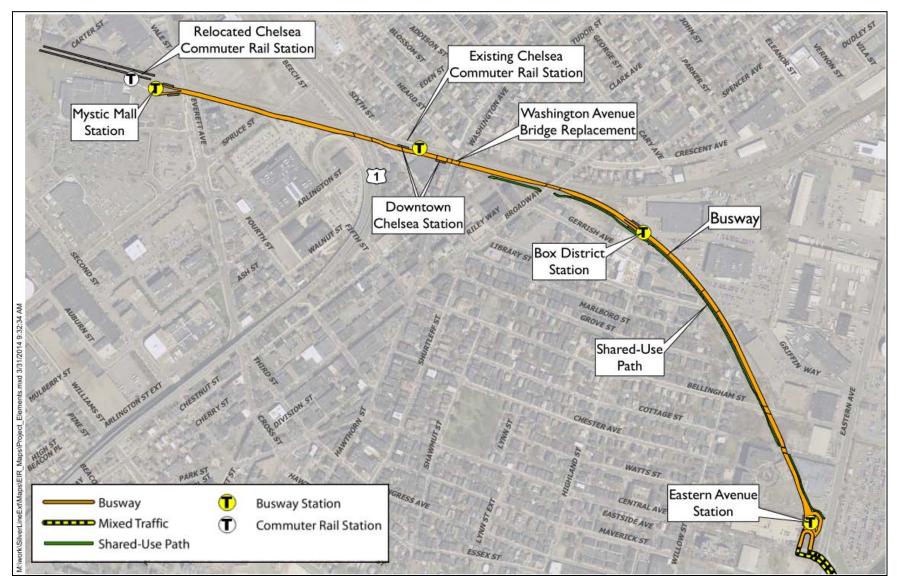
Planning Study Overview

- About 5 miles long
- Diverse mix of land uses
- Many recent state investments
 - Silver Line Transitway
 - Williams Tunnel
 - Airport Station
 - Coughlin Bypass Road
 - Chelsea Street Bridge
 - Grand Junction purchase



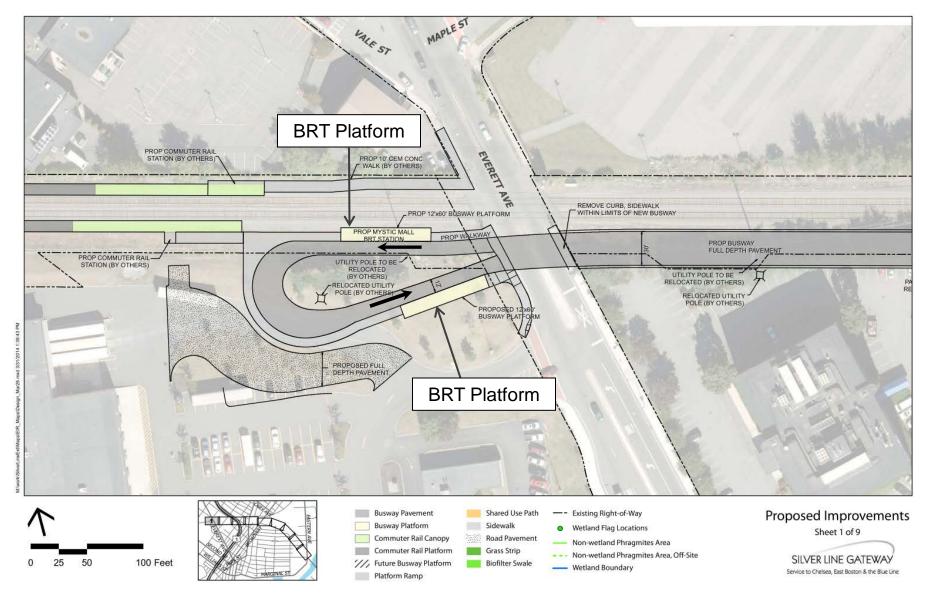


Proposed Project Elements



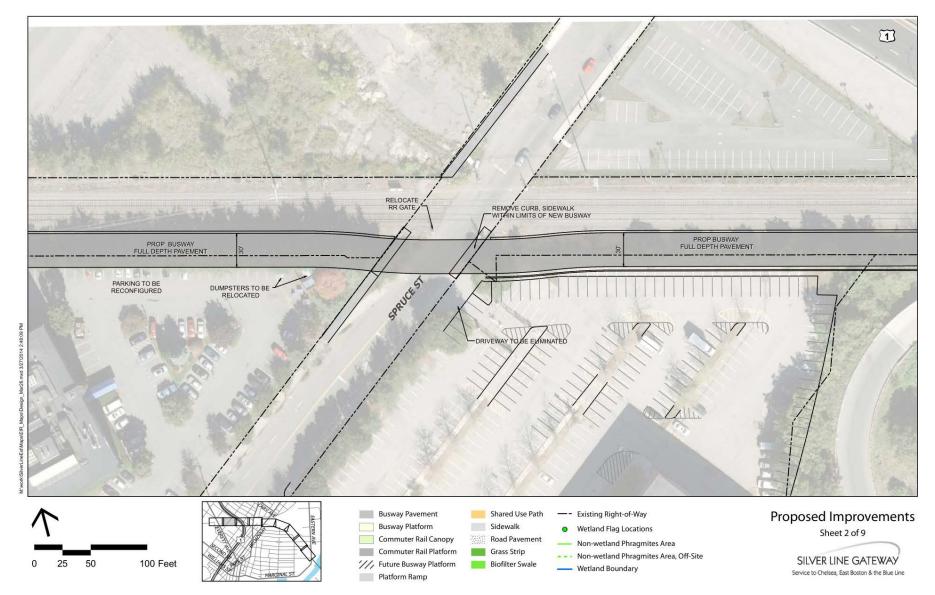


Busway - Everett Avenue



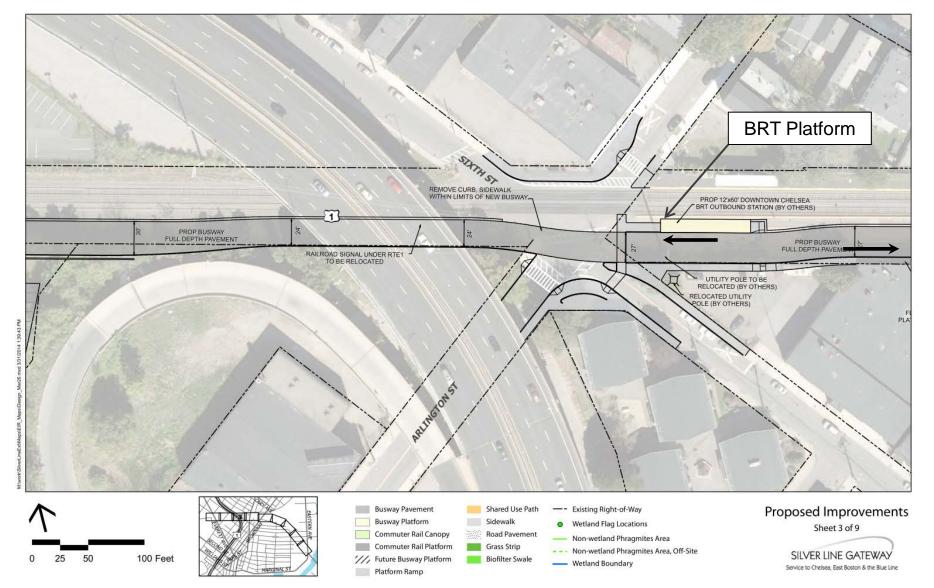


Busway - Spruce Street



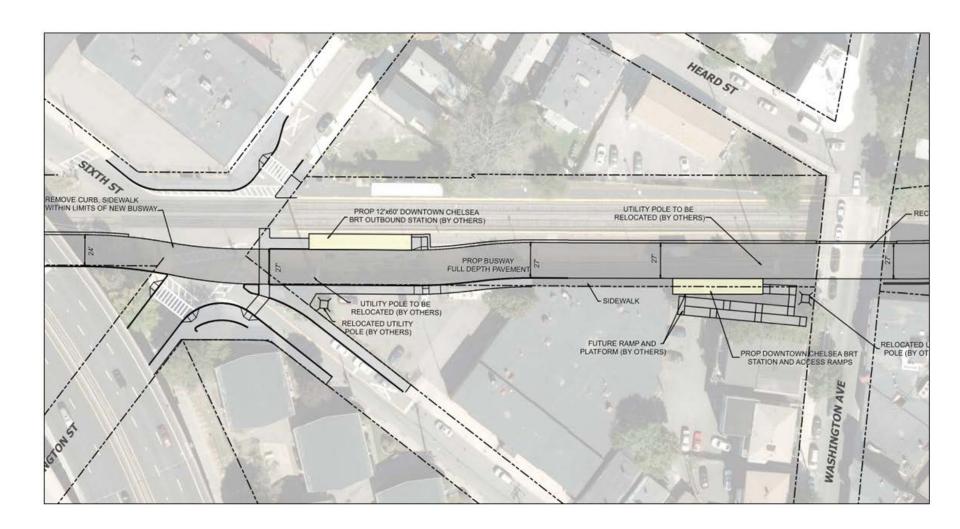


Busway – Arlington Street/Sixth Street



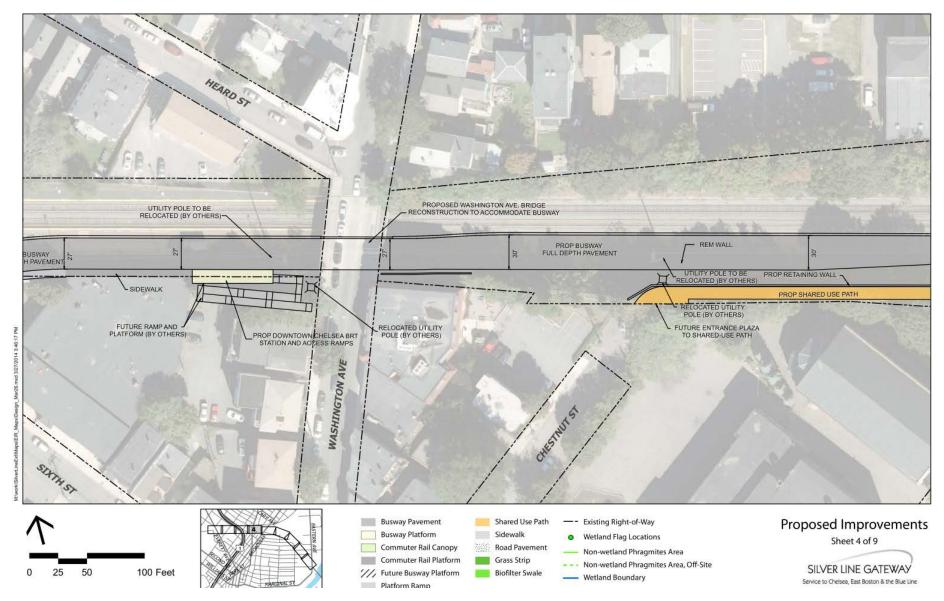


Busway - Downtown Chelsea Station



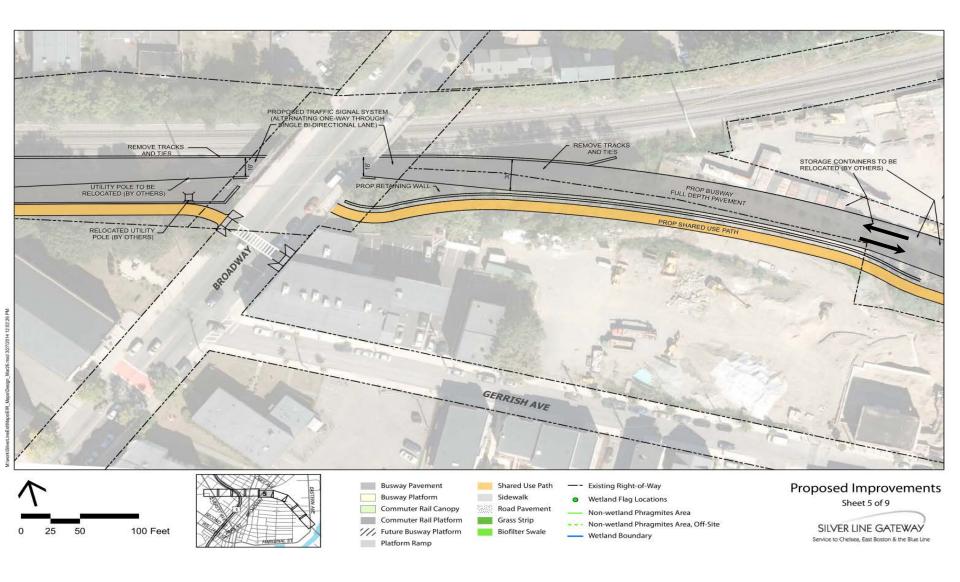


Busway – Washington Avenue





Busway - Broadway



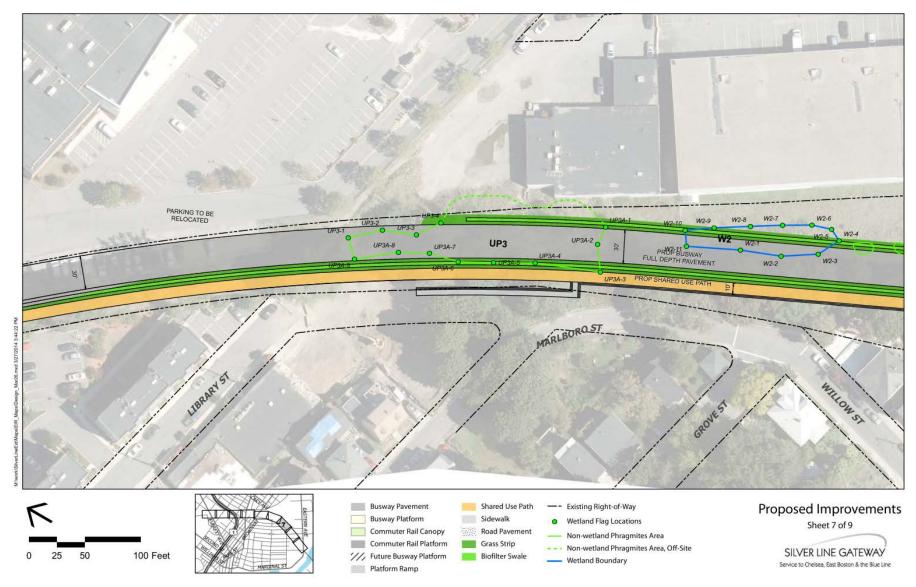


Busway - Box District Station



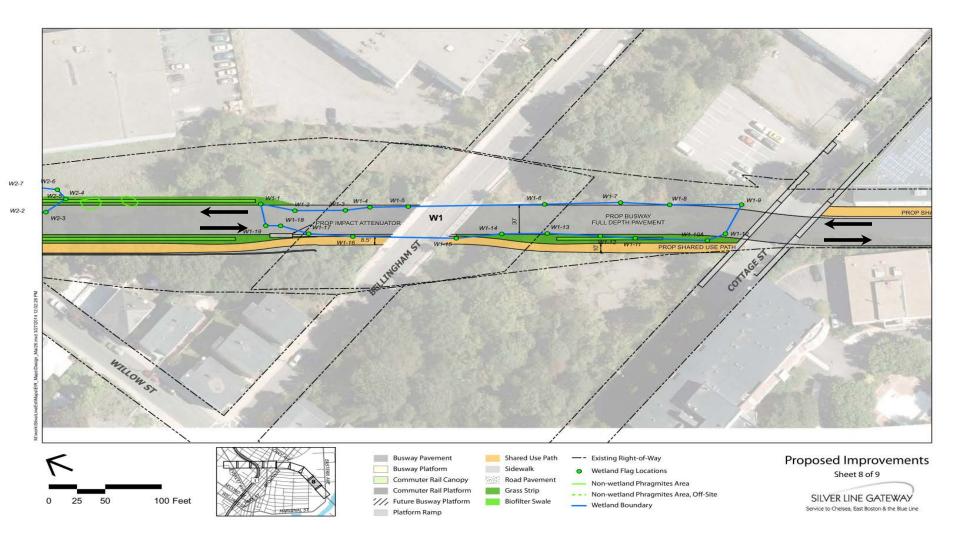


Busway - Library and Marlboro Streets



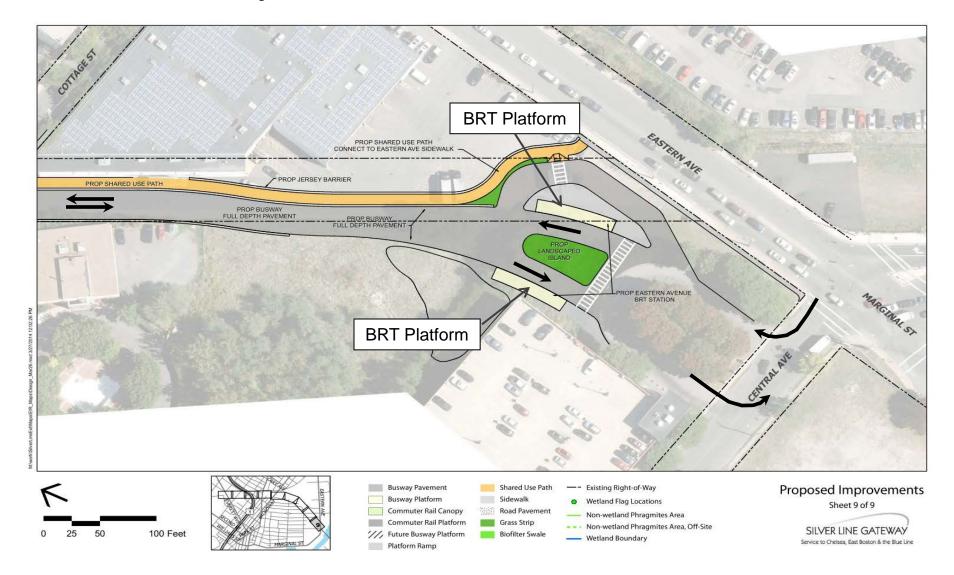


Busway – Cottage & Bellingham Street





Busway – Eastern Avenue Station





BRT Station Example – Eastern Avenue



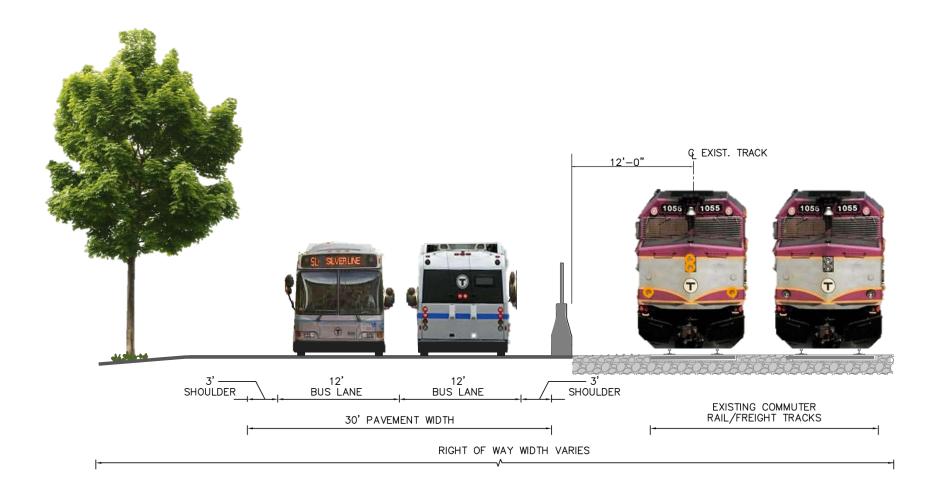


BRT Station Example – Box District



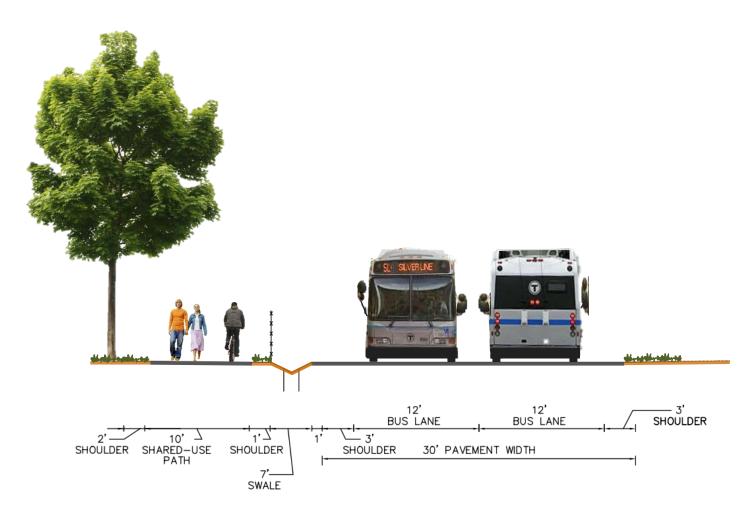


Busway Adjacent to Active Railroad – Typical Section





Busway / Shared Use Path – Typical Section



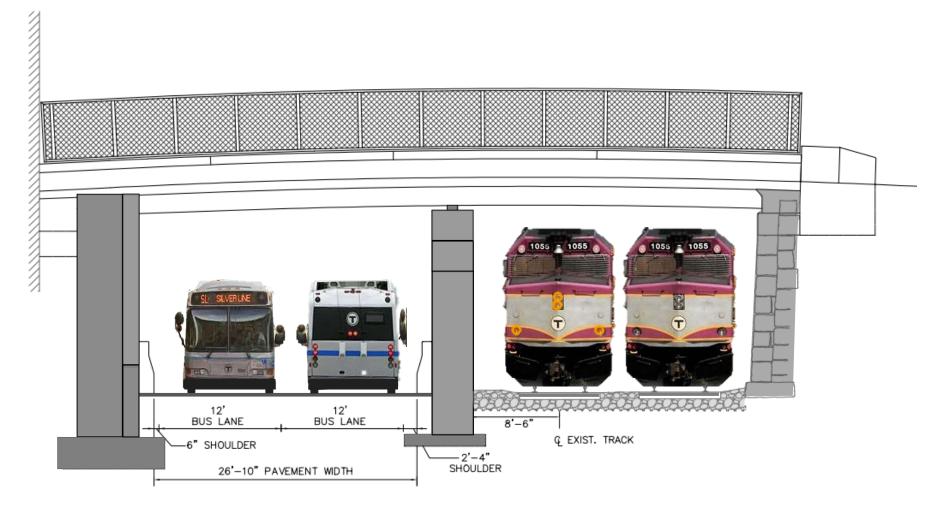


Washington Avenue Bridge

- Rated as functionally obsolete
- Silver Line Gateway has resulted in new design concept for the bridge replacement

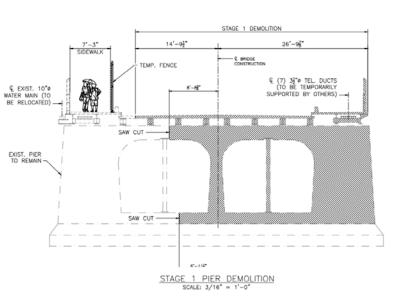


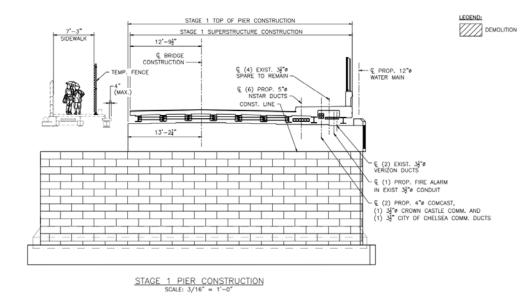
Two Lane Busway Beneath Bridge





Washington Avenue Bridge - Stage 1



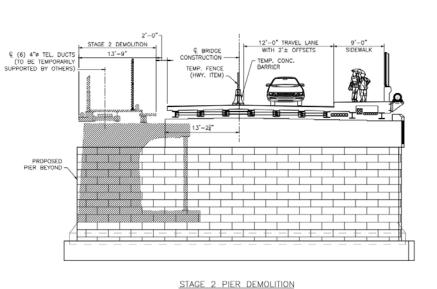


Stage 1 Total Duration

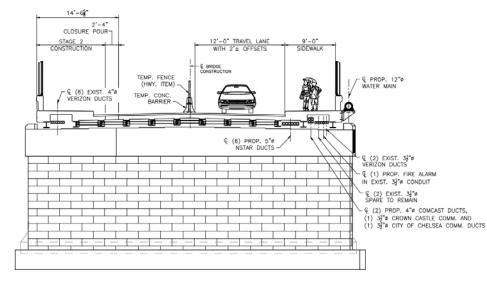
17 months including utility relocations (Bridge Closure 10½ to 14 months)



Washington Avenue Bridge - Stage 2



SCALE: 3/16" = 1'-0"



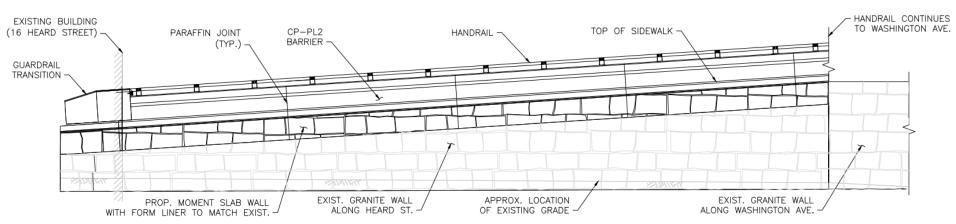
STAGE 2 PIER CONSTRUCTION SCALE: 3/16" = 1'-0"

Stage 2 Total Duration 7 to 8 months



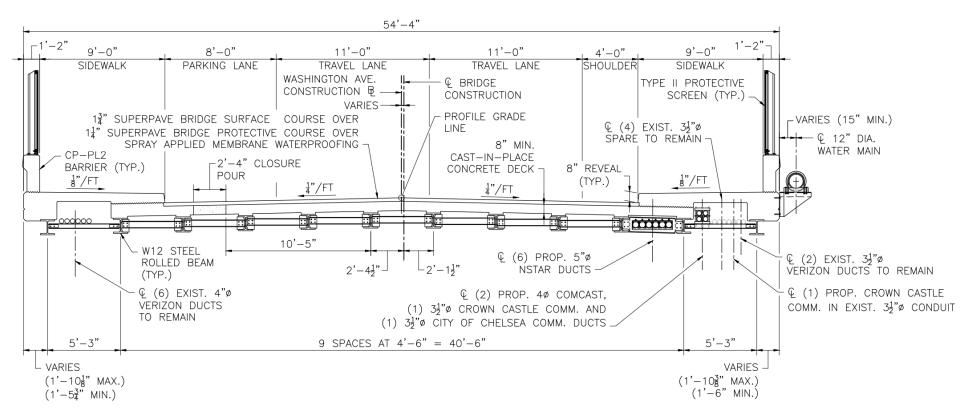
Washington Avenue Bridge – Key Issues

- Heard Street wall/barrier needs to be crash tested. May require temporary road closure
- Underpinning of 63 Washington Avenue due to close proximity of south abutment.
- Utility work involved. Temporary support of existing utilities on east side and vaults at Heard St. intersection.





Cross Section of Completed Bridge



TYPICAL BRIDGE SECTION

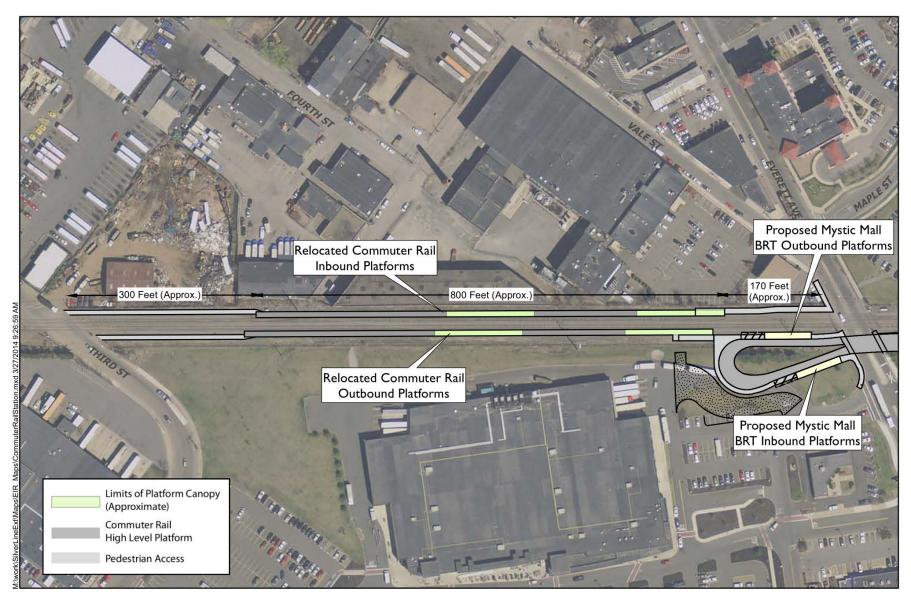


Chelsea Commuter Rail Station Phase 2

- MassDOT/MBTA's Commitment:
 - Modern Station
 - Accessible to all users
 - Convenient connections with Silver Line Gateway
- Accessibility Regulations and MBTA Design Standards
- Significant constraints to meeting these regulations and standards at existing Station



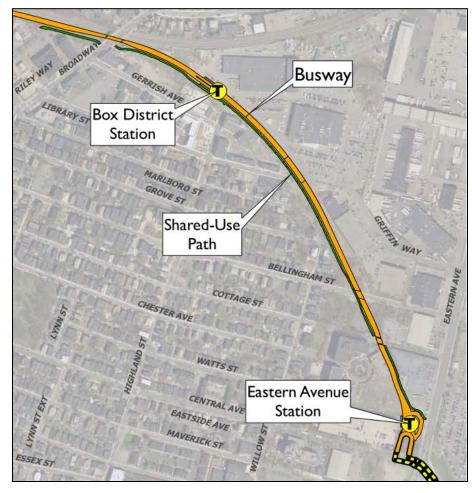
Relocated Chelsea Commuter Rail Station





Shared-Use Path

- Ongoing coordination with EOEEA, City of Chelsea and consultants to incorporate design of proposed shared use path
- Proposed from Eastern
 Avenue Station to Chestnut
 Street
- Approximately ¾ mile long
- Separated from the busway in some sections via vegetated swales



 Innovative design approaches to coordinate the path and the busway alignments and crossing points



Key Dates

- 11/15/13 Environmental Notification Form filed with MEPA
- 12/27/13 Secretary's Certificate Issued on EENF
- 03/31/14 Environmental Impact Report Filed with MEPA
- 04/01/14 Design Public Hearing
- 05/19/14 Secretary Issues Certificate on the SEIR
- 07/19/14 MassDOT Advertises Project for Construction
- Mid/Late September 2014 Bid Opening
- November/December 2014 Award and Notice to Proceed
- March/April 2015 Construction Begins



Silver Line Gateway Questions



