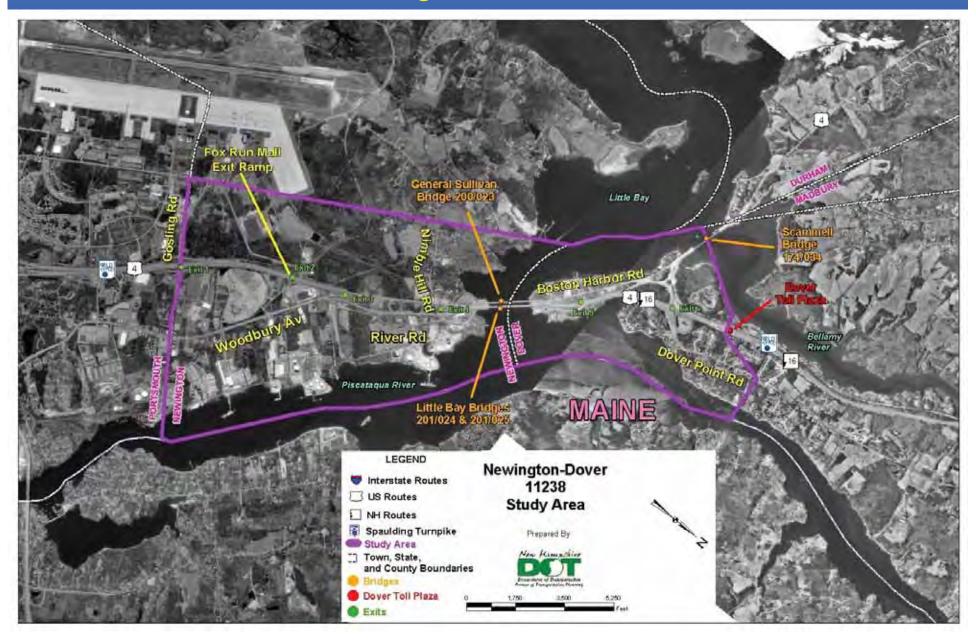


Meeting Agenda

- Project Overview
- Environmental Mitigation Components
- Transit Enhancements & TDM Options
- Turnpike Expansion
 - ➤ Contract 11238 L New SB Little Bay Bridge
 - Contract 11238 M Newington
 - Contract 11238 Q Dover
 - Contract 11238 O Rehab NB Little Bay Bridge
 - Contract 11238 S General Sullivan Bridge

Project Area



Project Need

- Spaulding Turnpike
 - Limited Capacity Chronic Congestion
 - * Four Lane Facility 2 Lanes in each direction
 - * High Traffic Volumes
 - *** 30,000 (1980) 70,650 (2003) 71,000 (2005)**
 - * Projected 94,300 (2025)
 - Level of Service E & F (during peak hours)
 - High Number of Interchanges
 - * 5 Interchanges in 2 ½ miles
 - Geometric Deficiencies
 - * Substandard Shoulders (Little Bay Bridges)
 - * Substandard Ramp Accel & Decel Geometry
 - * Inadequate Weave Geometry
 - Poor Local & System Connectivity
 - High # of Crashes with Long Delays

Project Need



Project Need

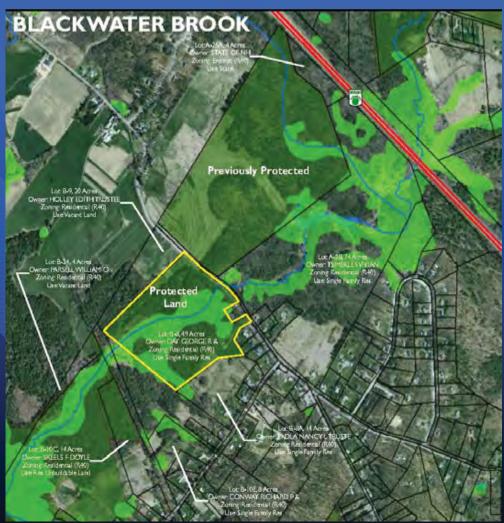


Environmental Mitigation Components

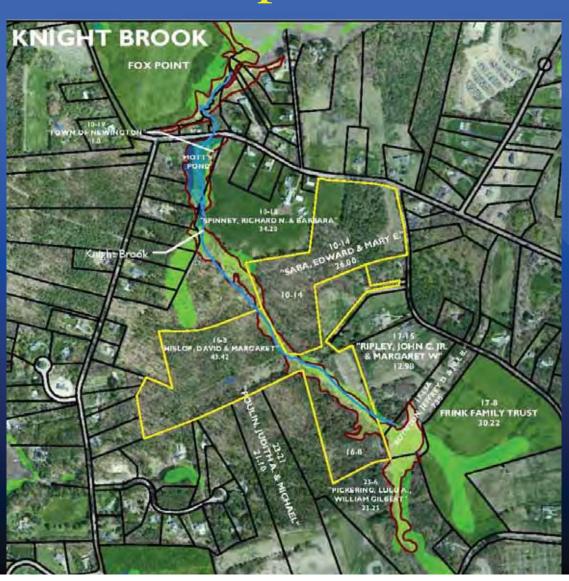
- Environmental Mitigation \$4.37M
 - 120-acre Preservation of Tuttle Farm (Joint Effort w/City, SRC, DOT) completed (\$1.34M)
 - 40-acre Preservation of Day Property in Blackwater Brook Watershed completed (\$0.23M)
 - 64 acres of Preservation in Knight Brook Watershed underway (est.\$2.0M)
 - Railway Brook Restoration & Preservation (23 acres) underway (est. \$0.8M)

Tuttle Farm & Blackwater Brook

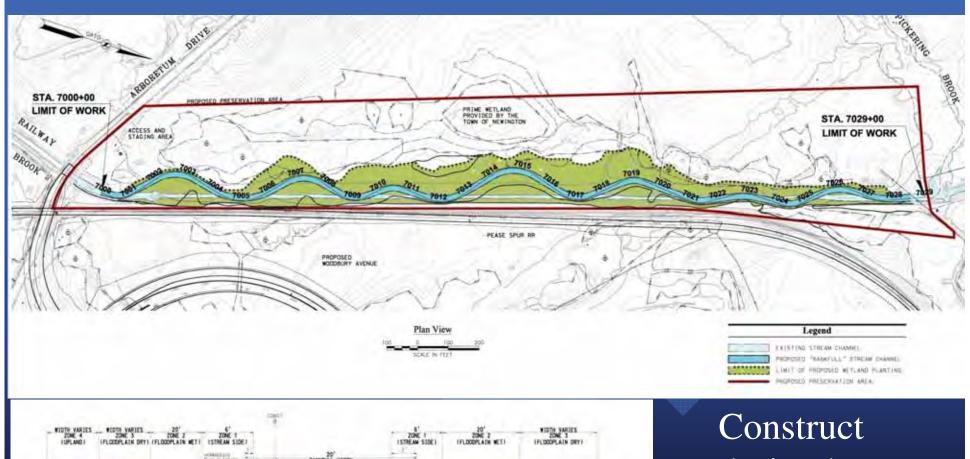


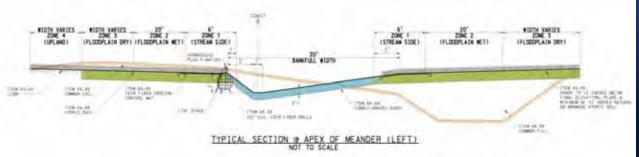


Knight Brook – Saba & Hislop Properties



Railway Brook Restoration





Construct during low water flow in 2015

Travel Demand Mitigation Components

- Travel Demand Management (TDM) Commitment Cost is \$16.28M
 - Park'n'Ride at Dover, Rochester and Lee (\$5.0 M)
 - >Improved Downeaster Rail Service (\$2.0M)
 - ➤ Improved Transit Service (COAST & WILDCAT) (\$8.88M)
 - Financial Support for Seacoast TMA –(\$0.4M)

NEWINGTON-DOVER 11238 Park 'n' Ride

- Park'n'Ride at Exit 9 in Dover completed (\$3.49M)
- Park'n'Ride at Exit 13 in Rochester (Under construction \$1.35M by A.
- J. Coleman & Sons)

 Multi-use Park'n'Ride in

 Lee CMAQ Location

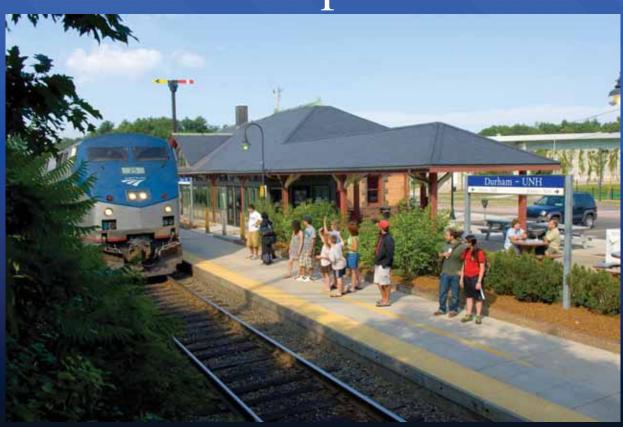
 under review (est. \$85k)





NEWINGTON-DOVER 11238 Improved Downeaster Rail Service

CMAQ Investment of \$2.0 M with N-D Turnpike Match



NEWINGTON-DOVER 11238 Expanded Transit Service

- ❖ NH Boston Bus Service (C&J)
- Express Coast Bus Service from Rochester, Dover, Somersworth/Berwick to Portsmouth Naval Shipyard
- Direct Bus Service COAST Bus Service from Rochester to Pease





NEWINGTON-DOVER 11238 Expanded Local Transit Service

Local Coast Bus Routes

- ➤ route 2 Rochester,

 Somersworth, Dover,

 Newington to Portsmouth

 (25% increase ridership)
- route 40 Portsmouth/Pease trolley
- ➤ route 41 Portsmouth Lafayette Road trolley
- ➤ UNH Wildcat service to Malls and Market Square (route 4)





NEWINGTON-DOVER 11238

Transportation Demand Management

- Commute SMART Seacoast a new Transportation Management Association (TMA) to promote:
 - Carpooling/vanpooling
 - Ride mass transit
 - > Bicycle/walk
 - > Telecommuting
 - Compressed work schedules
- ❖ Focus is employers and employees at Pease and within the Greater Seacoast
- More information at www.commuteSMART.org



Newington-Dover Selected Highway Solution



- Reconstructs & Widens Turnpike
 - 8 Lanes Exit 3 to Exit 6
 - 6 Lanes south of Exit 3 (match into 6 lanes at Exit 1)
 - 6 Lanes north of Exit 6 (match into width at Toll Plaza)
- Consolidates & Reconfigures the Interchanges
 - Eliminate Exit 2 (Fox Run Road ramps)
 - Reconstruct Exit 3 (Full service interchange with northern access into Pease)
 - Maintain Exit 4 Ramps (Nimble Hill Road & Shattuck Way)
 - Eliminate Exit 5 (Hilton Park & Wentworth Terrace)
 - Reconstruct Exit 6 (Full service interchange with US 4 & Dover Point Road)

NEWINGTON-DOVER 11238



NEWINGTON SOUTHERLY RENDERING

NEWINGTON-DOVER 11238

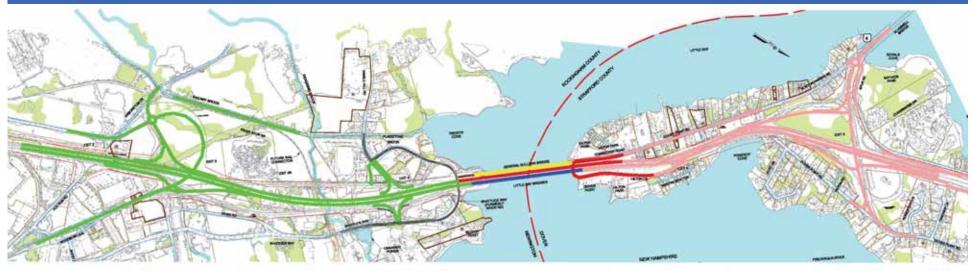


Aerial View - Hilton Park & Exit (

DOVER NORTHERLY RENDERING

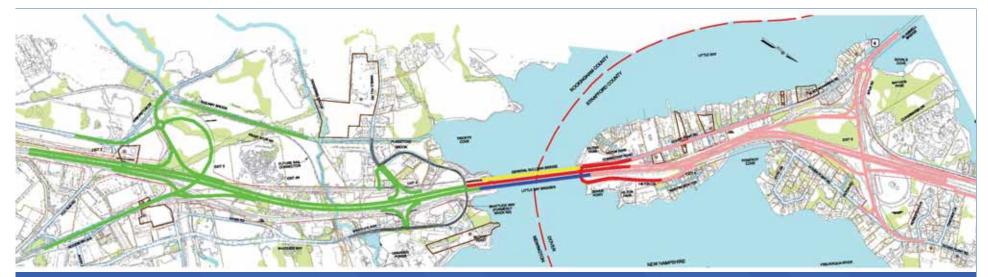


Current Contract Breakout & Schedule



	CONSTRUCTION SCHEDULE									
	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
CONTRACT L					\$54.1 M					
CONTRACT O								\$34.0 M*		
CONTRACT M						\$48	7 M			
CONTRACT Q										\$49.2 M
CONTRACT S										\$3

* Contract Q & O schedules subject to change



Construction Contract Breakouts

- Contract L SB Little Bay Bridge \$54.1M Construction Completed Fall 2013
- Contract M Exits 3 & 4 \$48.7M Anticipated Construction Completion Summer 2015
- Contract O Existing LBB Rehabilitation \$34.0M Advertise August
 2014
- Contract Q Exit 6, Dover Mainline & Soundwalls \$49.2M Advertise June 2015
- Contract S GSB Rehabilitation \$31.0 M Design Ongoing
 Total Construction Cost = \$217.0M (2012 Dollars)

Construction – Contract L

Ground Breaking Celebration on September 9, 2009







Contract L - SB Little Bay Bridge Construction

- Construction Initiated in 2010, completed fall 2013
 - Cianbro Contractors, Maine
- SB Little Bay Bridge
- Spaulding Turnpike Dover Approach Work
- Spaulding Turnpike Newington Roadway Approach
- Exit 5 Ramp Reconstruction (Within Contract M)
- Wentworth Terrace
- General Sullivan Bridge Dover Abutment
- Pedestrian & Bicycle Structure

General Sullivan Bridge Access



Construction – Contract L Ped and Bikeway to General Sullivan

Bridge

Pedestrian & Bicycle Structure







Construction – Contract L Ped and Bikeway to GSB

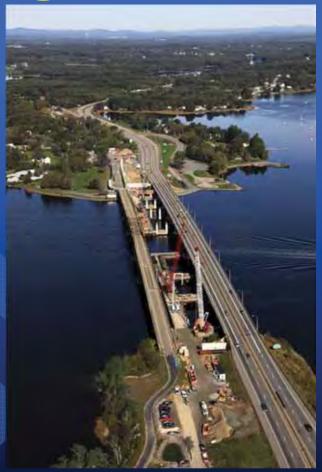
- Pedestrian, Bicycle Access to GSB
- WentworthTerrance/Hilton ParkAccess Under LBB's





Construction – Contract L Little Bay Bridge





Temporary Trestle to Construct Phase I - Cost \$5 Million (2010-12)

Construction – Contract L Little Bay Bridge





Westerly Placement of Final Mid-Span Girder (March 13, 2013)

Construction – Contract L Little Bay Bridge





Deck Reinforcing Steel and Concrete Pour (2012)

Final Bridge Deck (2013)

Contract 11238M



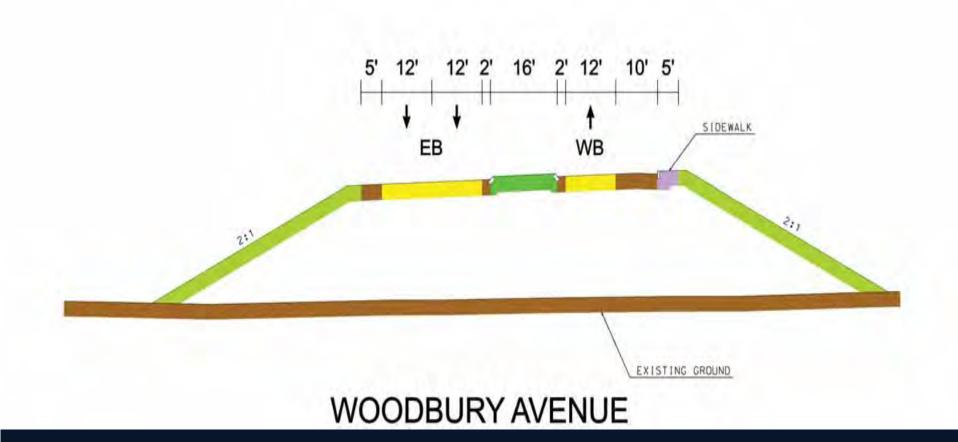
- Eliminates Exit 2 and Replaces it with Cul-de-Sac
- Provides a Full Service Interchange at Exit 3with Extended
 Woodbury Avenue and Reconstructs Exit 4 Interchange
- Provides Additional Access into Pease
- Provides Future Consideration for Railroad Spur
- Eliminates Maintenance and Incident Management Reverse
 Direction Ramps Between Exits 3 and 4

Contract M – Exit 3 and Arboretum Drive



- Full Service Interchange at Exit 3 with Additional PDA Access
- Arboretum Drive Work Extended 0.5 miles South of New Roundabout
- Provides Future Consideration for Railroad Spur
- Improved Access to Portsmouth Water Tower
- Railroad Brook Fluvial Restoration

Woodbury Avenue West of Spaulding Turnpike



Construction 11238M

Utility Relocation in 2011-12:

- 30" M&N Gas Line Exit 3 and Arboretum Drive Area (By Others)
- Unitil Gas Distribution Line Little Bay Directional Drill – completed in summer 2013

Contract M Construction

- Contractor: A. J. Coleman
- Construction Cost: \$48.7M
- Construction Duration: 2012 2015

Construction – Contract M

Construction Operations

- Test Embankment in Dover
- Exit 3 Embankment Area, Roundabout and Arboretum Drive
- SB Barrel Ledge Excavation
- SB Traffic Shift Exit 1 through Exit 3
- Woodbury Avenue Bridge Construction
- Shattuck Way Bridge Widening
- Railway Brook Restoration
- NB and SB Barrel Construction in Existing Median Area

Construction – Contract M



Initial Construction Phase

- Exit 5 Test
 Embankment
 Area
- SettlementTesting
- UNH Study

Construction – Contract M

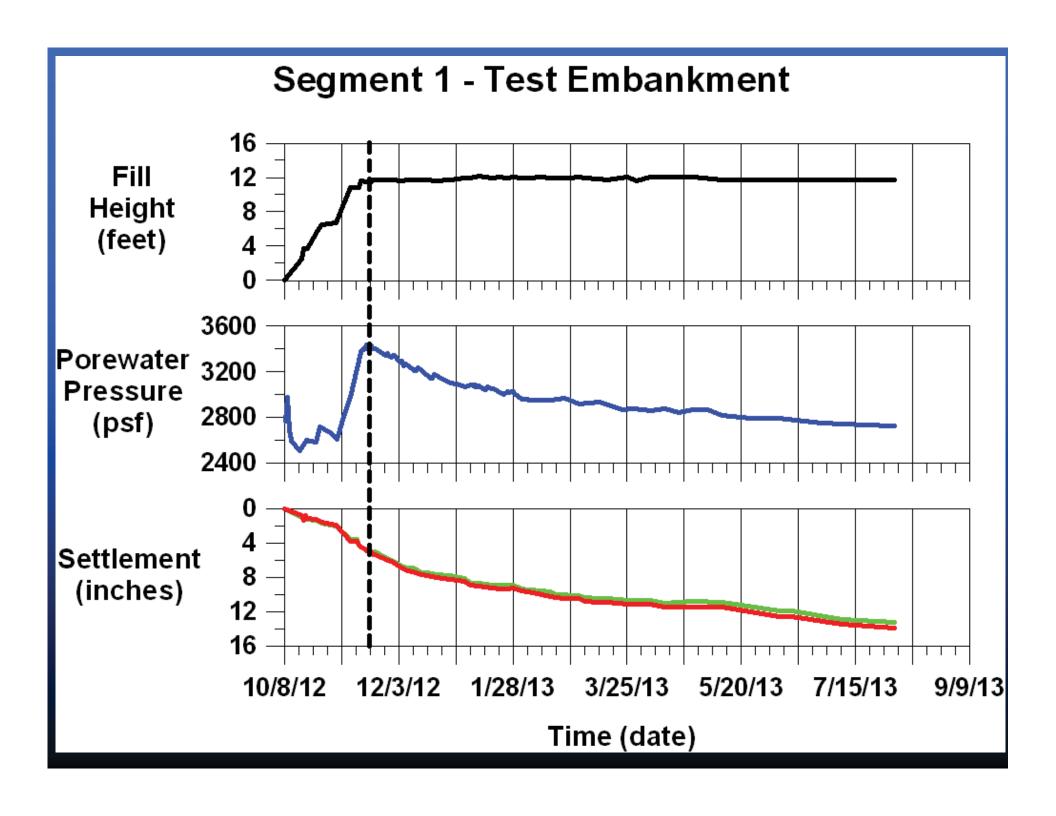


Embankment Area

Installation of Sand Drains







Pre-Construction Utility Relocations

30 Inch Diameter
 High Pressure
 M&M Gas Line
 Relocation (By
 Others)



Preparation of Staging Site

- Staging Area at Former Drive-in Theater
- Future Site for TurnpikeMaintenanceFacility





- Unitil Gas Line
 Relocation SB
 Barrel Exit 1 to
 Exit 3 (By Others)
- Water LineRelocation SBBarrel Exit 1 toExit 3





Woodbury
Avenue Bridge
(Westerly
Abutment)





Woodbury
Avenue Bridge
(Middle Pier)





Southbound Barrel Construction (Phase I)





Woodbury
Avenue
Approach and
Arboretum Drive





Shattuck Way Bridge Widening





Water Quality Protection

- Flocculent Treatment
- Stormwater Basins





Traffic
Transition
to New
Little Bay
Bridge in
Summer
2015

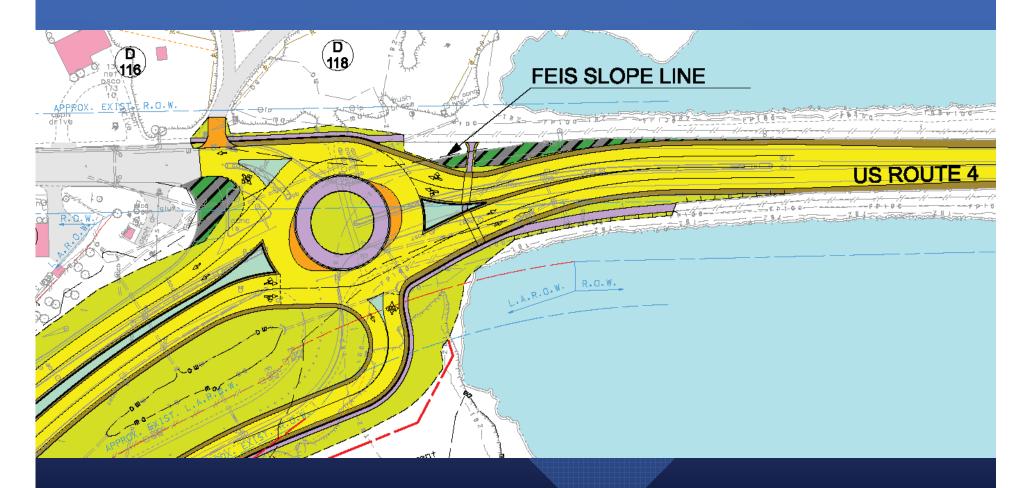


Contract 11238Q



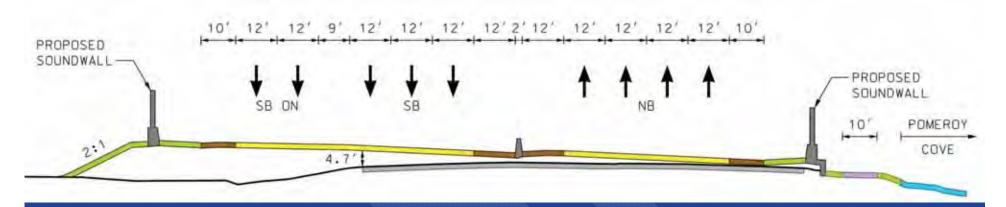
- Provides a Full Service Interchange at Exit 6
- Eliminates Exit 5
- Provides Two-way Connection via Wentworth Terrace
- Introduces 2 Signalized Intersections for Exit 6 Ramps
- Roundabout Replaces Signalized Intersection at Boston Harbor Road
- Constructs 4 Sections of Soundwall North and South of Exit 6

Roundabout Intersection



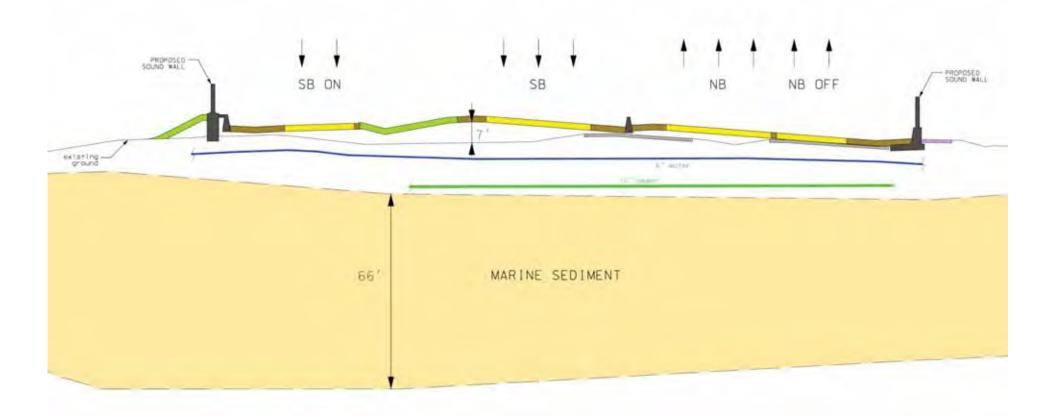
Two-Lane Hybrid Roundabout

Contract Q Spaulding Turnpike

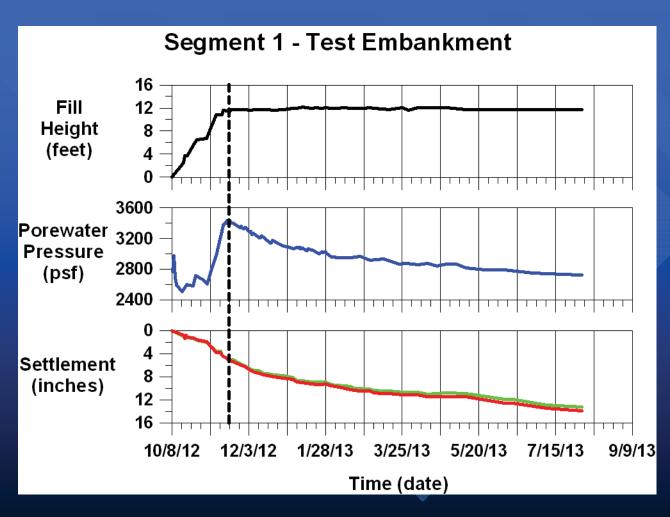


- **40'** of Spaulding Turnpike Widening
- SB Raise in Elevation
- Soundwalls along NB and SB
- Pomeroy Cove Paved Pathway (10' wide) is Maintained

Cross Section Just North of Pomeroy Cove



Contract Q Soft Soil Settlement Predictions

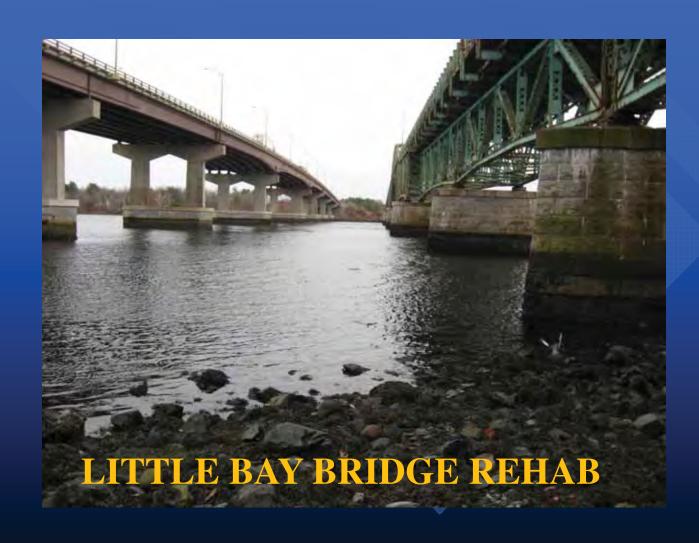


Contract Q

Contract Q- Dover- \$49.2 M

- Currently Unfunded in Turnpike Program
- Tentative Advertising Date: June 2015
- Tentative Construction: 2015 2018
- Completes and Opens All Spaulding Turnpike Improvements

Contract 112380

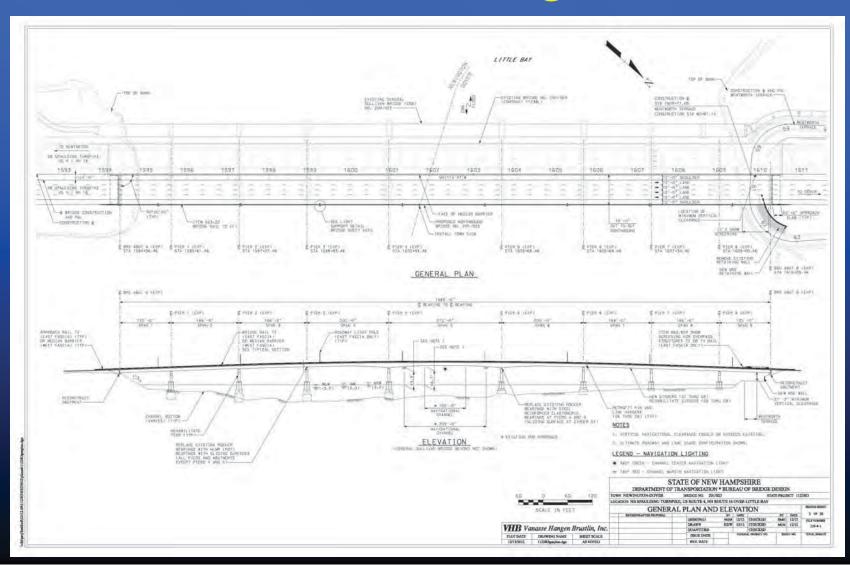


Contract 112380

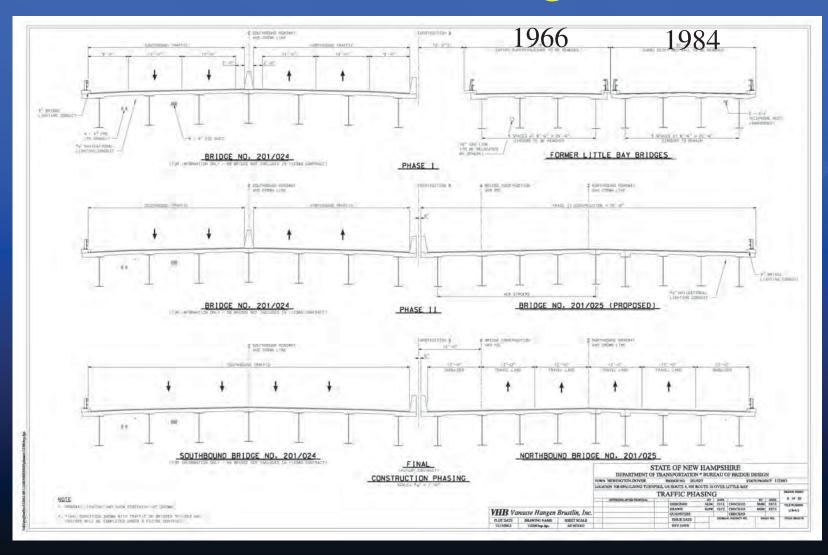
Contract O - \$34.0 M

- Tentative Advertising Date: Aug. 2014
- Tentative Construction: 2014 2016
- Replace Steel Beams on 1966 Segment
- Rehabilitate the 1984 girders; replace rocker bearings
- Replace full deck (1589 Feet)
- Modular expansion joints at abutments

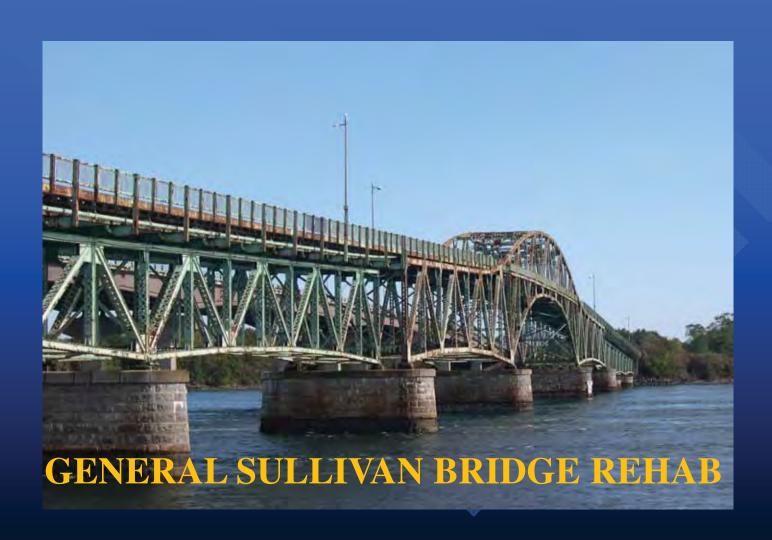
Contract 112380 Rehab of Existing LBB



Contract 112380 Rehab of Existing LBB



Contract 11238S



Contract 11238S

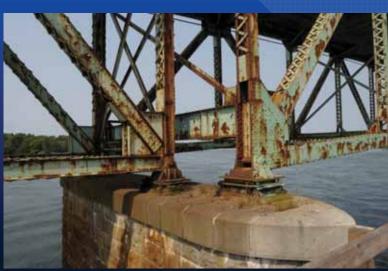
Contract S- Dover- \$31.0 M

- **Tentative Advertising Date: Aug. 2016**
- Tentative Construction: 2016 2018
- Rehabilitation of General Sullivan Bridge for Pedestrian and Bicycle Access
 - First Phase Inspection in 2014
 - Second Phase Rehabilitation Evaluation (Feasibility to meet NEPA) in 2014-15
 - Third Phase Design Plans for Construction 2015-16

Contract 11238S









Contact Information

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http://www.newington-dover.com/

THANK YOU

Questions/Comments