Newington-Dover

Improvements to NH Rte. 16 / Spaulding Turnpike / General Sullivan Bridge

Public Informational Meeting
Dover City Hall
January 30, 2018











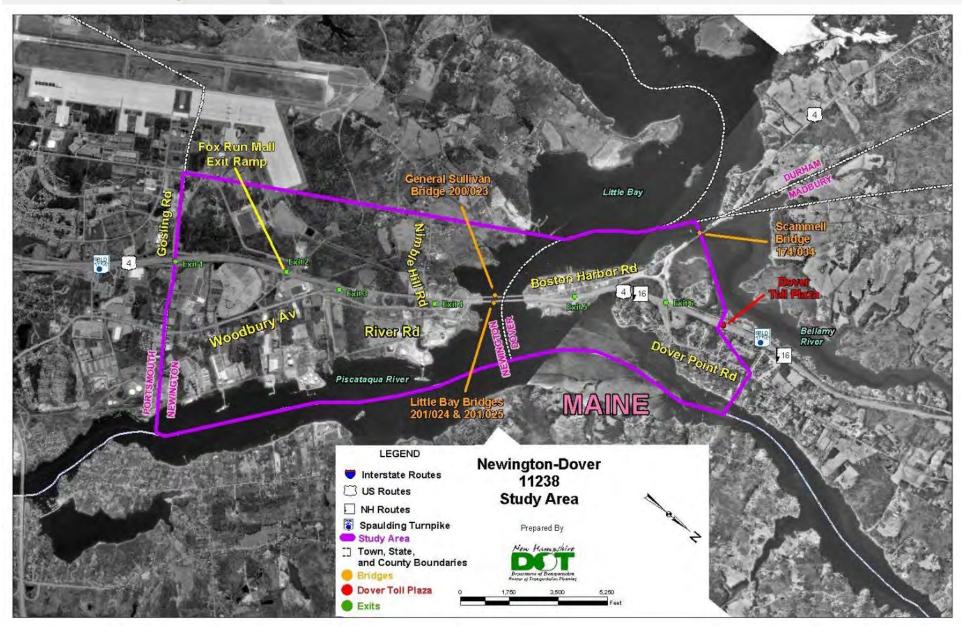
Meeting Agenda

- Project Overview
- General Sullivan Bridge
 - NEPA Supplemental EIS/4(f)
 Evaluation/Section 106
 Consultation
 - Alternatives to be Evaluated
- Project Update by Contract
- Upcoming Turnpike Projects
 - Newington Maintenance Facility
 - Dover Open Road Tolling

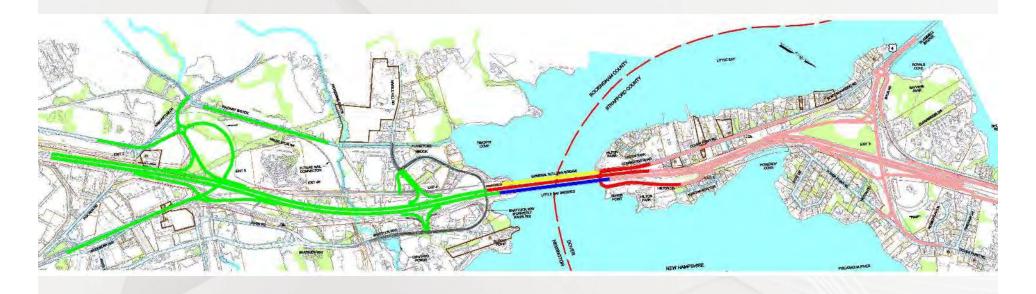


Project Overview

Project Area



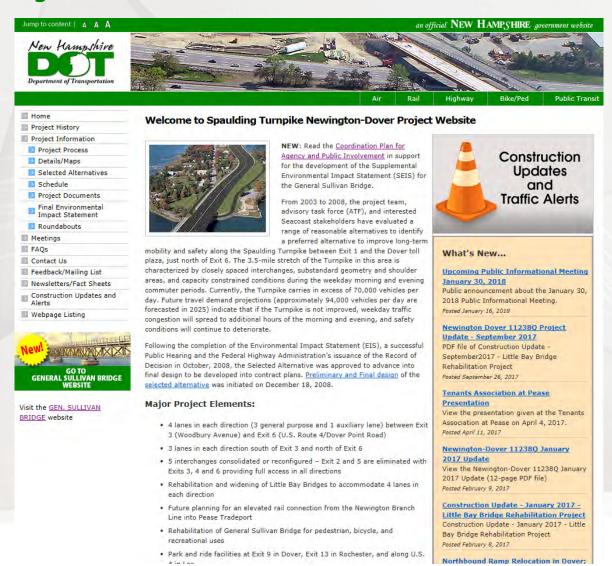
Contract Breakout & Schedule



	CONSTRUCTION SCHEDULE																																
	2010		2010		20		2011		2012			2013		3	2014		2015		2016		2017		2018		2019		2020			2021		2022	
CONTRACT L													\$5	7.5 N	1																		
CONTRACT M																		\$47.	5 M							Т							
CONTRACT O																						\$ 21.9	М			Т							
CONTRACT Q																												\$	570.	6 M			
CONTRACT S																															9	\$32.6	
DOVER TOLL PLAZA																										T					9	\$13.0	
NEWINGTON MAINTENANCE SHED																										اراعا		\$6.0	М				

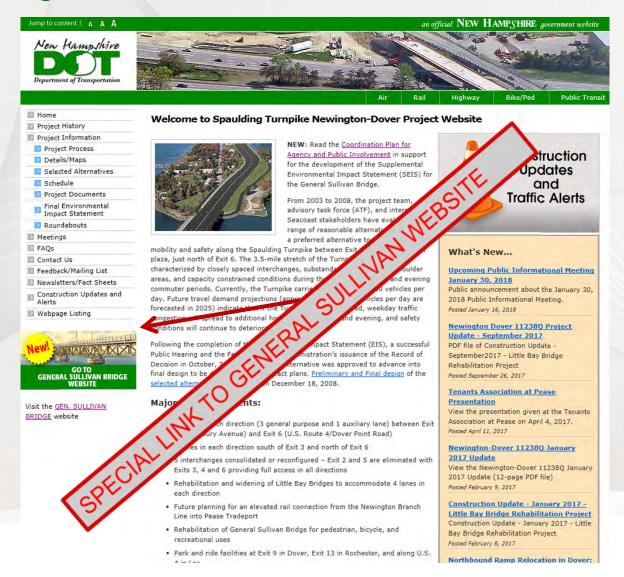


Project & Construction Outreach





Project & Construction Outreach





Construction Outreach

• For traveler/real-time information, please visit www.nhtmc.com.

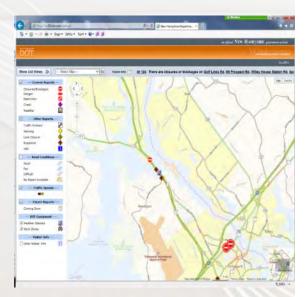


Twitter









Traffic Cameras



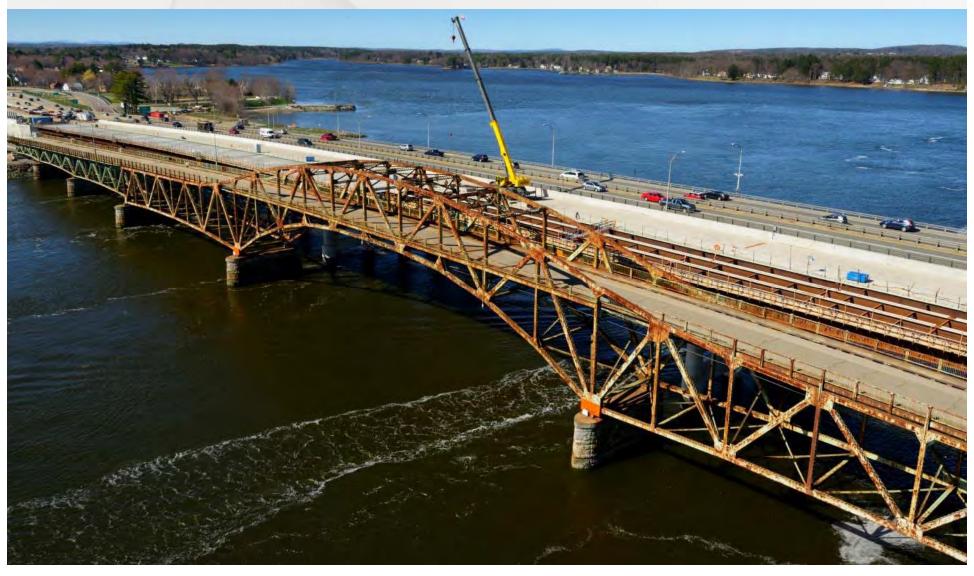
Real-Time Traffic Management System





Contract S – General Sullivan Bridge

Contract S General Sullivan Bridge



GSB is a Historic Structure

- Eligible for listing on the National Register of Historic Places
- Significant at both the state and national levels
- Protection under federal law for eligible properties are:
 - Section 106 of the National Historic Preservation Act
 - Section 4(f) of the USDOT Act
- Historic Preservation under NH Law:
 - RSA 227-C:9 Directive for Cooperation in the Protection of Historic Resources



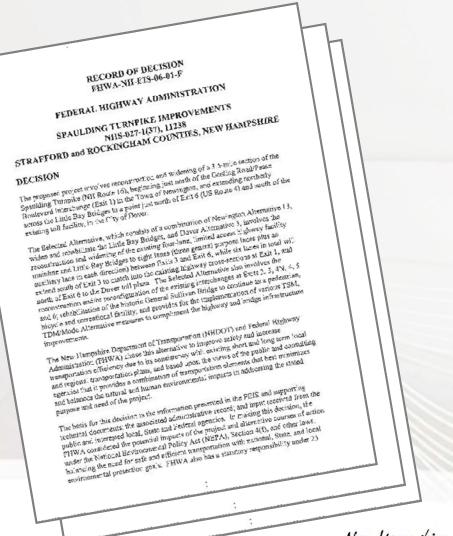


2008 NEPA Record of Decision

GSB Commitments:

- Maintain bicycle and pedestrian access
- Rehabilitate the GSB



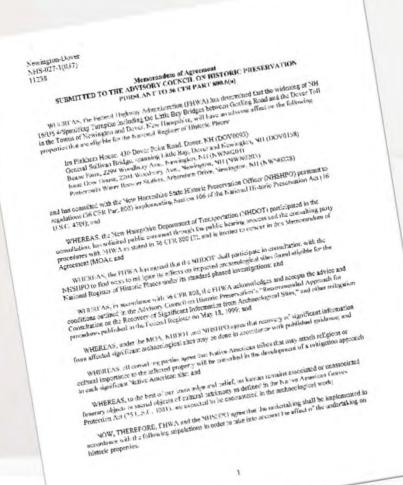




2008 Memorandum of Agreement

Record of Decision (ROD) Incorporated:

- Section 106Memorandum of Agreement
- Section 4(f)Evaluation





Section 106 MOA - April 4, 2008

MOA requires rehabilitation of the General Sullivan Bridge, allowing for these activities:

- Removal and replacement of the deck and floor system
- Replacement of rivets with high strength bolts as necessary
- Removal of the north embankment and portions of the north abutment (Completed 2011)



Preparing for Rehabilitation of the GSB

2009/2010

In-depth Inspection, Load Rating, & Deck Study

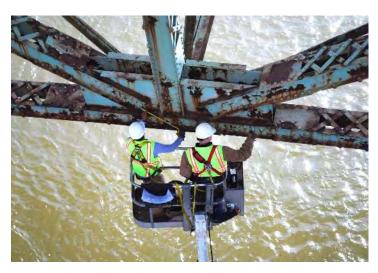
2014/2016
 In-depth Inspections & Load Ratings

2017
 GSB Type, Span, and Location Study



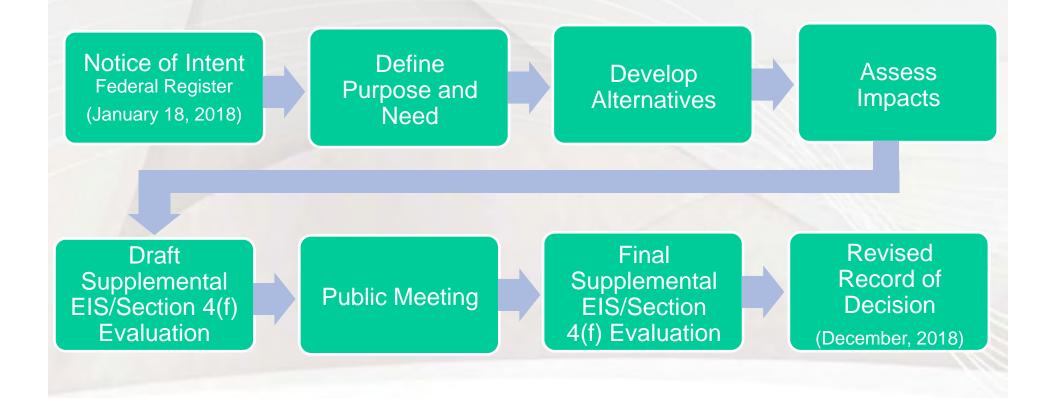
Assessing the Rehabilitation of the GSB

- In depth inspections and engineering analyses (2010-2017) found that rehabilitation:
 - Has high risk
 - Has high cost
 - Would provide limited service life
- Further evaluation of rehabilitation and other alternatives is warranted





Supplemental EIS





Supplemental EIS: Purpose and Need

Project Purpose

"To provide access and connectivity between Newington and Dover, across Little Bay, for non-motorized use."

Bicycle/Pedestrian Use

SUMMER											
2016											
	DOVER END	NEWINGTON END									
AVERAGE WEEKDAY	114	66									
AVERAGE WEEKEND	145	86									
AVERAGE DAILY	119	66									

Data analysis is preliminary and subject to change.



Supplemental EIS – Public Participation

Public Participation is critical to the NEPA (SEIS) process, and required by Section 106 and Section 4(f)

Public Meeting #1 (January 30, 2018)

- Draft Purpose and Need
- SEIS Process
- Consulting Party Invitation

Public Meeting #2 (April/May 2018)

- Review Range of Alternatives
- Preliminary Alternatives
 Evaluation

Public Meeting #3 (August/Sept. 2018)

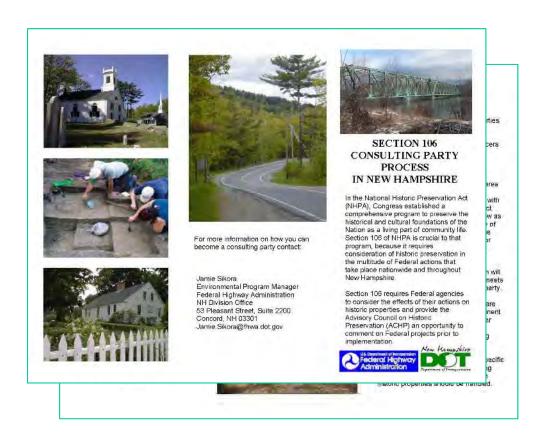
- Presentation of Preferred Alternative
- Public Input on Draft SEIS



National Historic Preservation Act Section 106 – Consulting Parties

Interested persons or organizations may request **Consulting Party** status from FHWA:

Jamie Sikora
Environmental Program Manager
Federal Highway Administration
NH Division Office
53 Pleasant Street, Suite 200
Concord, NH 03301
Jamie.Sikora@fhwa.dot.gov



More Information:

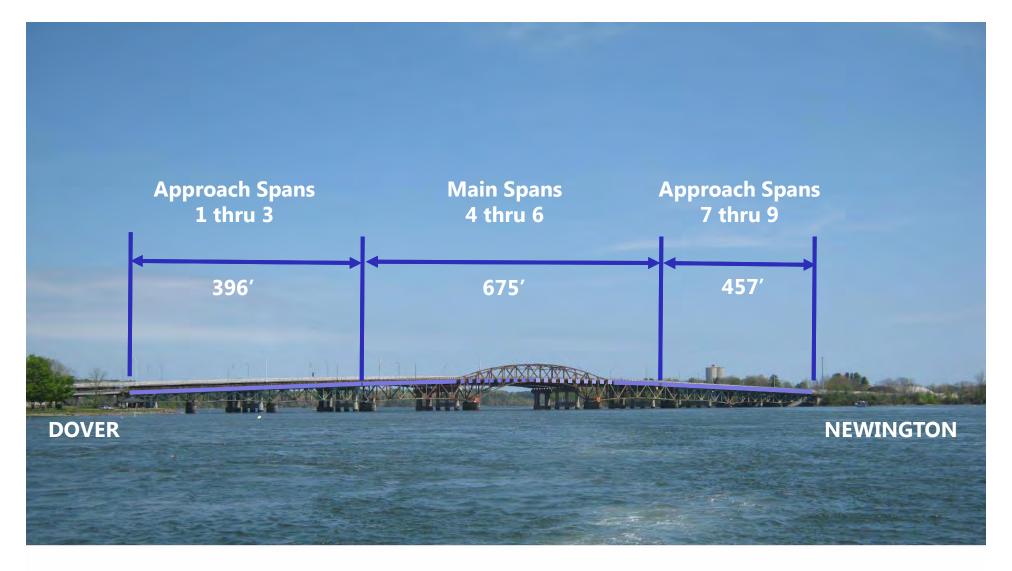
https://www.nh.gov/dot/org/projectdevelopment/environment/units/program-management/cultural.htm

GSB Alternatives Currently Under Consideration

Reasonable Range of Alternatives

- Rehabilitation (Consistent with MOA)
- Complete Superstructure Replacement, Retain Substructure
- Partial Rehabilitation
- Complete Bridge Replacement (Including Substructure)
- Reconfigure/Widen Southbound Little Bay Bridge to Accommodate Bicycles/Pedestrian Use





Rehabilitation Alternative



Existing Bridge



Rehabilitated Bridge (All Spans)





Complete Superstructure Replacement Alternative



Existing Bridge



New Truss on Existing Piers





Partial Rehabilitation (New Approach Spans)



Existing Bridge



Rehabilitated Main Spans with New Approach Spans





Complete Bridge Replacement Alternative



Alternatives Evaluated in the **X**L

Alternative	Cost	LCC (Present Value)	LCC (Constant Dollars)	Const. Ris		His ric	Main- tenance
1A – Truss Rehab	\$43.9 M	\$53.9 M	\$85.6 M			Low	High
2C – Truss Replacement	\$32.6 M	\$33.4 M		V'	1-2 years	High	Mod.
3 – Approach Spans Replaced	\$38.2 M			Moderate	2-3 years	Moderate	High

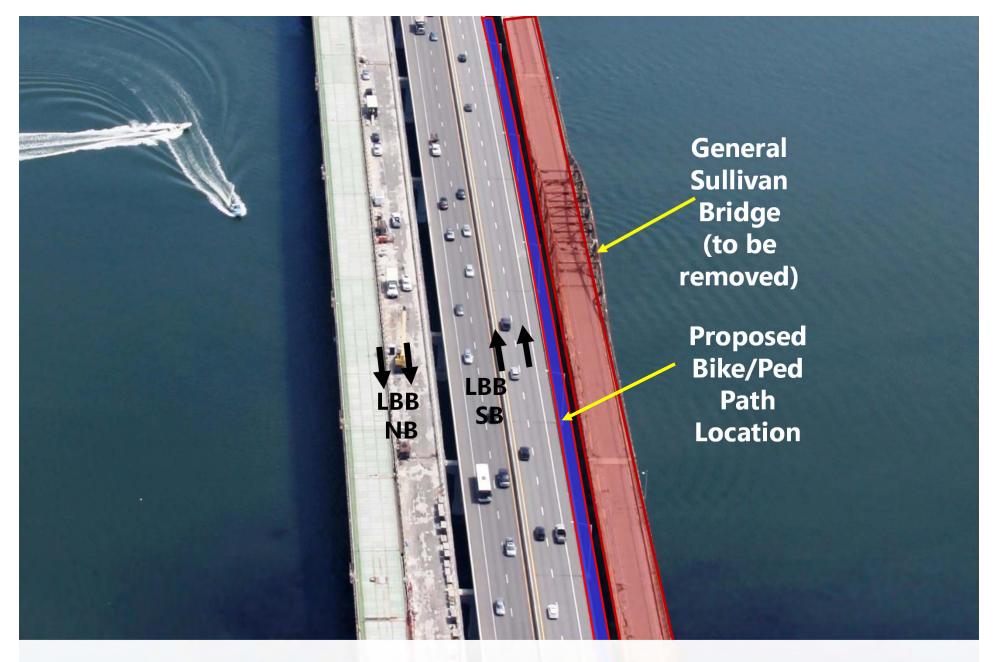
Alt ation consistent with MOA;

ass and size (lowest capital and life cycle cost);

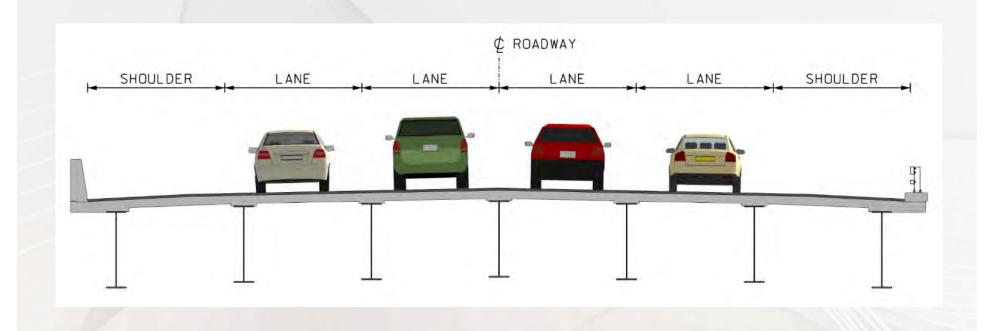
– Truss replacement of approach spans and rehabilitation of ch, continuous truss; and

ernative 4 – Not shown; complete bridge replacement; estimated cost of \$42.2 M for comparison purposes.



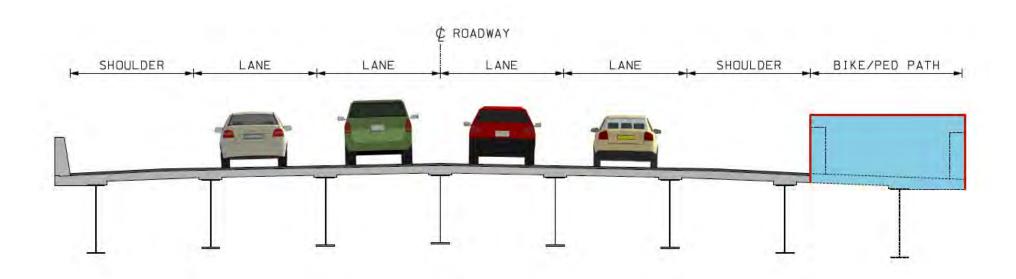


Reconfigure/Widen Southbound Little Bay Bridge Alternative



Existing Little Bay Bridge Section





Reconfigured/Widen to Accommodate Bike/Pedestrian



Construction Update

Contract L (Completed 2013) New Little Bay Bridge



Contract M (Completed 2015) Newington



Contract O (Completed 2017) Rehabilitate Old Little Bay Bridge



Contract Q (COMPLETION 2020)



- Provides a Full Service Interchange at Exit 6
- Eliminates Exit 5
- Introduces 2 Signalized Intersections for Exit 6 Ramps
- Roundabout Replaces Signalized Intersection at Boston Harbor Rd.
- Constructs 4 Soundwalls N. and S. of: Exit 6 (SB), and; of the Dover Toll Plaza (NB and SB)



Contract Q Ground Improvements Wick Drain Installations 3 Million LF – 50% Complete





ADDRESSING UNDERLYING MARINE CLAY



Contract Q Sound Wall Construction 17500 LF – 40% Complete

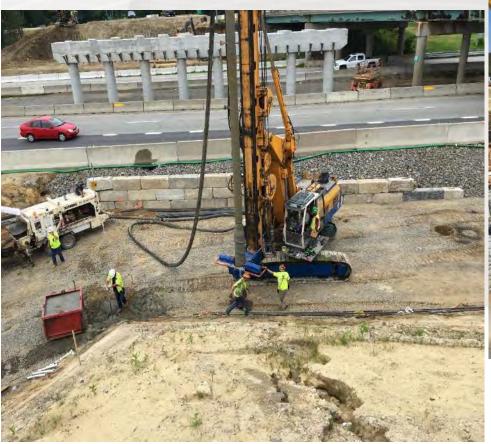






Contract Q Exit 6 Bridge Abutments

High Modulus Grout Columns to support Abutments



Mechanically Stabilized Earth





Contract Q Exit 6 Bridge Girders Precast Concrete - Erected December 2017







Contract QRoadway Construction

Exit 6 NB Off Ramp Opening in 2018

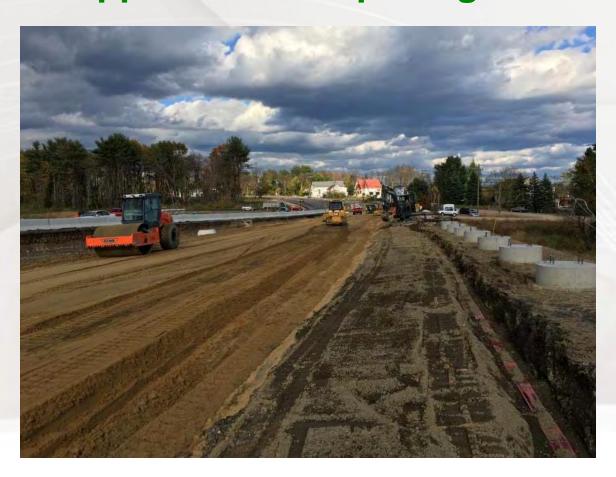


Exit 6 SB On Ramp Now in Service





Contract QRoadway Construction Route 4 Approaches – Opening in 2018.

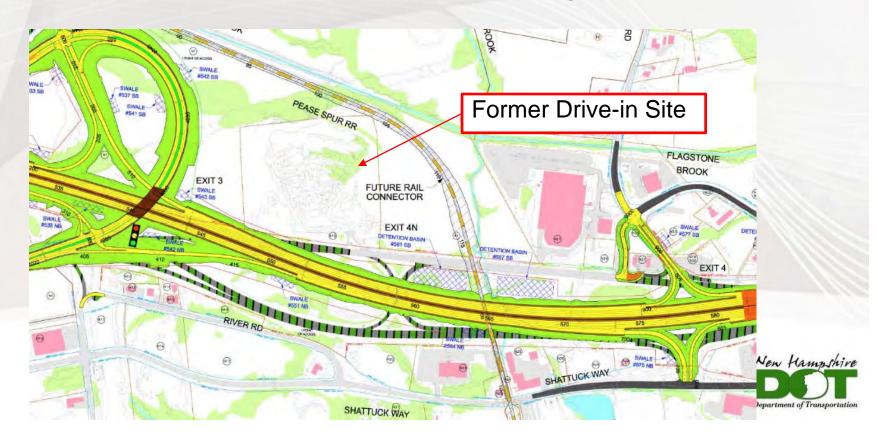




Upcoming Turnpike Projects

Newington Maintenance Facility

- Needed to accommodate expansion of Spaulding Turnpike
- Proposed location on Turnpike owned parcel (former drive-in site)
- Between Exits 3 and 4 on west side of Spaulding Turnpike



Newington Maintenance Facility

- Funded in Ten Year Plan 2019 2028
- Anticipated start of construction Summer/Fall 2019
- Anticipated completion of construction Fall 2020



Newington Maintenance Facility

- Existing Dover maintenance shed to be discontinued in Fall 2020
- Following environmental clearance, property anticipated to be declared "surplus State property."





Dover Toll Plaza - Existing Conditions

- Existing facility built in 1956
- Rehabilitation results in "No Realized Benefit" to customers
- Operational challenges exist with Exit 6 ramps at current location





Dover Toll Plaza Assessment of Alternatives

- Implementation of Open Road Tolling (ORT) will require shifting toll booth approximately one mile north
- Open Road Tolling (ORT) designs "on hold"
- An All Electronic Tolling (AET) solution under consideration
- All Electronic Tolling (AET) requires legislative authority for implementation by NHDOT
- Under legislative overview with the draft 2019-2028 Ten Year
 Plan



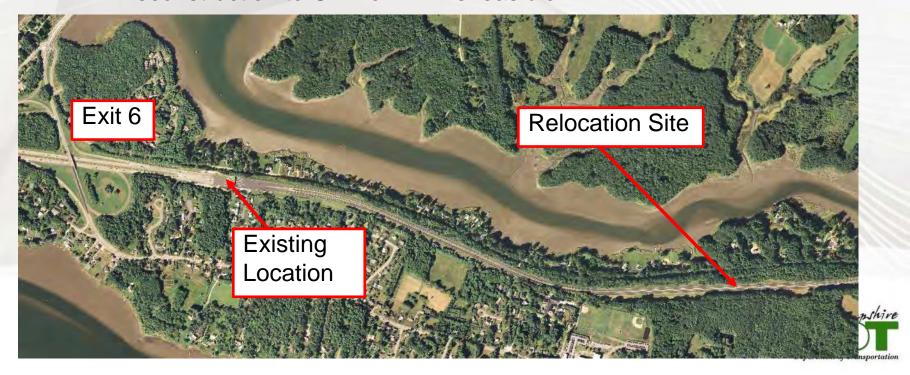
Dover Toll Plaza Improvements

- ORT provides benefits to customers who prefer or need to maintain cash payment options
- AET does require reduced capital costs however may require surcharges or adjusted rates
- ORT and AET both offer benefits to include the following:
 - Increased mobility
 - Reduced travel time
 - Reduction in accidents
 - Improved safety for travelers and employees
 - Reduced energy consumption



Dover Toll Plaza Improvements

- Existing Location
 - Reconstruction to ORT not feasible
 - Reconstruction to AET is feasible
- Relocation 1.25 miles north
 - Reconstruction to ORT or AET is feasible



Dover Toll Plaza Improvement Schedule

- Funded in Ten Year Plan 2019 2028
- Anticipated Start of Construction Spring 2021*
- Anticipated Completion of Construction Fall 2022*

*Contingent upon identification of tolling solution (ORT or AET) in a timely manner to allow for project development process



Contact Information

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Upcoming Turnpike Projects

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Thank You!

Questions/Comments?

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







