Public Scoping Meeting

State Project No. 167-108

Bridge No. 00773

Heroes Tunnel

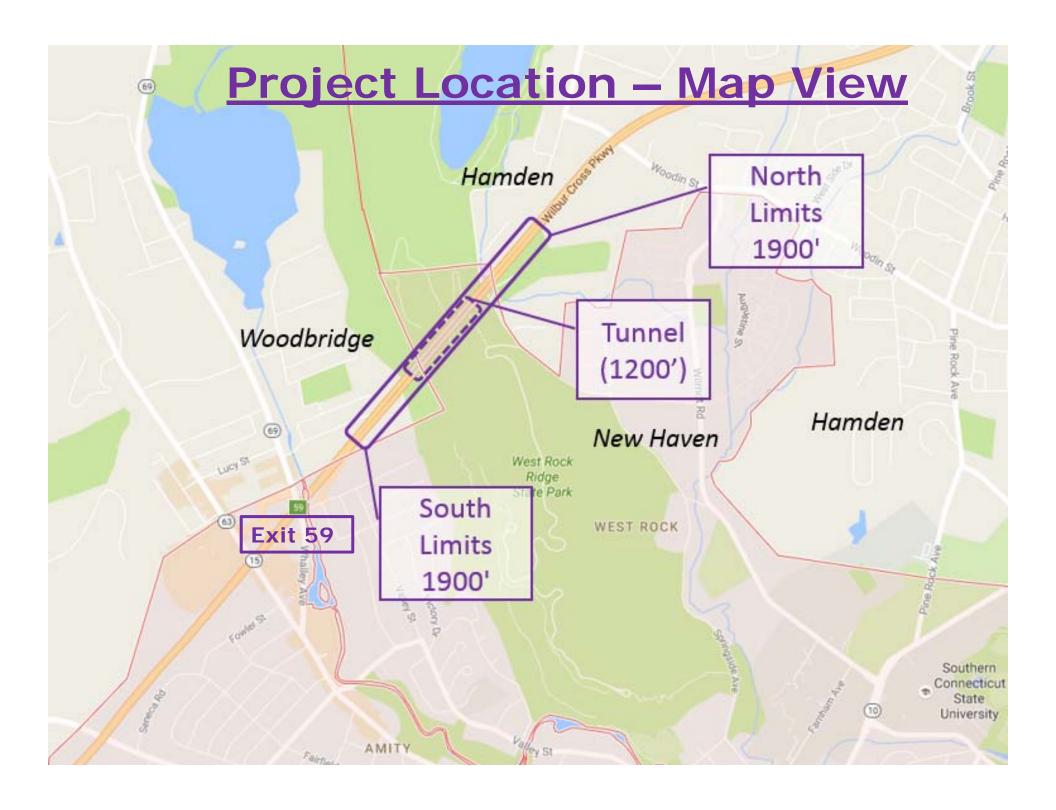
Route 15 Wilbur Cross Parkway
Through West Rock Ridge

Towns of Hamden, Woodbridge
City of New Haven



Agenda

- Show Project Location and Limits
- Define Public Scoping Meeting
- Explain the Purpose of the Project
- Introduce CTDOT and Consultant Engineers
- Present an Overview of the Project
- Explain the Environmental Document Process
- Solicit Questions and Comments





Public Scoping Meeting

- Gathering/Analysis of Information to Establish the Scope of Environmental Review
- Scoping: Prior to Preparing Any Environmental Document and Deciding on Project Alternatives
- Request Public to Submit Information to Identify Alternatives that Fulfill Project Purpose and Need
- Identify Specific Aspects of Environment to be Analyzed
- Public May Have Better Knowledge of Area and Resources



Purpose Of Project

- To correct current overall rating of "Poor" determined by periodic inspections
- Tunnel is currently inspected on a yearly basis (biennial and special inspections)
- Current "Poor" rating not an indication of an imminent safety issue, but rather identifies the need for action before a more serious condition develops
- Project scope is anticipated to include rehabilitation and/or reconstruction to address structural and geometric deficiencies.

Project Roles

CTDOT Office of Environmental Planning

- Coordination/Review of Environmental Aspects
 - Mark Alexander, Assistant Planning Director
 - Kevin Fleming, Transportation Planner

CTDOT Division of Bridges, Bridge Consultant Design Unit

- Oversight/Liaison/Coordination of Design Consultant
 - Theodore Nezames, Manager of Bridges
 - Timothy Fields, Principal Engineer
 - David Cutler, Supervising Engineer
 - Derick Lessard, Project Engineer



Project Roles

CDM Smith

- Design Consultant Engineer
- Preparing Environmental Impact Evaluation/Assessment
- Preliminary Design of Preferred Alternative

Federal Highway Administration (FHWA)

- Federal Funding Anticipated for Alternative
- FHWA Engineers will be Associated with Project



CDM Smith

- New England-Based Global Consulting Engineering Firm
- Offices in East Hartford and New Haven (Church Street)
- International Tunnel Experts Supporting Local Offices/Project
- Inspection of Tunnels, Preparation of Reports
- Know Project, Environs, and Community

CDM Smith Team

- Principal Larry Murphy
- Principal in Charge Paul Schmidt



- Principal/Project Manager Joe Balskus
- Public Engagement Dave Sousa
- Environmental Assessment/Impact Jane Wheeler
- Tunnel Designer Mohammad Jafari



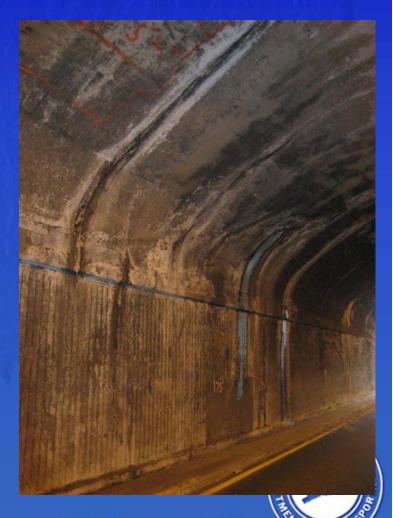
Tunnel Description

- Opened in 1949 Wilbur Cross Parkway
- Eligible for Listing on State/National Historic Register
- Only Highway Tunnel Through Natural Land Form in CT
 - Carries 70,000 vehicle per day
- Each Barrel 1200' long, 28' wide, 11' Lanes, 6" shoulders
 - Standards Require 12' Lanes, 8' Shoulders
- Non-Compliance w/Tunnel Standards/Requirements
 - Geometrics, Ventilation and Emergency Systems
- CDM Smith 2009 Inspection: Need for Rehabilitation



Existing Conditions

- Significant Deterioration
 - Prior Biennial Reports
 - CDM Smith Inspection/Study
- Peak Hour Congestion
 - Recurring Bottlenecks
- Emergency Response Constraints
- Fire Safety System None



Tunnels

- Ground Water Infiltration
 - Walls/Ceiling Stalagmites
 - Freeze/Thaw Conditions
 - Falling Icicles
- Cross Section Deficient
 - 26' Existing Width
 - 50' Required (2 Lanes)



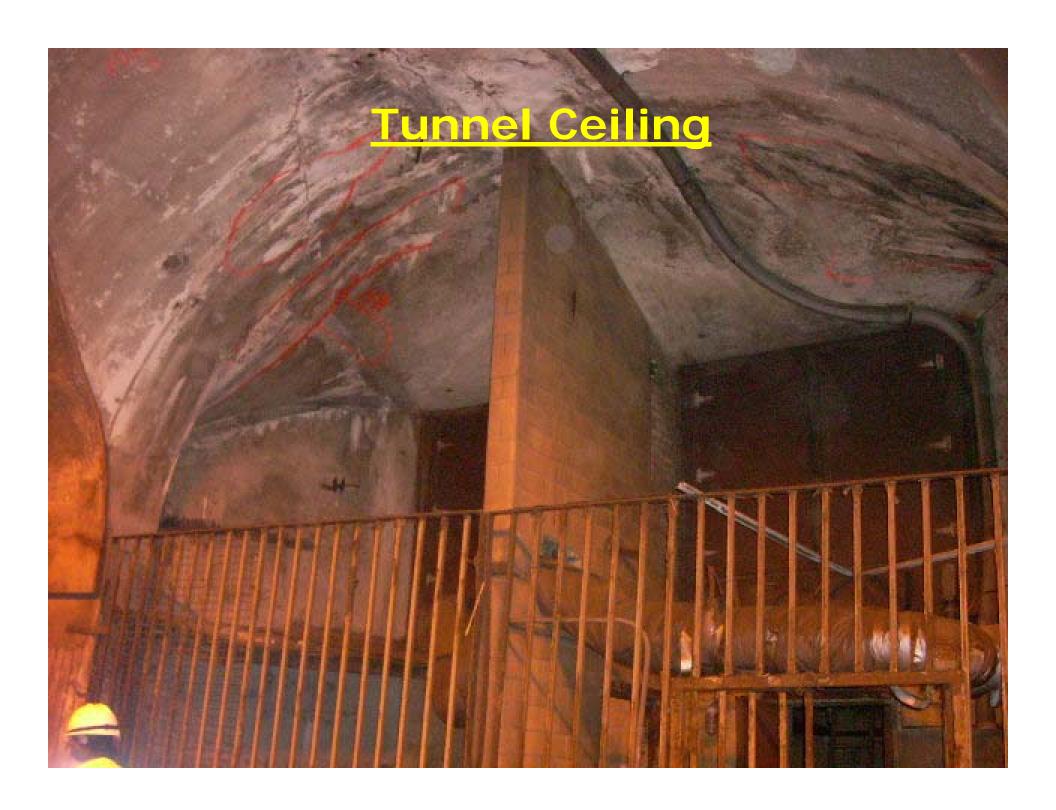
Frequent Maintenance Requires Tunnel
 Closures – Shifting Traffic



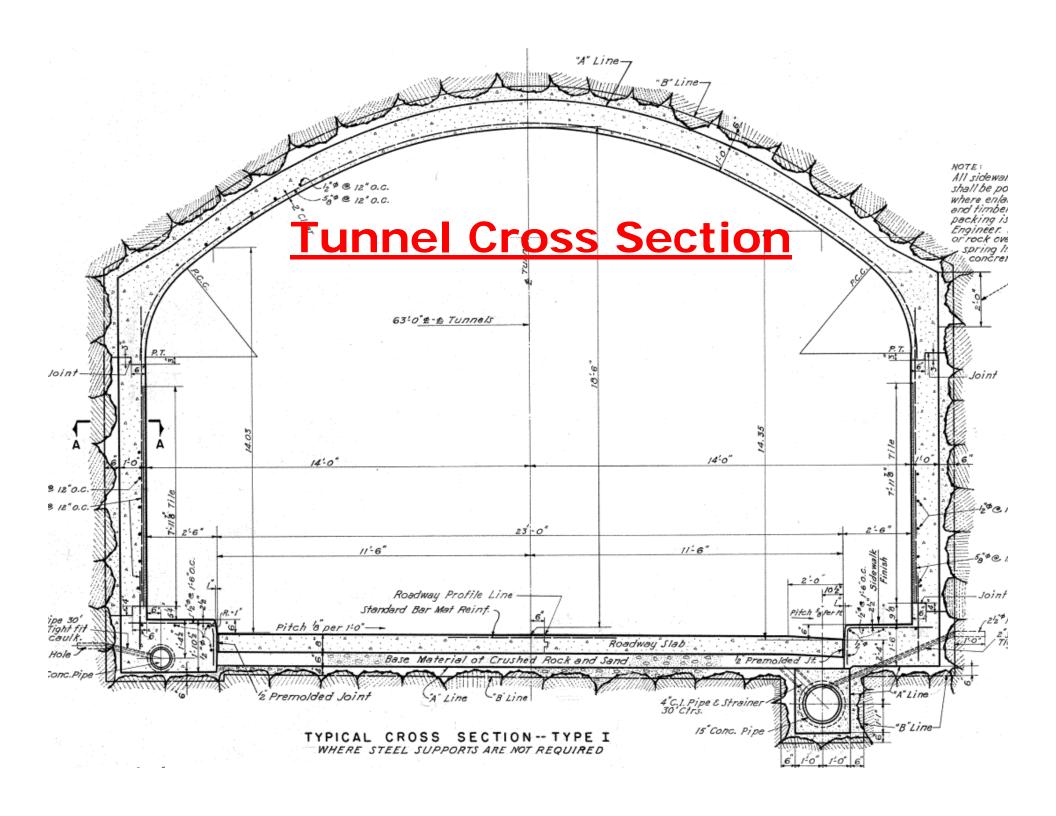


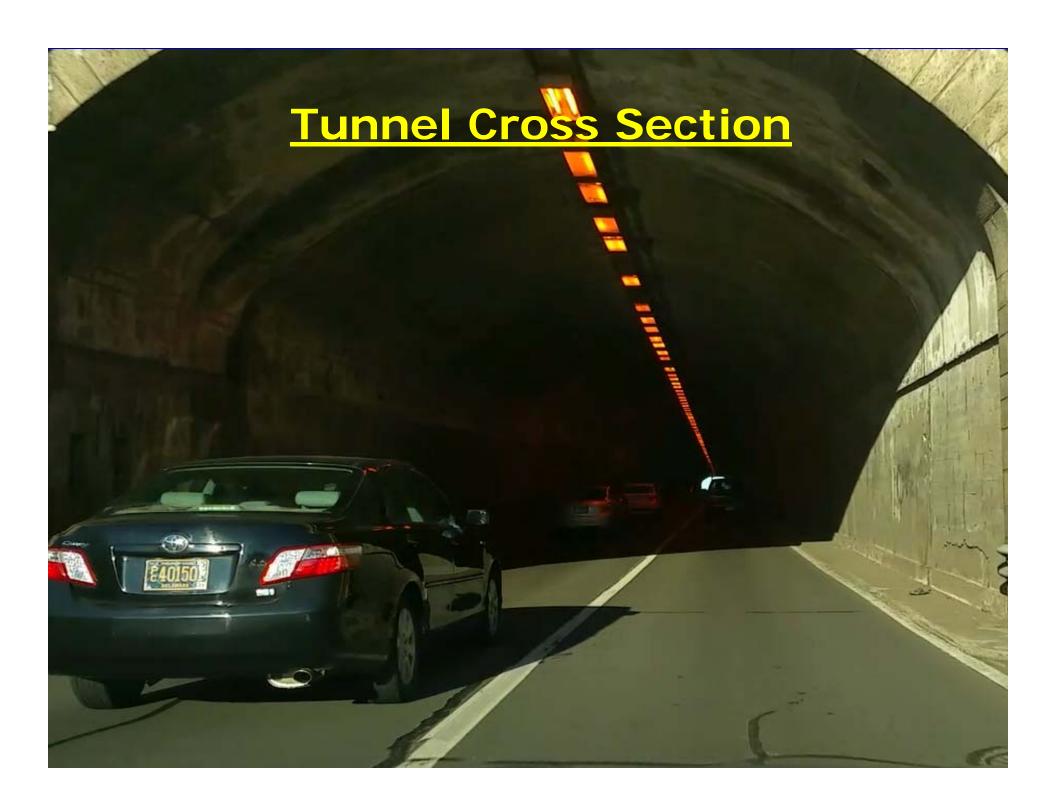












Rehabilitation or Reconstruction

- Rehabilitation of Tunnel Evaluated in 2014 Report
 - Significant Traffic Impacts During Lane Closures
 - Geometrics Not Correctable Within Existing Tunnel Widths
 - Vehicle Speeds Through Tunnel Impacted
 - Narrowness of Tunnel Causes Reduced Speeds
 - Structural Integrity of Tunnels Ground Water Infiltration

Rehabilitation or Reconstruction

- Rehabilitation Limits Benefits of Tunnels
 - Future Service Life
 - Future Traffic Flow Capacity
- Reconstruction Options Considered

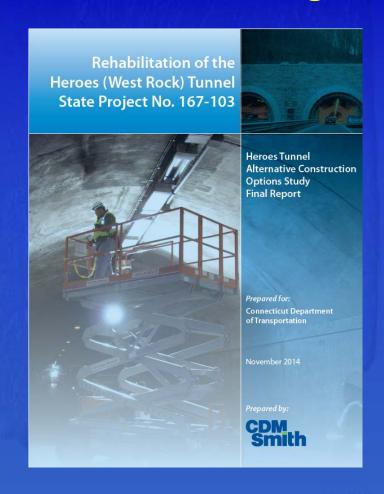




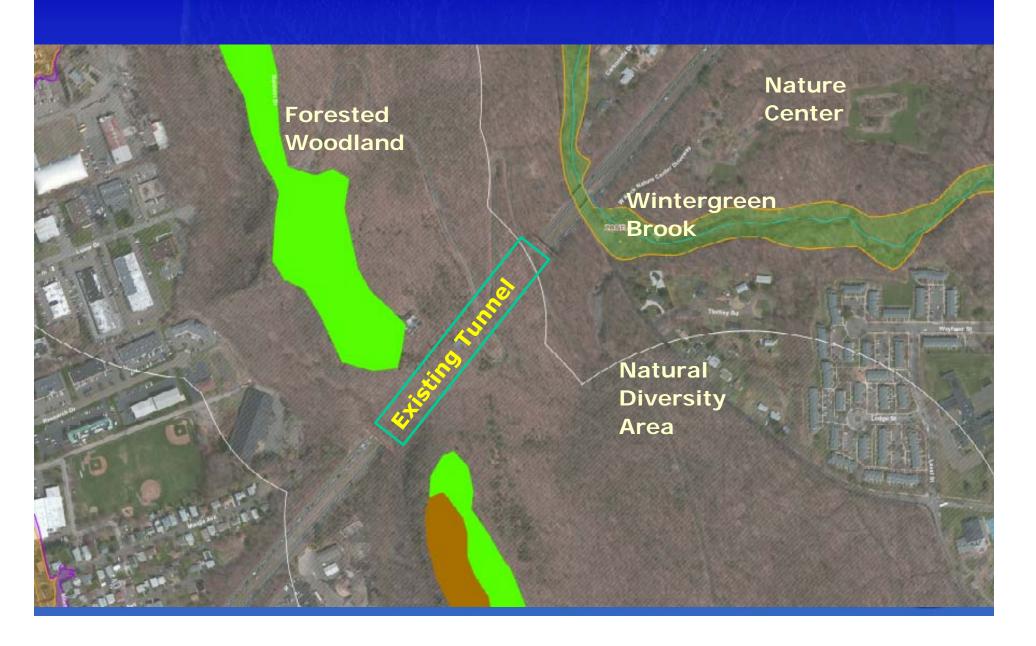


Rehabilitation Reports Summary

- November 2014 Alternative Construction Options Study
- September 2016 Supplement
- Studied Several Options
 - New One-Lane Tunnel
 - New Two-Lane Tunnel
 - Widen Existing Tunnel
 - Close One Existing Tunnel/Detour
 - -Close One Lane in Existing Tunnel
 - -Construction Bypass Tunnel (short)
 - -Construction Bypass Tunnel (long)
- Additional Options to be Explored
- No Build (Do Nothing)



Existing Environmental Resources



Environmental Document/Process

- Prepare Environmental Document
 - Alternative Analysis Including No Build
 - National/Connecticut Environmental Policy Acts NEPA/CEPA Processes
 - Potential Environmental Impacts of All Alternatives
 - West Rock Nature Center/West Rock Ridge State Park
 - Public Outreach
- Preliminary Design
 - Preferred Alternative
 - Construction Staging
 - Impacts

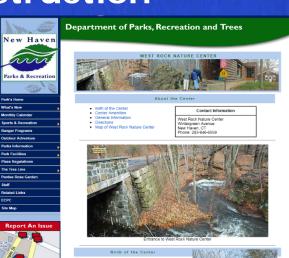


Environmental NEPA/CEPA Tasks

- Prepare Environmental Impact Evaluation (EIE)/Environmental Assessment (EA)
- Establish Purpose and Need
- Evaluate Alternatives



- Consider Construction/Post-Construction
 - **Impacts**
- Conduct Field Studies
- Consider Sensitive Resources:
 - West Rock Nature Center (City)
 - Wintergreen Brook
 - West Rock Ridge State Park
 - Historic Designation



Environmental NEPA/CEPA

- Air quality
- Water quality
- Noise
- Groundwater
- Wetlands, water bodies and floodplains
- Cultural/Archaeological resources
- Recreational Resources
- Natural communities, including protected animal, plant species and their habitats
- Aesthetics
- Traffic

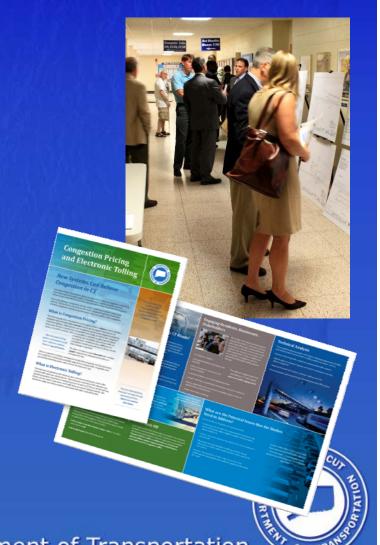




<u>Public Involvement – Support Process</u>

Includes:

- Community Advisory Committee
- Identification and Engagement of Stakeholders
- Project Website and Social Media
- Email Bulletins to Interested Citizens and Community Groups



Connecticut Department of Transportation

Public Involvement

Includes Various Meetings:

- Outreach Events (Pop-Ups)
- Informational Meetings or Open Houses
- Formal Public Meeting(s)









<u>Potential Stakeholders – Public</u> <u>Outreach</u>

Large Employers/ Business Orgs:

- Southern CT State University
- Sikorsky
- Yale University
- Greater New Haven Chamber of Commerce
- REX Regional Economic Xcelleration
- Yale-New Haven Hospital

Governmental:

- Elected Officials (Local, State & Federal)
- South Central Council of Gov'ts
- CT Dept. of Energy & Environmental Protection
- Federal Highway Administration
- U.S. Environmental Protection Agency

Non-Profit Orgs:

- CT Association for Community Transportation
- AAA of Southern New England
- CT Coalition for Environmental Justice
- CT Fund for the Environment
- Economic Development Corp. of New Haven
- CT Technology Council
- New Haven Urban Design League
- Elm City Cycling
- CT Business & Industry Association

Municipalities:

- Town of Woodbridge
- Town of Hamden
- City of New Haven

Transportation Providers:

- CT Transit
- Greater New Haven Transit District
- CT Rides
- CTDOT



Next Steps

- Receive Public Comments
 - Verbal, Written Form, Email
- Early Work Data Collection
 - Archaeological Survey
 - Geotechnical (Borings)
 - Survey









Time Line

- Early Work Next 6-9 Months
- Complete NEPA Document Studies
 - 18-24 months
- Preliminary Design Preferred Alternative
 - After NEPA



Questions/Comments

- End of Scoping Process Comment Period –
 October 7, 2016
- Comments Throughout Project Process
- Presentation Copy Will Be Available: http://www.ct.gov/dot/lib/dot/documents/0167-0108ScopingMeeting
- Project Contacts

Contacts

Public Scoping Comments by October 7, 2016 to:

Mr. Mark W. Alexander, Transportation Assistant Planning Director Connecticut Department of Transportation Bureau of Policy and Planning 2800 Berlin Turnpike, Newington, CT 06131 dot.environmentalplanning@ct.gov

Project Comments throughout process should be sent to:

Mr. David A. Cutler, P.E., Transportation Supervising Engineer Connecticut Department of Transportation Bureau of Engineering and Construction 2800 Berlin Turnpike, Newington, CT 06131 860-594-3210 David.Cutler@ct.gov

Connecticut Department of Transportation

End of Presentation

http://www.ct.gov/dot/lib/dot/documents/0167-0108ScopingMeeting

Thank You!



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