

Nahant Beach Reservation Rehabilitation Project



Public Meeting

June 2, 2010
Nahant Town Hall
Nahant, MA



Commonwealth of Massachusetts

Governor

Deval L. Patrick

Lieutenant Governor

Timothy Murray

Energy and Environmental Secretary

Ian A. Bowles

Department of Conservation and Recreation Commissioner

Richard K. Sullivan, Jr.

DCR Mission Statement

*To protect, promote and enhance our
common wealth of natural, cultural and
recreational resources.*

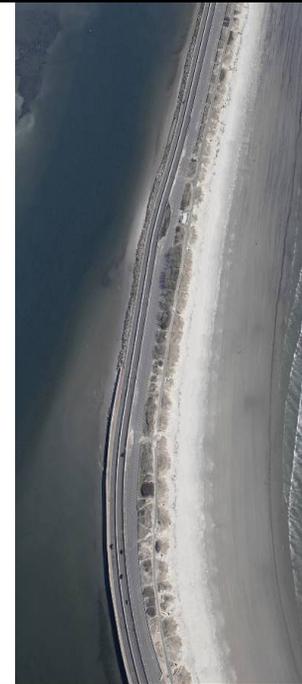
DCR's Investment in the Community

- ✓ Nahant Beach Causeway - \$20M
- ✓ Ward Bathhouse Rehabilitation - \$600k
- ✓ Rail Painting on Lynn Shore Drive - \$200k
- ✓ "Halfway House" Reconstruction - \$1.2M
- ✓ Annual Dedicated Algae Removal Effort



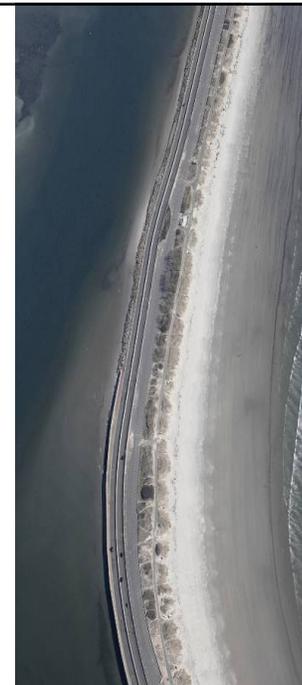
Purpose of Meeting

- ✓ Review Project Goals and Design Issues
- ✓ Highlight Major Design Elements
- ✓ Present Construction Schedule
- ✓ Present Construction Sequencing
- ✓ Review Construction Impacts / Mitigation



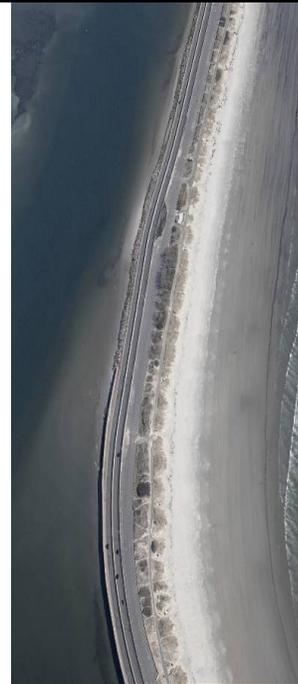
Project Goals

- ✓ Rehabilitation of Reservation Parkway
- ✓ Improve Vehicular and Pedestrian Safety
- ✓ Upgrade Drainage System
- ✓ Upgrade Reservation Identity
- ✓ Enhance Recreational Opportunities
- ✓ Enhance Reservation Aesthetics
- ✓ Protect Natural Resources



History of Public Outreach

- ✓ June 12, 2003 – Nahant Selectmen Meeting
- ✓ October 22, 2003 – Public Informational Meeting
- ✓ April 17, 2008 – Public Informational Meeting
- ✓ July 10, 2008 – Public Informational Meeting
- ✓ March 31, 2009 – Nahant Con. Com. Hearing
- ✓ April 2, 2009 – Nahant Selectmen Meeting
- ✓ April 21, 2010 – Lynn Con. Com. Hearing
- ✓ January 7, 2010 - Nahant Selectmen Meeting



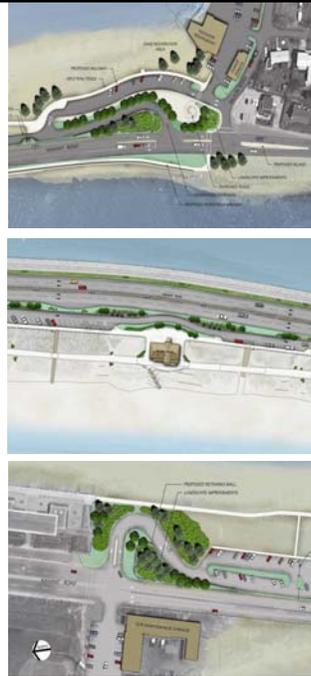
Major Design Issues

- ✓ Deteriorated Roadway Structure
- ✓ Inadequate Drainage System / Capacity
- ✓ Deteriorated Sea Wall and Revetment
- ✓ Inefficient Entry / Exit Configuration
- ✓ Minimal Pedestrian Accommodation / Safety
- ✓ Lack of Visual Character / Identity
- ✓ Deficient Boat Ramp



Major Design Elements

- ✓ Full Depth Pavement Reconstruction
- ✓ Cross Section Improvements
- ✓ Drainage System Reconstruction
- ✓ Sea Wall and Revetment Reconstruction
- ✓ Entry / Exit Reconfiguration
- ✓ Beach / Dune Enhancements (Controlled Access)
- ✓ Boat Ramp Reconstruction
- ✓ Environmental Mitigation (@ Rumney Marsh)



Environmental Coordination

- ✓ Local Conservation Commissions
- ✓ US Army Corps of Engineers
- ✓ MassDEP
- ✓ EPA
- ✓ Mass. Division of Marine Fisheries
- ✓ Mass. Coastal Zone Management



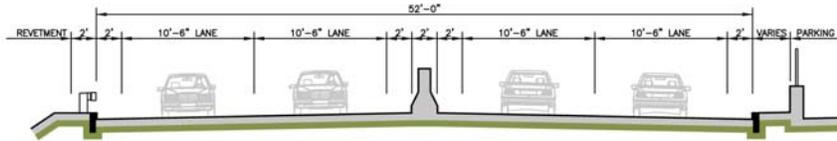
Environmental Permitting

- ✓ Mass DEP Order of Conditions (3)
- ✓ MEPA Certificate
- ✓ 401 Water Quality Permit
- ✓ USACOE 404 Permit
- ✓ Chapter 91 Waterway License

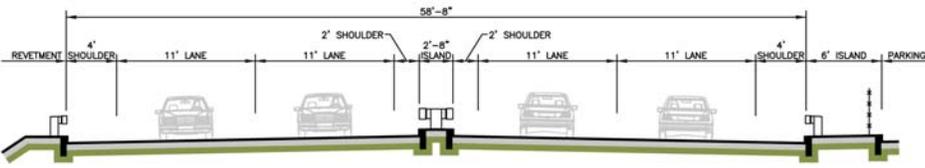


Major Design Features

Cross Section Improvements



EXISTING CROSS SECTION



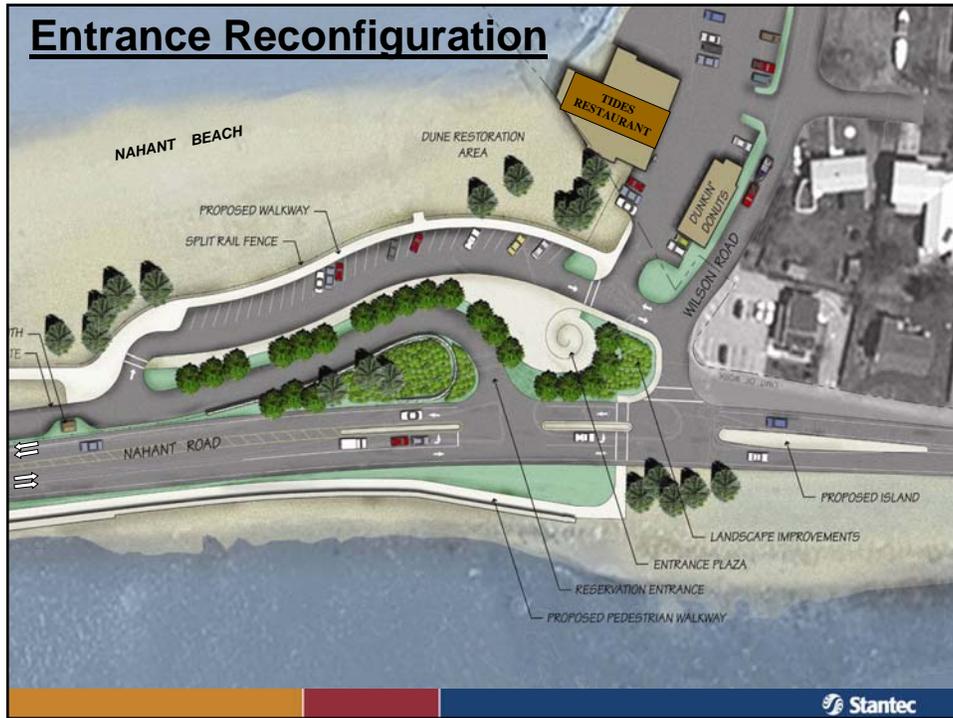
PROPOSED CROSS SECTION

Entrance Reconfiguration



Existing

Entrance Reconfiguration



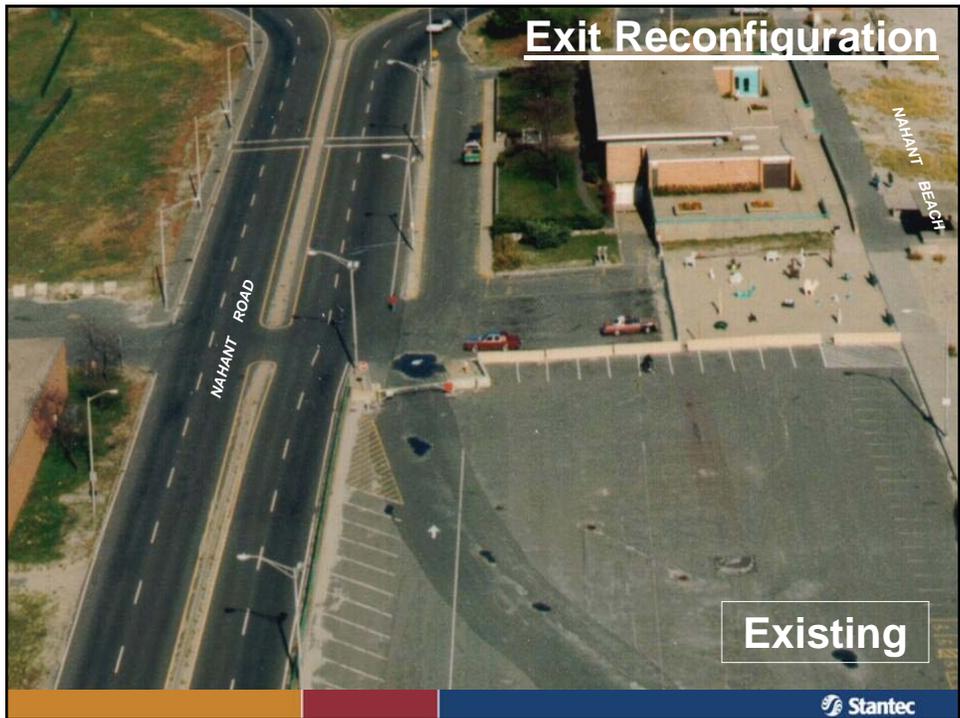
Halfway House Reconfiguration

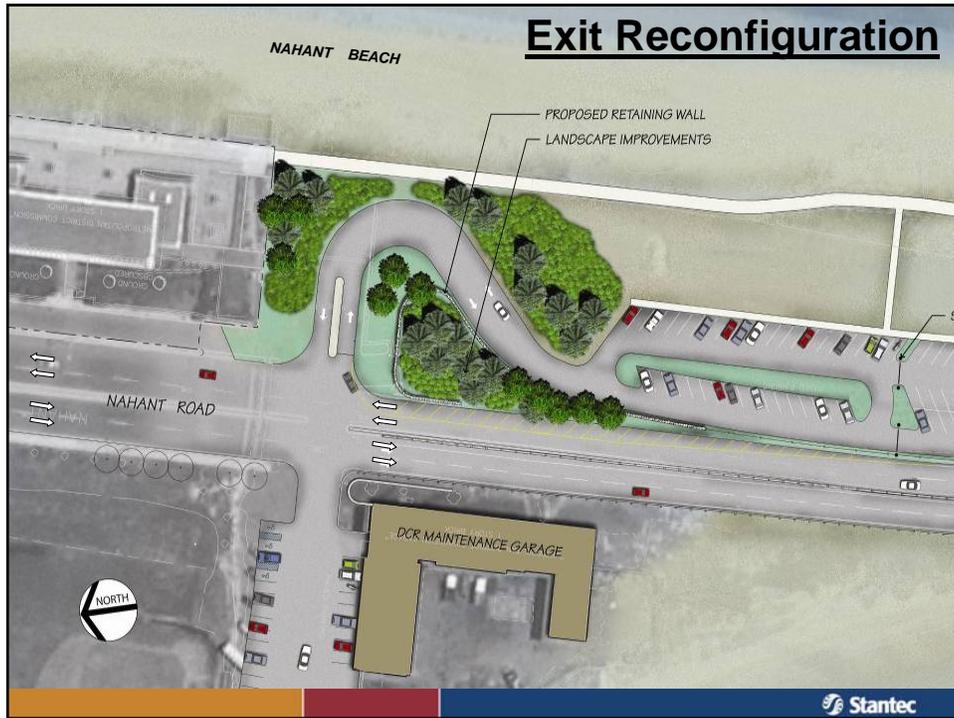


Halfway House Reconfiguration



Exit Reconfiguration





dcrc MASSACHUSETTS DEPARTMENT OF CONSERVATION AND RECREATION

Sea Wall / Revetment Improvements

EXISTING CONDITIONS





WIDTH VARIES 7'± SHELF

EXIST. SEAWALL ELEV. = 25'±

3.2 TON STONE 2'

ELEV. 16'±

10'

GEOTEXTILE FILTER FABRIC MIRAFI FW 300 OR EQUIVALENT

CRUSHED STONE BEDDING WRAPPED BY GEOTEXTILE FABRIC TOP AND BOTTOM (1" THICK)

EXISTING BEACH ELEV. VARIES BETWEEN 6.5' AND 7.0'

WRAP GEOTEXTILE FABRIC AROUND TOE WITH FACING RIPRAP EMBEDDED 1'

HIGH TIDE LINE ELEV. = 12.7'

13.5' 5' WIDTH VARIES LEVEL AREA

R/R EXISTING REVETMENT STONE (4.5' THICK)

ELEV. 17'±

2'

250 POUND STONE (2.3' THICK)

GEOTEXTILE FILTER FABRIC MIRAFI FW 300 OR EQUIVALENT

CRUSHED STONE BEDDING (6" THICK)

EXISTING BEACH ELEV. = 5.5'

HIGH TIDE LINE ELEV. = 12.7'

Stantec

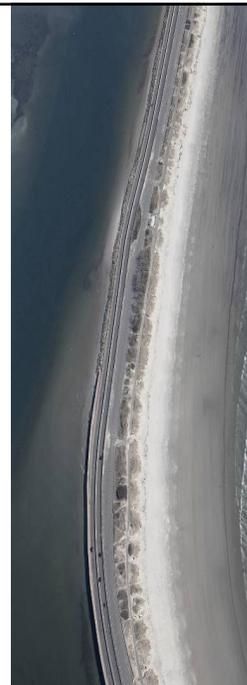
Installation of Historic Lighting



- **Historic 1907 Fixture (Parks District Standard)**
- **Double Fixtures to be Installed in Median**
- **Single Fixtures @ Wilson Road**

Project Update

- ✓ Project Design Completed & Permits Secured – Fall 2009
- ✓ Project was advertised in Central Register – Jan. 2010
- ✓ Bid Opening – March 3, 2010
- ✓ Construction Contract Awarded to Pihl, Inc.
- ✓ Construction Expected to begin June 2010
- ✓ Estimated Completion – Spring 2013



Construction Overview

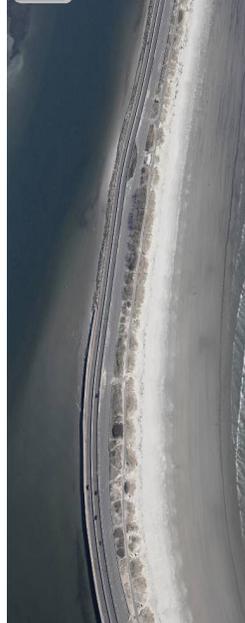
- ✓ \$20M Construction Project
- ✓ Completed in 7 Phases over 3 Years (*Year Round – weather permitting*)
- ✓ Phasing Developed to Minimize Construction Impacts
- ✓ **Phasing Maintains 2 Travel Lanes in Each Direction at All Times**
- ✓ Reservation Remains Open (*Memorial Day – Labor Day*)
- ✓ Construction to Begin on Harbor Side and Work Towards Reservation
- ✓ DCR to Provide Full Time Resident Engineer on Site

Construction Considerations

- ✓ Traffic Operations
 - 2 Lanes of Traffic in Each Direction at All Times During Construction
 - No Detours / Lane Reductions
 - Emergency Vehicle Access Maintained at All Times
 - No Weekend Work Allowed without DCR Approval
- ✓ Pedestrian and Vehicular Safety
 - Advanced Construction Signing / Electronic Message Boards
 - Temporary Barriers
 - Police Details (Local & State)



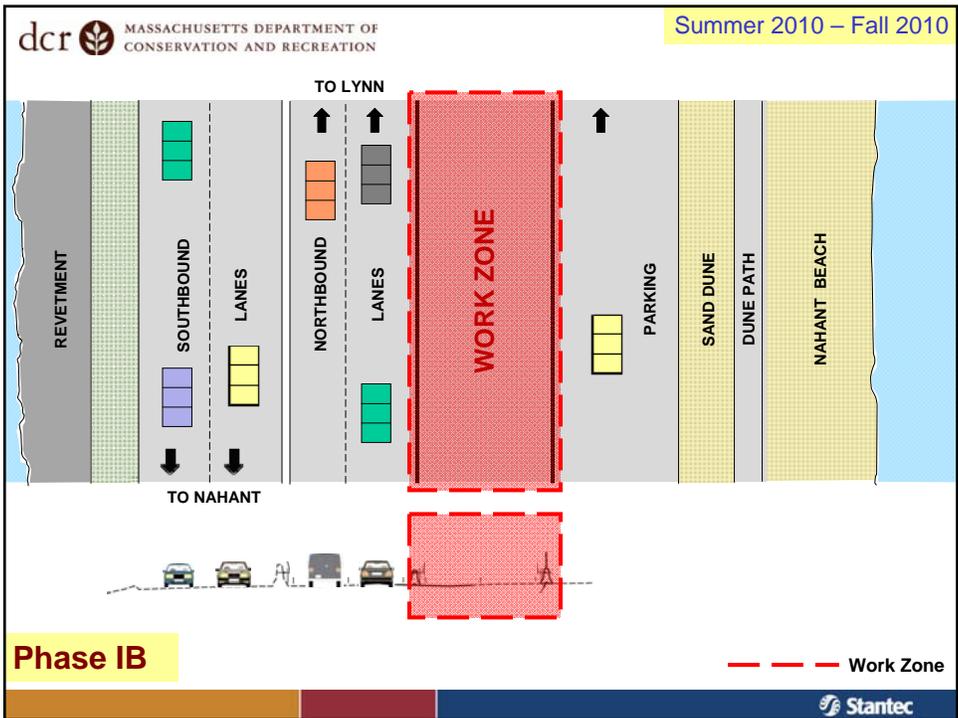
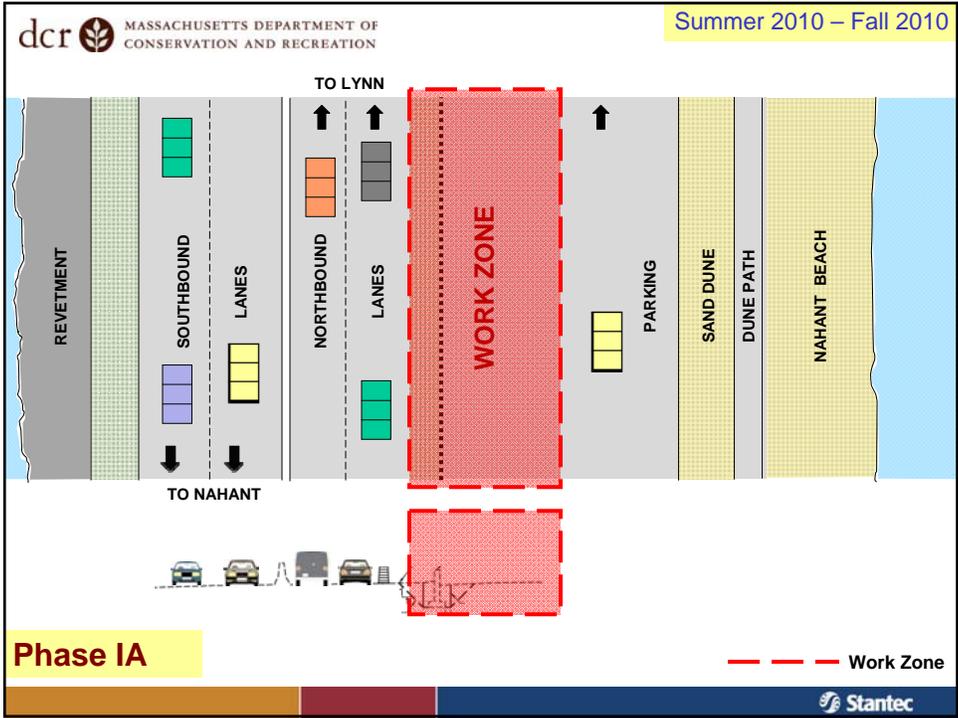
Construction Phasing



Phase I Overview

- ✓ Establish Construction Staging Areas
- ✓ Remove Wall between Causeway and Reservation
- ✓ Modify Existing Utilities (Water)
- ✓ Establish Temporary Travel Lanes (separated by barrier)
- ✓ Install Temporary Lighting System
- ✓ Install Temporary Drainage
- ✓ Install Temp. Pavement Markings
- ✓ Shift Traffic to Temporary Roadways





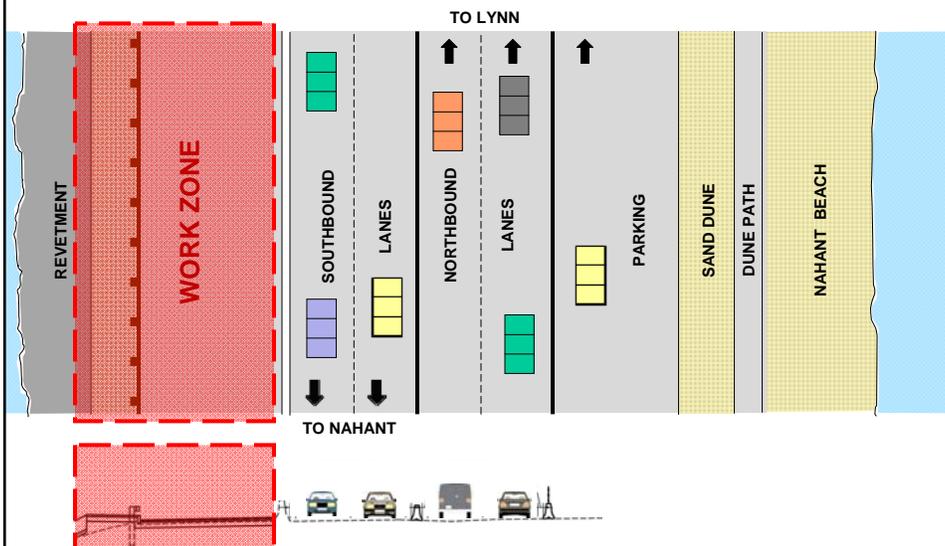


Phase II Overview

- ✓ Repair Seawall and Reconstruction Revetment
- ✓ Remove Existing Light Poles on Harbor Side
- ✓ Construct New Drainage Outfall Structures and Pipes
- ✓ Reconstruct Southbound Travel Lanes



Fall 2010 – Spring 2011



Phase II

--- Work Zone

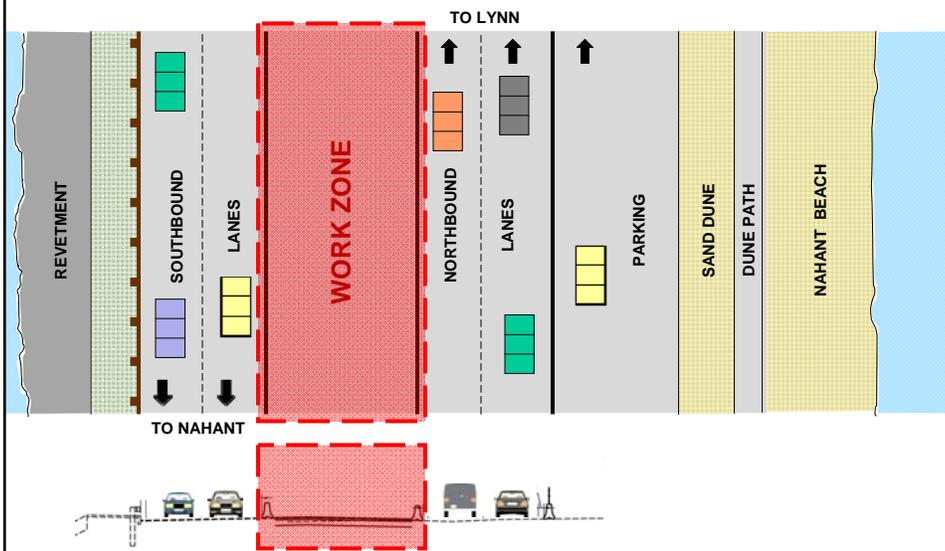


Phase III Overview

- ✓ Demolish and Remove Existing Median Barrier
- ✓ Construct New Drainage System in Roadway
- ✓ Reconstruct Northbound Travel Lanes
- ✓ Relocate / Modify Existing Utilities



Spring 2011 – Fall 2011



Phase III

--- Work Zone

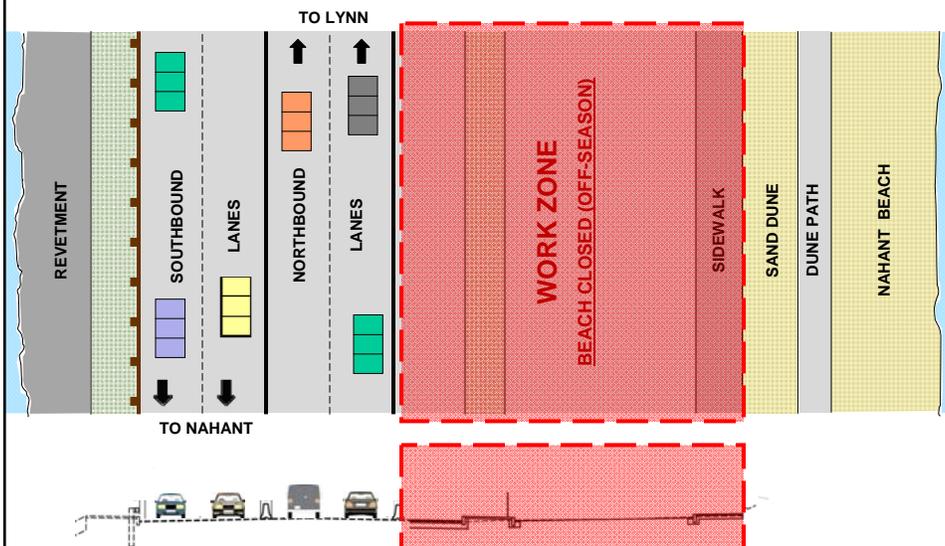


Phase IV Overview

- ✓ Reconstruct Reservation Parking Area
- ✓ Install New Drainage in Reservation
- ✓ Install Walls, Curb, Sidewalks, and Fencing in Reservation
- ✓ Relocate / Modify Existing Utilities



Fall 2011 – Spring 2012



Phase IV

--- Work Zone

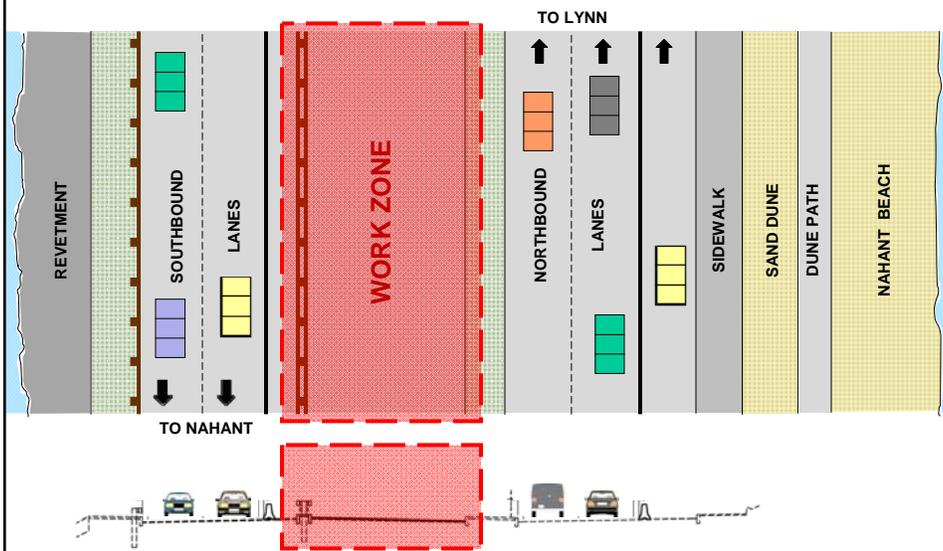


Phase V Overview

- ✓ Construct New Median and Barrier System
- ✓ Install Top Wearing Course on Northbound Travel Lanes
- ✓ Install Historic Lighting System
- ✓ Install Permanent Pavement Markings in NB Lanes



Spring 2012 – Summer 2012



Phase V

--- Work Zone

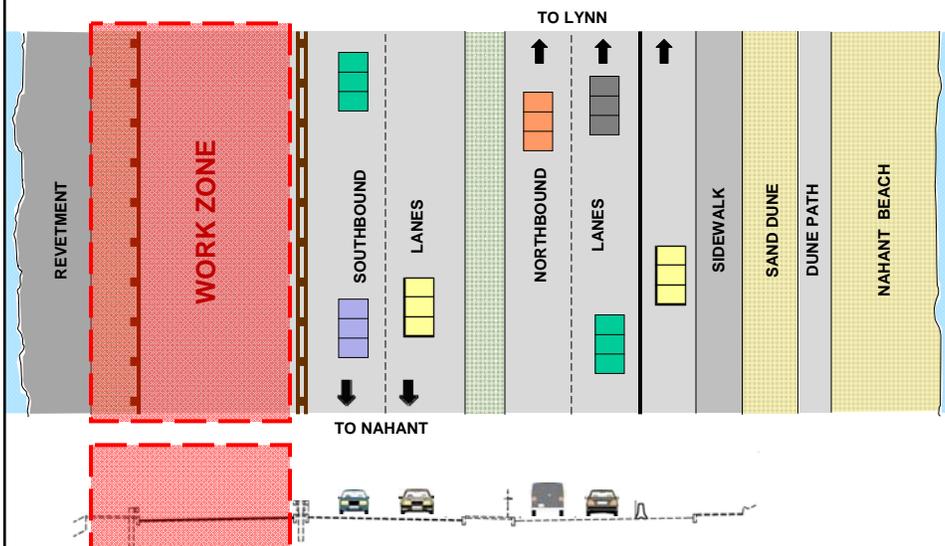


Phase VI Overview

- ✓ Complete Electrical Work for Lighting in Median
- ✓ Install Top Wearing Course on Southbound Travel Lanes
- ✓ Install Permanent Pavement Markings in SB Lanes



Summer 2012



Phase VI

--- Work Zone

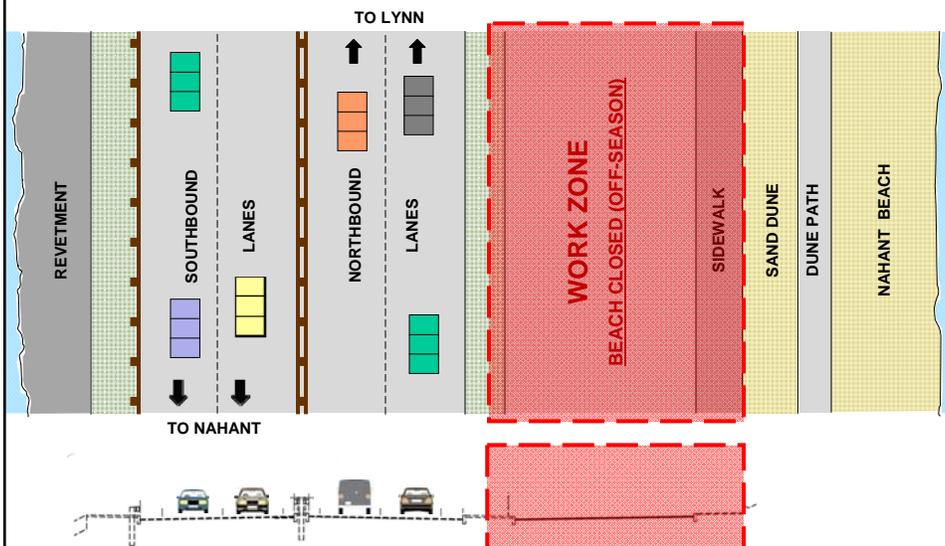


Phase VII Overview

- ✓ Install Top Wearing Course In Reservation Parking Lot
- ✓ Complete Installation of Reservation Amenities Including:
 - Dune Crossing Enhancements – Pedestrian Boardwalks
 - Parking Attendant Shed / Half Way House Plaza Improvements
 - New Landscaping
- ✓ Install Final Pavement Markings in Parking Lot
- ✓ Reconstruct Nahant Boat Ramp
- ✓ Demolish Staging Areas and Cleanup



Fall 2012 – Spring 2013

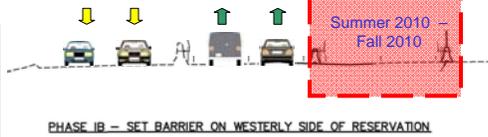


Phase VII

Work Zone

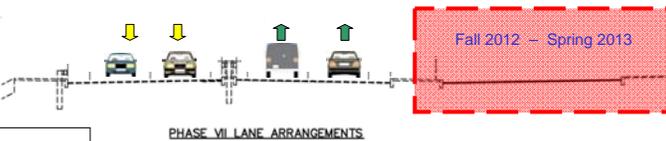
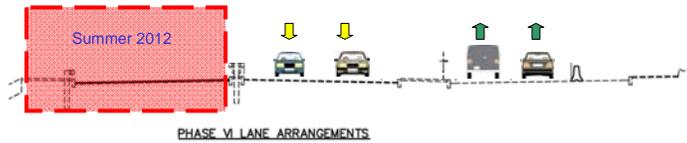
LEGEND

-   SB Travel Lanes
-   NB Travel Lanes
-  Work Zone



LEGEND

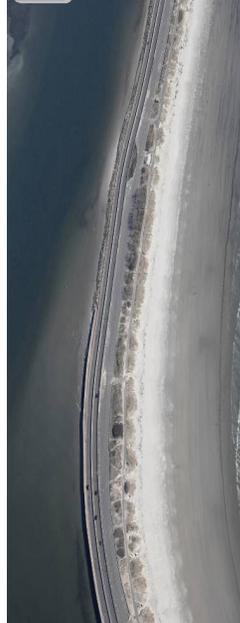
-   SB Travel Lanes
-   NB Travel Lanes
-  Work Zone





Construction Considerations

- ✓ Traffic Operations
 - 2 Lanes of Traffic in Each Direction at All Times During Construction
 - No Detours / Lane Reductions
 - Emergency Vehicle Access Maintained At All Times
 - No Weekend Work Allowed without DCR Approval
- ✓ Pedestrian and Vehicular Safety
 - Advanced Construction Signing
 - Temporary Barriers
 - Police Details (Local & State)
- ✓ Reservation Use and Operation



Reservation Impacts and Operations

- ✓ Reservation to Remain Open (*Memorial Day to Labor Day*)
- ✓ 600 Parking Spaces (Min) Available (*When Reservation is Open*)
- ✓ Independent Parking Lot Operation (*As exists today*)
- ✓ Message Boards to Alert Visitors that Lot is Full
- ✓ Nahant Boat Ramp Temporarily Closed During Construction
- ✓ Alternative Boat Launch Locations
 - Nahant – Wharf Street
 - Lynn – Blossom Street
 - Swampscott – Puritan Road



Community Information

If you have any questions, suggestions, or concerns regarding this project:

Email: DCR.Updates@state.ma.us

(note "Nahant Beach Reservation Rehabilitation Project" in subject line) or

Contact: DCR Community Relations Hotline: 617-626-4973

Presentation will be posted at:

<http://www.mass.gov/dcr/news/publicmeetings/parklandspast.htm>

Next Public Meeting: Fall 2010 – Provide Construction Update

Questions?