

# CAPE COD RAIL TRAIL EXTENSION YARMOUTH/BARNSTABLE



# Barnstable/Yarmouth CCRT Extension Project Location



# PROJECT GOALS

- Shared Use for all pedestrian activities
- Achieve desired design standards
- Satisfy safety and accessibility standards for all users.
- Provide Connectivity to desired destinations

# Project Task Force

- Town of Barnstable
  - Lindsey Counsell (Bike Path Chairman)
  - Alisha Parker (Growth Management Department )
  - JoAnne Miller Buntich (Growth Management Department)
  - Ruth Weil and David Houghton( Town Attorneys)
- Town of Yarmouth
  - George Allaire P.E. (DPW)
- MassDOT
  - Pamela Haznar P.E.(District 5 Projects Development)
- Cape Cod Commission
  - Martha Hevenor
  - Glen Canon
- Commonwealth of Mass State Legislature
  - Senator Daniel Wolf
- VHB
  - Joe Magni P.E.

# Original Cape Cod Rail Trail

- Original Construction (22 miles)
  - Dennis to Wellfleet (1977)
- Connectivity
  - National Seashore
  - Audubon Sanctuary
  - Nickerson State Park
  - Eight (8) Parking Lots
  - Orleans Center

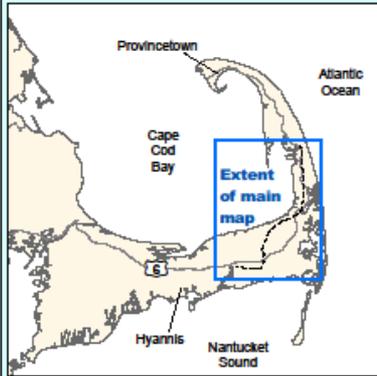


# Cape Cod Rail Trail Rehabilitation Project

- **Lead Agency:** Department of Conservation and Recreation
- **Project Costs:** \$5.0 Million
- **Two Phase Construction Schedule**
  - Phase 1 (2005)
    - -Dennis to Nickerson State Park
  - Phase 2 (2007)
    - Nickerson State Park to South Wellfleet

# Cape Cod Rail Trail Improvements

Trail Reconstruction  
Fall 2005 - Spring 2007



## PHASE 2

**CLOSED FOR RECONSTRUCTION**  
Fall 2006 - Spring 2007

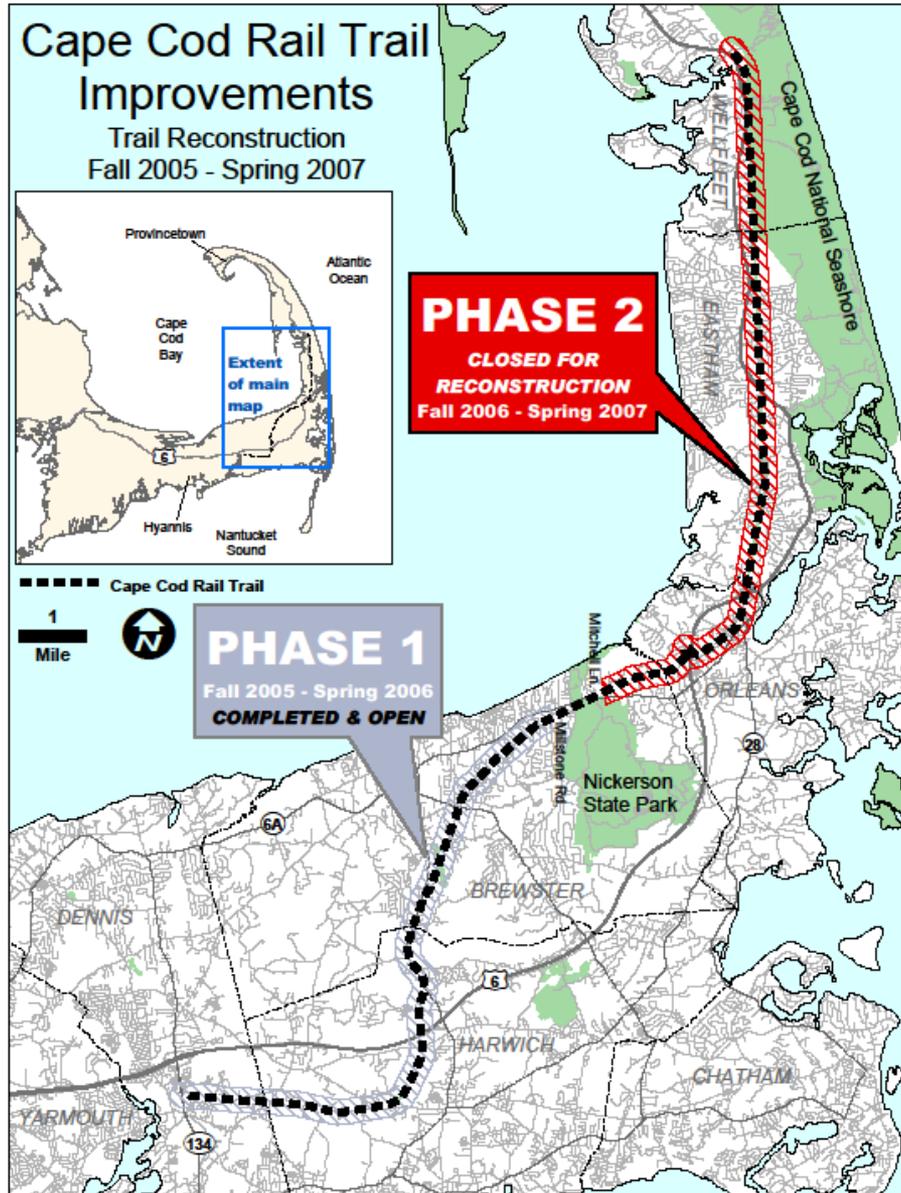
----- Cape Cod Rail Trail

1  
Mile



## PHASE 1

Fall 2005 - Spring 2006  
**COMPLETED & OPEN**



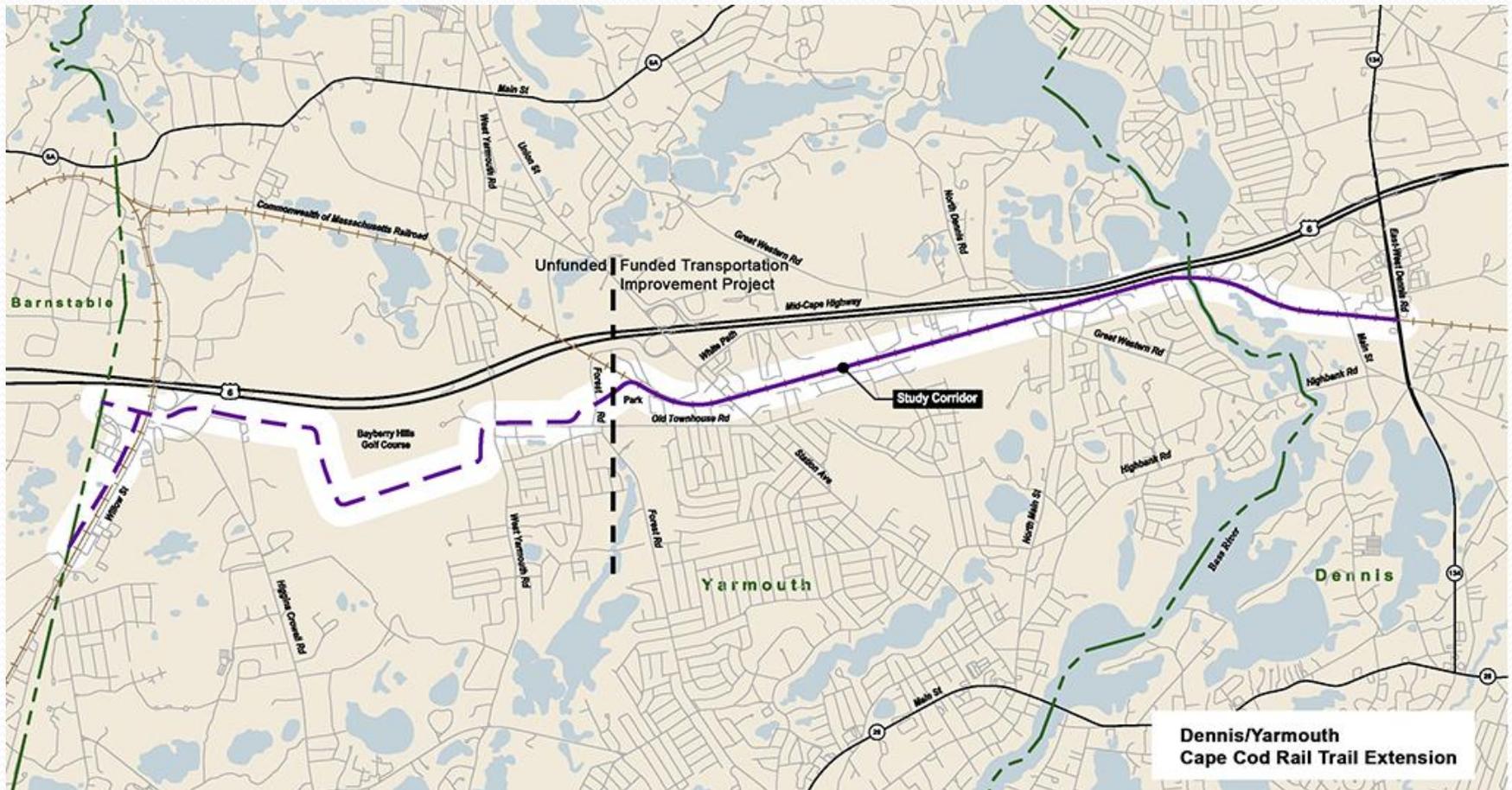
# Cape Cod Rail Trail Extension

## Dennis to Yarmouth

- **Limits**
  - Dennis (Route 134) to Yarmouth (Station Ave.)
- **Project Costs**
  - \$8.0 Million
  - State Transportation Improvement Program
- **Project Schedule**
  - Design Completion: Summer 2014
  - Construction: Fall 2014 to Fall 2016

# Yarmouth/Dennis CCRT Extension

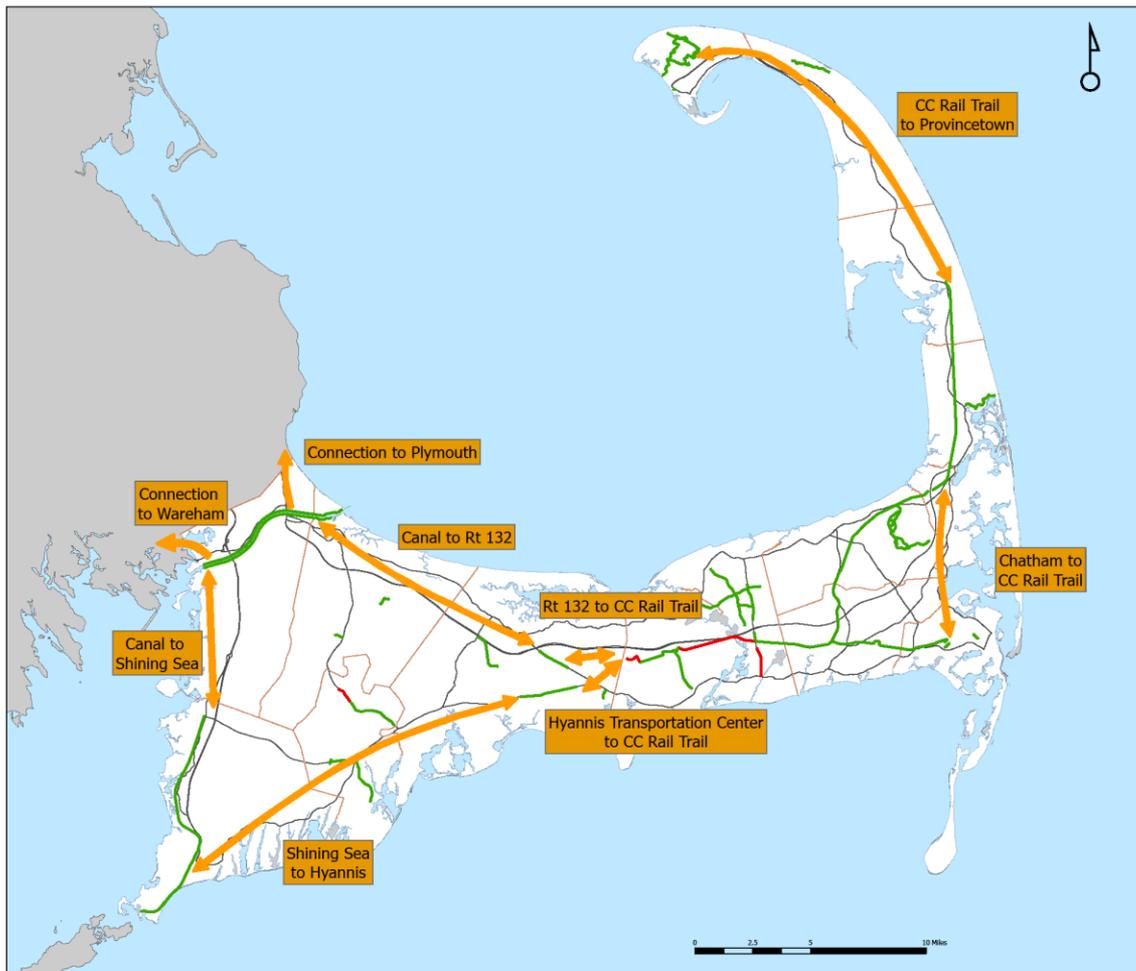
## 25% Design Development



# Cape Cod National Seashore Bicycle Feasibility Study

- Planning Team
  - National Park Service
  - Cape Cod Commission
  - 15 Cape Cod Communities
  - Planning/Design Consultant (VHB)
- Study Goals
  - Identify Potential Bike System Improvements
  - Identify Top 40 Projects for further development

# Cape Cod Region Shared Use Path Vision Map



## Shared Use Path Vision Map

- Shared Use Paths**
- Existing Shared Use Paths
  - Programmed Shared Use Paths
  - Proposed Shared Use Path Connections

This map is produced by the GIS Department of the Cape Cod Commission, a division of Barnstable County. The information depicted on these maps is for planning purposes only. It is not suitable for legal boundary definition, regulatory interpretation, or parcel level analysis. It should not substitute for actual on-site survey, or as-needed deed research.



# Commonwealth of Massachusetts

## General Laws

- **Mass General Laws: Chapter 90E; Section 2a**
  - “accommodation of bicycle and pedestrian traffic in the planning, design, and construction, reconstruction or maintenance of any project undertaken by the (MassDOT).”
- **MassDOT Standards**
  - Addition of 4’ Shoulders for Bike Accommodations
  - Addition of 5’ Shoulders for Bike Lanes

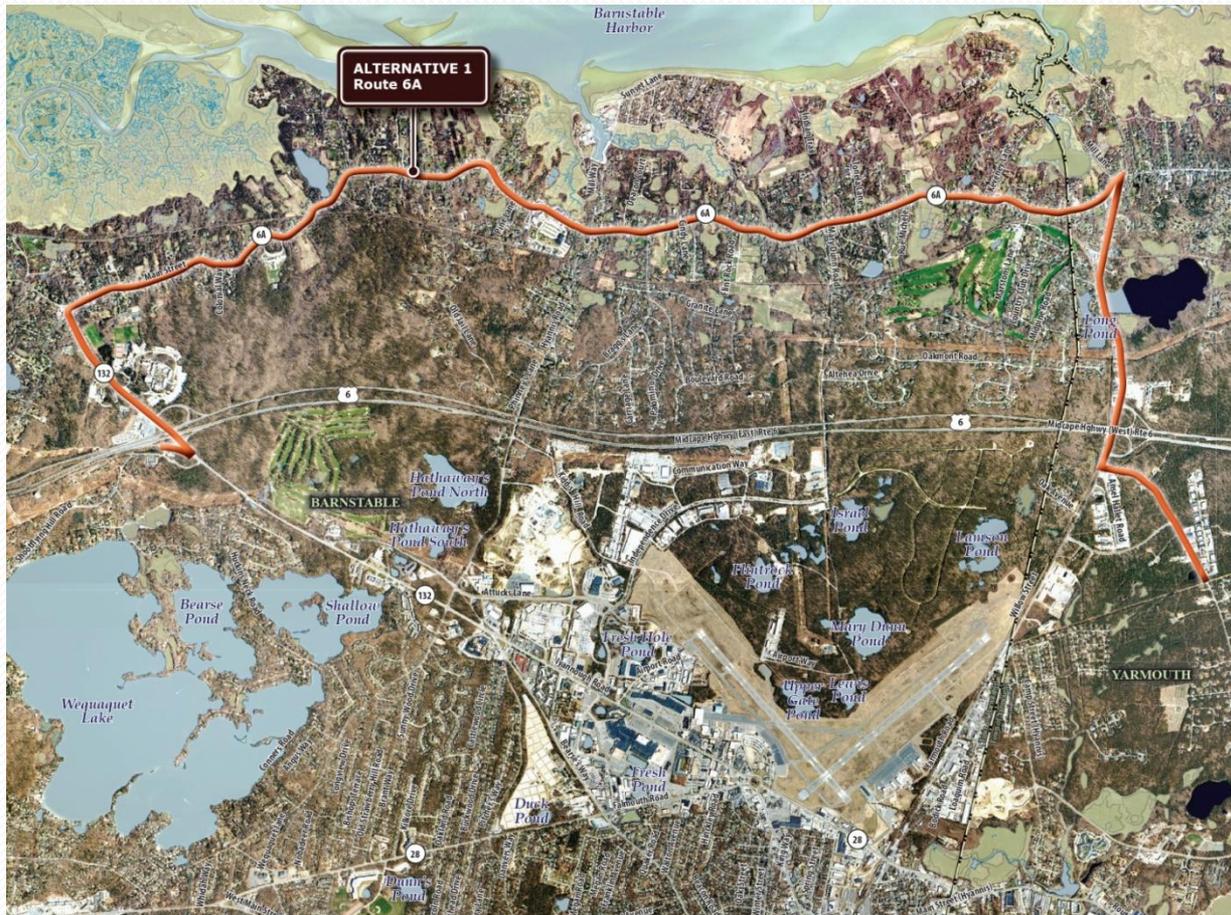
# Cape Cod Rail Trail East/West Extension

Station Avenue, Yarmouth to  
Iyannough Road (Route 132),  
Barnstable

# Dennis/Yarmouth/Barnstable CCRT Extension



# Barnstable/Yarmouth CCRT Extension: Alternative 1



# Barnstable/Yarmouth CCRT Extension: Alternative 2



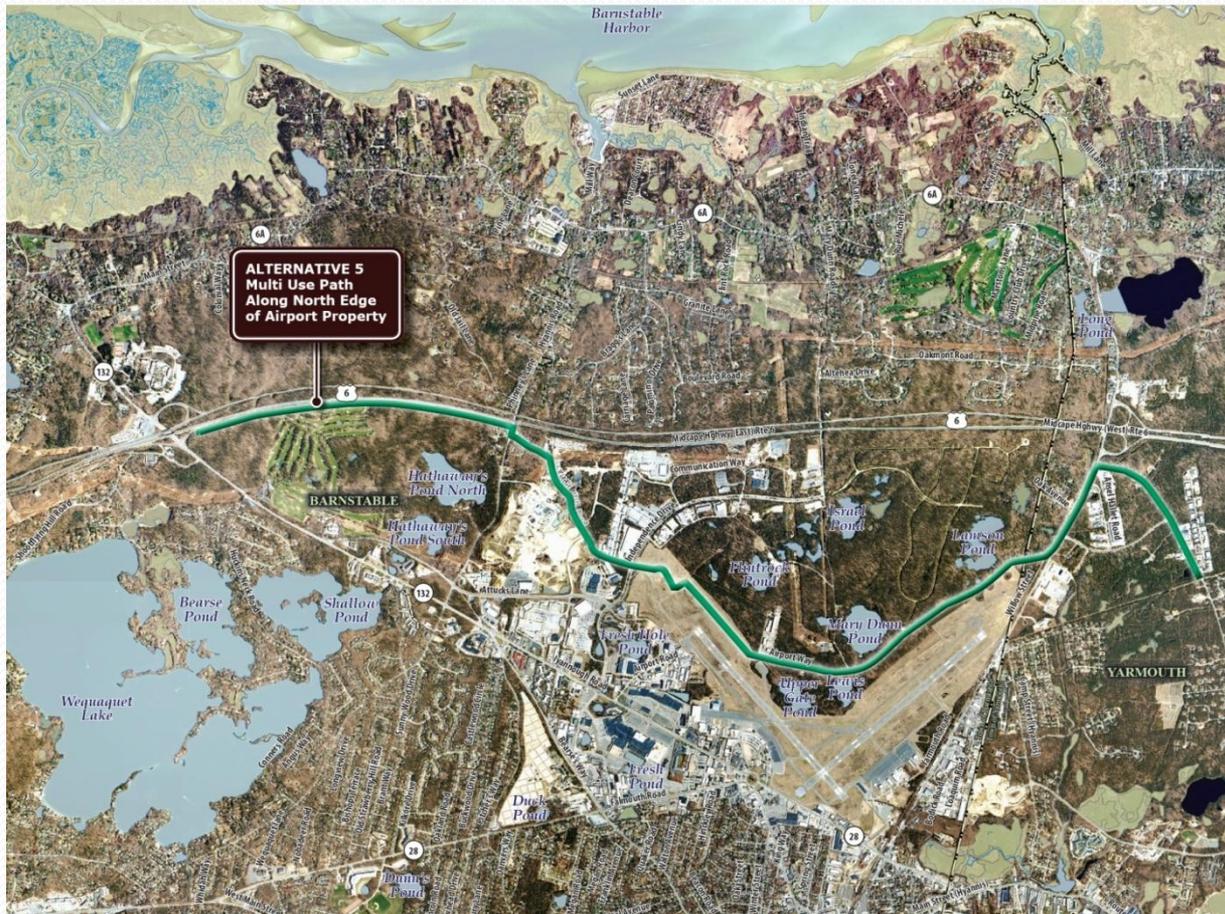
# Barnstable/Yarmouth CCRT Extension: Alternative 3



# Barnstable/Yarmouth CCRT Extension: Alternative 4



# Barnstable/Yarmouth CCRT Extension: Alternative 5



# Barnstable/Yarmouth CCRT Extension: Alternative 6



# *Cape Cod Rail Trail Extension*

Station Avenue in  
Yarmouth to Route 132  
in Barnstable

Yarmouth/ Barnstable,  
Massachusetts

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Prepared for **Towns of Barnstable and Yarmouth**

Prepared by **Vanasse Hangen Brustlin, Inc.  
Watertown, Massachusetts**

**Fall, 2012**



# Bridge Crossing

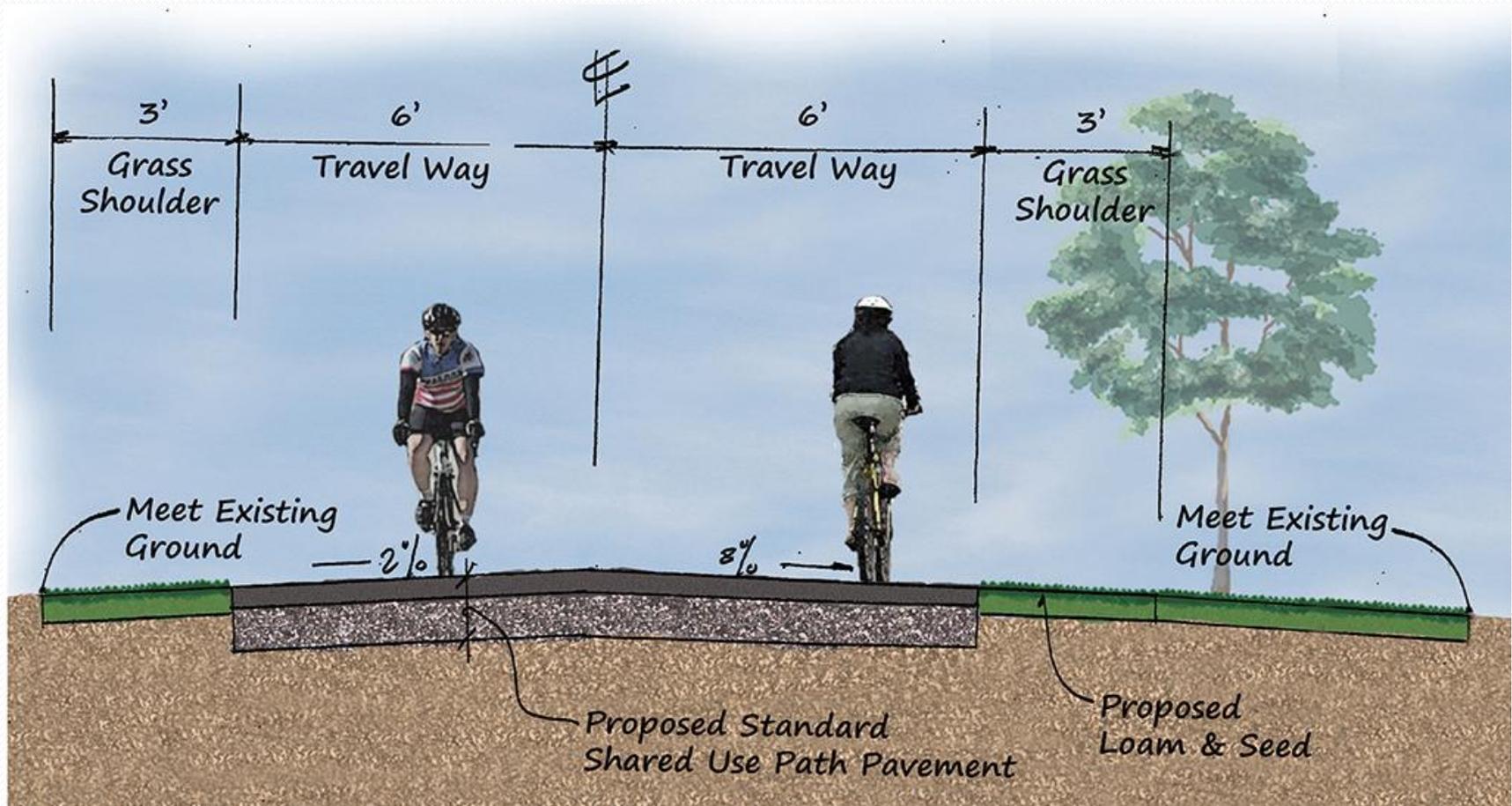


Proposed view looking South  
along Route 134 in Dennis, Massachusetts

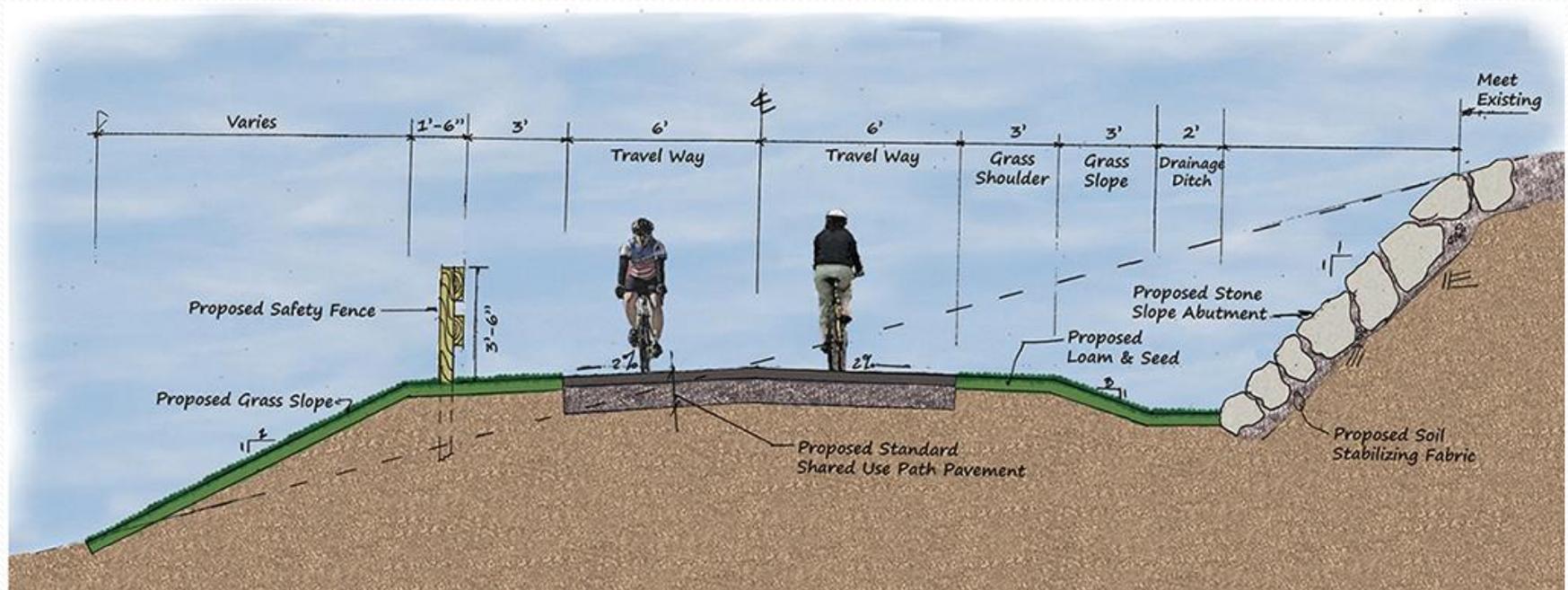


Existing

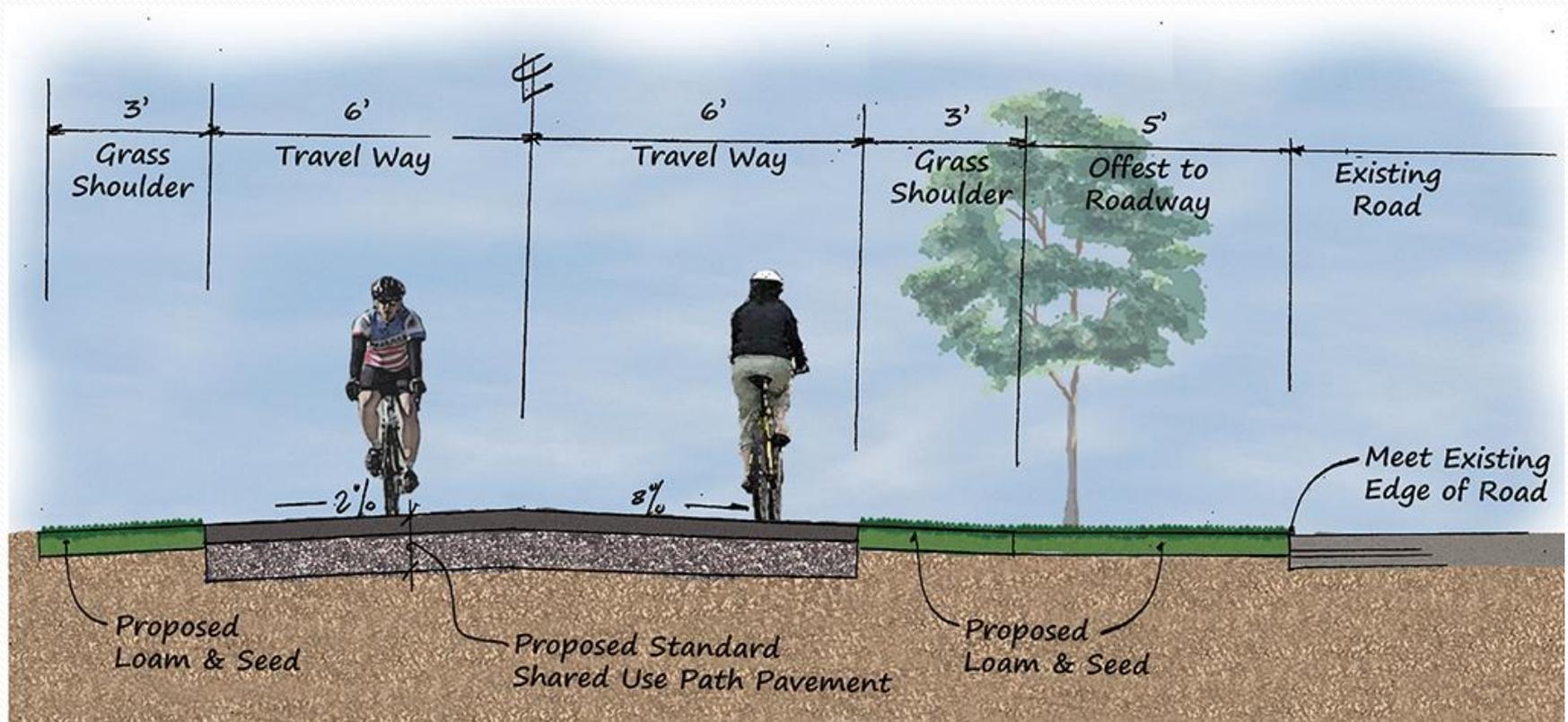
# Typical Section



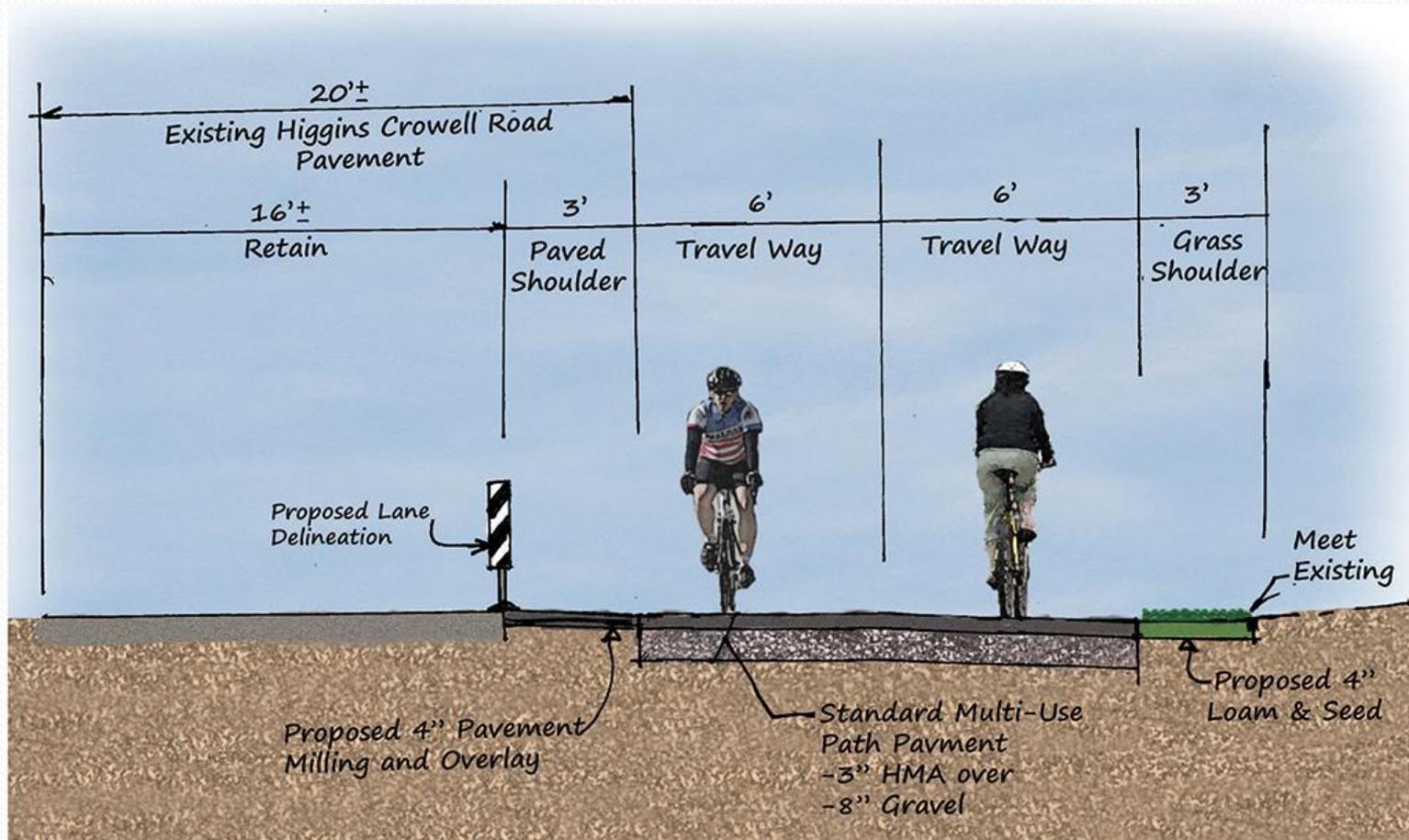
# Typical Section



# Typical Section



# Typical Section



# Cape Cod Rail Trail Extension Preferred Alternative Construction Costs

- Single Phase Project: \$11,070,000

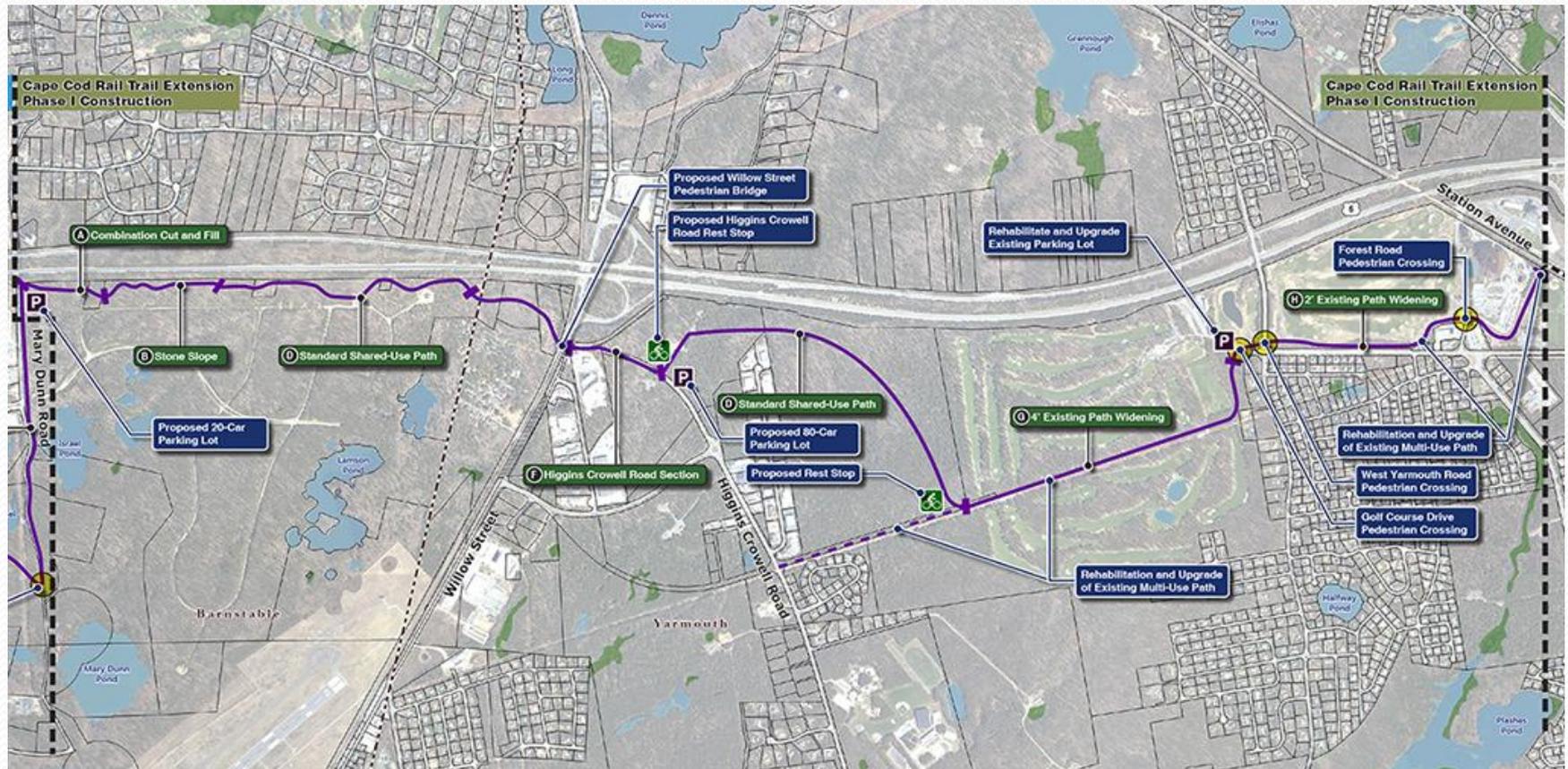
# Cape Cod Rail Trail Extension

## Two Phase Project

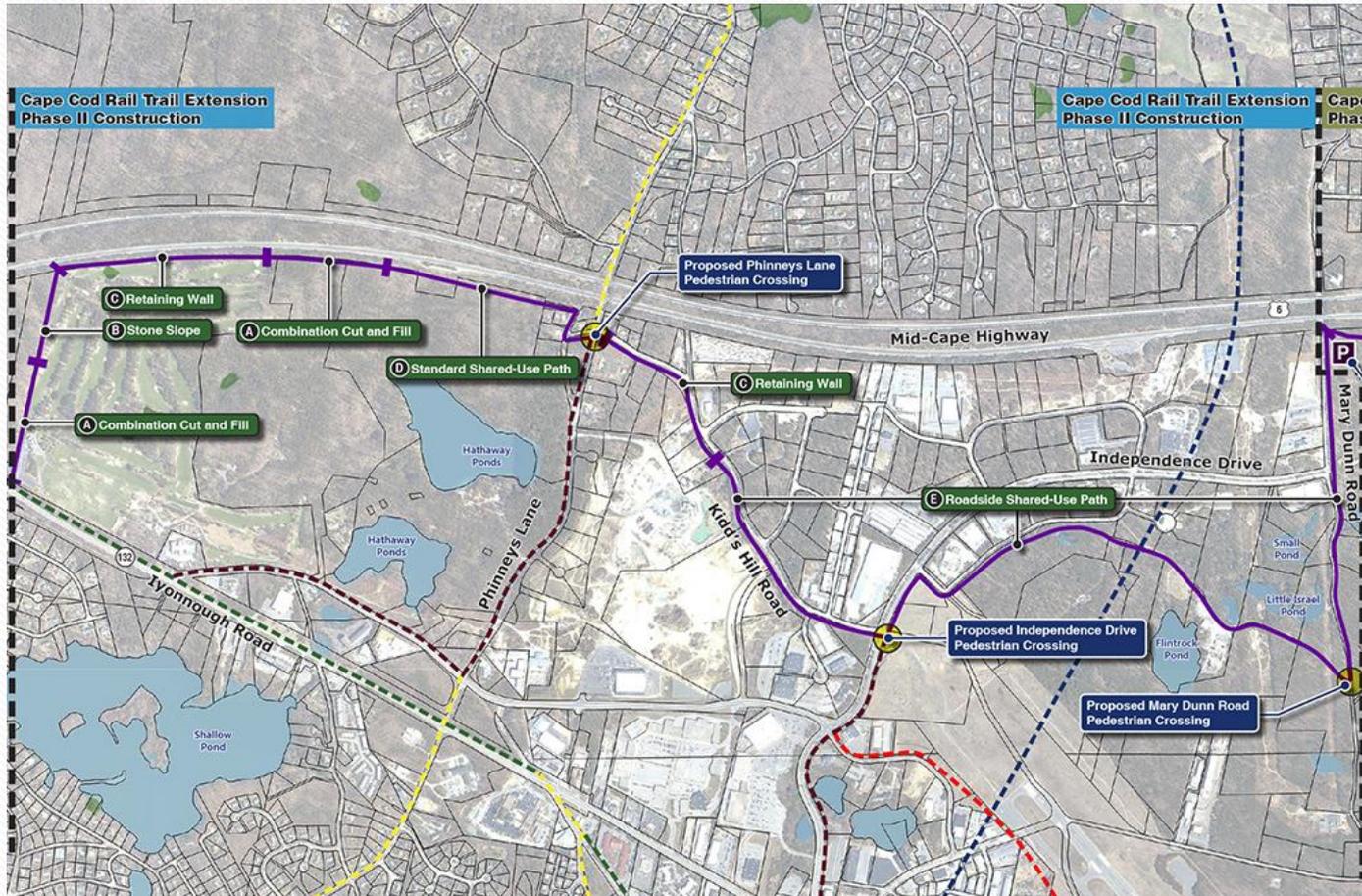
- Two Phase Project
  - Phase 1: Station Avenue to Mary Dunn Road
  - Phase 2: Mary Dunn Road to Route 132



# Phase 1: Station Avenue (Y) to Mary Dunn Road (B)



# Phase 2: Mary Dunn Road to Route 132

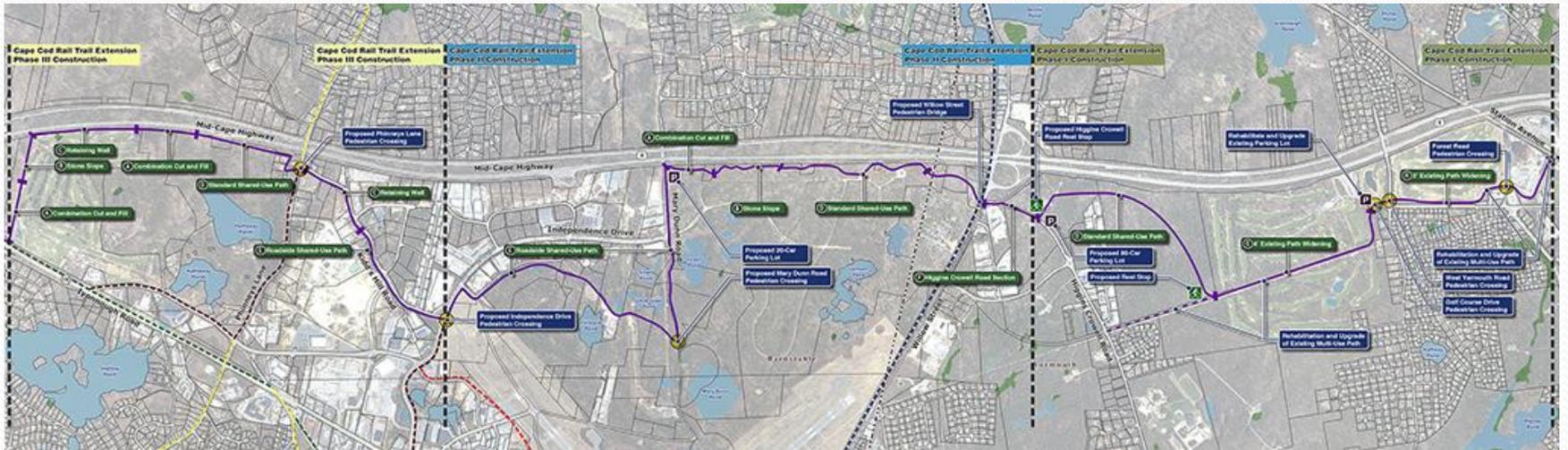


# Cape Cod Rail Trail Extension

## Two Phase Project: Project Costs

- Two Phase Project:
  - Phase 1: Station Avenue to Mary Dunn Road: **\$6,440,000**
  - Phase 2: Mary Dunn Rd. to Route 132: **\$4,630,000**

# Cape Cod Rail Trail Extension Three Phase Project

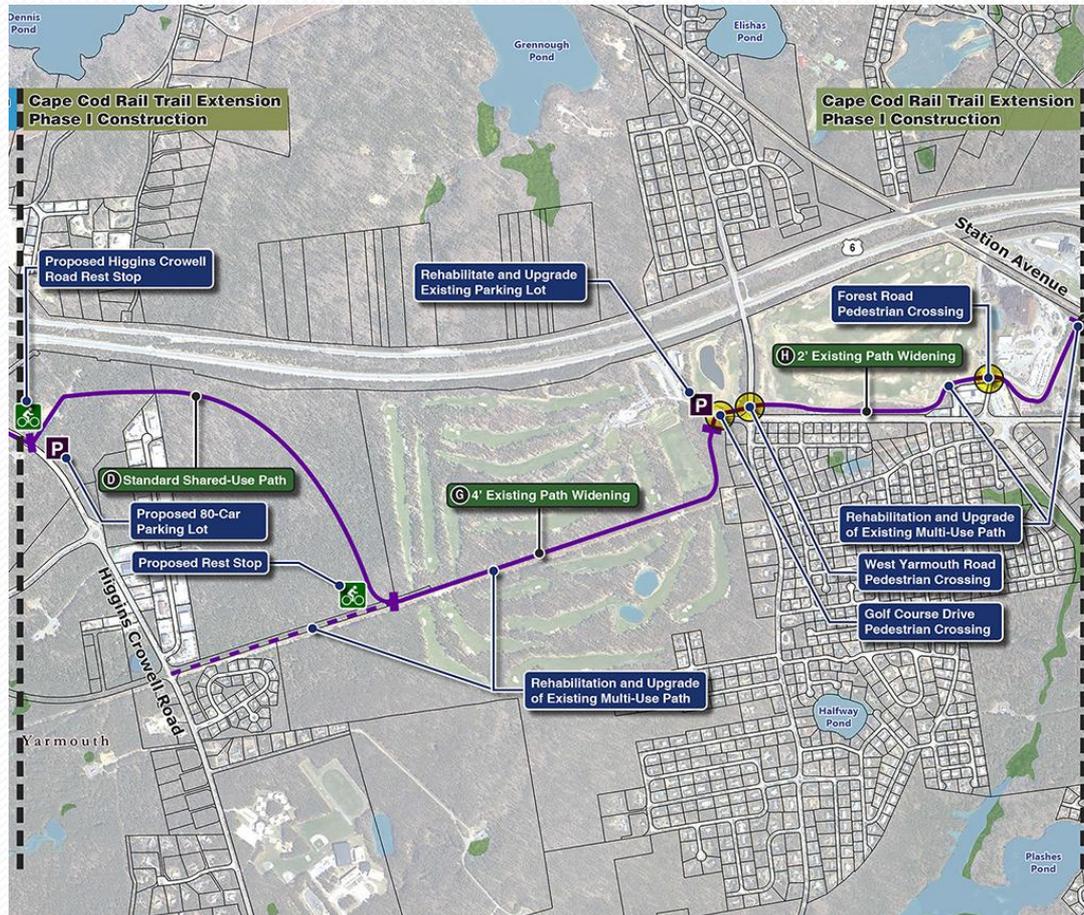


# Cape Cod Rail Trail Extension

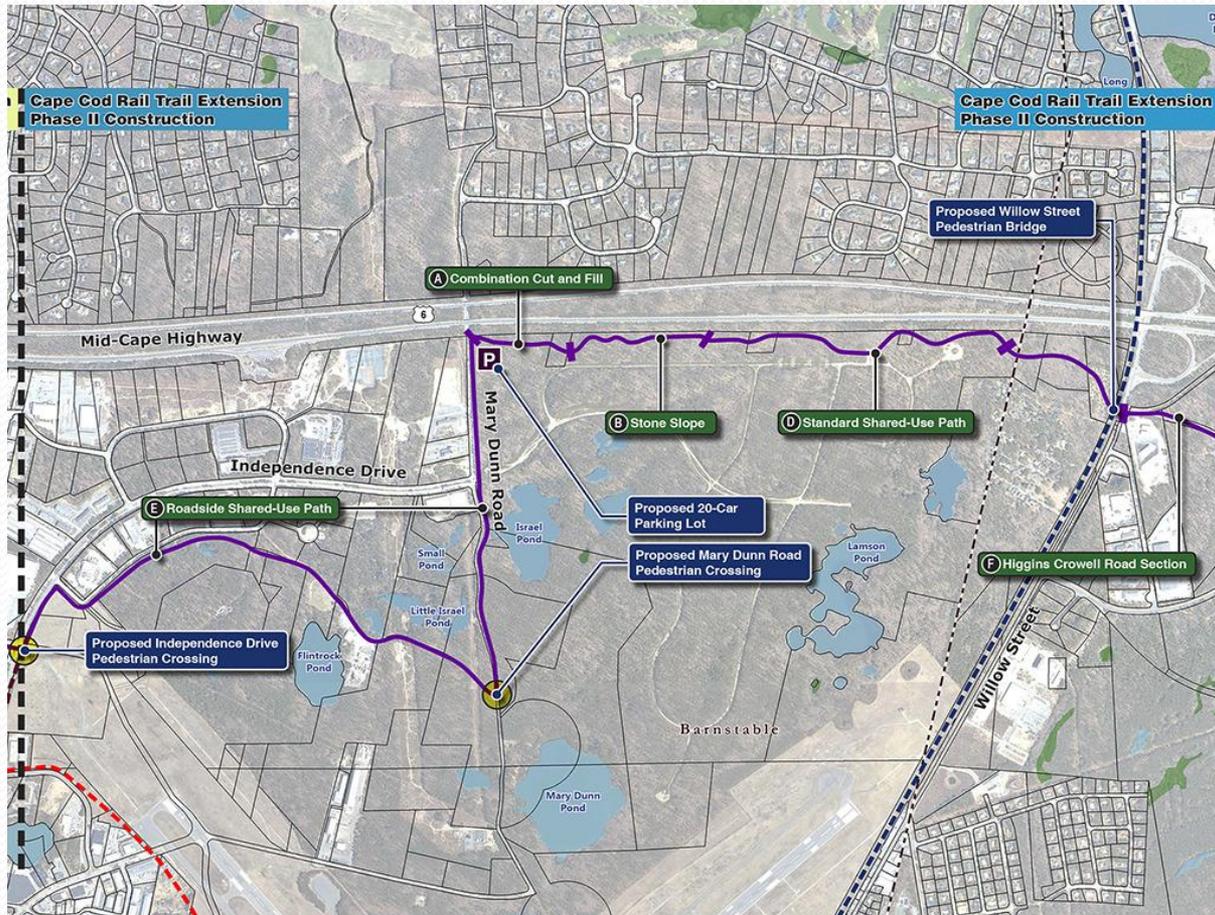
## Three Phase Project

- Three Phase Project
  - Phase 1: Station Avenue to Higgins Crowell Road
  - Phase 2: Higgins Crowell Road to Independence Drive
  - Phase 3: Independence Drive to Route 132

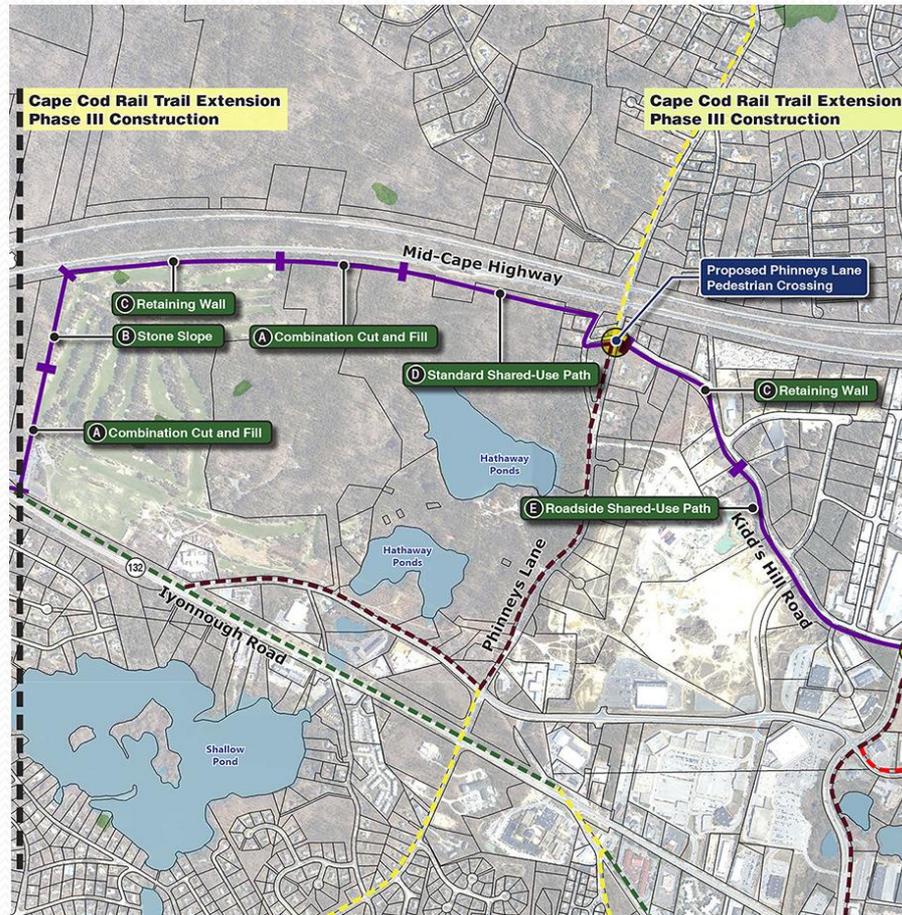
# Phase 1: Station Ave to Higgins Crowell Road



# Phase 2: Higgins Crowell Road to Independence Drive



# Phase 3: Independence Drive to Route 132



# Cape Cod Rail Trail Extension

## Three Phase Project: Project Costs

- Three Phase Project:
  - Phase 1: Station Ave. to Higgins Crowell Rd.: **\$2,520,000**
  - Phase 2: Higgins Crowell Rd to Kidd's Hill Rd: **\$5,410,000**
  - Phase 3: Kidd's Hill Road to Route 132: **\$3,140,000**

# Future Project Development

- **Step 1:** MassDOT and the Cape Cod Commission select preferred project phasing scenario.
- **Step 2:** Prepare and submit Project Initiation Form.
- **Step 3:** MassDOT Project Review Committee programs the preferred alternative
- **Step 4:** JTC and MPO Approval of Program Funds
- **Step 5:** Commence Project Design Development

# Potential Project Schedule

## Activity

- PIF Submission
- MassDOT PRC Approval
- CCMPO Funding Approval
- Survey/Design/Permits
- Construction

## Date

Spring, 2013

Summer, 2013

Fall, 2013

2014 to 2017

2017 to 2019