### Cape Cod Canal Transportation Study, Third Public Informational Meeting.

Bourne, Plymouth, Sandwich, Wareham. Massachusetts Maritime Academy December 1, 2016 7:00 PM to 9:00 PM



# Agenda.

Welcome and Introductions.

- Study Process & Framework.
- Study Framework: Goals and Objectives.
- Alternatives Development.
  - Potential Short-, Mid-, and Long-Term.
- Schedule/Next Steps.



# Welcome and Introductions.

#### • MassDOT:

- Ethan Britland Project Manager.
- US Army Corps of Engineers.
  - Craig Martin, Project Manager.
- Study Team:
  - Bill Reed, P.E., Principal in Charge (Stantec).
  - Mike Paiewonsky, AICP- Team Project Manager (Stantec).
  - Fred Moseley, P.E. Transportation Engineer (Stantec).
  - Jennifer Siciliano, AICP Public Engagement (Harriman).
  - Sudhir Murthy, P.E., PTOE Trans. Modeler (TrafInfo).
  - Frank Mahady Socio-Economic (FXM Associates).



# Study Process & Framework.

- **Step 1:** Goals and Objectives, Evaluation Criteria, and Public Involvement Plan.
- Step 2: Existing Conditions, Future Conditions, and Issues Evaluation.
- Step 3: Alternatives Development.
- Step 4: Alternatives Analysis.
- Step 5: Recommendations.



# Study Framework: Goals.

- Improve transportation mobility and accessibility in the Cape Cod Canal Area, and to provide reliable year-round connectivity over the canal and between the Sagamore and Bourne Bridges.
- To create/improve multi-modal mobility in the Cape Cod Canal area

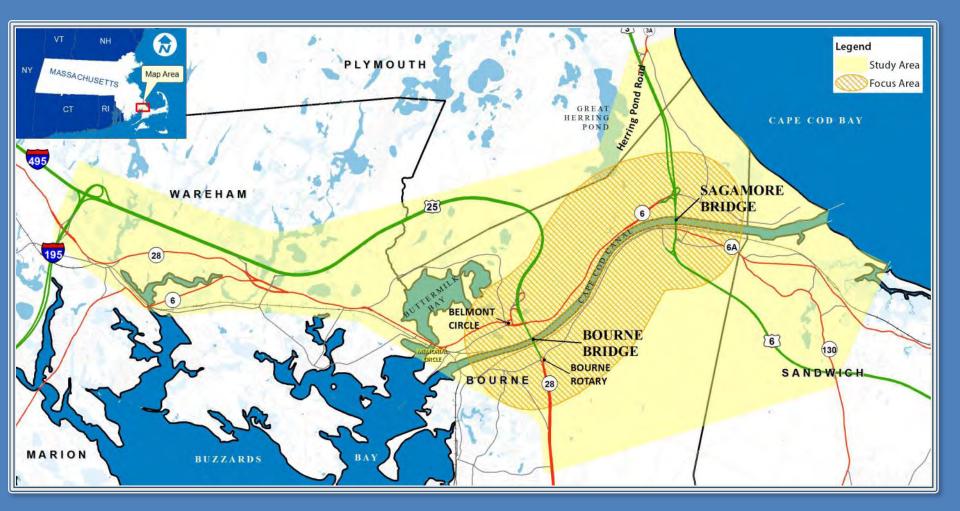


# Study Framework: Objectives.

- Create reliable multimodal connectivity and mobility levels such that the quality of life on Cape Cod is not diminished by unreliable connectivity across the Cape Cod Canal.
- Create a reliable multimodal connection across the Cape Cod Canal to maintain/enhance public safety in the event of the need for an emergency evacuation of portions of Cape Cod and to accommodate first responders accessing Cape Cod.
- Ensure that cross canal connectivity does not become a barrier to reliable intra-community connectivity for the Towns of Bourne and Sandwich.



# Study Area.





### **Travel Corridors.**





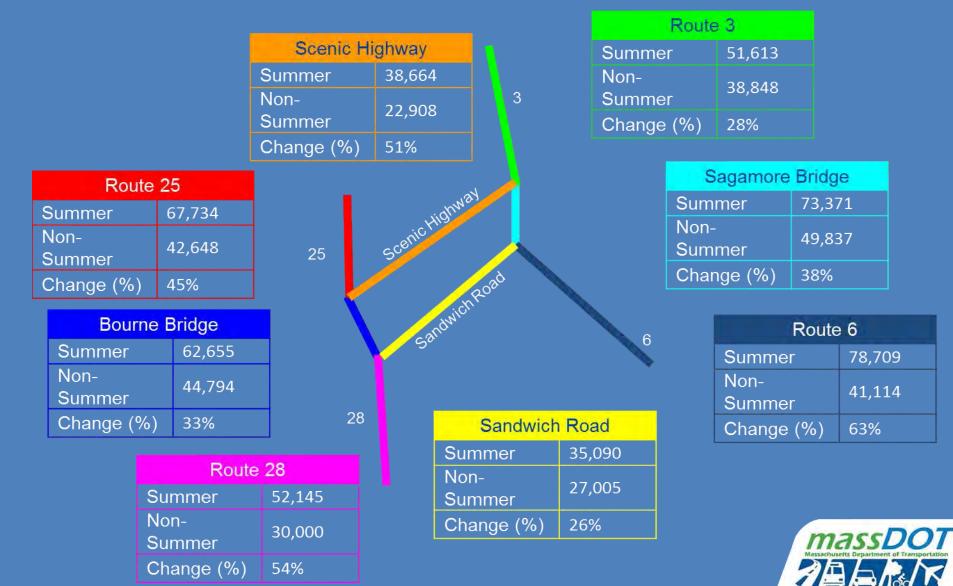
December 1, 2016

# Cape Cod's Summer vs. Non-Summer Seasons.

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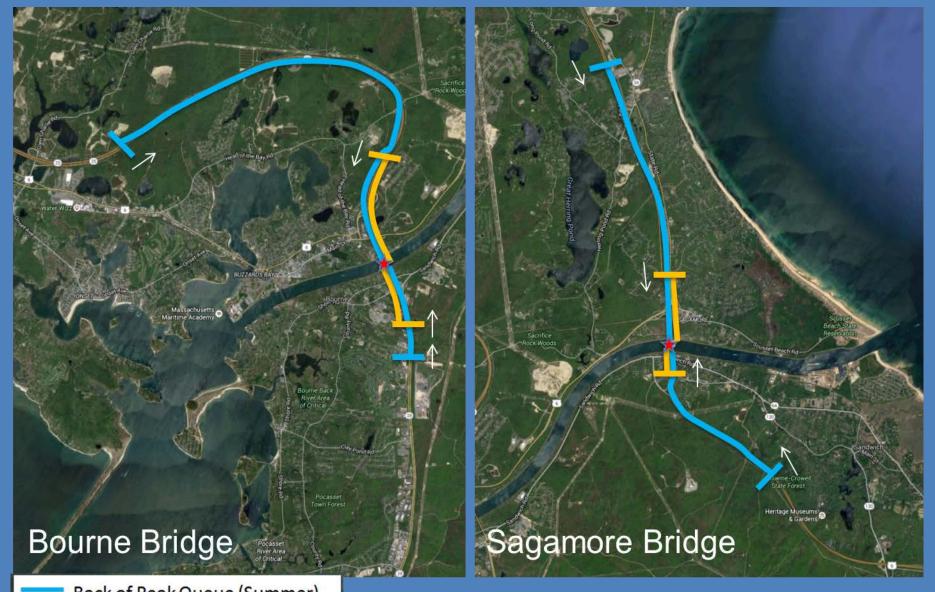
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### 2014 Summer and Non Summer Daily Traffic Volumes



# What are some of the Implications of those Traffic Volumes?

#### 2014 Saturday Peak Hour (10 – 11 AM) Typical (95<sup>th</sup> percentile) Queues from Bridges.



Back of Peak Queue (Summer) Back of Peak Queue (Fall)



#### 2040 Saturday Peak Hour (10 – 11 AM) Typical (95<sup>th</sup> percentile) Queues from Bridges.

#### Bourne Bridge

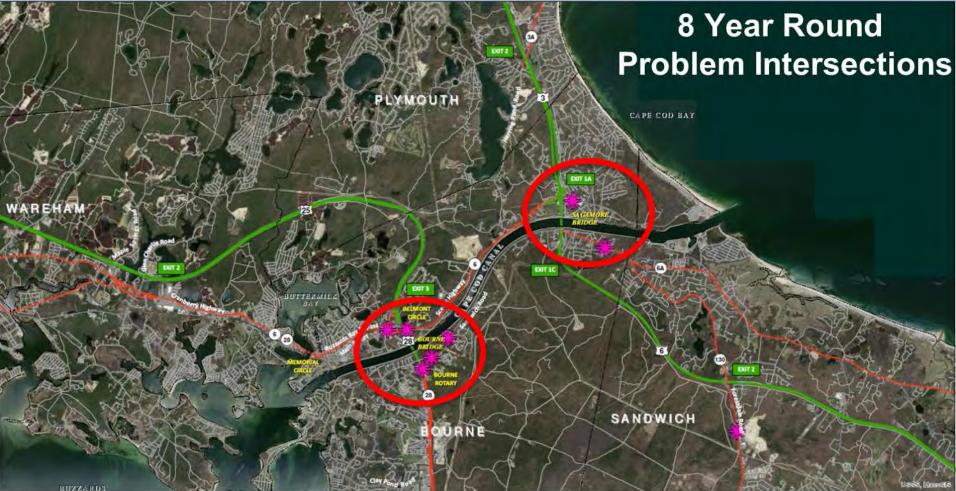
Back of Peak Queue (Summer)
 Back of Peak Queue (Fall)

#### Sagamore Bridge



### Year-Round Problem Intersections.

# 2014 Year Round Problem Intersections.

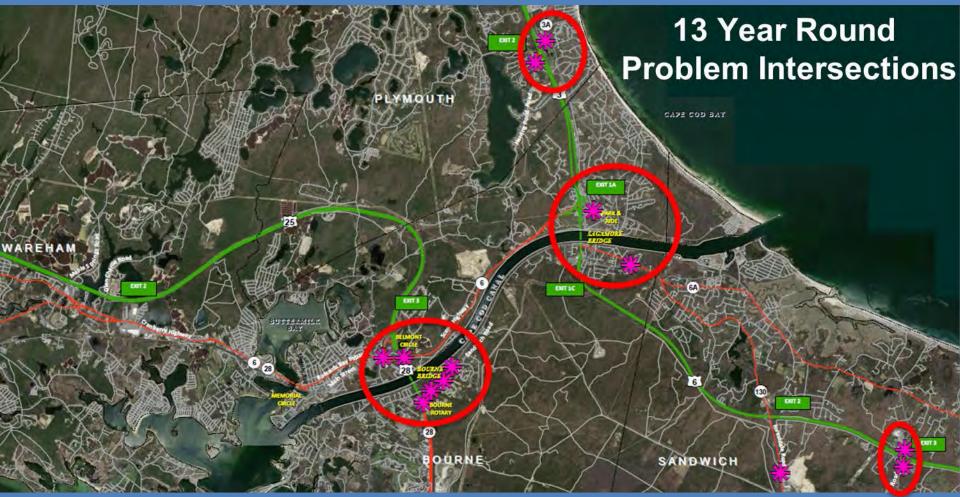


Legend ------ Town Boundary

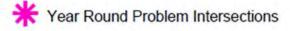




### 2040 Year Round Problem Intersections



Legend ------ Town Boundary





# 2014 Year Round Problem Intersections by LOS and Crashes.

Location	High Crash	LOS E or F?	Town
Bourne Rotary	Yes	Yes	Bourne
Sandwich Road at Bourne Rotary Connector	No	Yes	Bourne
Sandwich Road at Harbor Lights Road	No	Yes	Bourne
Belmont Circle	Yes	Yes	Bourne
Scenic Highway at Nightingale Pond Road	Yes	No	Bourne
Scenic Highway at Canal Road/ State Road	Yes	No	Bourne
Route 6A at Cranberry Hwy/ Sandwich Road	No	Yes	Bourne
Route 130 at Cotuit Road	Yes	Yes	Sandwich



# 2040 Year Round Problem Intersections by LOS and Crashes

Location	High Crash	LOS E or F?	Town
Bourne Rotary	Yes	Yes	Bourne
Sandwich Road at Bourne Rotary Connector	No	Yes	Bourne
Sandwich Road at Harbor Lights Road	No	Yes	Bourne
Belmont Circle	Yes	Yes	Bourne
Scenic Highway at Nightingale Pond Road	Yes	No	Bourne
Scenic Highway at Canal Road/ State Road	Yes	No	Bourne
Route 6A at Cranberry Hwy/ Sandwich Road	No	Yes	Bourne
Route 130 at Cotuit Road	Yes	Yes	Sandwich
Herring Pond Road at Exit 2 Southbound	Yes	Yes	Plymouth
Herring Pond Road at Exit 2 Northbound	No	Yes	Plymouth
Quaker Meetinghouse Road at Exit 3 Eastbound	Yes	Yes	Sandwich
Quaker Meetinghouse Road at Exit 3 Westbound	No	No	Sandwich



# Summary of Completed Task 2.

- Existing Traffic Conditions;
- Environmental Conditions;
- Bicycle, Pedestrian, Transit Facilities;
- Travel Demand Model;
- Future (2040) No-Build Traffic; and
- Engagement with Army Corps.





# Major Task 2 Findings.

#### Problems include:

- Sagamore and Bourne Bridges,
- Areas clustered north and south of bridges;
- 2040 traffic conditions will worsen;
- Lack of bicycle, pedestrian, and other multimodal connections;
- Many environmental constraints.



#### Issues, Constraints, Opportunities.

#### Issues:

- Severe congestion at bridge approaches and intersections.
- Balancing visitor and resident needs.
- Lack of bicycles and pedestrian accommodation.

#### **Constraints:**

- Extensive areas of sensitive environmental resources.
- Developed residential and commercial areas.
- Joint Base Cape Cod.

#### **Opportunities:**

- MassDOT and Army Corps collaboration.
- Enhance multimodal accommodation.
- Additional infrastructure.



### Task 3: Preliminary Alternatives Development.



Standard Approach to Preliminary Alternatives Development. Seeking alternatives that:

- 1. Satisfy Study Goals and Objectives from Task 1.
- 2. Based on Identified Issues, Constraints, and Opportunities from Task 2.
- 3. Minimize Property, Community, and Environmental Impact.
- 4. Modify or expand existing infrastructure and, if necessary, construct new infrastructure.



### Additional Considerations for Preliminary Alternatives Development.

- US Army Corps of Engineers (USACE) plan for bridges.
- Examination of Prior Alternatives Developed for the Public Private Partnership (P3) Process.
- Review of Outside Submissions
- Development of New Alternatives (Short, Medium and Long-Term).



# Army Corps of Engineers.

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### **Continued Coordination with USACE.**

- USACE Conducting 'Major Rehabilitation Evaluation Study' to Determine Rehabilitation or Replacement of both Sagamore and Bourne Bridges.
- For the Purpose of Analysis in MassDOT's Study, we are assuming both bridges will be Replaced and Toll Free.



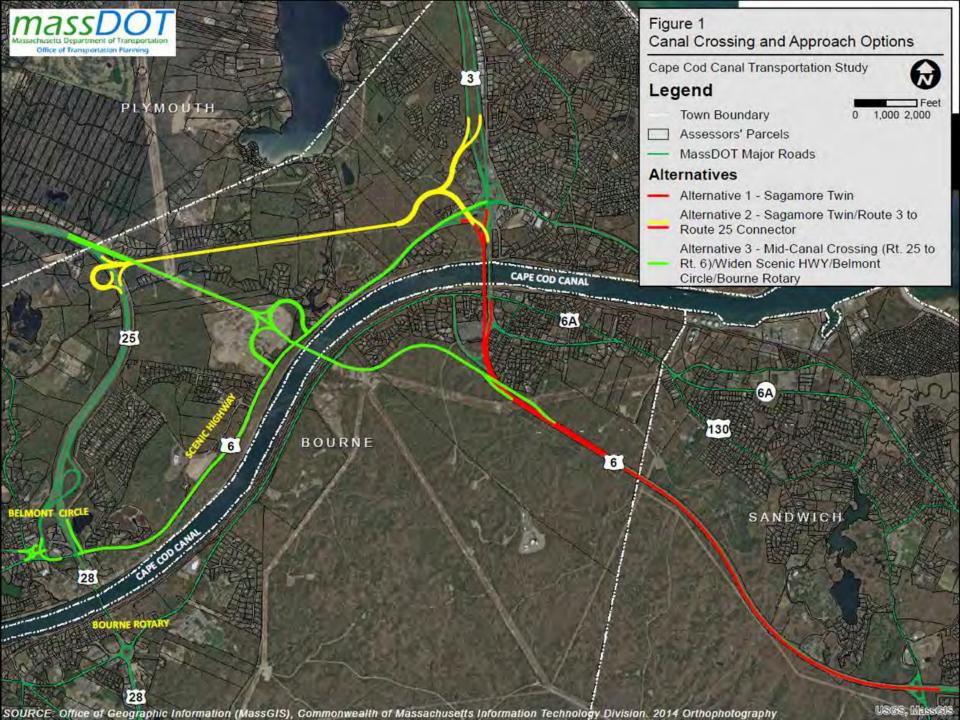
# **Consideration of Prior P3 Alternatives.**



### **Examination of Preliminary P3 Concepts.**

- P3 Concepts were developed in response to increasing USACE maintenance of the Canal bridges and intended to compliment aging infrastructure.
- Examine prior concepts and also new P3 opportunities, if necessary





#### Environmental Resource Impacts: Route 3 to Route 25 Connector.

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BOURNE

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PLYMOUTH

			s	otential Resource Impacts in Acre	onnector - Pe	Route 3 to Route 25 C		40000	-
	JBCC	Residential Parcels	Zone II	Rare species habitat (PH)	ACEC	Open Space (Section 4f)	Wetlands	Buffer Area	Length (mi)
Data Provided by:	0	0	31	51.3	54.7	53.6	7.2	79.1	5.6
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BOURNE

#### Environmental Resource Impacts: Route 3 to Route 25 Connector.

Route 3 to Route 25 Connector Impacts (acres)									
Wetlands	Open Space (Section 4(f)	ACEC	Rare Species Habitat	Zone II	Residential Parcels	JBCC			
7.2	53.6	54.7	51.3	31	0	0			



#### Environmental Resource Impacts: Middle Bridge.

PLYMOUTH



#### Environmental Resource Impacts: Middle Bridge.

Middle Bridge Impacts (acres)								
Wetlands	Open Space (Section 4(f)	ACEC	Rare Species Habitat	Zone II	Residential Parcels	JBCC		
1.24	37.8	19.2	63.1	19.7	17	19.9		

#### Analysis of Preliminary P3 Concepts.

Federal Environmental Regulations (NEPA and Clean Water Act) Requires Comprehensive Alternatives Analysis and Selection of the Alternative that:

A. Meets the Project Purpose and Need.

B. Results in the Least Overall Impact to Social and Environmental Resources.

### **Conclusion of Preliminary P3 Concepts.**

<u>Route 3 to Route 25 Connector</u> and <u>Mid-Canal Bridge Alternatives.</u>

Dismissed from Further Consideration in this Study Due To:

- Significant Environmental Impact, and
- Inability to Meet Federal Environmental Requirements.



# Short-, Mid-, and Long-Term Alternatives.

- Roadways/Intersections.
- Bridges.
- Bicycles.
- Pedestrians.
- Transit.



Photo: capenightphotograpghy.com



### Assumptions for Alternatives Development Process.

- Focus on year-round safety and mobility problem locations.
- Short- and Mid-Term Alternatives do not preclude new Corps' bridge construction.



 New bridges to be built adjacent to existing bridges. Toll-Free.



### Design Understanding.

- Focus on improvements to existing infrastructure.
- Design for future (2040) fall weekday PM peak period.
- Seek further improvements for summer peak period.
- Not trying to resolve all peak-season traffic problems. This would have significant impacts.



(1-3 Years)

# Few environmental or property impacts.

Photo: Boston.com

### Short-Term TSM/TDM Improvements.



- Signal Timing/ Adaptive Signals.
- Turning Lanes.
- Improved Stripping and Signage.
- ITS Improvements

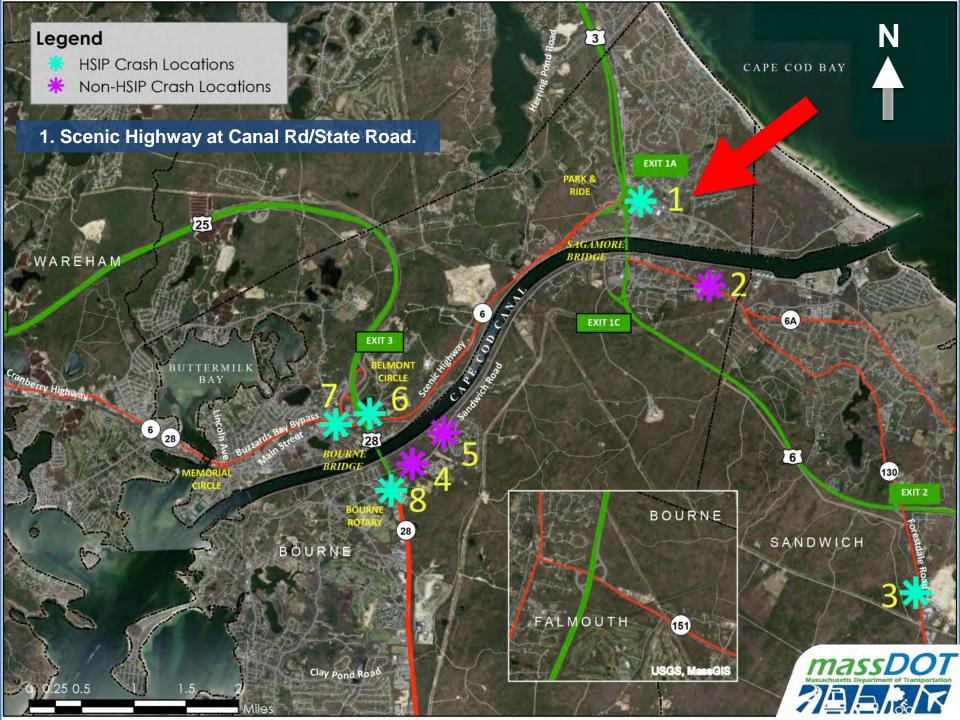
 Improved Bicycle, Pedestrian, Transit Facilities.



### **2014 Year-Round Problem Intersections.**

Location.	High Crash	LOS E or F	Town
1. Scenic Hwy at Canal Road/State Road.	Yes	No	Bourne
2. Route 6A at Cranberry Hwy/Sandwich Road.	No	Yes	Bourne
3. Route 130 at Cotuit Road.	Yes	Yes	Sandwich
4. Sandwich Road at Bourne Rotary Connector.	No	Yes	Bourne
5. Sandwich Road at Harbor Lights Road.	No	No	Bourne
6. Scenic Highway at Nightingale Pond Road.	Yes	Yes	Bourne
7. Belmont Circle.	Yes	Yes	Bourne
8. Bourne Rotary.	Yes	Yes	Bourne





### 1. Scenic Highway at Canal Rd/State Road.

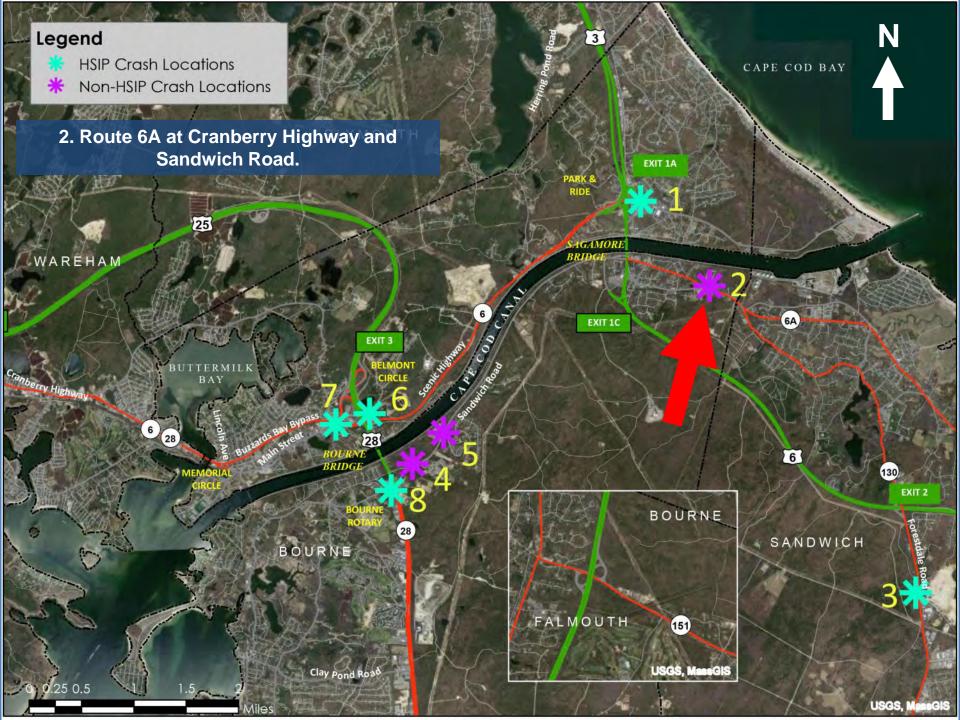
<u>Proposed:</u> Optimize Signal Timing and/or Adaptive Signal Control.
<u>Delay:</u> Reduced from 45 to 35 seconds.
High Crash Location.
ADA-compliant pedestrian facilities present.

Scenic Highwa



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2. Route 6A at Cranberry Highway and Sandwich Road.

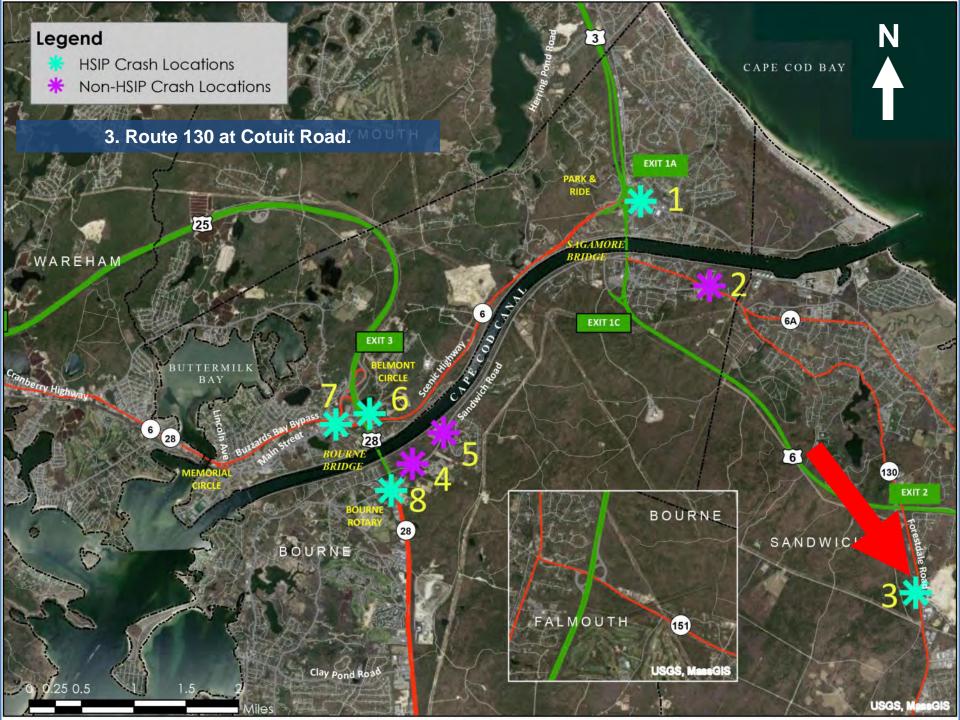
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<u>Proposed:</u> Add exclusive left-turn lanes on westbound approach. <u>Delay:</u> Overall delay reduced from 74 to 30 Seconds. Sidewalk on Sandwich Rd. No sidewalk on Cranberry Hwy.

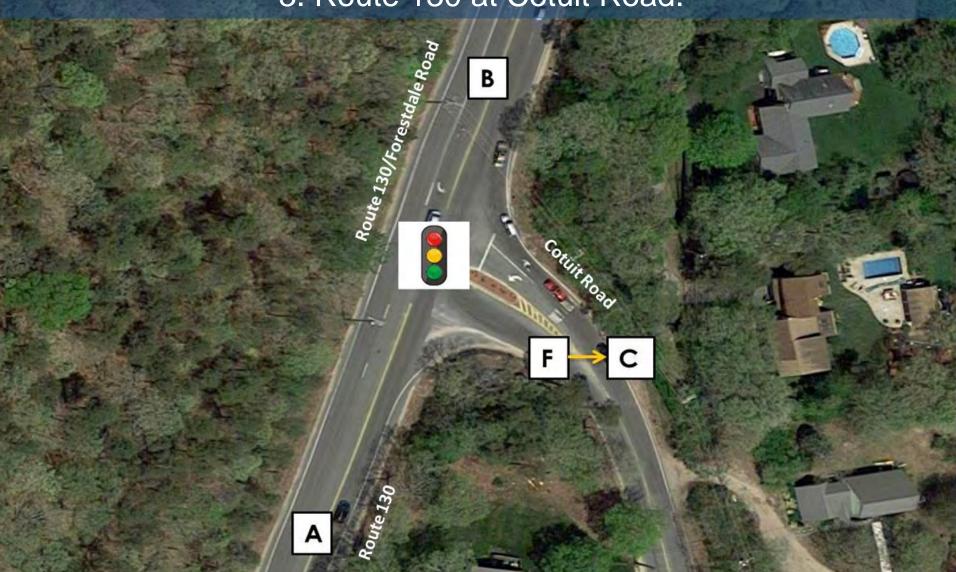
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Sandwich Road

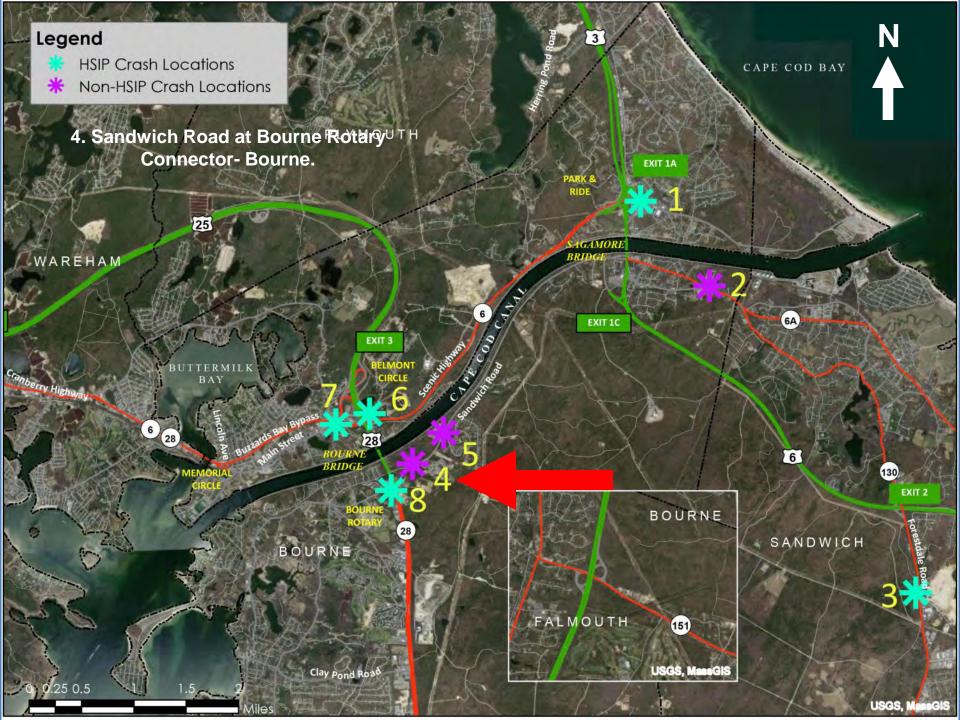
Cranberry Highway



#### 3. Route 130 at Cotuit Road.



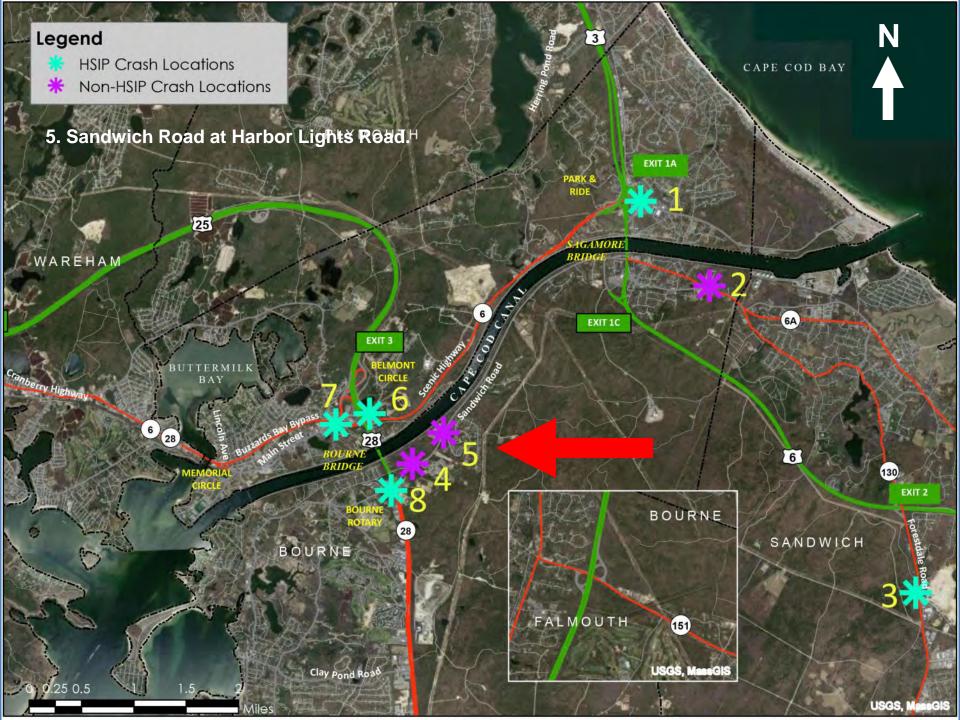
Proposed: Signalize Intersection. Delay (for Cotuit Rd): Reduced from 242 to 32 Seconds. High Crash Location. No sidewalks present .



#### 4. Sandwich Road at Bourne Rotary Connector – Bourne.



Proposed: Meets Signal Warrants but signalization not proposed at this time (may worsen queues). Will be incorporated in Bourne Rotary Improvements. No sidewalks present (High School nearby).



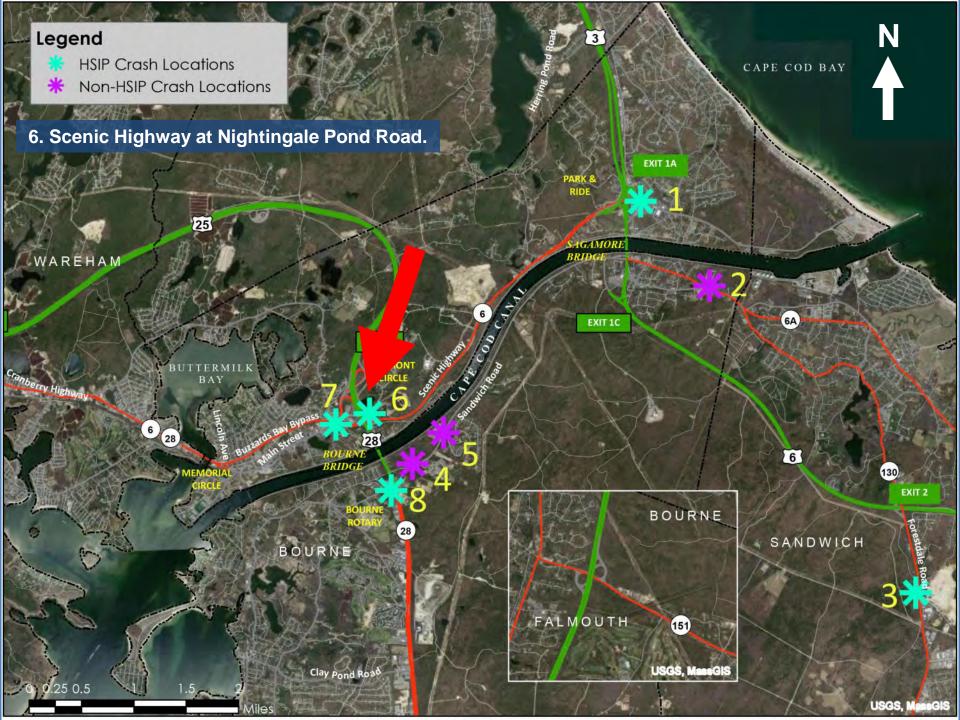
### h Road at Harbor Lights Road.



Horbor Lights Roc

Proposed: No work proposed. Does Not Meet Signal Warrants. Delay is on Minor Approach. Major Approaches Operate Acceptably. No sidewalks present (ice arena nearby).

Road



### Scenic Highway at Nighingale Pond Road

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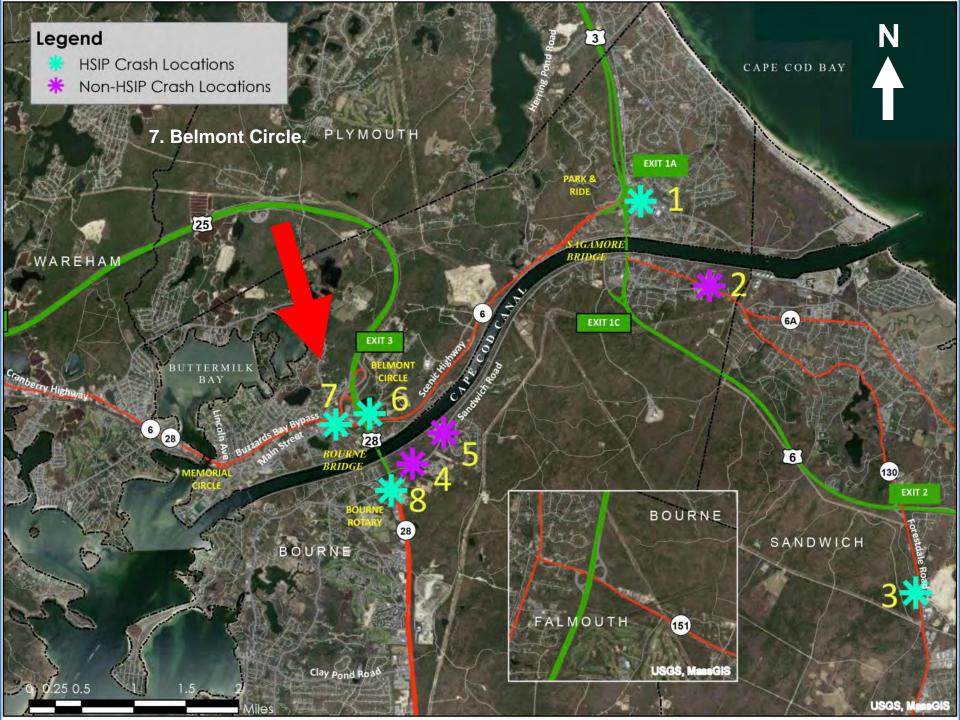
Scenic Highway

Proposed: Optimize Signal Timing. Delay is Reduced from 60 to 29 seconds. Candidate for Adaptive Signal Control. High Crash location. ADA-compliant sidewalks on Scenic Hwy. None on Nightingale Pond Rd.

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Scenic Highwa

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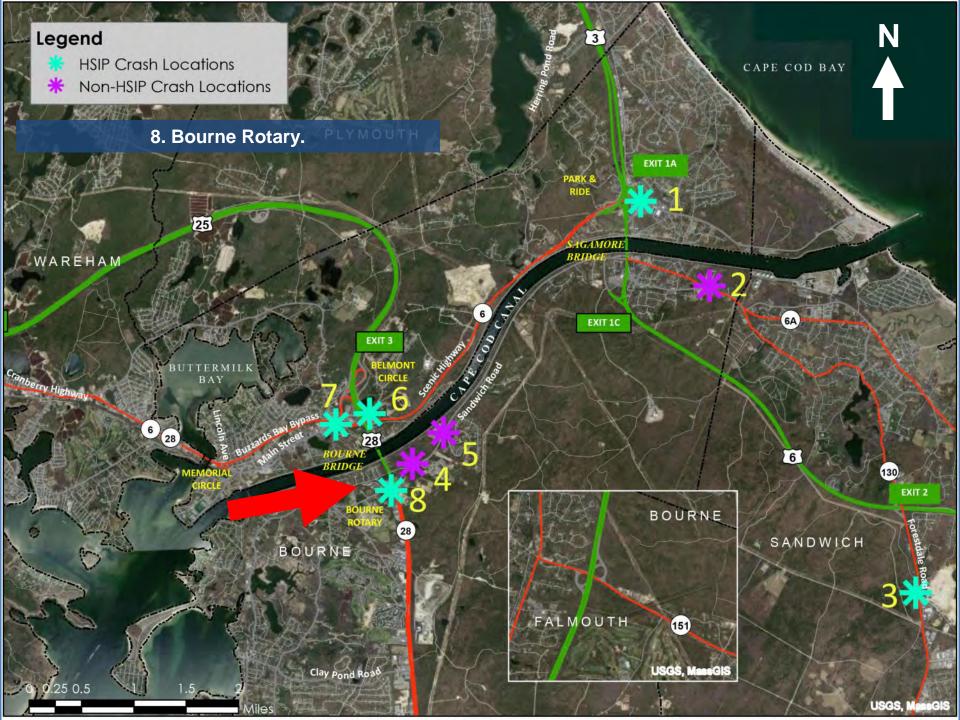


### 7. Belmont Circle.

BELMONT CIRCLE

SCENIC HIGHWAY

Proposed Improvements: Multimodal Improvements for Improved Bicycle and Pedestrian accommodation. Lane striping, shared-use path, lighting, pedestrian-activated crossing. On Cape Cod Commission's Draft 2017 – 2021 Transportation Improvement Program (TIP #606900 - 2020). High crash location. Sidewalks present on Main St. Lacks sidewalks elsewhere.



### 8. Bourne Rotary.

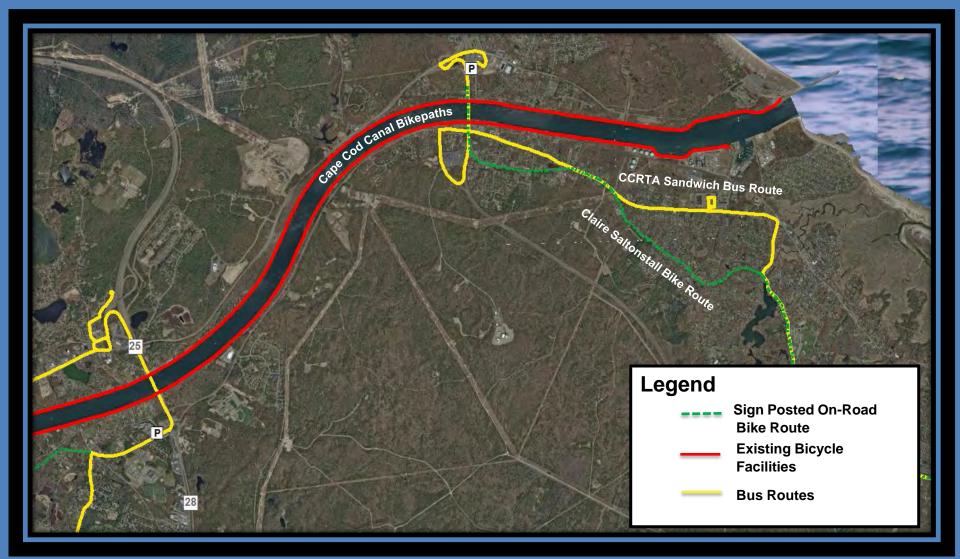


Proposed: Interim Improvements. Guide Signs and Pavement Markings for approaches. HSIP High Crash Location. No existing pedestrian

### Short-Term Alternatives

### **Bicycles and Pedestrians.**

### **Existing Bicycle/Bus Facilities**



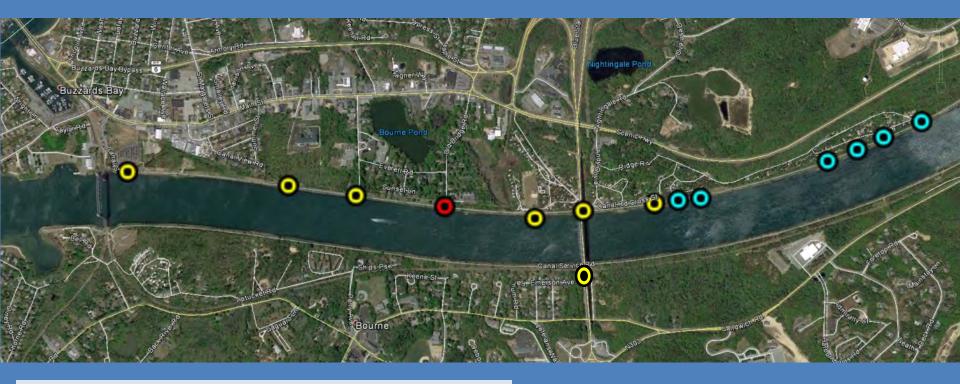
## Gaps in Bicycle/Ped Connections to Canal Bikeway- West.



#### Legend

- Existing Bikeway Access
- Existing Pedestrian Only Access

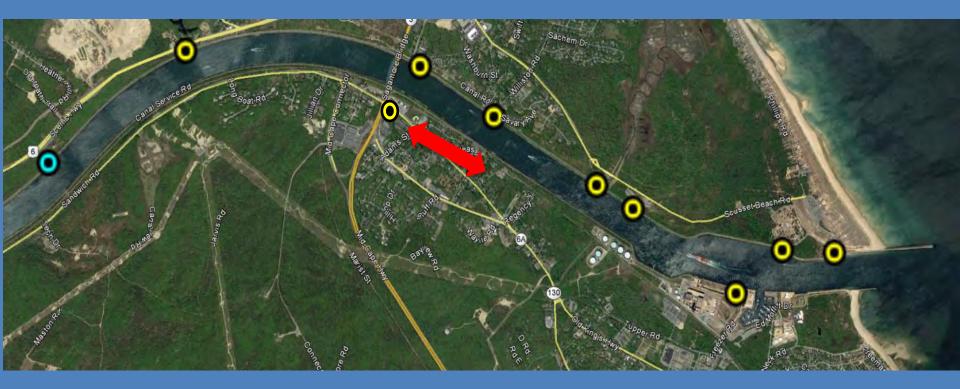
### Potential Bicycle/Ped Connections to Canal Bikeway- West.



#### Legend

- Existing Bikeway Access
- Existing Pedestrian Only Access
- Potential Bikeway Access

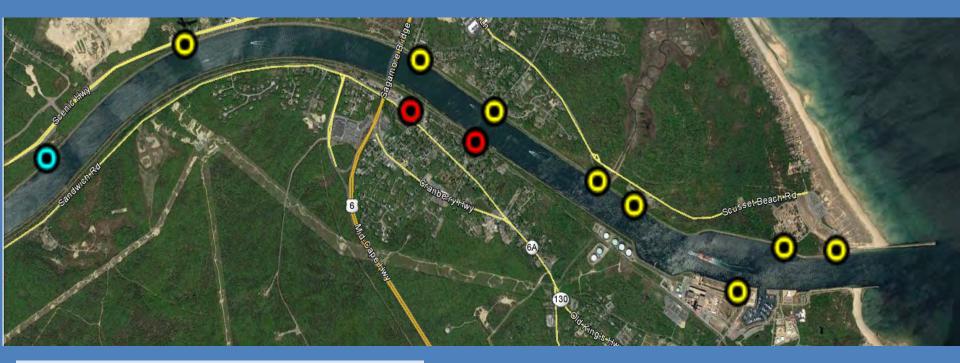
### Gaps in Bicycle/Ped Connections to Canal Bikeway-East.



#### Legend

- Existing Bikeway Access
- Existing Pedestrian Only Access

### Potential Bicycle/Ped Connections to Canal Bikeway-East.



#### LEGEND

- Existing Bikeway Access Existing Pedestrian Only Access Potential Bikeway Access

### Potential Bicycle/Ped Connections to Canal Bikeway.





### **Informal Path**

### **Constructed Crossing**

# Potential Sidewalk and ADA-Accessibility Improvements.

### Sandwich:

- Route 130, bus route (BR).
- Route 6A (BR).
- Cotuit Road.
- Tupper Road.

### <u>Bourne</u>

- County Road (BR).
- Shore Road



### Potential Mid-Term Alternatives. (3-8 Years)

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Higher cost and greater potential for environmental and property impacts.

Photo: capecodchamberofcommerce.com

Potential Mid-Term Alternatives. (3-8 Years)

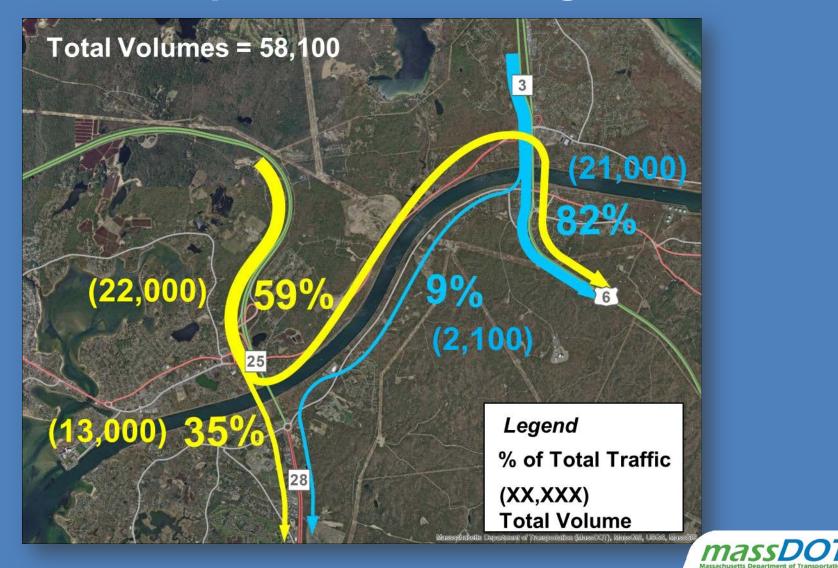
Higher cost and greater potential for environmental and property impacts.

### Goal is to Improve the Transportation System's Mobility, Reliability, and Safety.



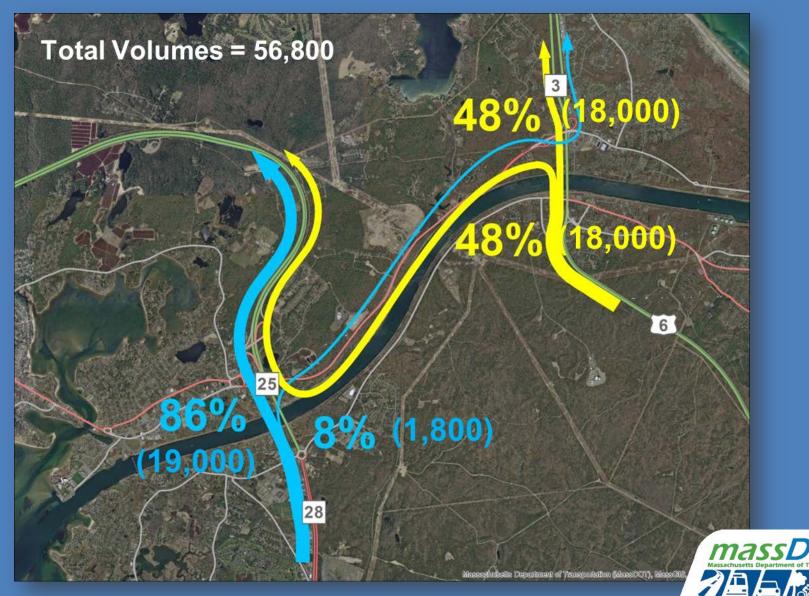
Travel Patterns within the Study Area Strongly Influence Preliminary Alternatives Development.

### 2014 Summer Saturday (10 – 11AM) Cape-Bound Routing.



December 1, 2016

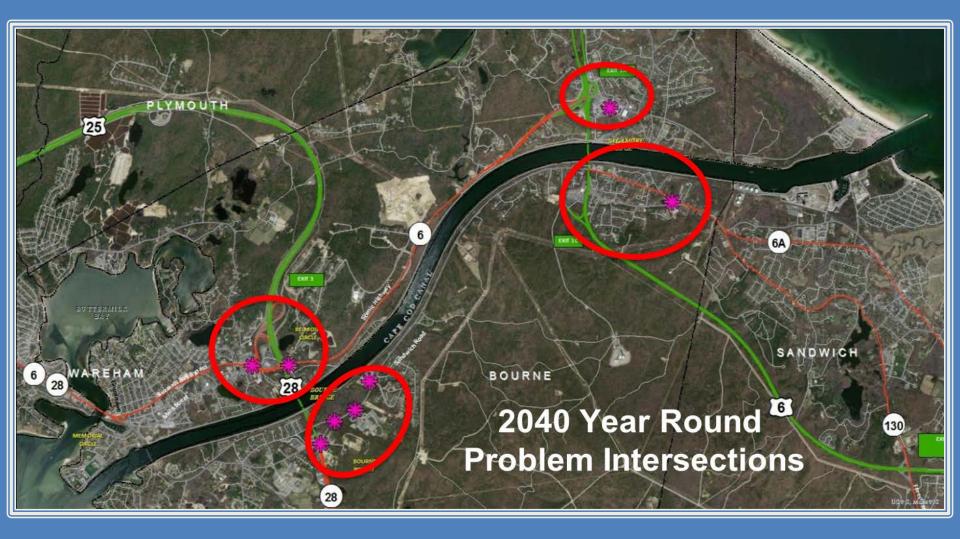
### 2014 Summer Sunday (12 -1PM) Off-Cape Routing.



### Focus Areas – Canal Bridges.



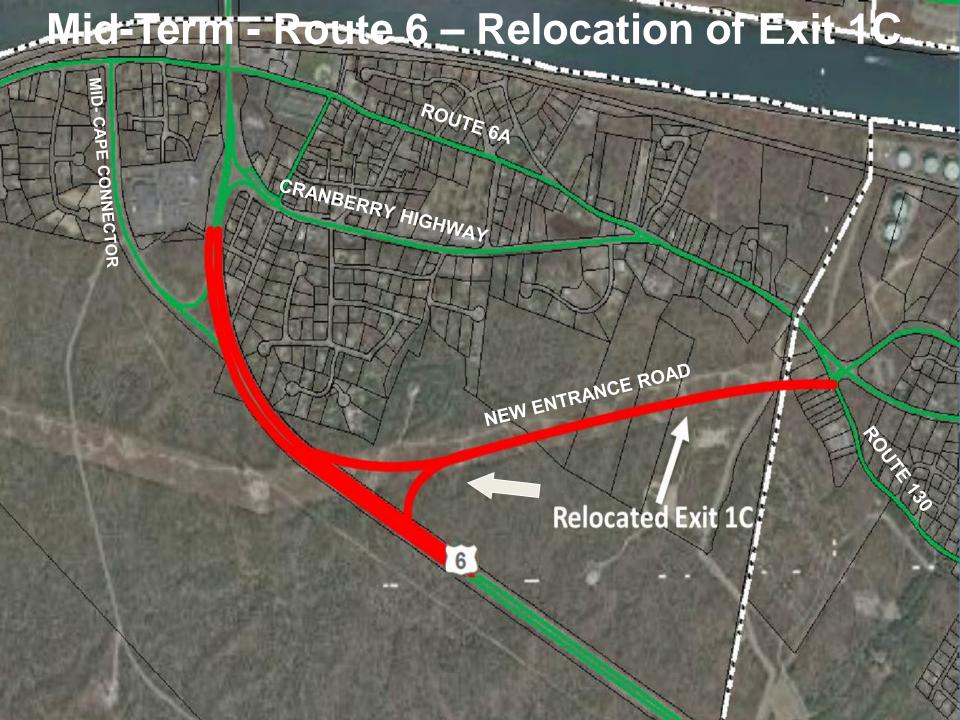
#### Focus Area - Canal Area Intersections.



#### Potential Mid-Term Relocated Route 6 Exit 1C.

- Existing Exit 1C causes congestion on Route 6 westbound due to short acceleration lane immediately before Bourne Bridge.
- New Exit 1C at utility corridor (3,400 feet east).
- New roadway to Route 130 at Route 6A.
- Potentially reduces congestion and improves safety with longer acceleration lanes on Route 6.
- Maintains westbound exit/entrance only.



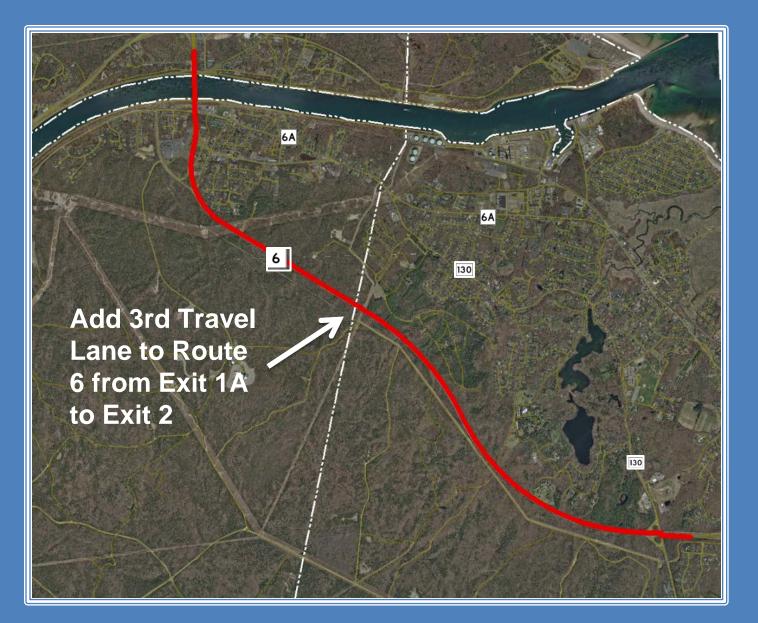


#### Potential Mid-Term Route 6 Additional Travel Lane.

- Potential new travel lanes in both direction from Sagamore Bridge to Exit 2 (Route 130).
- Potentially reduces congestion and improves safety on Route 6 by allowing smoother merging of traffic entering or exiting Sagamore bridge.
- Limited environmental impact.



#### **Route 6 Additional Travel Lane.**



#### **Belmont Circle**.

#### Potential Mid-Term - Scenic Hwy to Route 25 Westbound Ramp.

- New Ramp from Scenic Highway to Route 25 Westbound.
- Begins at Scenic Hwy/Nightingale Pond Road Intersection.
- Diverts traffic from Belmont Circle.
   (780 cars in summer Saturday noontime peak period).

- Access from Scenic Hwy westbound only.
- Potentially improves traffic operations and safety in Belmont Circle (high crash location).

#### Potential Mid-Term - Scenic Hwy to Route 25 Westbound Ramp.

BOURNE

New On-Ramp from Scenic Highway to Route 25 Westbound

25

**Buzzards Bay Bypass** 

**Belmont Circle** 

28



#### Potential Mid-Term – Belmont Circle Roundabout.

- Reconstruction of Belmont Circle as a modern roundabout.
- Improves traffic operations and safety in Belmont Circle (high crash location).
- Maintains access to all abutting properties.
- Anticipated to include Scenic Hwy to Route 25 westbound ramp.

#### Potential Mid-Term - Belmont Circle Roundabout

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SCENIC HIGHWAY

F

MerringALE POND ROA

BUZZARDS BAY BYPASS

MAIN STREET

Potential Mid-Term – Belmont Circle Roundabout with Fly-over Ramp.

- New Ramp from Route 25 eastbound to Scenic Highway eastbound.
- Reconstruction of Belmont Circle as a modern roundabout.
- Improves traffic operations and safety in Belmont Circle (high crash location).
- Maintains access to all abutting properties.
- Anticipated to include Scenic Hwy to Route 25 westbound ramp.

#### Potential Mid-Term - Belmont Circle Roundabout with Fly-over Ramp.

#### **Bourne Rotary**.

December 1, 2016

#### Potential Mid-Term – Bourne Rotary Reconstruction.

- New Route 28 northbound ramp directly to Bourne Rotary Connector (removes 950 Summer Saturday peak hour vehicles).
- Enhanced southbound access to Sandwich Road (removes 1,175 vehicles from rotary during peak hour Saturday)
- Use of Veterans Way to Sandwich Road
- New bridge under Bourne Rotary Connector. Eliminates need for signalized intersection.



#### Potential Mid-Term Bourne Rotary Reconstruction

Based on 2006 MassDOT Study. Re-examined with current traffic volumes

## Potential Mid-Term Bicycle/ Pedestrian/Freight Improvements.

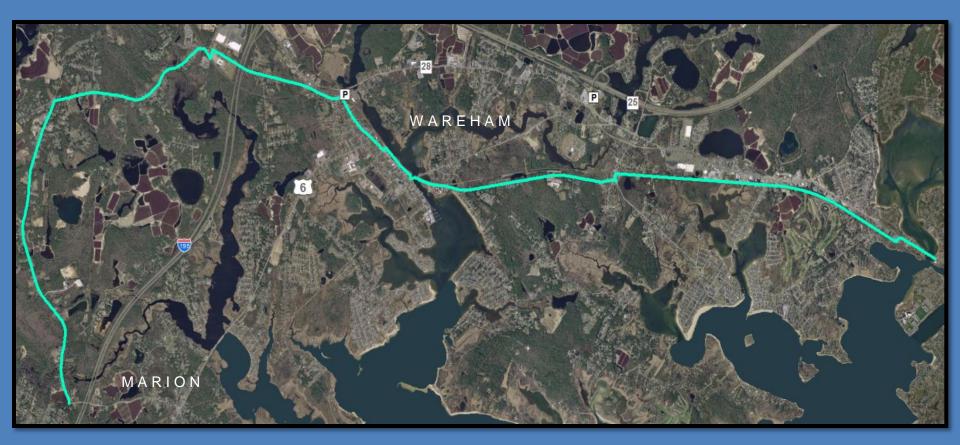
- Bourne Rail Trail (Connecting Shining Sea Bikeway to Canal Bikeway).
- Wareham Community Path.



#### Potential Mid-Term Bicycle/Pedestrian Improvements. – Bourne Rail Trail



#### Potential Mid-Term Bicycle/Pedestrian Improvements – Wareham Community Pathway.





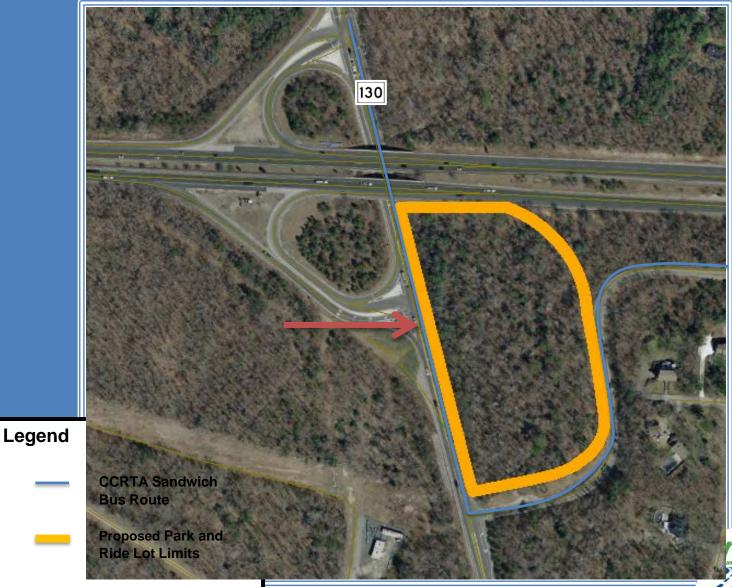
#### Park and Ride Lots.

- Existing Park and Ride Lots on Route 6 in Barnstable (Route 132 - Exit 6) and Bourne (Route 3 at Meetinghouse Lane – Exit 1)
- Lots on Route 6 at 90% to 100% capacity.
- Served by bus lines (P&B/CCRTA).
- Route 130 (Exit 2) would provide a P&R lot between the two existing lots.

#### Park and Ride Lots.



#### Potential Mid-Term – Multi-Modal Center Route 6 at Route 130 Park & Ride Lot.





#### Potential Freight Ferry Access between New Bedford and Martha's Vineyard.

Steamship Authority draft report completed in April 2016

Desire to reduce truck traffic on local streets in Falmouth



#### Potential Freight Ferry Access between New Bedford and Martha's Vineyard.

- Study found challenges related to:
  - Cost of initiating service (buying or chartering an additional vessel.
  - Cost would be higher than Woods Hole (\$579 v. \$260 for one-way trip).
  - SSA subsidizing cost is not desirable. Would need state or other funding.

(8+ Years)
Highest cost
Lengthy environmental review and design period.

# Bourne Bridge.

Photo: WGBH.com

#### Preliminary Concepts Provided by Members of the Public.



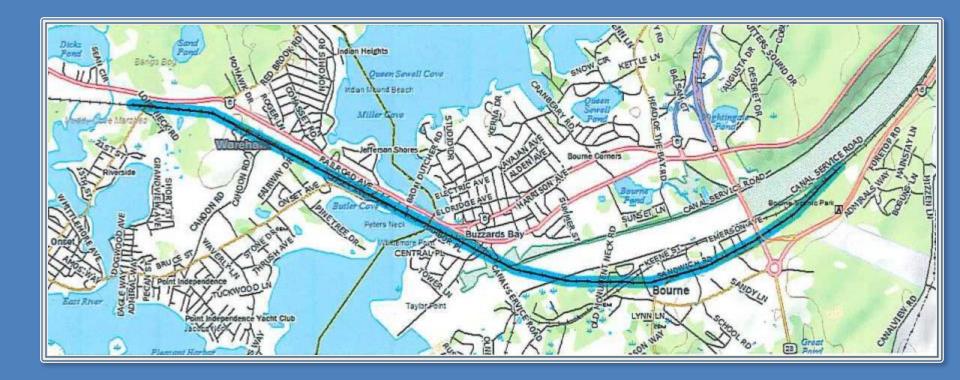
Tom Baron, South Yarmouth Burton Pearlstein, North Falmouth David Oakley, Chatham Steve Voluckas, Barnstable

#### Bourne Rotary Reconstruction. Burton Pearlstein, North Falmouth





#### **Canal Tunnels.**



### **Challenges Related to Canal Tunnel.**

- Topography requires much longer tunnel than bridge.
- Requires substantial ventilation equipment and structures.
- Would require major environmental Study (EIS).
- Difficult to accommodate bicycles or pedestrians.
- Construction cost double or more compared to a bridge.

# Conclusion of Transportation Concepts from Members of the Public.

- Modifications to Bourne Rotary Additional Evaluation on-going
- Mid-Canal Bridge Crossing Dismissed due to significant environmental impact.
- Roadway/Rail Tunnels Dismissed due to impact & cost.
- Facilities on JBCC Right-of-way impacts.

# Long Term Alternatives.

Long-Term Alternatives - Goal is to Improve the Transportation System's Mobility, Reliability, and Safety.



#### **Connecting Roadways Key to Solution.**



## **Bourne Rotary Reconstruction.**

**Dunkin Donuts** ®

3 9



Trowbridge Rd.

28

BOURNE ROTARY

ARATOR ENRIDOS



#### Potential Long-Term Bourne Rotary Reconstruction Concepts.

Alternative 1 - Route 28 Fly-Over. Alternative 2 - MassDOT/USACE Interchange. Alternative 3 – Modified Interchange.

#### Alternative 1 - Bourne Rotary Fly-Over Concept.

- Construction of Fly-over bridge for Route 28 through-traffic (removes 2,160 vehicles from rotary during summer Saturday peak period).
- 2. Must be compatible with future bridge
- 3. All other traffic uses rotary.
- 4. Minimal environmental or property impact.

#### **Alternative 1 - Bourne Rotary Fly-Over**



### Alternative 2 - Bourne Rotary MassDOT/USACE Interchange Concept.

- 1. Replacement of Bourne Rotary with highway interchange.
- 2. Compatible with new bridge alignment to the east.
- 3. Direct access to and from all approaches.
- 4. Land impacts to the east.

#### Alternative 2 - Bourne Rotary MassDOT/Corps Interchange Concept.



### Alternative 3 Bourne Rotary Modified Interchange Concept.

- 1. Replacement of Bourne Rotary with highway interchange.
- 2. Modified Access to Trowbridge Road.
- 3. No Direct Access from Bourn Rotary Connector or Trowbridge Road.
- 4. Limits impact to adjacent commercial properties.



Alternative 3 Bourne Rotary Modified Interchange Concept

### **Potential Additional Infrastructure.**

- New roadway connections to reduce congestion, especially in peak periods.
- Lanes in each direction or reversible lane.
- Considering various concepts which may be combined into a single concept.
- May be an alternative facility type; Toll, High Occupancy Vehicle (HOV), High Occupancy Toll (HOT) or other types.

### Potential Additional Infrastructure Concept 1.

- Potential additional travel lane on Route 3 and Route 6 corridor.
- Limits may extend from Route 3 at Herring Pond Road (Exit 2), over Sagamore Bridge, to Route 6 at Route 130 (Exit 2).
- Lanes or each direction in reversible center lane.

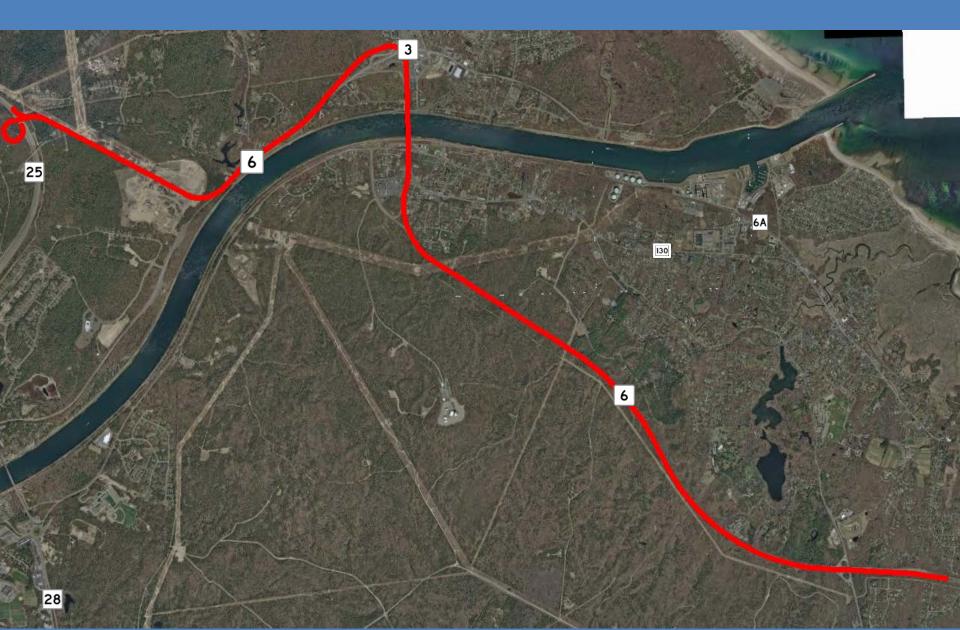
### Potential Additional Infrastructure.



### Potential Additional Infrastructure Concept 2.

- Potential new roadway connecting Route 25 to Route 6 via Scenic Highway.
- Continue south over Sagamore Bridge on Route 6 to Route 130 (Exit 2).
- Addresses high Route 25 to Route 6 travel volumes

### **Potential Additional Infrastructure.**



## **Schedule and Next Steps.**

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Photo: Sagamore Bridge; BobBernier.com



### Selection of Package of Alternatives.

- Overall improvements will be best combination of short-, mid-, and long-term improvements.
- Project sub-areas (Bourne Rotary, Belmont Circle, Sagamore area) to be evaluated using traffic modeling (VISSIM, Synchro)
- Travel demand model will then ensure that the 'transportation system' works as desired.

## Selection of Package of Alternatives.

- Transportation Improvements will layered upon one another until they result in acceptable forecast future traffic conditions.
- Selected Improvements will also be evaluated based on:
  - Effectiveness.
  - Environmental Impact.
  - Community Disruption.
  - Property Impacts.
  - Cost.

## Next Steps.

- Further Evaluation of Short-, Mid-, & Long-Term Improvement Alternatives.
- Evaluation Matrix.
- Working Group Feedback.

# **Study Schedule.**

	2016						2017												
Tasks	Jul	Aug	Sep	Oct	Νον	Dec	lan	Feh	Mar	Apr	May	lun	Jul	Aug	Sen	Oct	Nov	Dec	
Tasks	5 61	,	Jep	000		200	Juli		linai	7.01	may	Juii	501	7.008	Jeb	000			
TASK 3 Alternatives Development																			
Working Group Meeting	٠		•																
Public Meeting						•													
TASK 4 Alternatives Analysis																			
Mobility/Accessibility Analysis																			
Safety Analysis																			
Environmental Effects Analysis																			
Land Use/Economic Development																			
Community Effects/TitleVI/EJ																			
Cost Analysis																			
Working Group Meeting							٠		٠										
Public Meeting									٠										
TASK 5 Recommendations																			
Draft report																			
Working Group Meeting												٠							
Public Meeting												٠							
TASK 6 Final Report																			

## Questions?

Comments and feedback can be emailed to: Ethan Britland- ethan.britland@state.ma.us.

December 1, 2016