

Bourne, Plymouth, Sandwich, Wareham.
Sandwich Town Hall
June 29, 2017 4:30 PM to 6:00 PM



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).
 - Michael 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 massDOT



Evaluation of Alternatives – Travel Demand Model.

- Future no-build conditions complete and presented to Working Group.
- Improvements at key locations previously evaluated separately/stand-alone.
- Combinations of improvements (known as 'cases') recently evaluated.
- Travel demand model will provide modified travel patterns given the 'transportation system' alternatives.
- Seeking acceptable future traffic conditions in the focus area.

4 Cases Selected for Evaluation.

- Cases selected to provide logical and comprehensive groups of improvements given the available study resources.
- Cases represent conceptual scenarios that could occur in the future given the uncertainties in permitting, funding, and actions by the USACE affecting the study area's transportation system.
- Close coordination between MassDOT and the USACE will continue.

Assumptions for Alternatives Development Process.

- Focus on year-round safety and mobility problem locations.
- Short- and Mid-Term
 Alternatives assume
 existing bridges remain
 and do not preclude new
 bridge construction.
- New bridges to be built adjacent to (inside of the) existing bridges. Toll-Free.



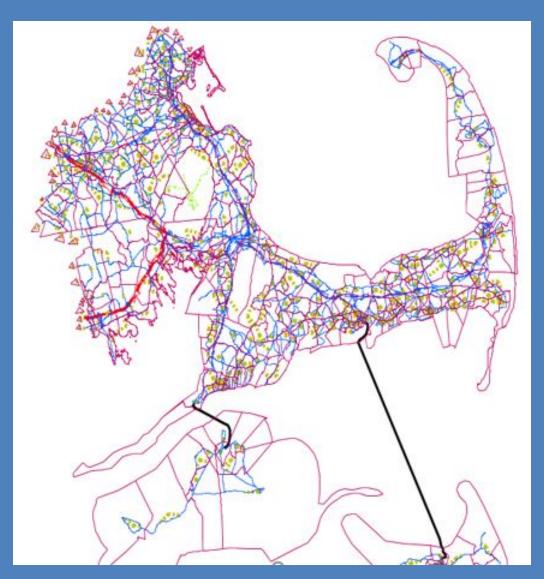


Design Understanding.

- Design for future (2040) fall weekday
 PM peak period.
- Seek further improvements for summer Saturday peak, as feasible.
- Not intending to resolve all peak-season traffic problems.



Travel Demand Model.



- Roadway network for Cape Cod and portions of Plymouth County.
- Used for forecast traffic for existing and future (2040) for no-build and build alternatives

Growth in Traffic Volumes – 2014 to 2040.

Growth forecast based on:

- Commuter and non-commuter trips (0.11% non-summer and 0.50% summer annual growth), and
- Visitor trips (0.69% annual growth)
- 2014 to 2040 Growth in Traffic33.4 % Summer22.5 % Non-Summer



Growth in Traffic Volumes –

LOS

Worsens

A

C

A

В

A

A

F

C

F

F

Average Queue

(feet)

5

1,120

0

130

140

35

2,495

30

3,140

4.825

2040 NO BUILD

Vehicle Delay

(sec)

3

369

3

23

20

4

817

13

130

165

LOS

A

F

A

C

C

A

F

B

F

F

Max. Queue

(feet)

600

2,435

95

1.115

930

1,075

3,910

275

6,130

11,655

	2014 to 2040 – Belmont Circle.
0'	BELMONT CIRCLE OPERATIONS

2014 to 2040 – Belmont Circle
BELMONT CIRCLE OPERATIONS

Vehicle Delay

(sec)

5

15

3

13

7

4

83

19

82

125

2014 EXISTING

Max. Queue

(feet)

515

270

100

530

380

510

570

335

5,755

10,605

Street Name

/Approach

Fall PM

Exit 3

Rd SB

WB

Exit 3

Off Ramps

Road SB

Head of the Bay

Buzzards Bay

Main Street EB

Scenic Highway

Bypass EB

WB

Off Ramps

Head of the Bay

Buzzards Bay

Main Street EB

Scenic Highway

Summer Saturday

Bypass EB

Average Queue

(feet)

10

25

0

35

20

15

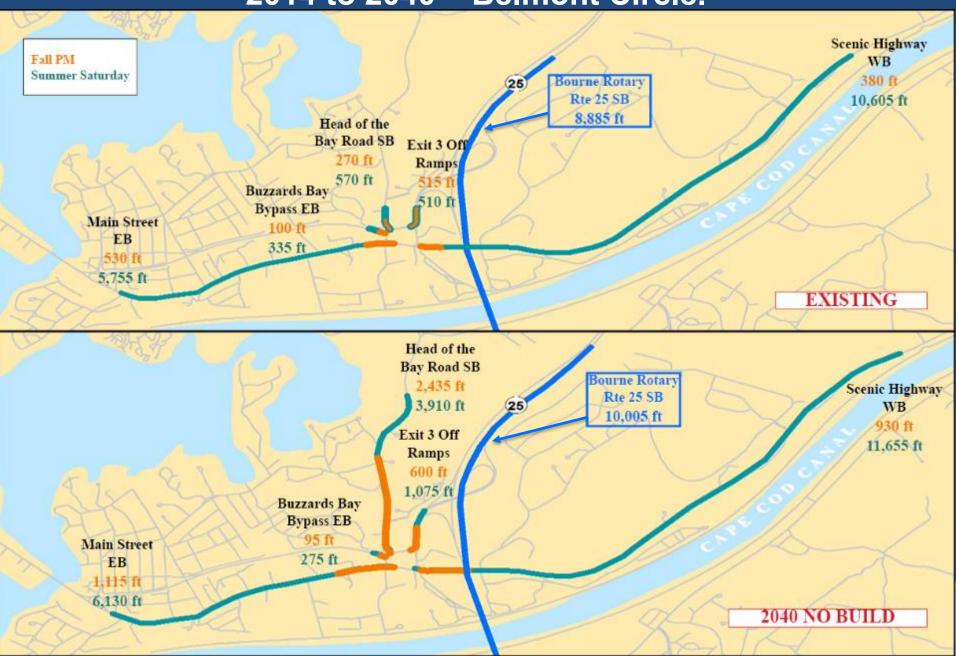
110

50

1,790

3,510

Growth in Traffic Volumes – 2014 to 2040 – Belmont Circle.



BOURNE ROTARY OPERATIONS

LOS

Worsens

C

F

B

C

F

D

F

D

Average Queue

(feet)

790

1,765

395

480

6,505

1,920

2,885

4,025

2040 NO BUILD

Max. Queue

(feet)

2,135

4,480

1,335

2,180

10,005

4,405

5,910

9.085

Vehicle Delay

(sec)

82

345

81

38

341

398

264

149

LOS

F

F

F

E

F

F

F

F

2014 to 2040 – Bourne Rotary.
Growth in Traffic volumes –

2014 EXISTING

Max. Queue

(feet)

650

840

340

1,530

8,885

335

4,135

1475

Street Name

/Approach

Fall PM

EB

Route 25 SB

Trowbridge Rd

Route 28 NB

Bourne Rotary

Connector WB

Summer Saturday

Route 25 SB

Trowbridge Rd

Route 28 NB

Bourne Rotary

Connector WB

EB

Average Queue

(feet)

120

190

50

130

5,290

35

2,195

195

2014 to 2040 – Bourne Rotary.

Vehicle Delay

(sec)

19

75

14

20

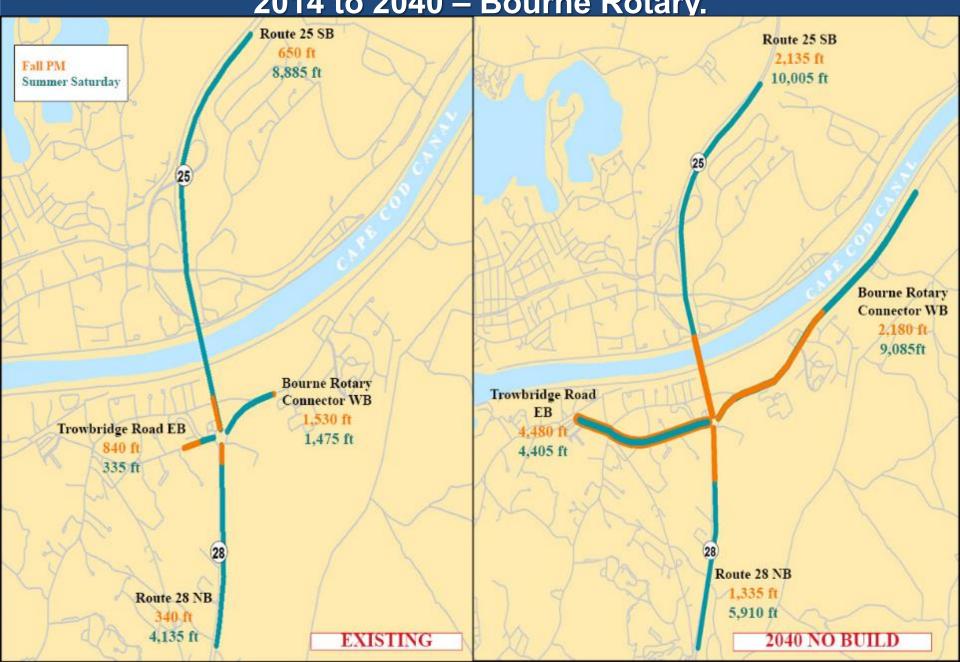
280

30

301

27

Growth in Traffic Volumes – 2014 to 2040 – Bourne Rotary.







Travel Model Case 1 (Mid-Term Alternatives).

Evaluates effectiveness of two transportation improvements:

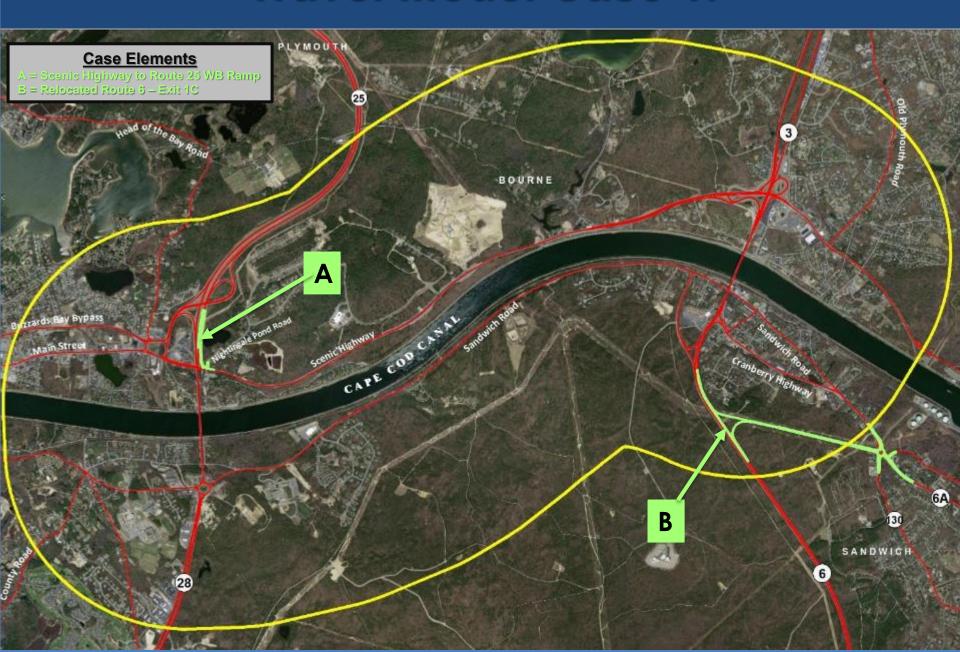
- 1. Scenic Hwy to Route 25 westbound ramp.
- 2. Relocated Route 6 Exit 1C.

Travel Model Case 1 (Mid-Term Alternatives).

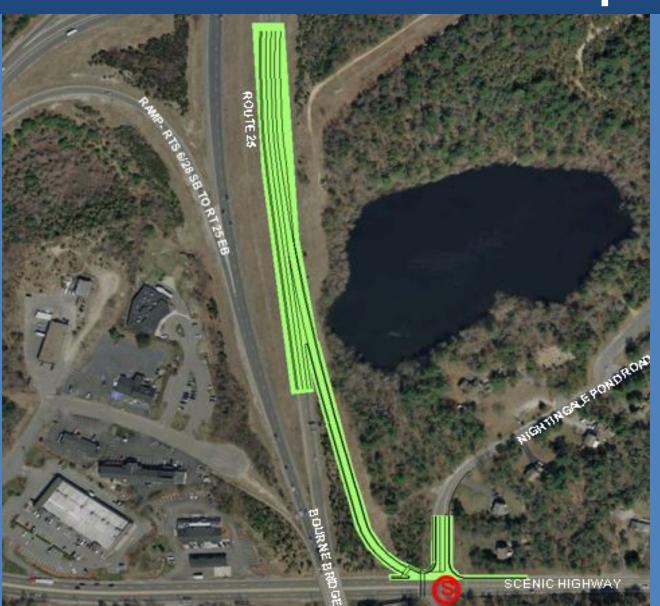
Case 1 improvements would address primarily off-cape movements.

Case 1 improvements could potentially be developed in the mid-term without a major environmental study.

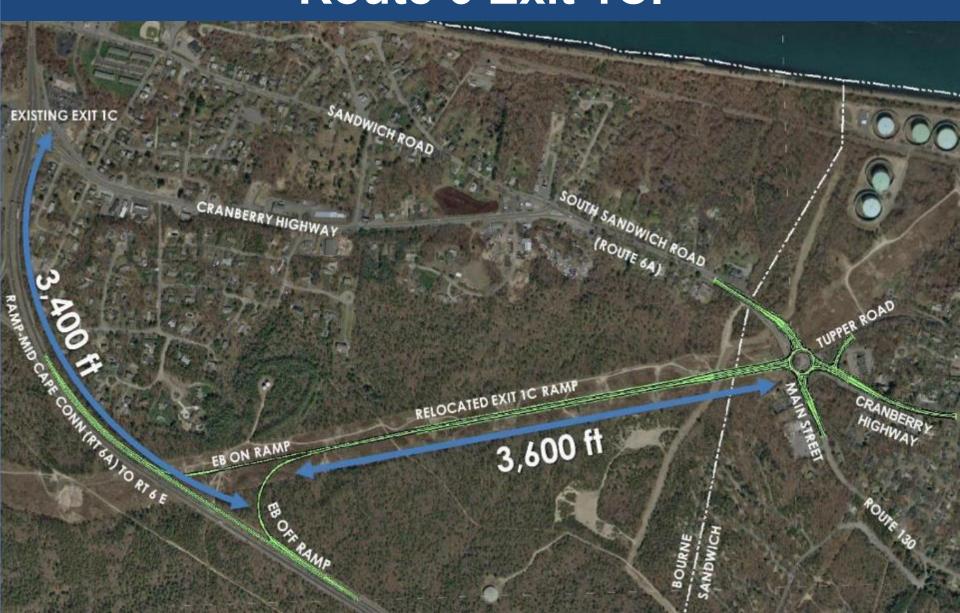
Travel Model Case 1.



Case 1 – Scenic Hwy to Route 25 Westbound Ramp.



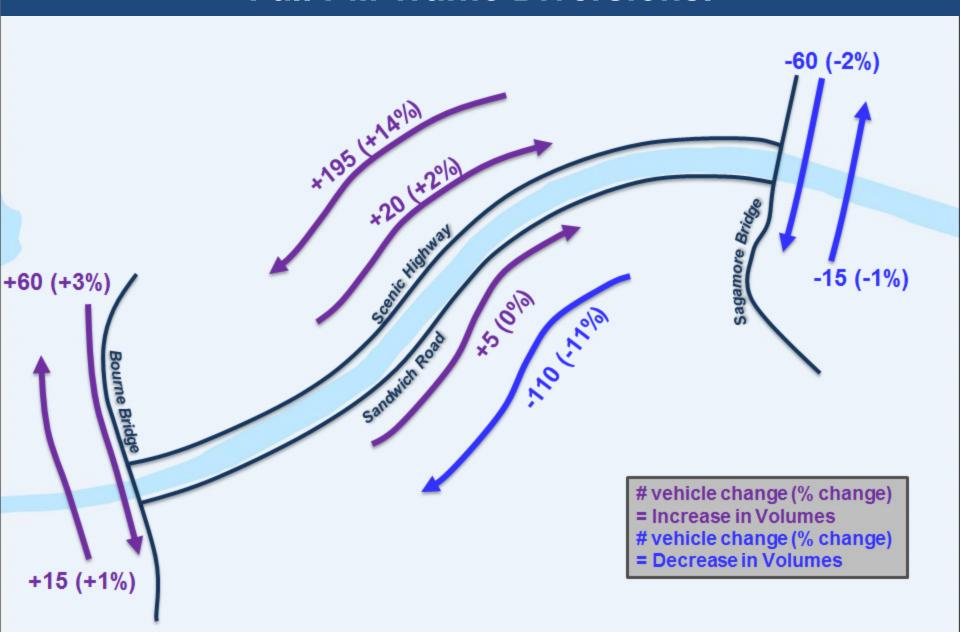
Case 1 – Relocated Route 6 Exit 1C.



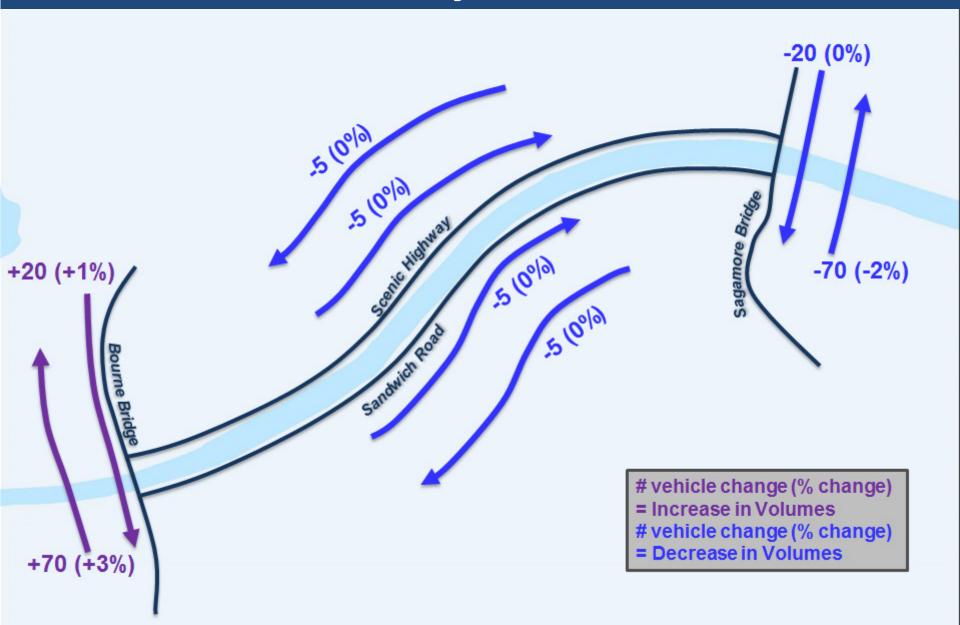
Travel Model Case 1 – Traffic Diversions.

- Traffic Diversions.
 - Minor shift from Sagamore Bridge to Bourne Bridge (more in Fall than Summer).
 - Notable shift to Scenic Hwy from Sandwich Road in Fall.
 - Diversion partly result of attractiveness of new Scenic Hwy to Route 25 WB ramp.

Travel Model Case 1 – Fall PM Traffic Diversions.



Travel Model Case 1 – Summer Saturday Traffic Diversions.



Case 1 – Belmont Circle Queues Comparison of Future (2040) No-Build and Case 1 Improvements

Travel Model Case 1 – Belmont Circle

Traffic Operations.	
BELMONT CIRCLE OPERATIONS	

LOS

Improves

A

F

A

C

C

Worsens

A

F

B

F

F

Average Queue

(feet)

0

255

0

80

10

5,200

4,240

100

4.455

4.190

2040 CASE 1

Vehicle Delay

(sec)

2

85

2

18

7

37

2.314

31

198

205

LOS

A

F

A

C

A

E

F

D

F

F

Max. Queue

(feet)

120

1,025

85

875

205

8,420

7,840

620

6.135

11,200

Traffic Operations.
BELMONT CIRCLE OPERATIONS

2040 NO BUILD

Vehicle Delay

(sec)

3

369

3

23

20

4

817

13

130

165

Max. Queue

(feet)

600

2,435

95

1.115

930

1.075

3,910

275

6.130

11.655

Street Name

/Approach

Fall PM

Off Ramps

Road SB

Head of the Bay

Buzzards Bay

Main Street EB

Scenic Highway

Summer Saturday

Head of the Bay

Buzzards Bay

Main Street EB

Scenic Highway

Bypass EB

WB

Bypass EB

WB

Exit 3

Off Ramps

Road SB

Exit 3

Average Queue

(feet)

5

1,120

0

130

140

35

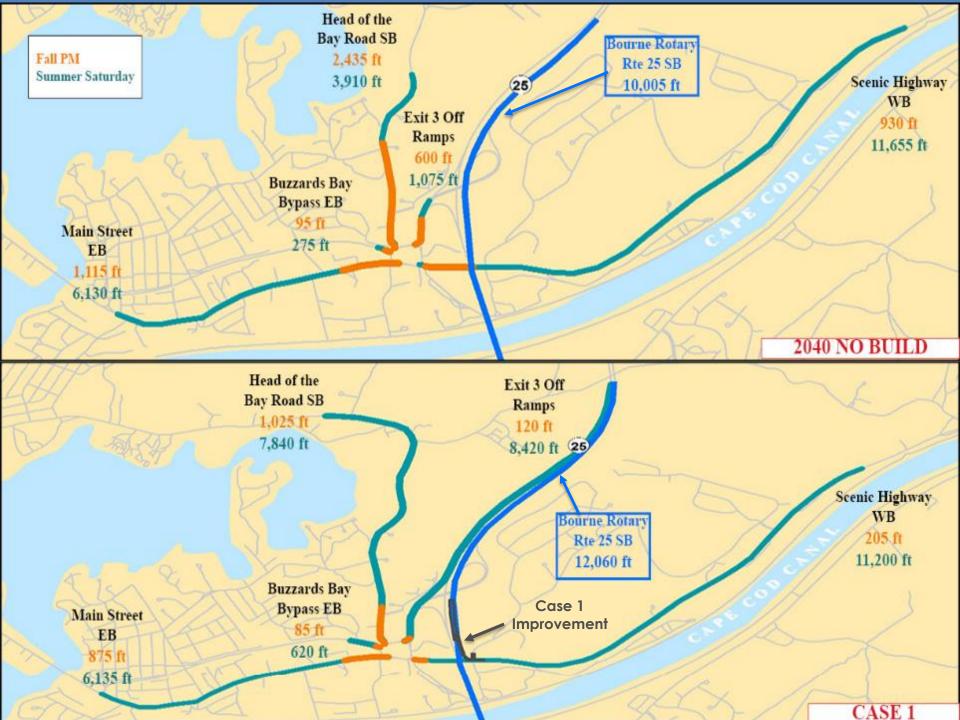
2,495

30

3,140

4.825

Traffic Operatio	ns.



Case 1 – Bourne Rotary Queues Comparison of Future No-Build and Case 1 Improvements

Travel Model Case 1 – Bourne Rotary

Traffic Operations.
BOURNE ROTARY OPERATIONS

LOS

Improves

F

F

F

E

Worsens

F

F

F

F

Average Queue

(feet)

210

1,025

325

340

6,900

1.955

3,275

4.020

2040 CASE 1

Vehicle Delay

(sec)

29

210

68

39

337

390

287

148

LOS

D

F

F

E

F

F

F

F

Max. Queue

(feet)

725

2,920

1,060

1,675

12,060

4,305

6,400

8.875

2040 NO BUILD

Vehicle Delay

(sec)

82

345

81

38

341

398

264

149

Max. Queue

(feet)

2,135

4,480

1,335

2,180

10,005

4.405

5,910

9,085

Street Name

/Approach

Fall PM

EB

Route 25 SB

Trowbridge Rd

Route 28 NB

Bourne Rotary Connector WB

Summer Saturday

Route 25 SB

Trowbridge Rd

Route 28 NB

Bourne Rotary Connector WB

EB

Average Queue

(feet)

790

1,765

395

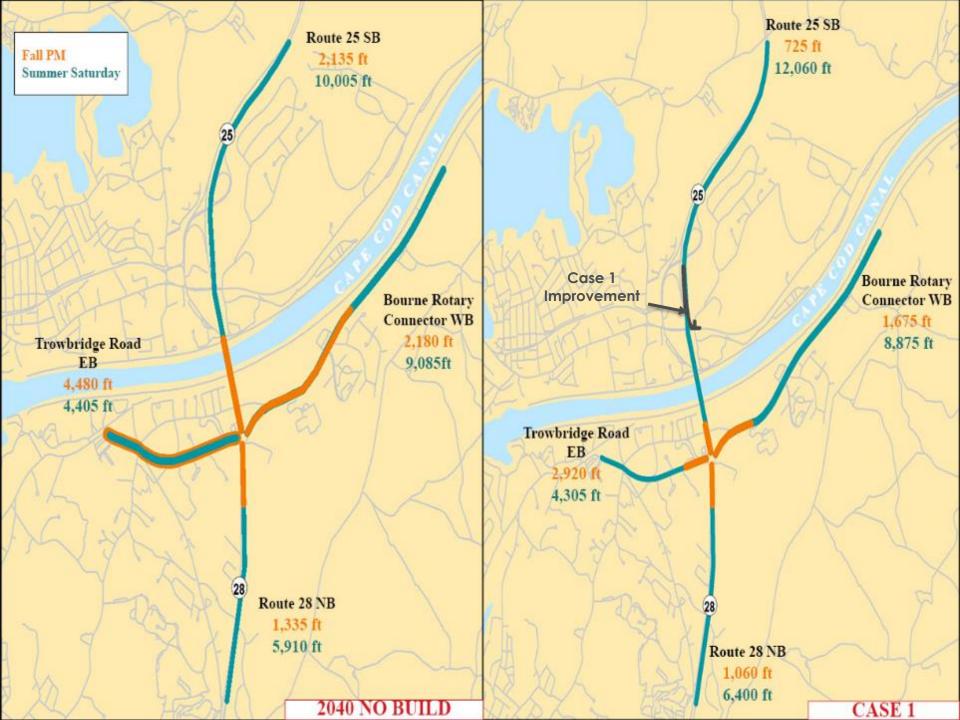
480

6,505

1.920

2,885

4.025



Travel Model Case 1 – Overall Findings.

Traffic Improvements.

- Reduced Fall Queues at both Belmont Circle and Bourne Rotary. Queues in summer do not improve.
- Favorable traffic operations at new Route 6A/Route 130/Route 6 ramp roundabout (LOS A).

Remaining problem locations.

 Increased queues in Belmont Circle at Route 25 ramps and Head of the Bay Road because of fewer gaps between vehicles in Circle. Vehicles currently heading to Route 25 westbound create gaps for incoming vehicles.

Travel Model Case 1 – Overall Findings.

- May reduce crash rates for vehicles, bikes and pedestrians.
 - Diversion of traffic from Belmont Circle reduces conflict from vehicles merging.





Travel Demand Model – Case 2 (Mid-Term Alternative).

Case 1 PLUS:

- Belmont Circle Reconstruction
 (Alternative 1 4 leg roundabout and signalized intersection).
- Bourne Rotary Reconstruction
 (Alternative 2 3 signalized intersections).

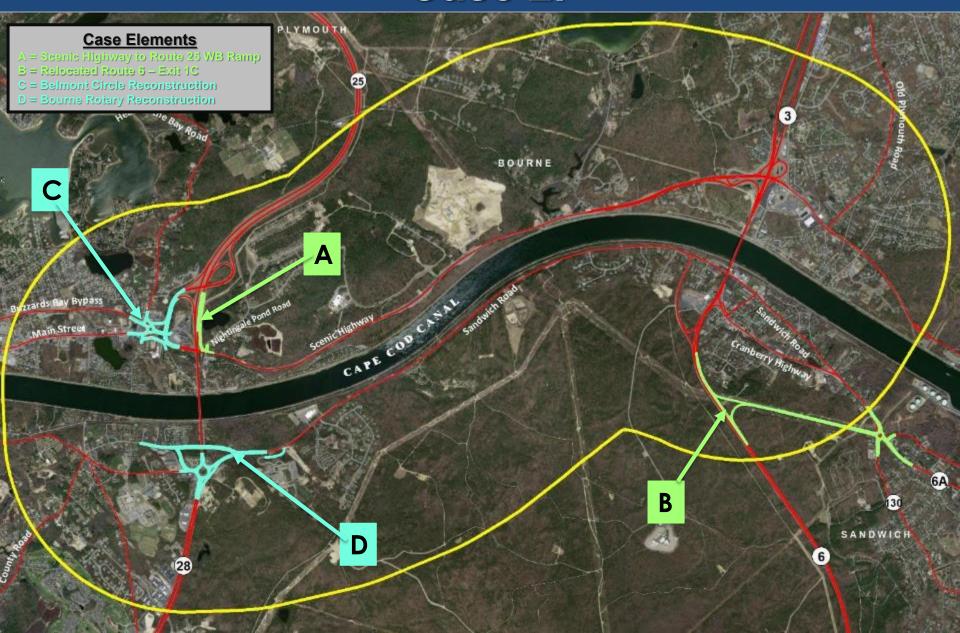
Travel Demand Model – Case 2 (Mid-Term Alternative).

- Case 2 includes improvements to both Belmont Circle and Bourne Rotary.
- Separate cases (with one or the other) not evaluated. So close that traffic at one location affects the other.
- Case 2 improvements are more complex and costly. Due to potential impact, a major environmental study may be required.

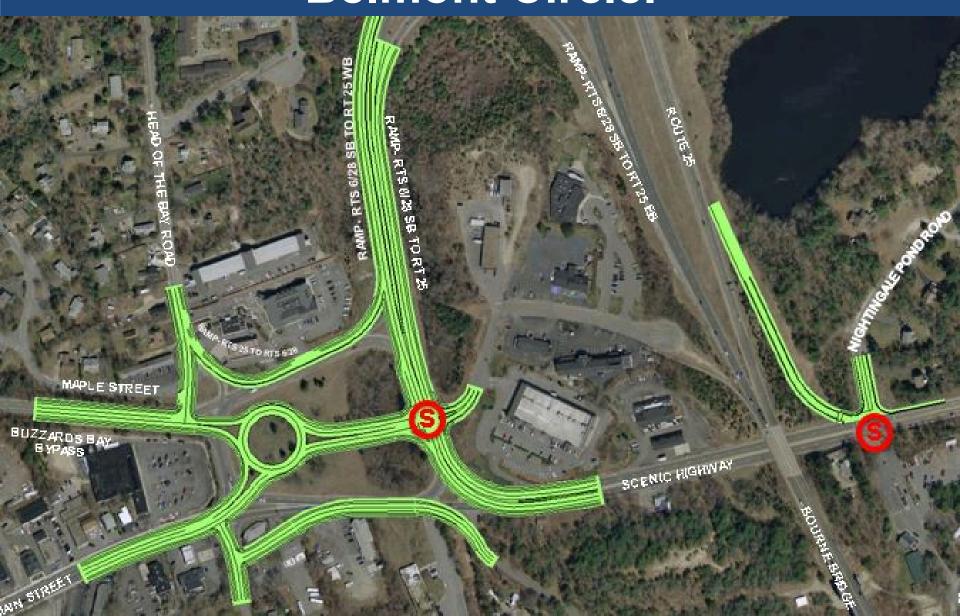
Travel Demand Model – Case 2 (Mid-Term Alternative).

Mid-Term Improvements to Belmont Circle and Bourne Rotary would also be compatible with the anticipated location of the new canal bridges.

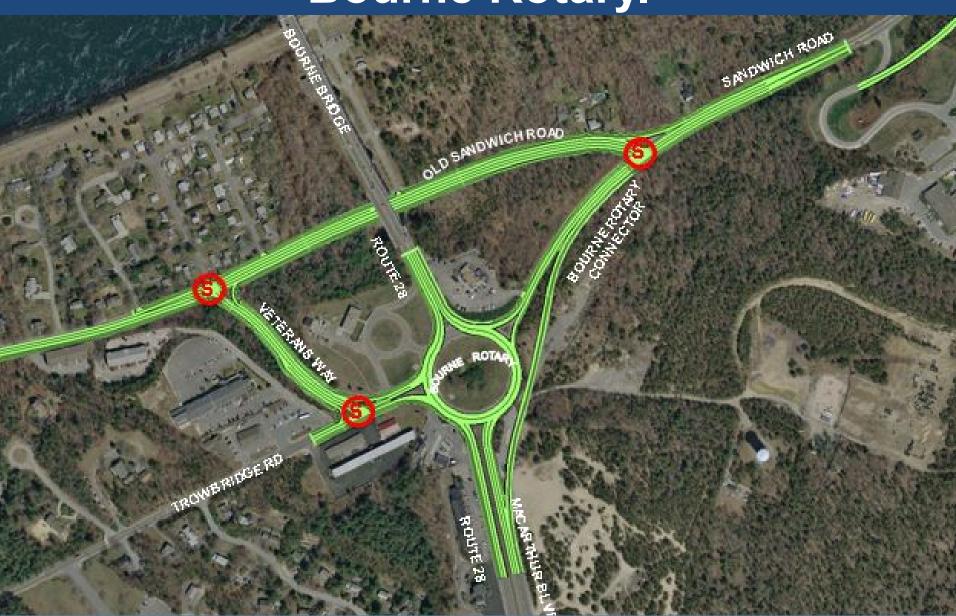
Travel Demand Model Case 2.



Case 2 – New Elements: Belmont Circle.



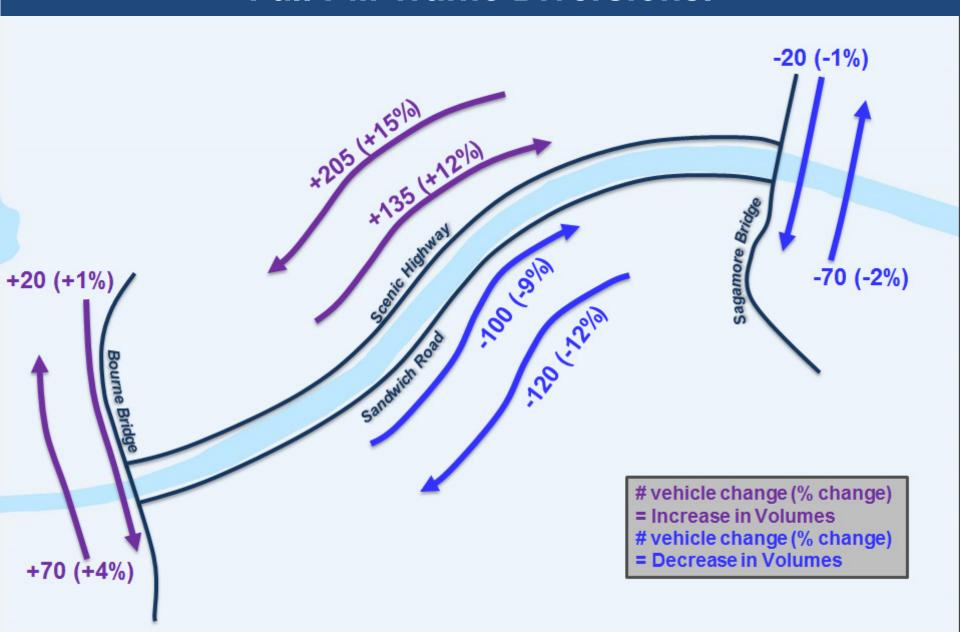
Case 2 – New Elements Bourne Rotary.



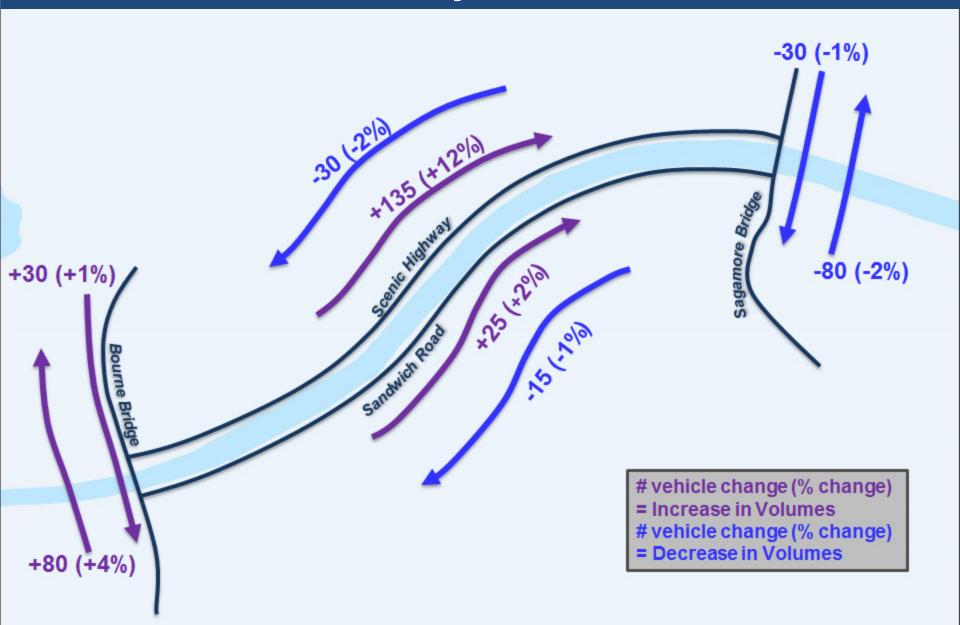
Travel Model Case 2 – Traffic Diversions.

- Traffic Diversions.
 - Minor shift from Sagamore Bridge to Bourne Bridge (more in Fall than Summer).
 - Notable increase in Scenic Hwy volumes during Fall.
 - Minor summertime increase in eastbound volumes on Scenic Hwy and Sandwich Road.

Travel Model Case 2 – Fall PM Traffic Diversions.



Travel Model Case 2 – Summer Saturday Traffic Diversions.



Case 2 – Belmont Circle Queues Comparison of Future No-Build and Case 2 Improvements

Travel Model Case 2 -

Traffic
BELMONT

LOS

Improves

A

F

A

C

C

Worsens

A

F

B

F

F

Average Queue

(feet)

100

10

5

25

85

765

1,790

505

5,685

4,415

2040 CASE 2

Vehicle Delay

(sec)

27

7

4

13

29

83

240

145

333

257

LOS

C

A

A

B

C

F

F

F

F

F

Max. Queue

(feet)

470

285

195

335

430

2,585

3,770

1,210

6,015

8,460

Traffic Operations.
BELMONT CIRCLE OPERATIONS

Traffic Operations.
BELMONT CIRCLE OPERATIONS

2040 NO BUILD

Max. Queue

(feet)

600

2,435

95

1,115

930

1,075

3,910

275

6,130

11.655

Street Name

/Approach

Fall PM

Exit 3

Off Ramps

Road SB

Bypass EB

WB

Exit 3

Off Ramps

Road SB

Head of the Bay

Buzzards Bay

Main Street EB

Scenic Highway

Bypass EB

WB

Head of the Bay

Buzzards Bay

Main Street EB

Scenic Highway

Summer Saturday

Average Queue

(feet)

5

1,120

0

130

140

35

2,495

30

3,140

4,825

Traffic Operations.	
RELMONT CIRCLE OPERATIONS	

Traffic Operations.
RELMONT CIRCLE OPERATIONS

Traffic Operations.
BELMONT CIRCLE OPERATIONS

Vehicle Delay

(sec)

3

369

3

23

20

4

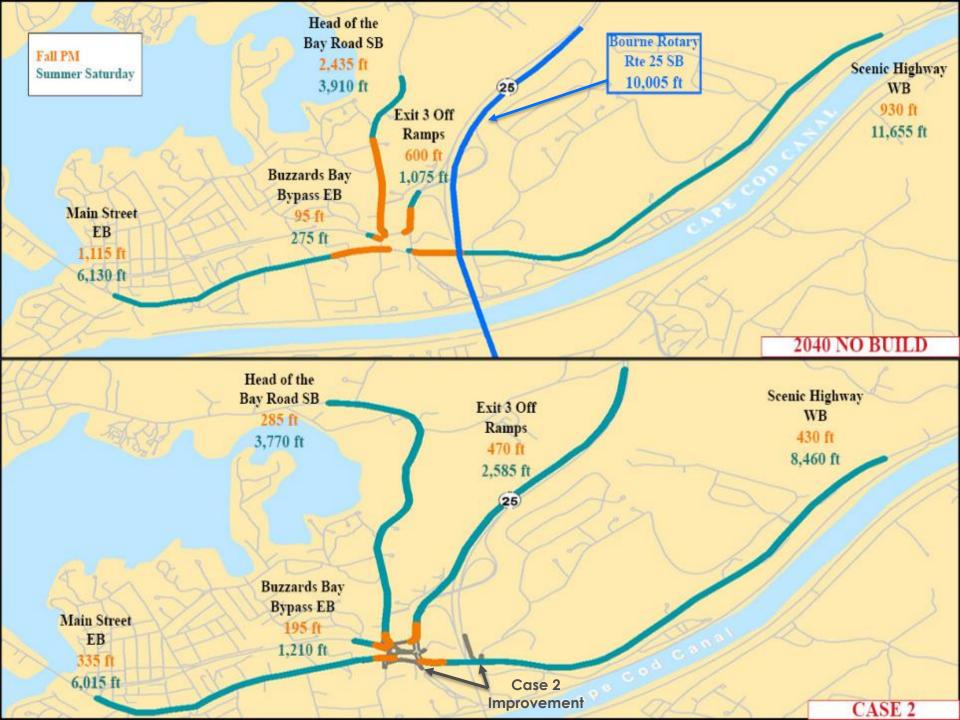
817

13

130

165

Traffic Operations.
BELMONT CIRCLE OPERATIONS



Case 2 – Bourne Rotary Queues Comparison of Future No-Build and Case 2 Improvements

Travel Model Case 2 – Bourne Rotary

Traffic Operations.	
 BOURNE ROTARY OPERATIONS	

2040 NO BUILD

Vehicle Delay

(sec)

82

345

81

38

341

398

264

149

Max. Queue

(feet)

2.135

4,480

1,335

2180

10,005

4,405

5,910

9,085

Average Queue

(feet)

790

1.765

395

480

6,505

1,920

2,885

4,025

Street Name

/Approach

Fall PM

Route 25 SB

Trowbridge Rd

Route 28 NB

Bourne Rotary Connector WB

Summer Saturday

Route 25 SB

Trowbridge Rd

Route 28 NB

Bourne Rotary Connector WB

EB

Travor moder dade i Bearne Retary	
Traffic Operations.	

LOS

Improves

F

F

F

E

Improves

F

F

F

F

Average Queue

(feet)

0

10

5

40

0

75

80

20

2040 CASE 2

Vehicle Delay

(sec)

2

17

3

28

2

38

15

27

LOS

A

C

A

D

A

E

C

D

Max. Queue

(feet)

0

120

105

440

0

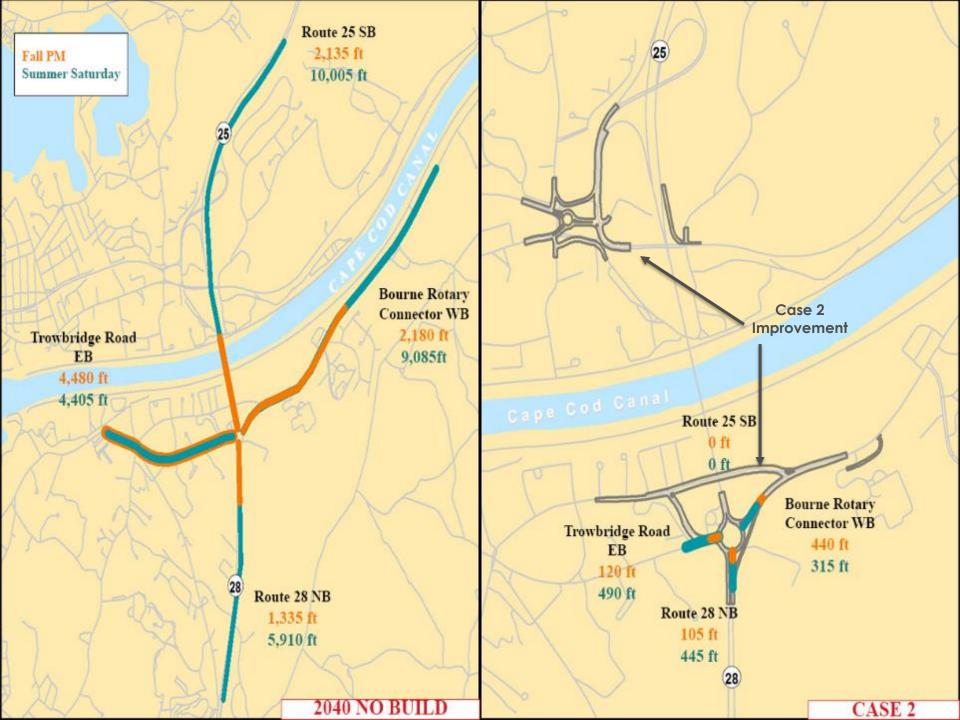
490

445

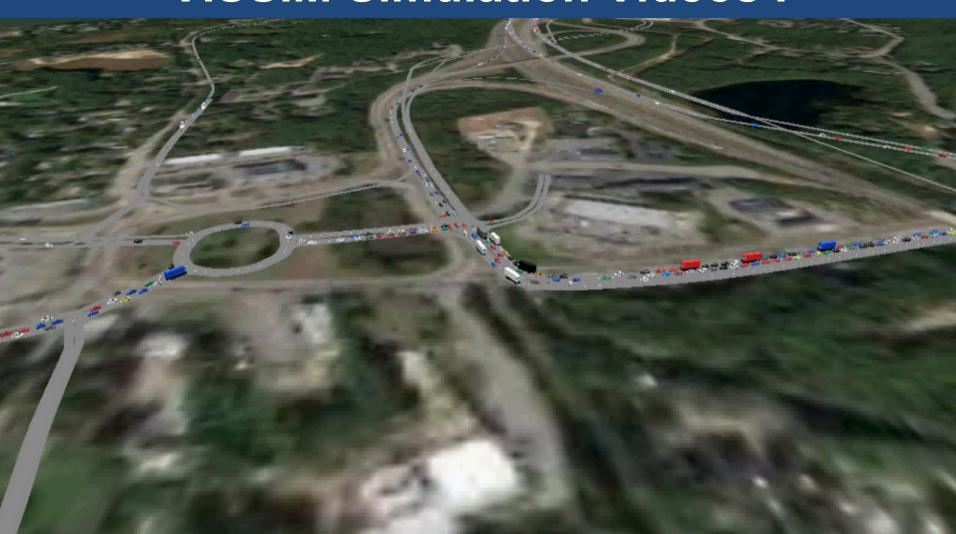
315

T (C'	
I rattic ()	perations.
	polations

Traffic C	perations.	



Travel Model Case 2 – Belmont Circle/Bourne Rotary VISSIM Simulation Videos.



Travel Model Case 2 – Overall Findings.

- Traffic Improvements.
 - Belmont Circle Fall weekday queues substantially reduced at most approaches.
 - Bourne Rotary Fall weekday and Summer Saturday queues substantially reduced.
- Remaining problem locations.
 - Belmont Circle Summer Saturday Queues worsen at Exit 3 ramps and Buzzards Bay Bypass because of greater volumes from Main Street EB to Route 25 WB.

Travel Model Case 2 – Overall Findings.

- Improvements may reduce crash rates for vehicles, bicycles and pedestrians.
 - New signalized intersections at Belmont Circle and Bourne Rotary.
 - Modern roundabout design at Belmont Circle.
 - Diversion of traffic out of Belmont Circle and Bourne Rotary, less merging conflicts.

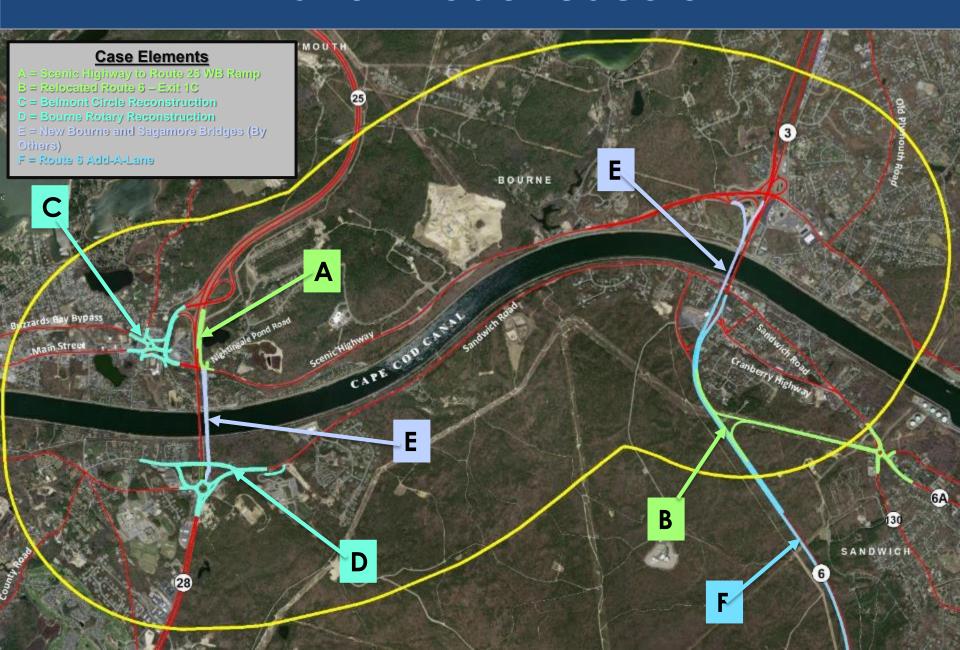


Travel Model Case 3 (Long-Term Alternative).

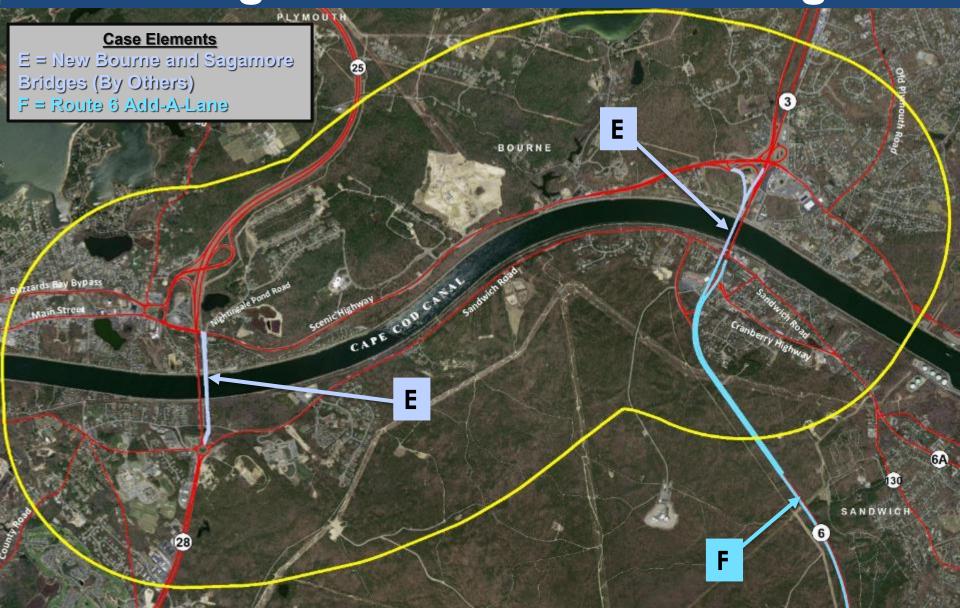
Case 2 PLUS:

- New canal bridges with related auxiliary lanes (by Army Corps).
- Route 6 Additional eastbound lane from the new Sagamore Bridge to Exit 2.
- Case 3 evaluates the effect new canal bridges would have on traffic operations.

Travel Model Case 3.



Case 3 – New Element - New Sagamore and Bourne Bridges.



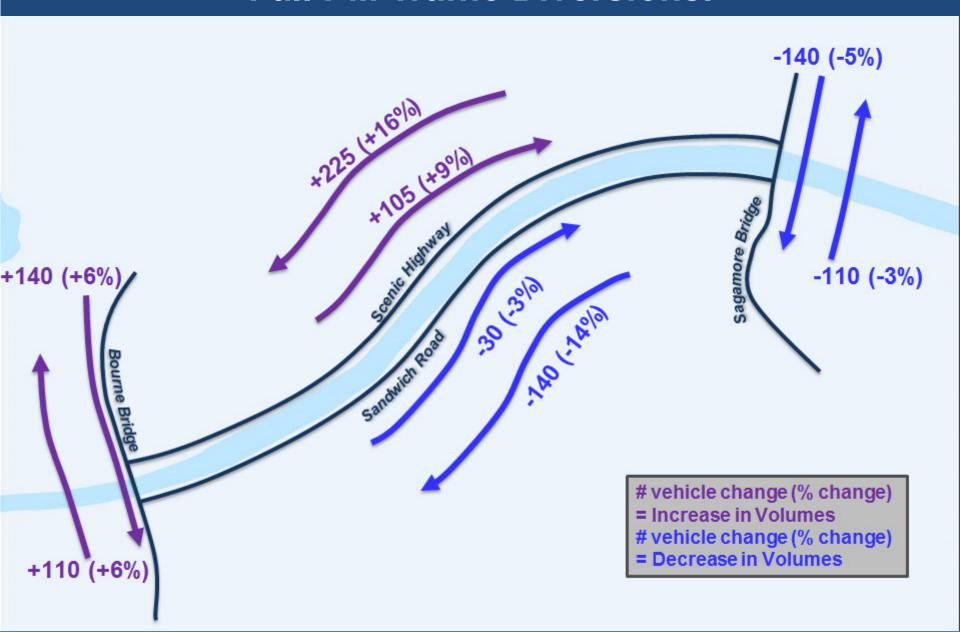
Case 3 – New Element Route 6 Add-a-Lane.



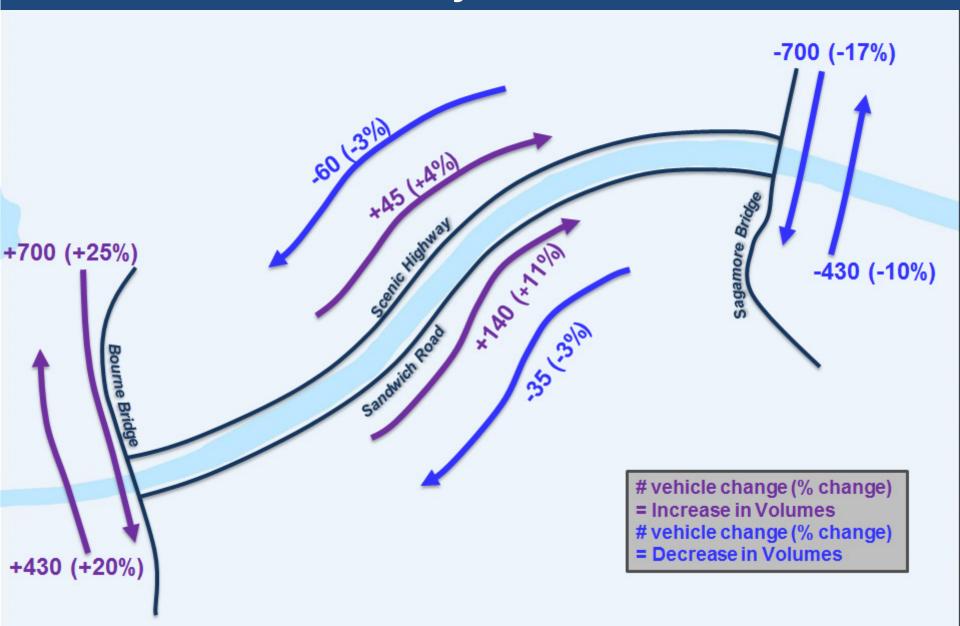
Travel Model Case 3 – Traffic Diversions.

- Shift from Sagamore Bridge to Bourne Bridge (more Summer than Fall)
- Notable shift to Scenic Hwy from Sandwich Road in Fall.
- Both diversions above because of improved operations (shorter queues) on Bourne Bridge attracting vehicles.
- Minor summertime increase in eastbound volumes on Scenic Hwy and Sandwich Road because Route 3-bound vehicles no longer avoiding Bourne Bridge area.

Travel Model Case 3 – Fall PM Traffic Diversions.



Travel Model Case 3 – Summer Saturday Traffic Diversions.



Case 3 – Belmont Circle Queues Comparison of Future (2040) No-Build and Case 3 Improvements

Travel Model Case 3 – Belmont Circle

Traffic Operations.	
BELMONT CIRCLE OPERATIONS	

LOS

Improves

A

F

A

C

C

A

F

В

Worsens

F

F

Average Queue

(feet)

100

10

5

35

80

125

3,200

625

5,700

4.095

2040 CASE 3

Vehicle Delay

(sec)

27

7

4

14

28

33

308

158

347

247

LOS

C

A

A

В

C

C

F

F

F

F

Max. Queue

(feet)

475

290

140

745

455

640

6,890

1,690

6,020

7,860

Traffic Oper	ations.
REL MONT CIRCLE OF	FRATIONS

2040 NO BUILD

Vehicle Delay

(sec)

3

369

3

23

20

4

817

13

130

165

Max. Queue

(feet)

600

2,435

95

1,115

930

1,075

3,910

275

6,130

11,655

Street Name

/Approach

Fall PM

Exit 3

Off Ramps

Road SB

Head of the Bay

Buzzards Bay

Main Street EB

Scenic Highway

Summer Saturday

Head of the Bay

Buzzards Bay

Main Street EB

Scenic Highway

Bypass EB

WB

Exit 3

Off Ramps

Road SB

Bypass EB

WB

Average Queue

(feet)

5

1,120

0

130

140

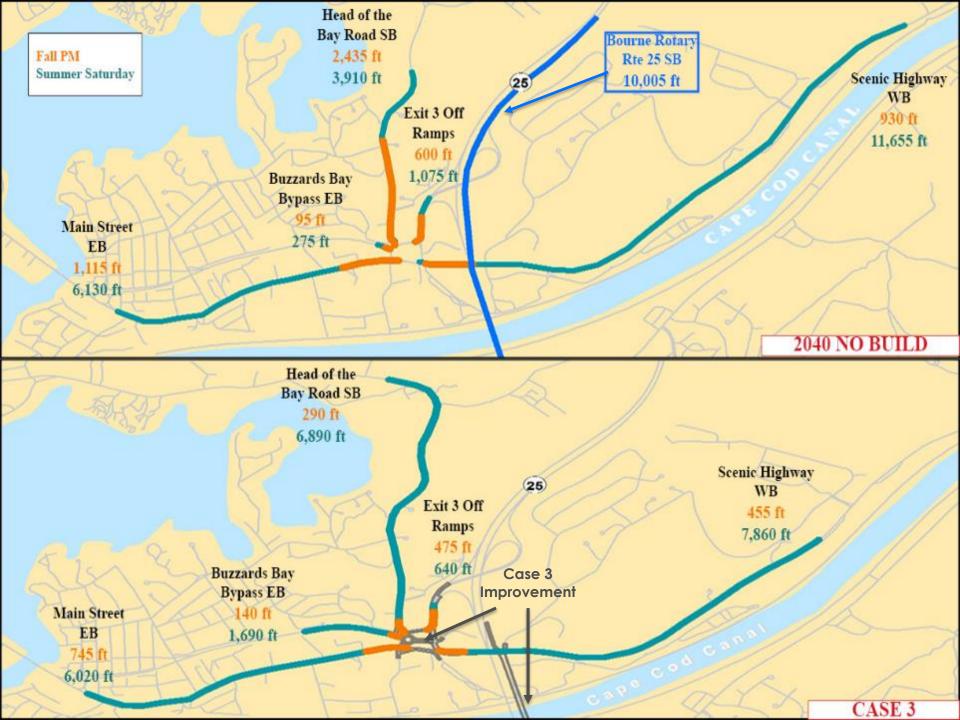
35

2,495

30

3.140

4,825



Case 3 – Bourne Rotary Queues Comparison of Future (2040) No-Build and Case 3 Improvements

Travel Model Case 3 – Bourne Rotary

Traffic Operations.	
 BOURNE ROTARY OPERATIONS	

2040 NO BUILD

Vehicle Delay

(sec)

82

345

81

38

341

398

264

149

Max. Queue

(feet)

2,135

4.480

1,335

2180

10,005

4,405

5,910

9,085

Street Name

/Approach

Fall PM

EB

Route 25 SB

Trowbridge Rd

Route 28 NB

Bourne Rotary Connector WB

Summer Saturday

Route 25 SB

Trowbridge Rd

Route 28 NB

Bourne Rotary Connector WB

EB

Average Queue

(feet)

790

1,765

395

480

6,505

1,920

2.885

4,025

Traffic Operations	
BOURNE BOTA BY OBER ATIONS	

Traffic Operations.	
Trainio Operational	

LOS

Improves

F

F

F

E

Improves

F

F

F

F

Average Queue

(feet)

0

5

5

0

0

670

220

0

2040 CASE 3

Vehicle Delay

(sec)

1

17

3

17

2

180

48

20

LOS

A

C

A

C

A

F

E

C

Max. Queue

(feet)

85

135

110

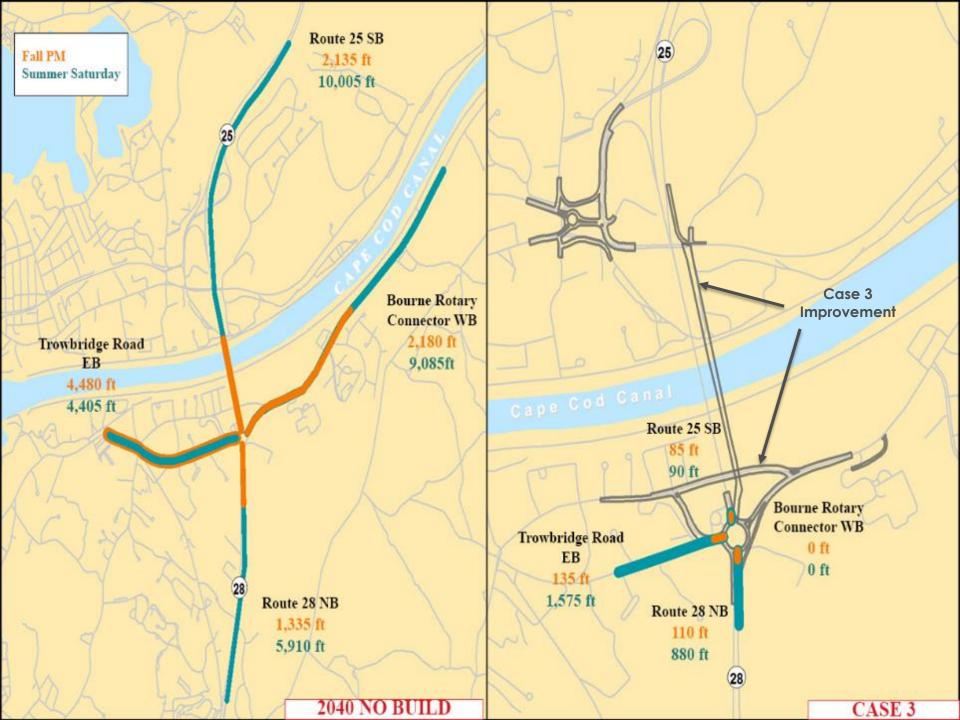
0

90

1,575

880

0



Travel Model Case 3 – Overall Findings.

- Traffic Improvements.
 - Belmont Circle Notable Queue reductions during Fall weekday and Summer Saturday.
 - Bourne Rotary Substantial Queue reductions during Fall weekday and Summer Saturday.
- Remaining problem locations.
 - Belmont Circle Summer Saturday queues at Head of the Bay Road and Buzzards Bay Bypass because of greater volumes on Main Street WB and Route 25 WB.

Travel Model Case 3 – Overall Findings.

Improvements may reduce crash rates for vehicles, bicycles, and pedestrians.

- Signalized intersections at Belmont Circle and Bourne Rotary.
- Separation of traffic flow at Bourne Rotary
 Connector at Sandwich Road (less merging in Rotary).
- Modern design of new bridges to include wider lanes, shoulders, sidewalks.



Travel Model Case 3A (Long-Term Alternative).

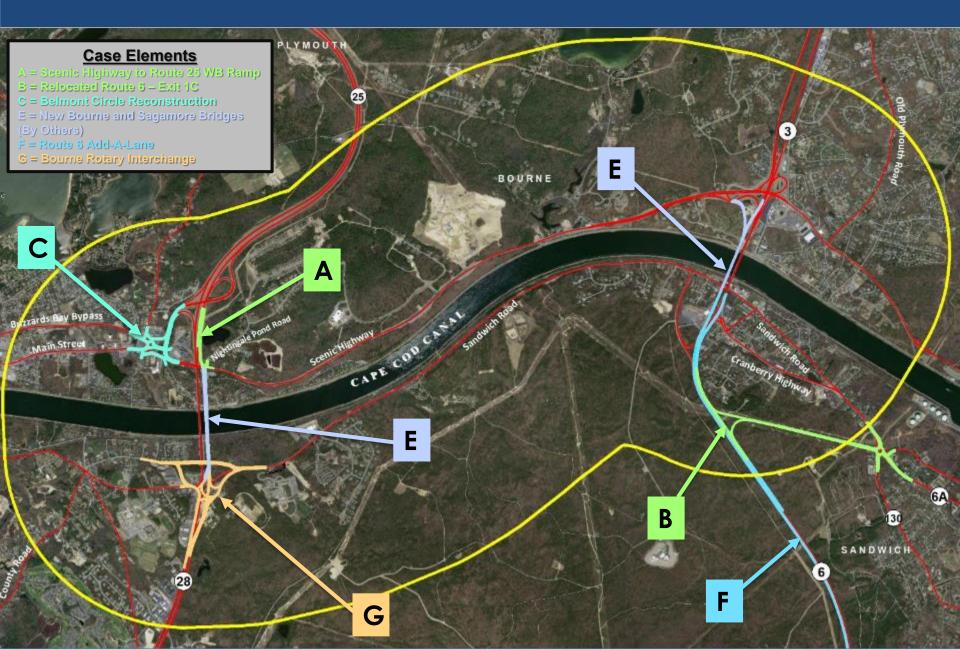
Case 3 PLUS:

 Bourne Rotary Interchange (Alternative 3A).

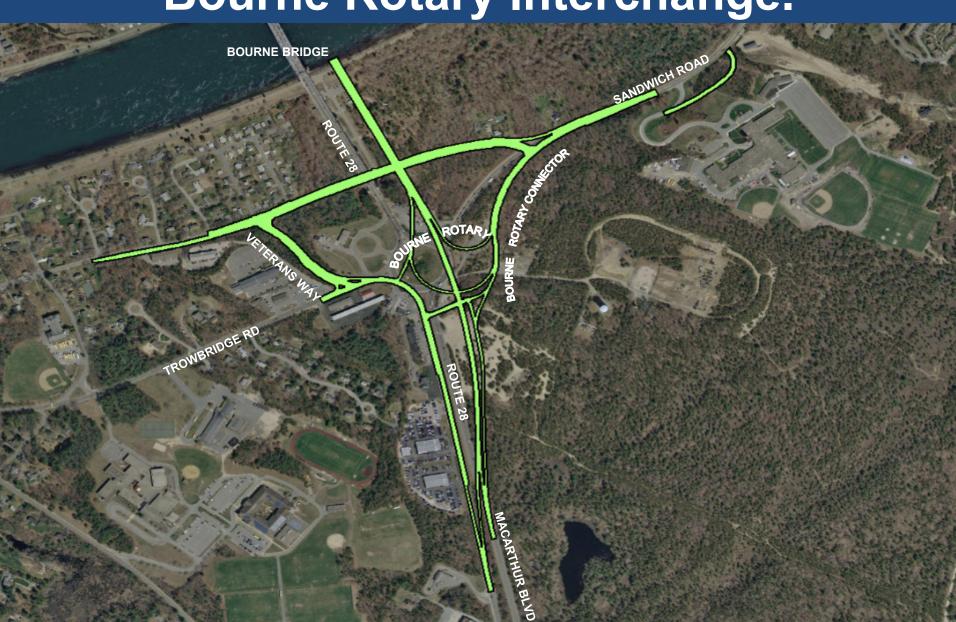
Travel Model Case 3A (Long-Term Alternative).

- New canal bridges evaluated in Case 3 may increase ease of bridge crossings.
- Additional Route 28 southbound traffic may result in failing operations at Bourne Rotary.
- Case 3A proposed to test long-term improvements at Bourne Interchange

Travel Model Case 3A.



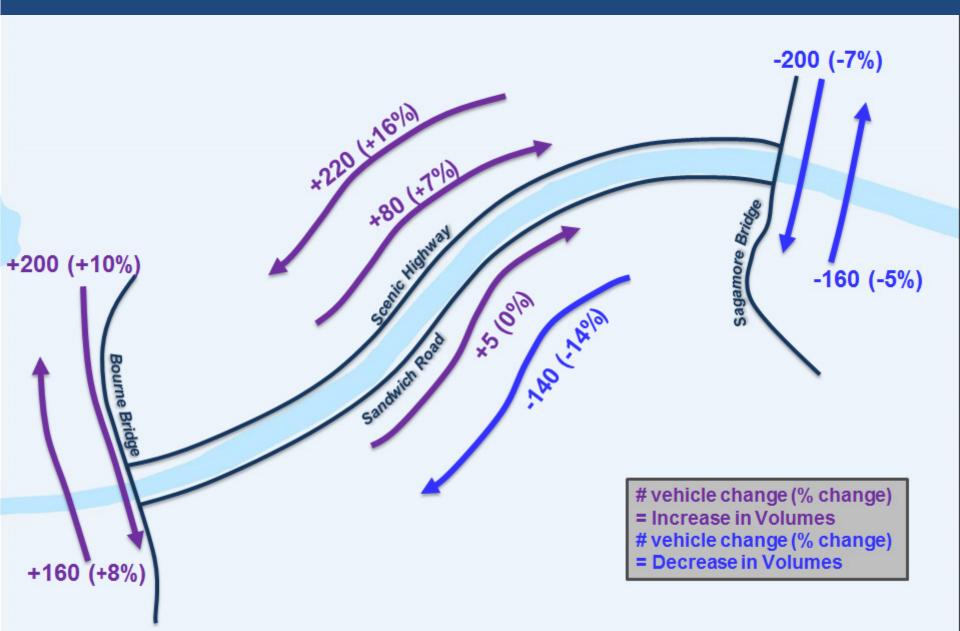
Case 3A – New Element Bourne Rotary Interchange.



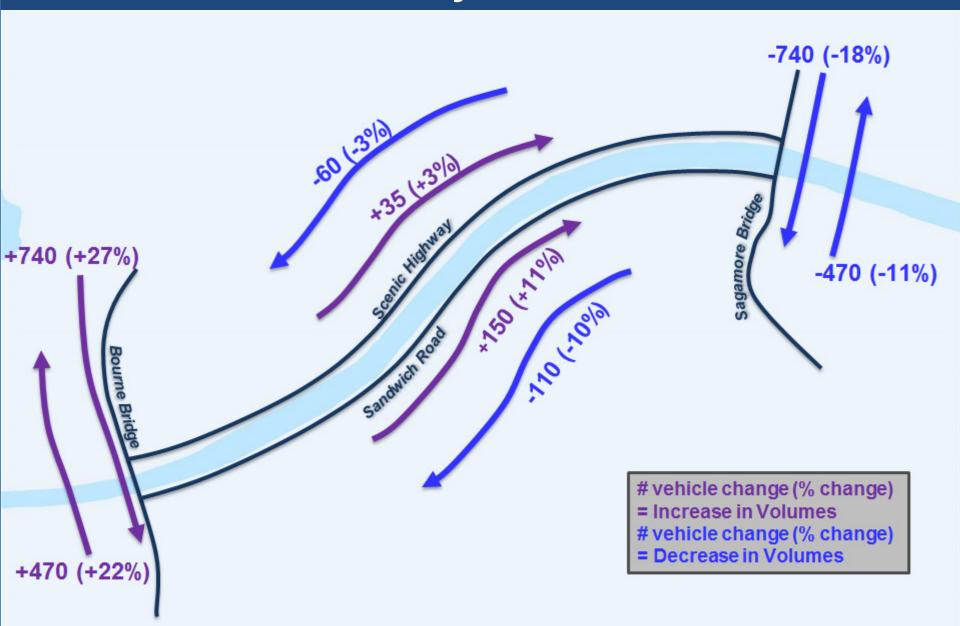
Travel Model Case 3 – Traffic Diversions.

- Traffic Diversions.
 - Shift from Sagamore Bridge to Bourne Bridge (more Summer than Fall).
 - Notable shift to Scenic Hwy from Sandwich Road in Fall.
 - Minor summertime increase in eastbound volumes on Scenic Hwy and Sandwich Road.

Travel Model Case 3A – Fall PM Traffic Diversions.



Travel Model Case 3A – Summer Saturday Traffic Diversions.



Case 3A – Belmont Circle Queues Comparison of Future (2040) No-Build and Case 3A Improvements

Travel Model Case 3A – Belmont Circle

LOS

Improves

A

F

A

C

C

A

F

B

Worsens

F

F

Average Quene

(feet)

90

15

5

30

70

120

2.935

610

5,725

4,630

2040 CASE 3A

Vehicle Delay

(sec)

26

7

4

14

26

32

274

157

359

267

LOS

C

A

A

B

C

C

F

F

F

F

Max. Queue

(feet)

390

355

205

385

395

550

6.235

1,370

6,020

9.155

Traffic Operation	ons.
BELMONT CIRCLE OPERATION	ONS

Traffic Operations.
RELMONT CIRCLE OPERATIONS

2040 NO BUILD

Vehicle Delay

(sec)

3

369

3

23

20

4

817

13

130

165

Max. Queue

(feet)

600

2,435

95

1.115

930

1,075

3,910

275

6,130

11.655

Average Queue

(feet)

5

1.120

0

130

140

35

2,495

30

3.140

4.825

Street Name

/Approach

Fall PM

Exit 3

Off Ramps

Road SB

Head of the Bay

Buzzards Bay

Main Street EB

Scenic Highway

Summer Saturday

Bypass EB

WB

Exit 3

Off Ramps

Road SB

Head of the Bay

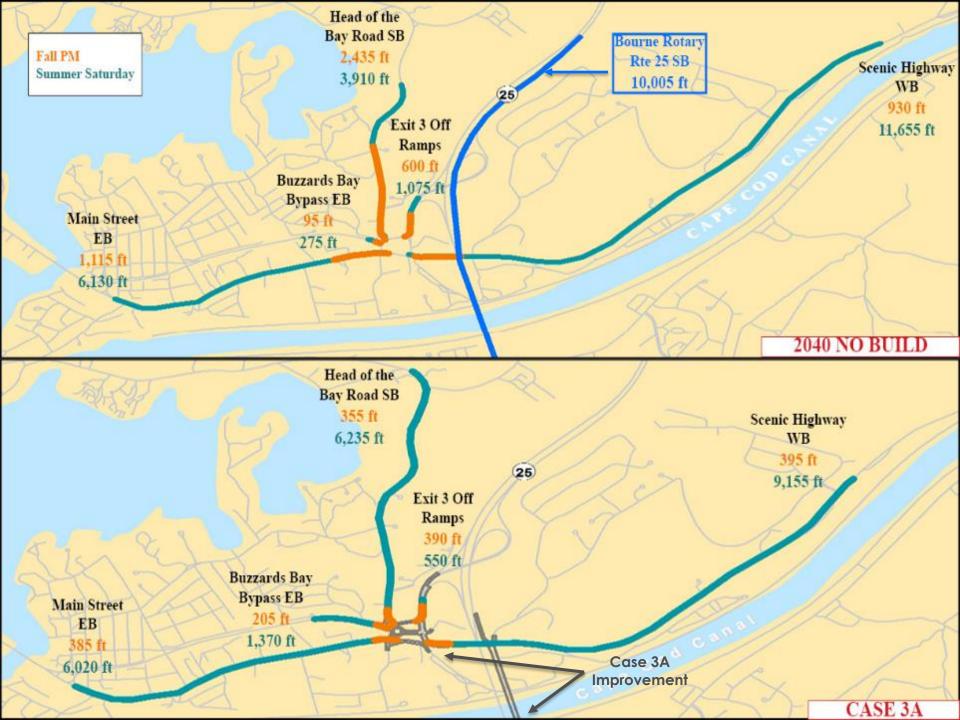
Buzzards Bay

Main Street EB

Scenic Highway

Bypass EB

WB



Case 3A – Bourne Rotary Queues Comparison of Future (2040) No-Build and Case 3A Improvements

Traval Madal Casa 2A Rourna Patary

Travel Model Case 3A - Bourne Rolary
Fall PM Traffic Operations.
BOURNE ROTARY OPERATIONS

2040 NO BUILD

Vehicle Delay

(sec)

82

345

81

38

LOS

F

F

F

E

Max. Queue

(feet)

2,135

4,480

1,335

2180

Average Queue

(feet)

790

1,765

395

480

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Street Name

/Approach

2040 No Build - Fall PM

Bourne Rotary Connector WB

2040 Case 3A - Fall PM

Trowbridge Rd & Veteran's Way

Veteran's Way & Old Sandwich Road

Bourne Rotary Connector & Old Sandwich Road

Exit 4 SB On Ramp/Trowbridge Road & Sandwich Rd

Exit 4 NB Off Ramp & Sandwich Rd Connector

Trowbridge Road & Exit 4 SB Off Rampw

Route 25 SB

Route 28 NB

Connector

Trowbridge Rd EB

2040 CASE 3A

Overall Delay

(sec)

6.8

11.0

22.6

3.8

14.0

9.3

Overall LOS

A

B

C

A

B

A

Max. Queue/

Approach with

Max. Queue

(feet)

72/SB

157/EB

365/EB

15/SB

66/NB

12/SB

Travel Model Case 3A – Bourne Rotary
Summer Saturday Traffic Operations.
ROURNE ROTARY OPERATIONS

2040 NO BUILD

Vehicle Delay

(sec)

341

398

264

149

LOS

F

F

F

F

Max. Queue

(feet)

10,005

4,405

5,910

9,085

Average Queue

(feet)

6,505

1,920

2,885

4,025

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Street Name

/Approach

2040 No Build - Summer Saturday

Bourne Rotary Connector WB

Trowbridge Rd & Veteran's Way

Veteran's Way & Old Sandwich Road

2040 Case 3A - Summer Saturday

Bourne Rotary Connector & Old Sandwich Road

Exit 4 SB On Ramp/Trowbridge Road & Sandwich Rd

Exit 4 NB Off Ramp & Sandwich Rd Connector

Trowbridge Road & Exit 4 SB Off Ramp

Route 25 SB

Route 28 NB

Connector

Trowbridge Rd EB

2040 CASE 3A

Overall Delay

(sec)

8.0

10.0

25.2

10.8

15.7

9.7

Overall LOS

A

B

C

В

C

Max. Queue/

Approach with

Max. Queue

(feet)

108/SB

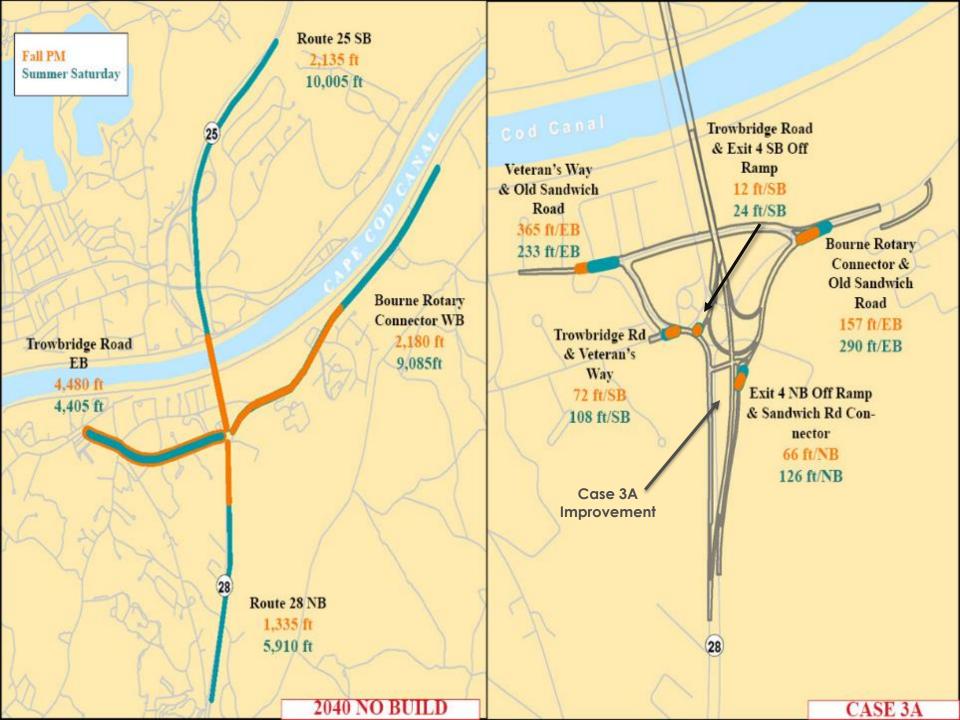
290/EB

233/EB

3/WB

126/NB

24/SB



Travel Model Case 3A – Overall Findings.

- Traffic Improvements.
 - Belmont Circle Notable Queue reductions during Fall weekday and Summer Saturday.
 - Bourne Rotary Substantial Queue reductions during Fall weekday and Summer Saturday.
- Remaining problem locations.
 - Belmont Circle Summer Saturday queues at Head of the Bay Road and Buzzards Bay Bypass.

Travel Model Case 3A – Overall Findings.

Improvements may reduce crash rates for vehicles, bicycles, and pedestrians.

- Crash rates may be reduced because:
 - Signalized intersections at Belmont Circle and Bourne Rotary.
 - Separation of traffic flow at Bourne Rotary Interchange (less merging).
 - Modern design of new bridges to include wider lanes, shoulders, sidewalks.



Next Steps.

- Solicit Input from the Working Group
- Complete Alternatives Analysis/Evaluation
 Criteria Matrix
- Working Group Meeting in August 2017



Study Schedule.

	2016							2017											
	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov		
TASK 3 Alternatives Development) Va				
Working Group Meeting			•																
PublicMeeting												39							
TASK 4 Alternatives Analysis Mobility/Accessibility Analysis																			
Safety Analysis																			
Environmental Effects Analysis																			
Land Use/Economic Development																			
Community Effects/TitleVI/EJ														1					
Cost Analysis																			
Working Group Meeting							٠					٠							
Public Meeting													٠						
TASK 5 Recommendations																			
Draft report																			
Working Group Meeting																			
PublicMeeting															٠				
TASK 6 Final Report																			





End of Presentation.

