

Thank you for joining us.







Zoom Webinar Controls for Meeting



• Raise your hand – *9 for users dialing in









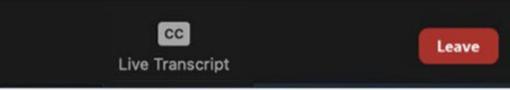
• Use the View button in the upper right-hand corner to adjust the meeting view settings to your preference



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Public Meeting Notes and Procedures Notification of Recording

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By continuing attendance with this virtual public meeting, you consent to \bullet participate in a recorded event.

Other Important Notes

- Your microphone and webcam are automatically disabled upon entering this \bullet hearing.
- The meeting will be open to questions and answers at the end of the formal ulletpresentation.
- Please take time to respond to our survey! Your feedback is important. lacksquare

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- All MassDOT activities, including public meetings, are free of discrimination.
- MassDOT complies with all federal and state civil rights requirements preventing discrimination based on sex, race, color, ancestry, national origin (limited English proficiency), religion, creed, gender, sexual orientation, gender identity or expression, or veteran's status.
- We welcome the diversity from across our entire service area. If you have any questions or concerns, please visit <u>https://www.mass.gov/nondiscrimination-in-transportation-program</u> to reach the Office of Diversity and Civil Rights.

All questions and comments are welcome and appreciated; however, we do request that you refrain from any disrespectful comments.

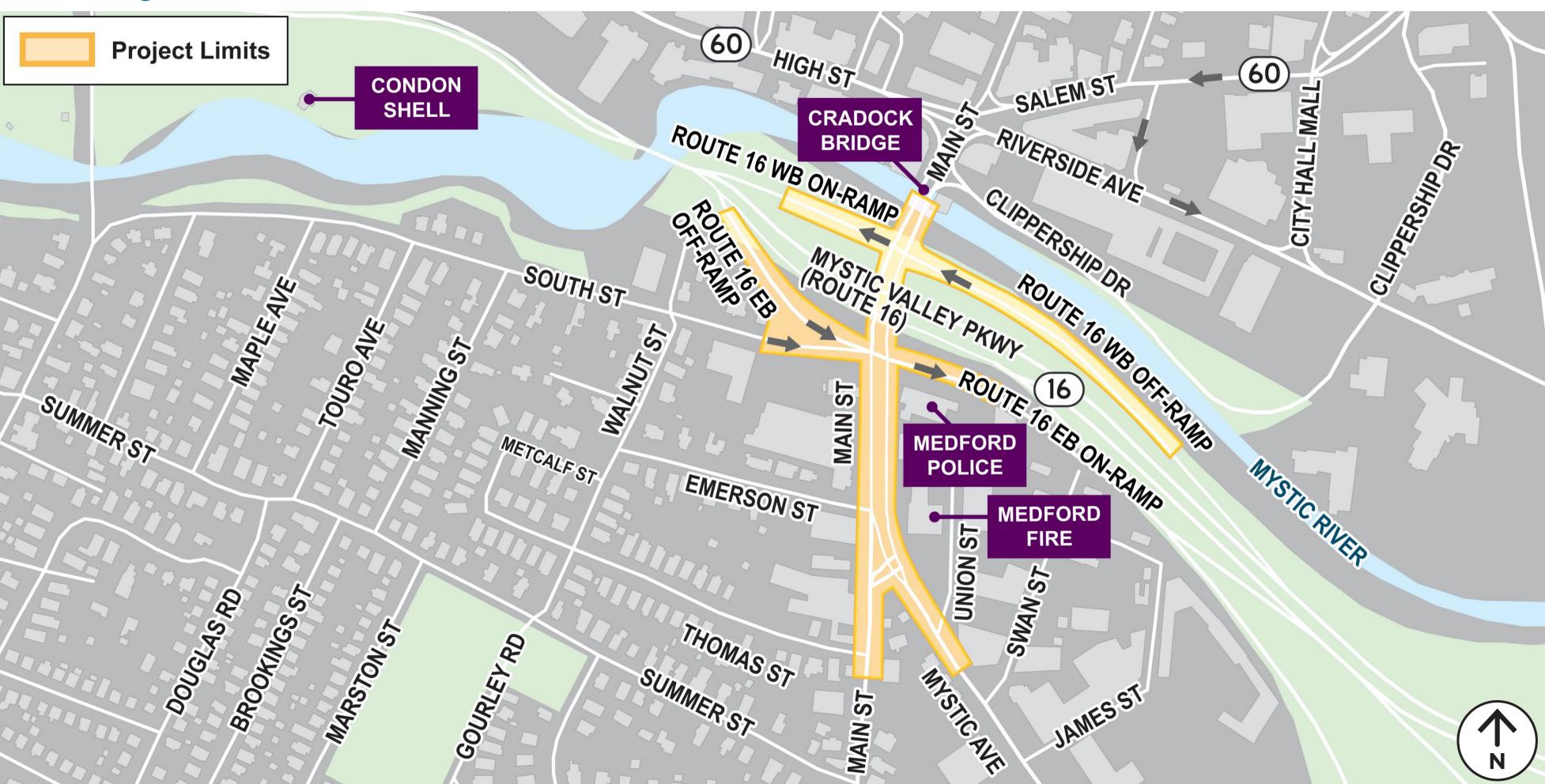


Agenda

- **01** Project Location
- 02 Project Initiation
- **03** Existing Conditions
- 04 Project Goals
- **05** Alternatives Analysis
- 06 Proposed Design
- 07 Next Steps
- **08** Questions & Discussion



Project Location



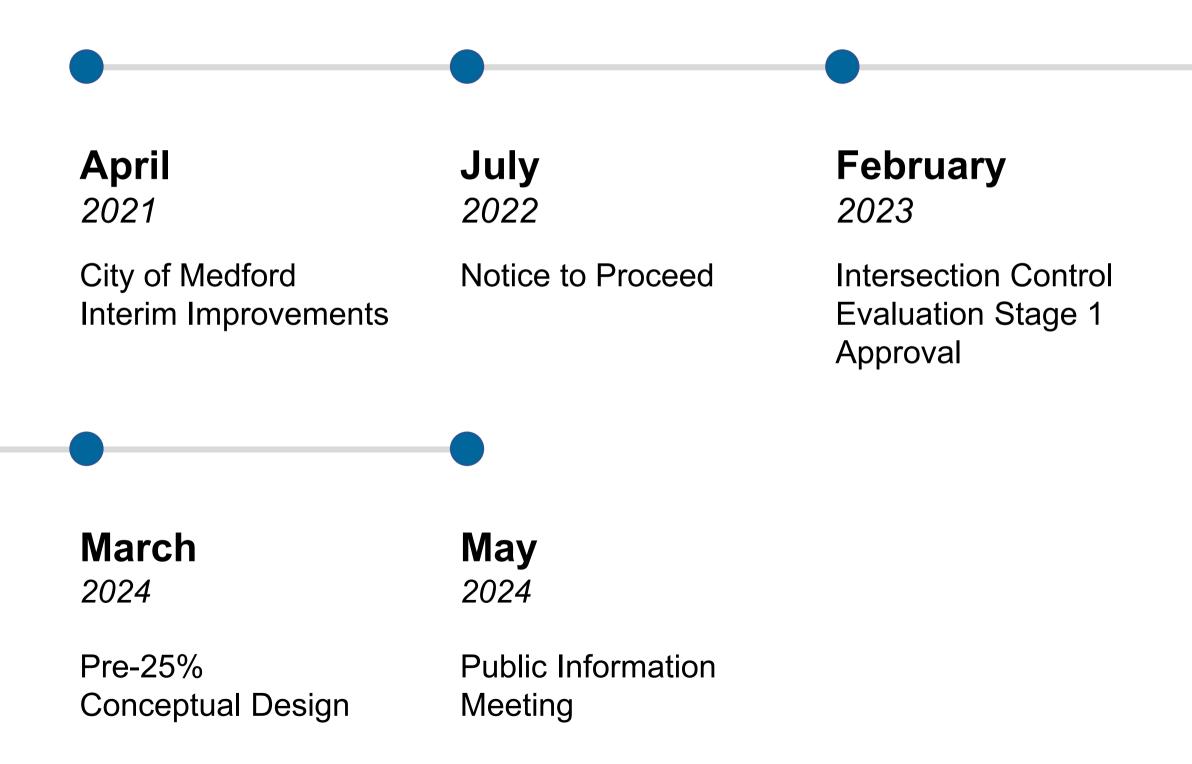
Presentation Participants

MassDOT

- Greg Frazier, Project Manager
- Michael Ruderman, Right-of-Way
- Kayla Sousa and Leah Grodstein, Producers
- Brian Fallon, District 4
- City of Medford
 - Todd Blake, Director of Traffic & Transportation
- Designer
 - Jessica Lizza, Howard Stein Hudson
 - Grady Granville, Howard Stein Hudson



How did we get here



Summer 2023

City of Medford Interim Curbing & Bicycle Facilities

Summer 2023-February 2024

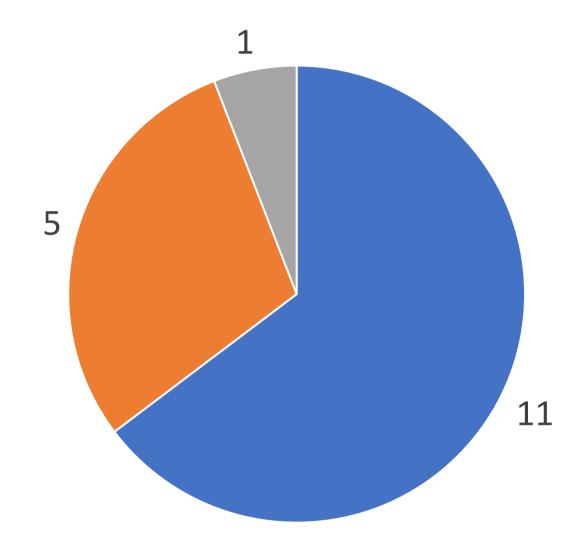
Intersection Control Evaluation Continued

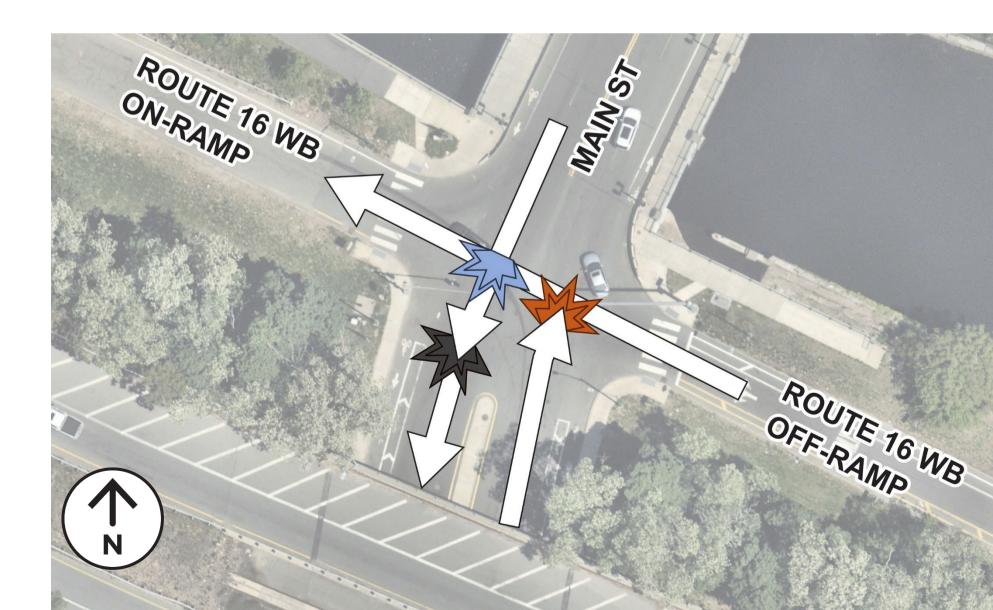




Why was this project initiated?

High Crash Location Main Street at Route 16 WB Ramps

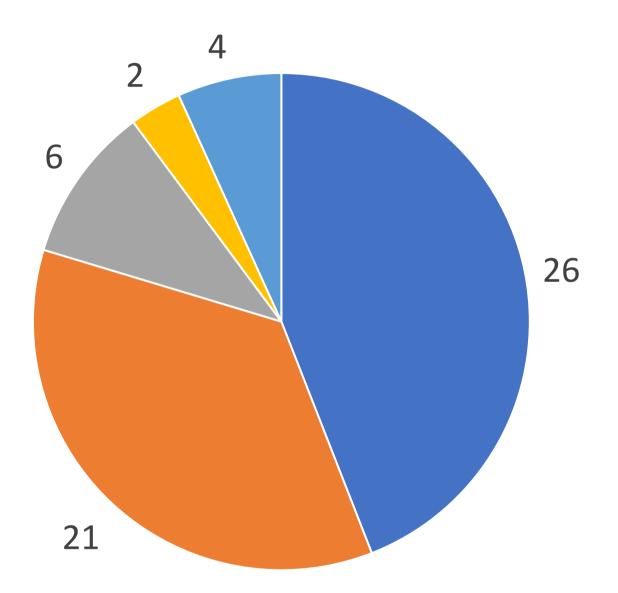




- 11 Crashes Rte16 WB off-ramp & Main Street SB
- 5 Crashes Rte16 WB off-ramp & Main Street NB
- 1 Crash Main Street SB Rear-End

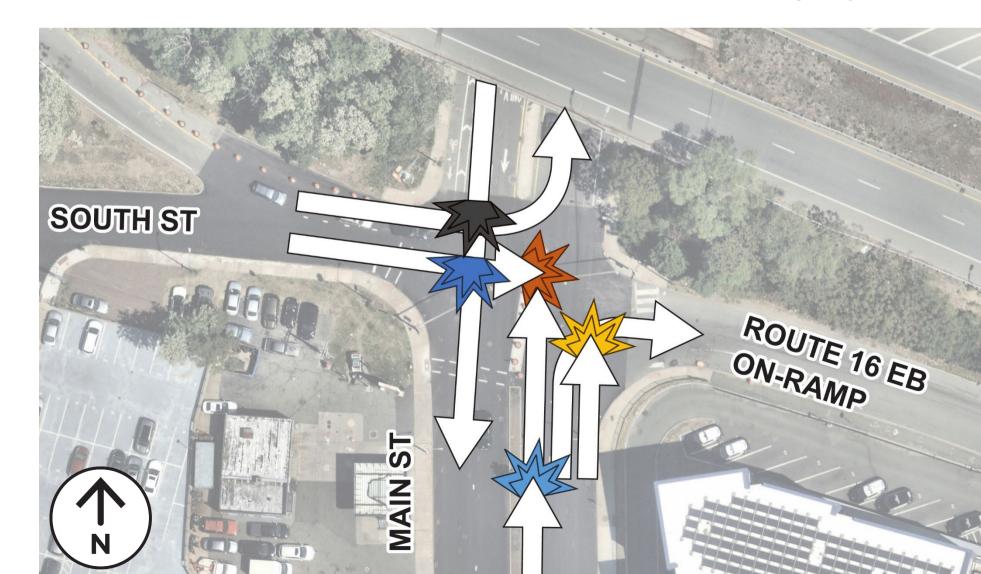
From 2017-2019, 21 collisions were recorded: 81% of collisions were angle crashes • 29% of collisions resulted in personal injury

High Crash Location Main Street at Route 16 EB Ramps/ South Street

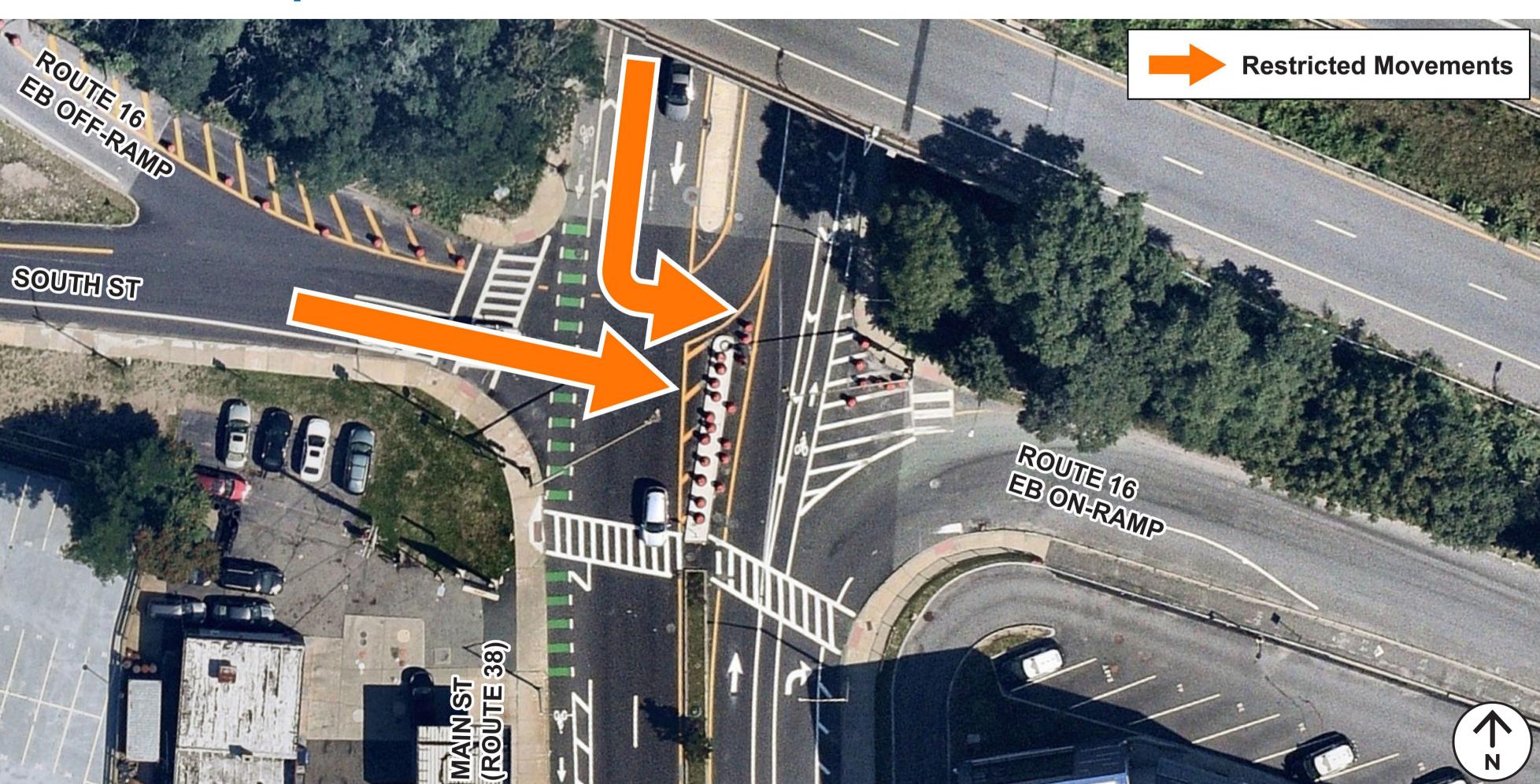


26 Crashes - South Street EB & Main Street NB 21 Crashes - South Street EB & Main Street SB ■ 6 Crashes - South Street left turns & Main Street NB 2 Crashes - Main Street right turns & Bikes NB 4 Crashes - Main Street NB Rear-Ends

- From 2017-2019:
- 78 reported collisions
- 68% of collisions were angle collisions
- 4% of collisions involved a pedestrian or bicyclist • 22% of collisions resulted in personal injury



Interim Improvements



Main Street at Mystic Avenue/Emerson Street

Main Street at Mystic Avenue:

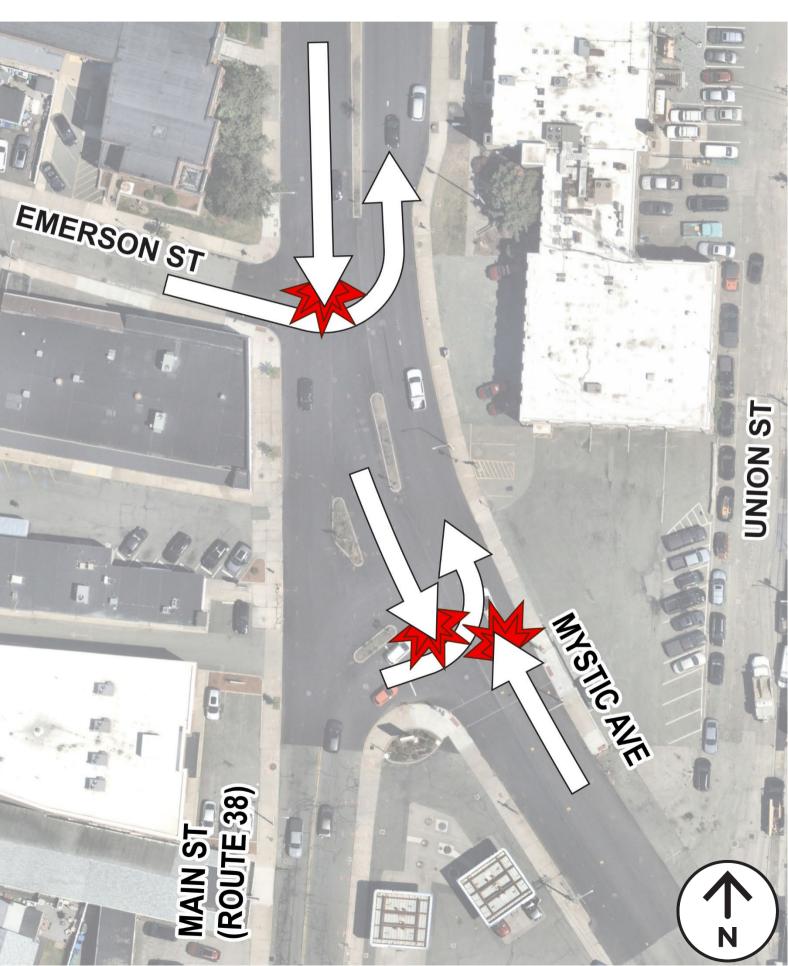
From 2017-2019, 17 collisions were recorded:

 41% of collisions involved a left-turning vehicle from Main Street stop-controlled approach

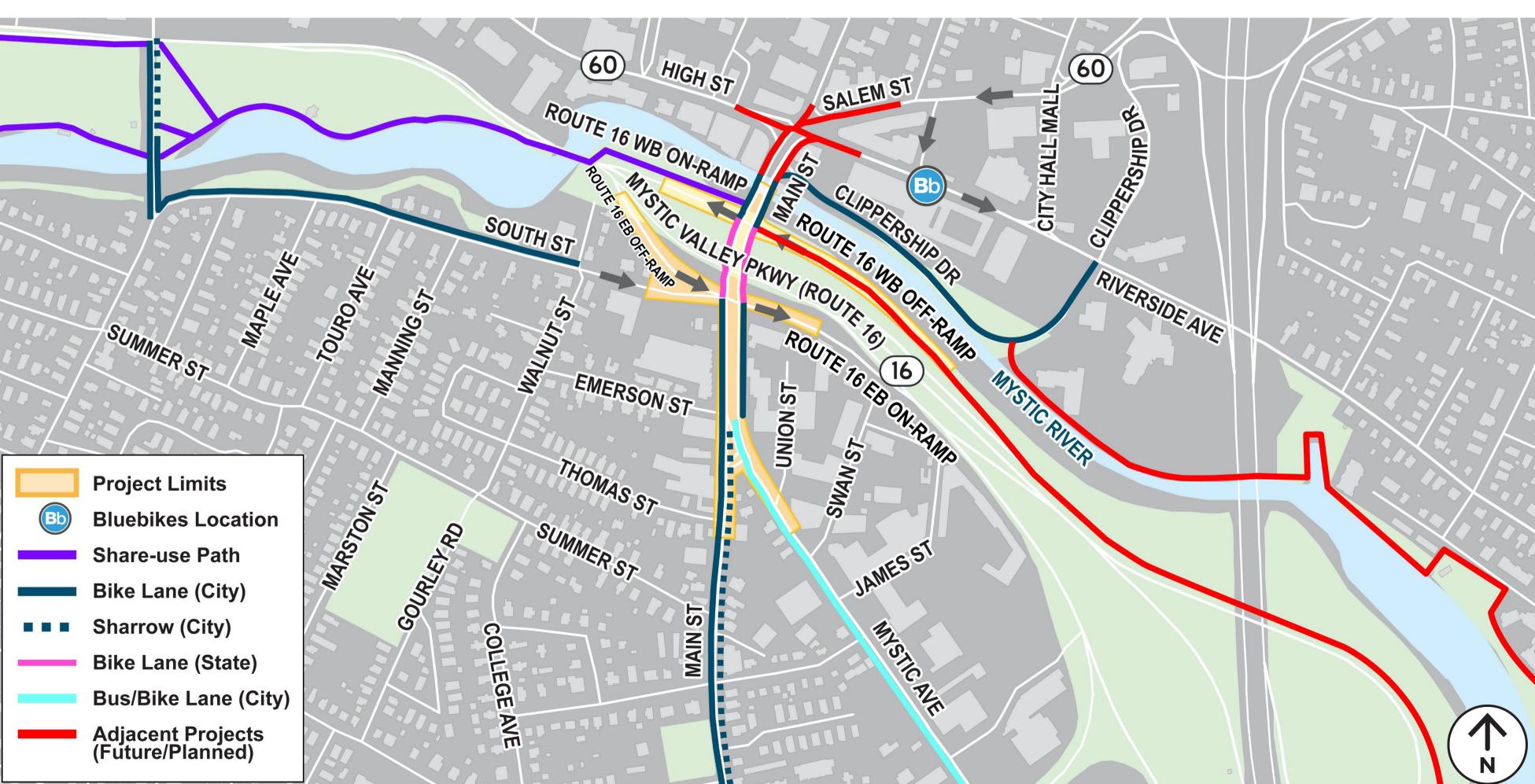
Main Street at Emerson Street:

From 2017-2019, 14 collisions were recorded:

- 79% crashes occurred between southbound vehicles on Main Street and left-turning vehicles from **Emerson Street**
- 1 crash involved a pedestrian crossing Main Street on the crosswalk



Bike Network





What do we want to accomplish?

Project Goals

- Improve safety for people walking, biking, and driving through project area \bullet
- Improve intersection connections for people walking and biking
- Maintain acceptable traffic operations lacksquare

Project Considerations

- South Medford Connector Project (MassDOT Project #612499)
- Medford Square, City of Medford Project •
- City of Medford Fire Department
- MassDOT Statewide Pedestrian and Bicycle Plans; City of Medford Complete Streets ulletPolicy
- MassDOT Healthy Transportation Policy Directives

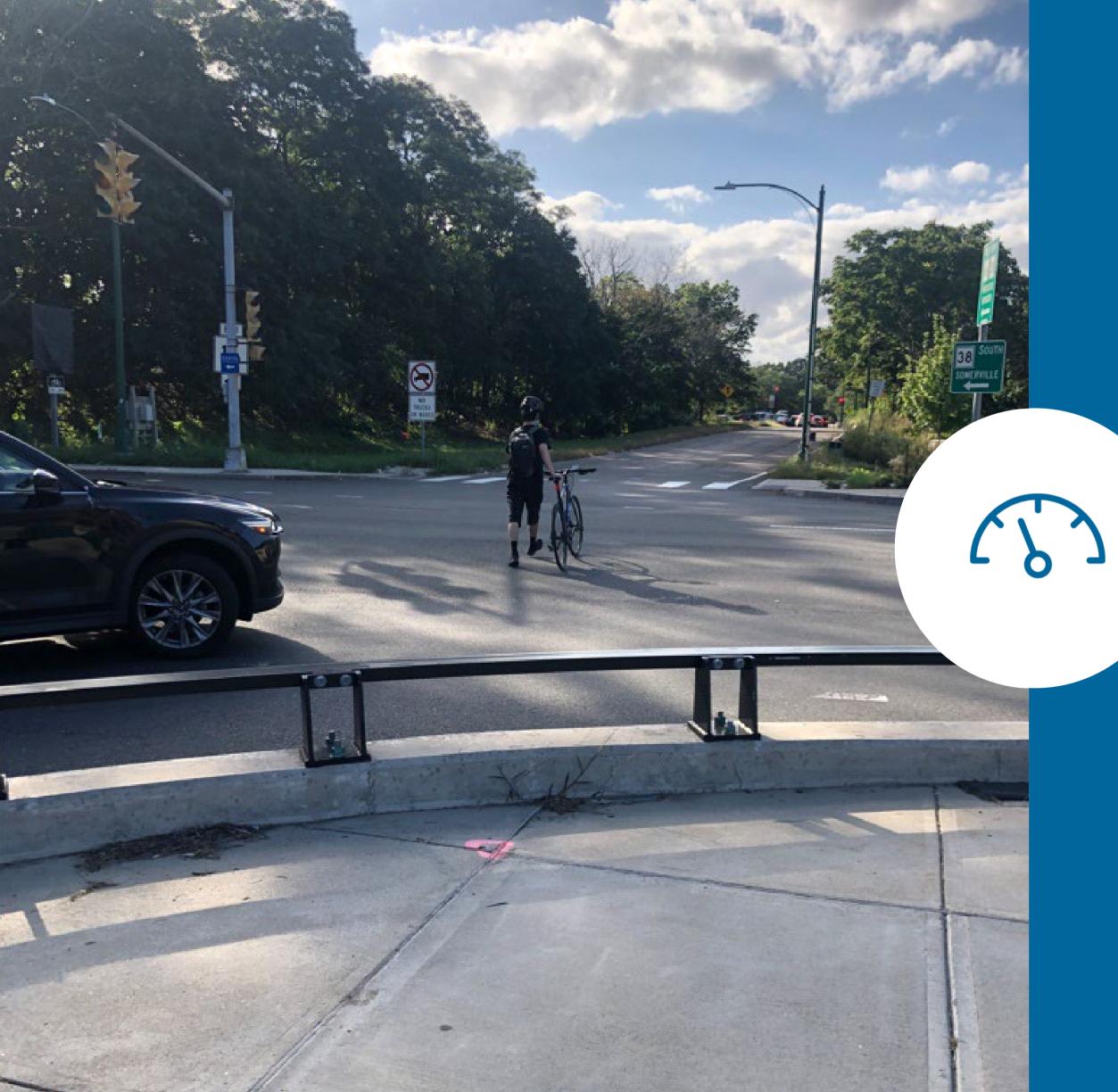




Project Scope

- Reconstruct the intersections of:
 - Main Street/Route 16 Westbound Ramps
 - Main Street/South Street/Route 16 Eastbound Ramps
 - Main Street/Mystic Avenue/Emerson Street
- Roadway realignment to encourage safe speeds/improve ped-bike visibility
- Roadway resurfacing and restriping lacksquare
- Pedestrian sidewalk and curb ramp reconstruction \bullet
- Buffered bicycle lanes and share-use path construction lacksquare





What alternatives were considered?

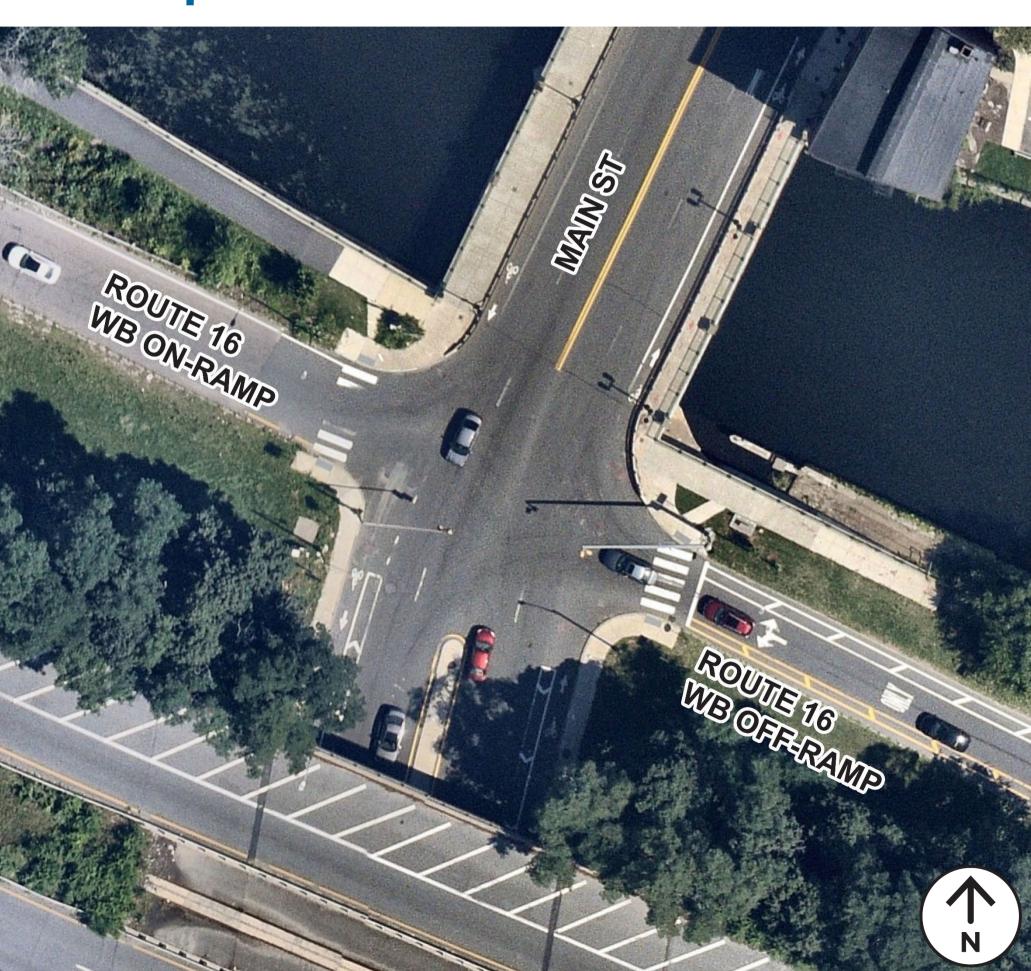
Main Street at Route 16 Westbound Ramps

Intersection Control:

- Signalized Intersection
- Modern Roundabout

Pedestrian/Bike Facilities:

- Shared Use Paths
- Separated Bike Lanes

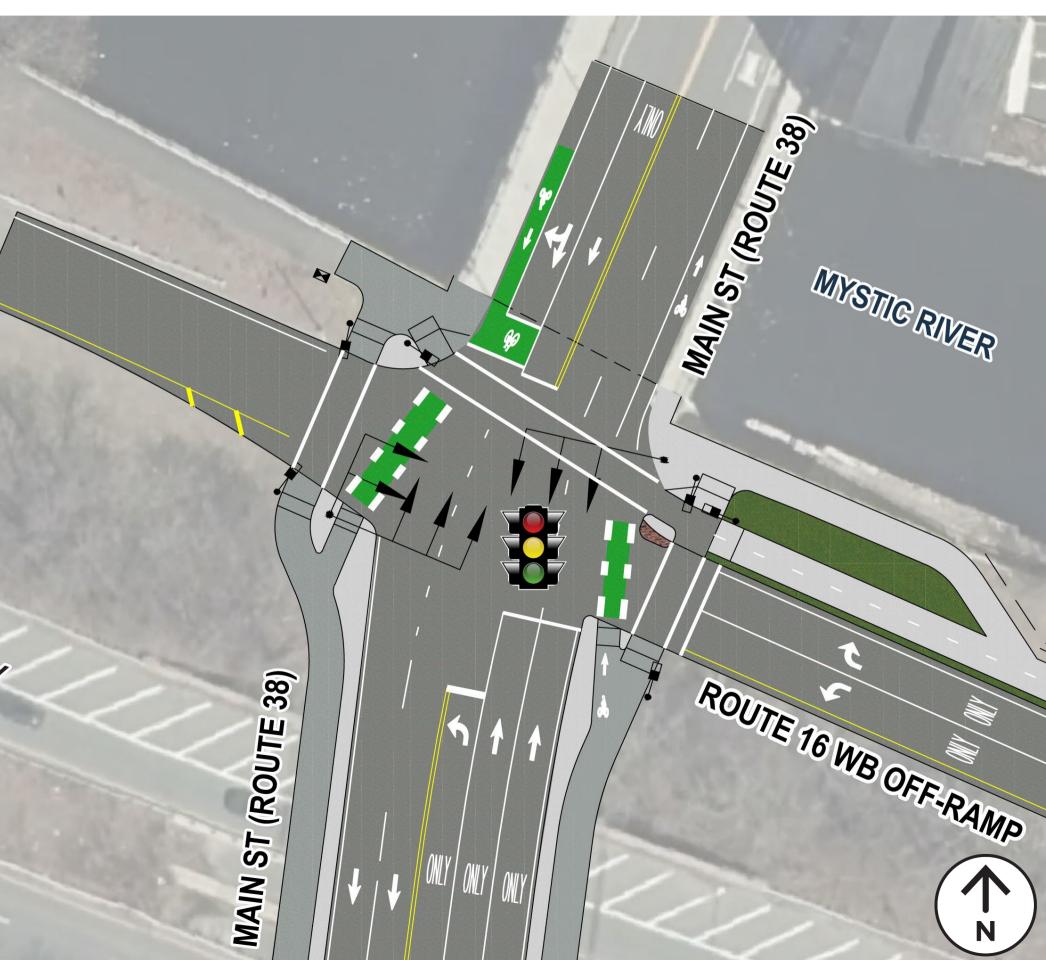


Main Street at Route 16 Westbound Ramps Signalized Alternative Overview:

- Signalized control on all approaches to address factors of collision trends
- Improves ped/bike network
 connections via shared-use paths
- Provides critical east-west crosswalk
 without impacting Cradock Bridge
- Provides northbound left-turn pocket

Challenges:

 Delayed pedestrian cycle due to concurrent phasing

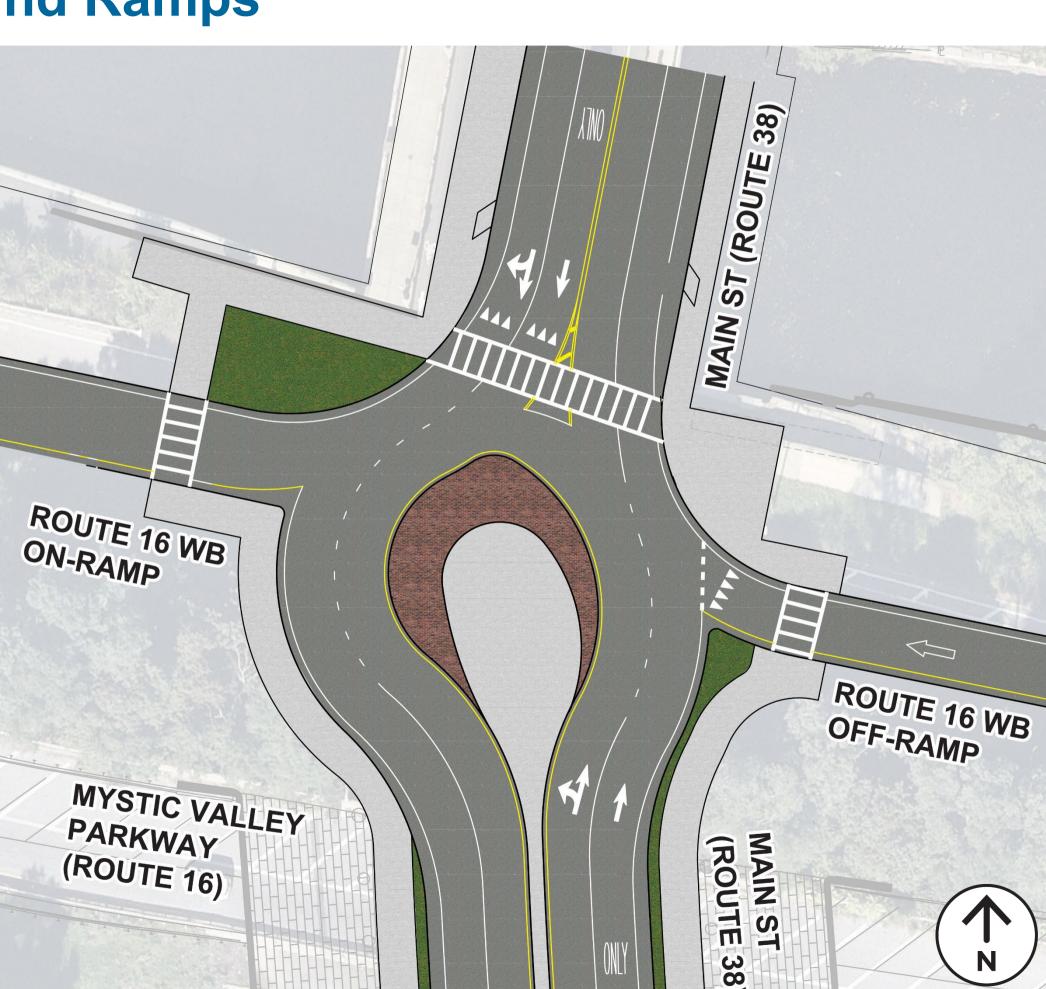


Main Street at Route 16 Westbound Ramps Modern Roundabout Alternative

Overview:

- Introduces U-turn movement on Main
 Street from northbound to southbound
- Provides traffic calming and encourages speed reduction

- Lacks deflection needed to manage speeds
- Impacts to Cradock Bridge rail and Route 16 overpass bridge piers
- Lacks pedestrian refuge at unsignalized east-west crosswalk



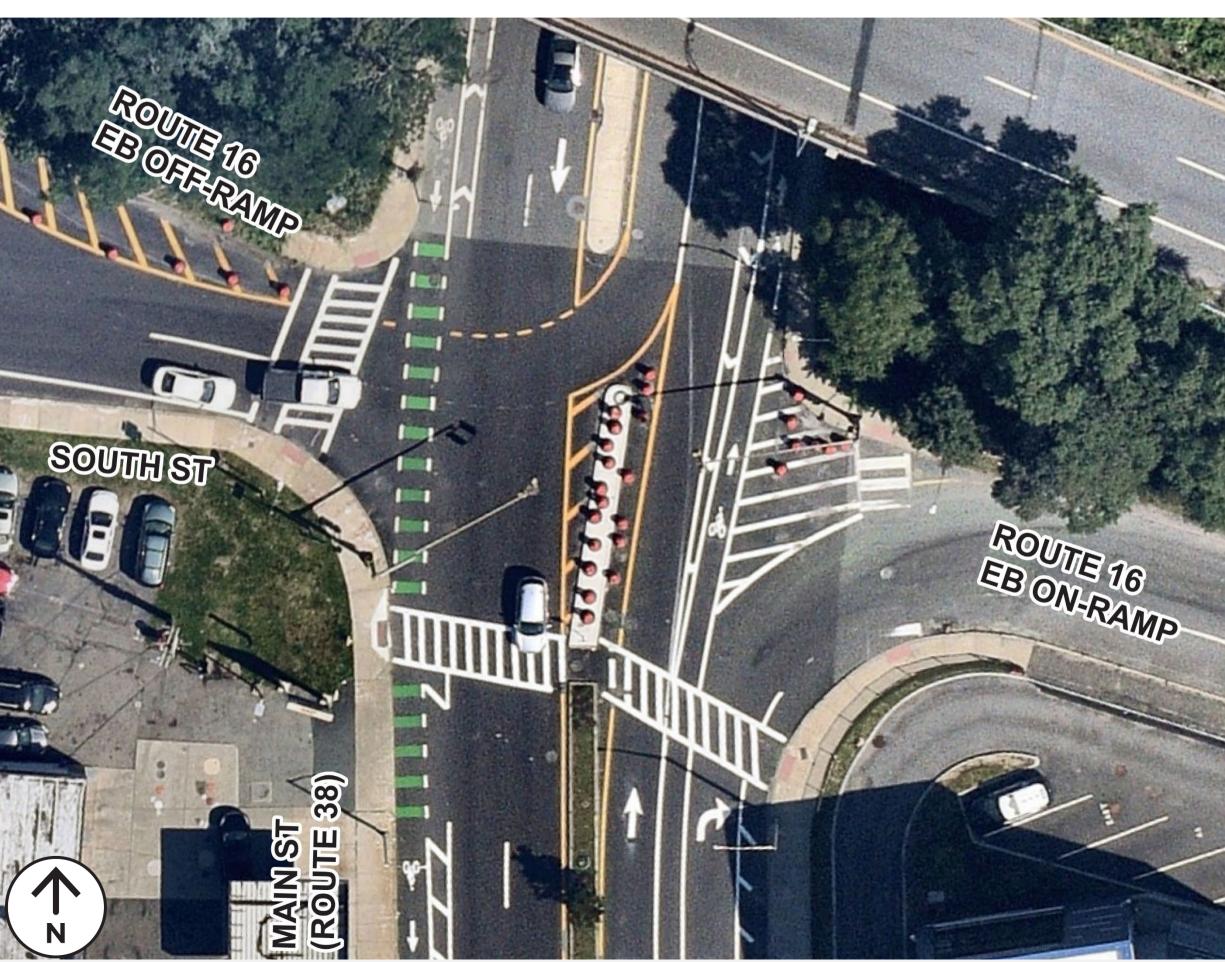
Main Street at South Street/Route 16 Eastbound Ramps

Intersection Control:

- Signalized Alternative 1
- Signalized Alternative 2
- Modern Roundabout

Pedestrian/Bike Facilities:

- Shared Use Paths
- Separated Bicycle Lanes

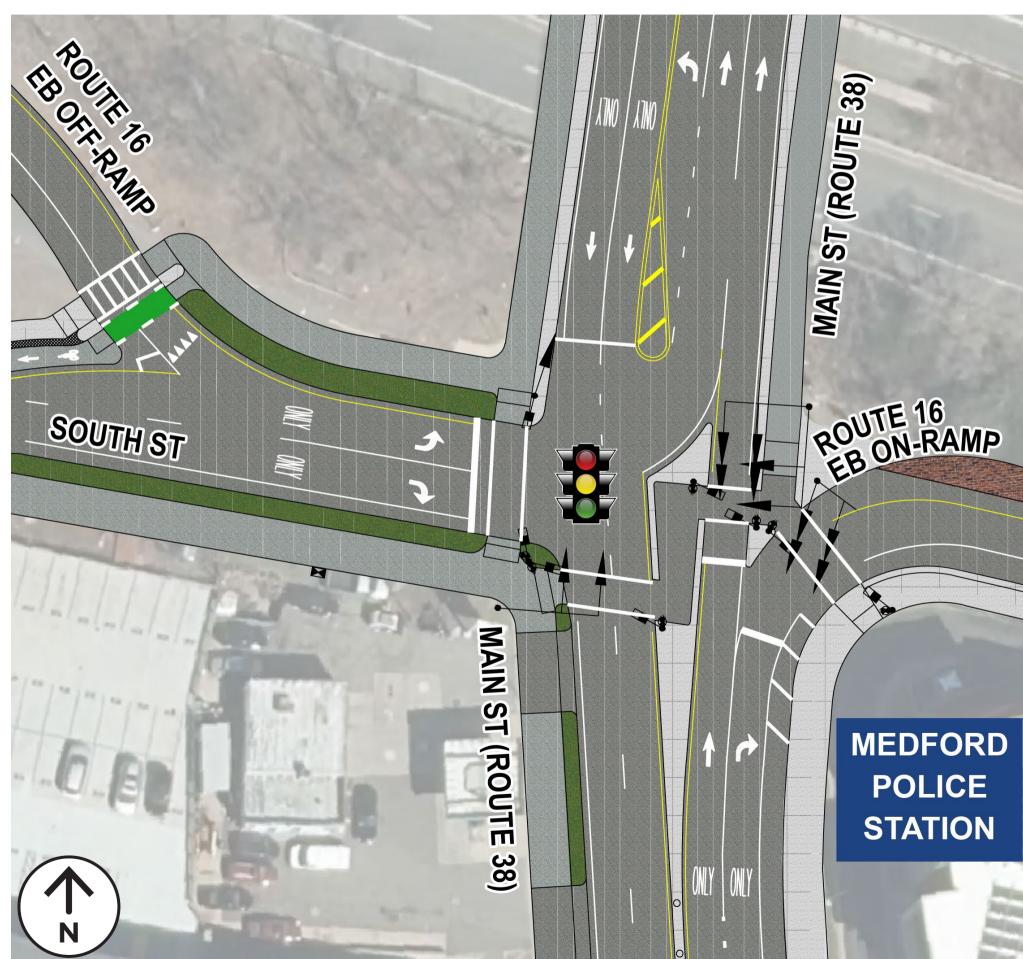


Main Street at South Street/Route 16 Eastbound Ramps Signalized Alternative 1

Overview:

- Signalized control on eastbound and southbound approaches
- Enhances interim improvements to address factors of collision trends
- Improves bike network connections via shared-use paths

- Delayed pedestrian cycle due to concurrent phasing
- Maintains weaving on northbound departure (no recorded crashes)

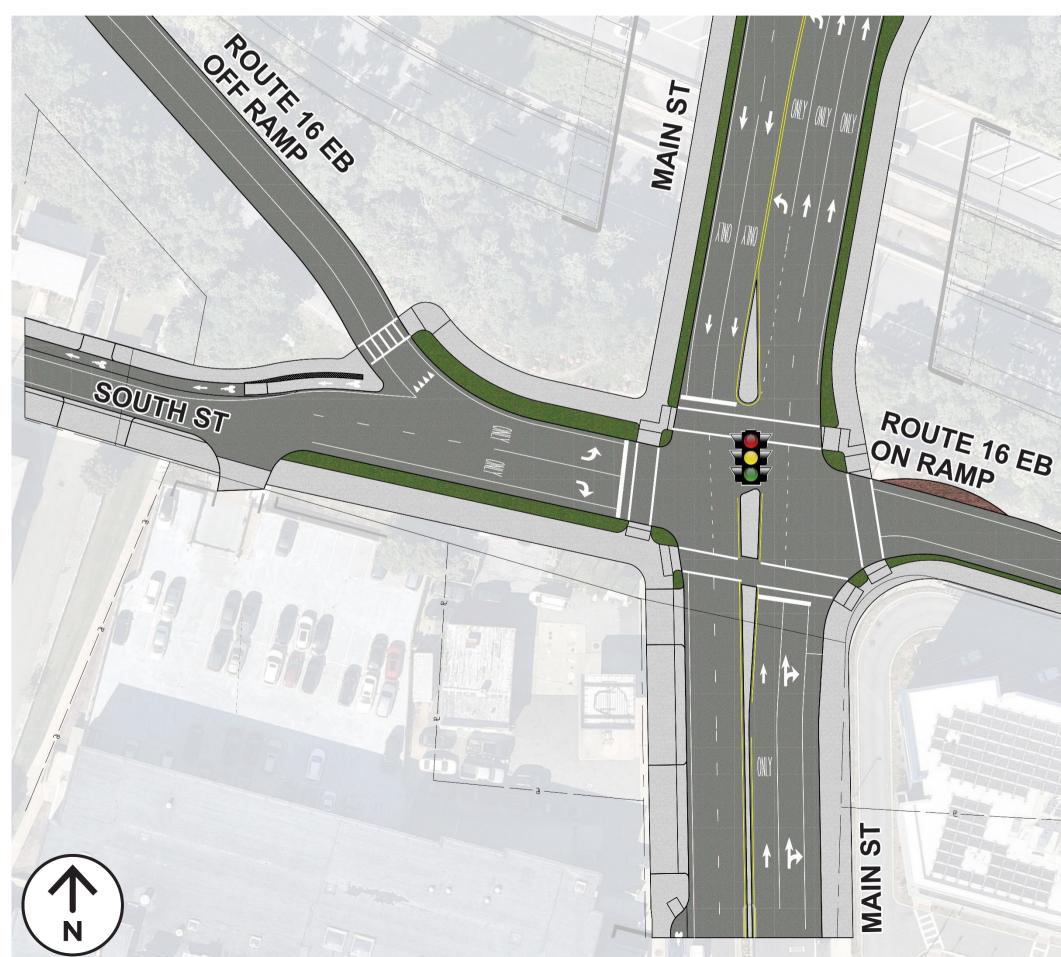


Main Street at South Street/ Route 16 Eastbound Ramps Signalized Alternative 2

Overview:

- Signalized control on all approaches
- Enhances interim improvements to address factors of collision trends
- Improves bike network connections via shared-use paths

- Delayed pedestrian cycle due to concurrent phasing
- No physical restriction for southbound left turns (high crash historical trend)

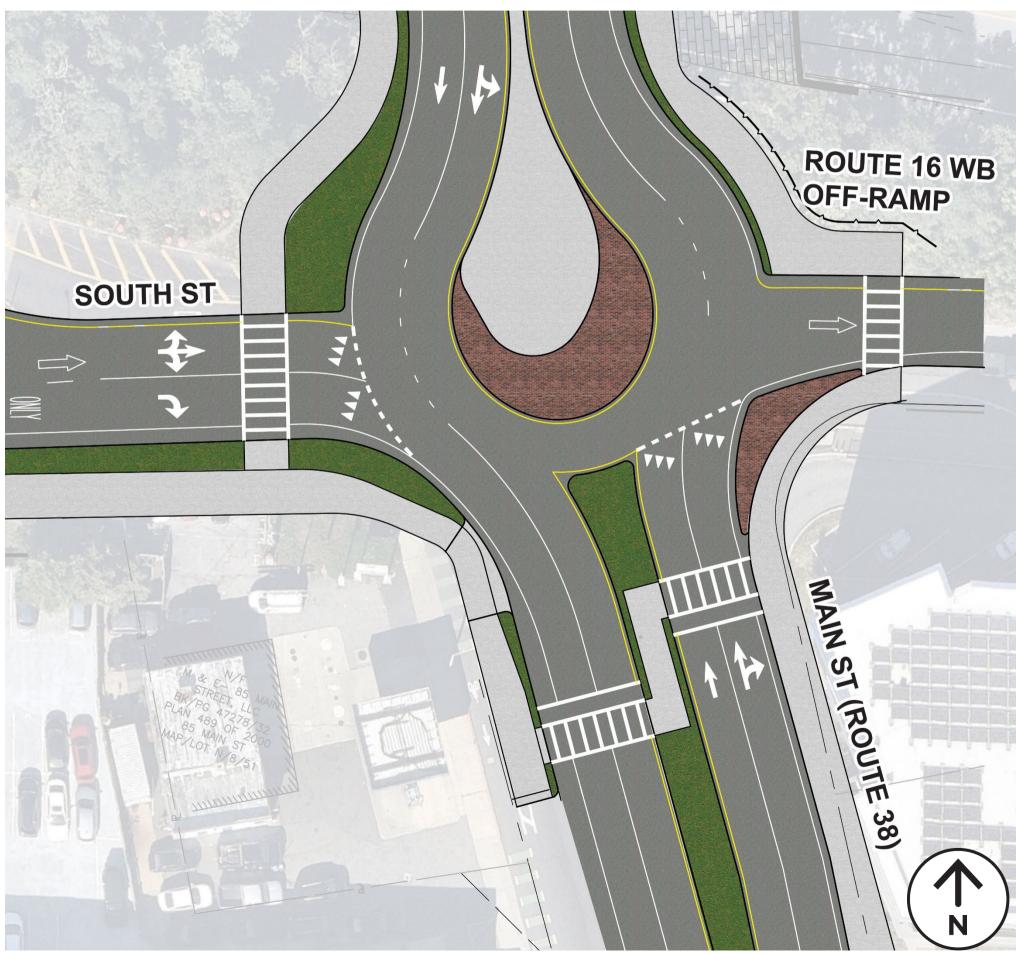


Main Street at South Street/ Route 16 Eastbound Ramps Modern Roundabout Alternative

Overview:

 Introduces U-turn and left-turn movement on Main Street
 from southbound travel

- Lacks deflection needed to manage speeds and side swipe crashes
- Impacts to Route 16 overpass bridge piers



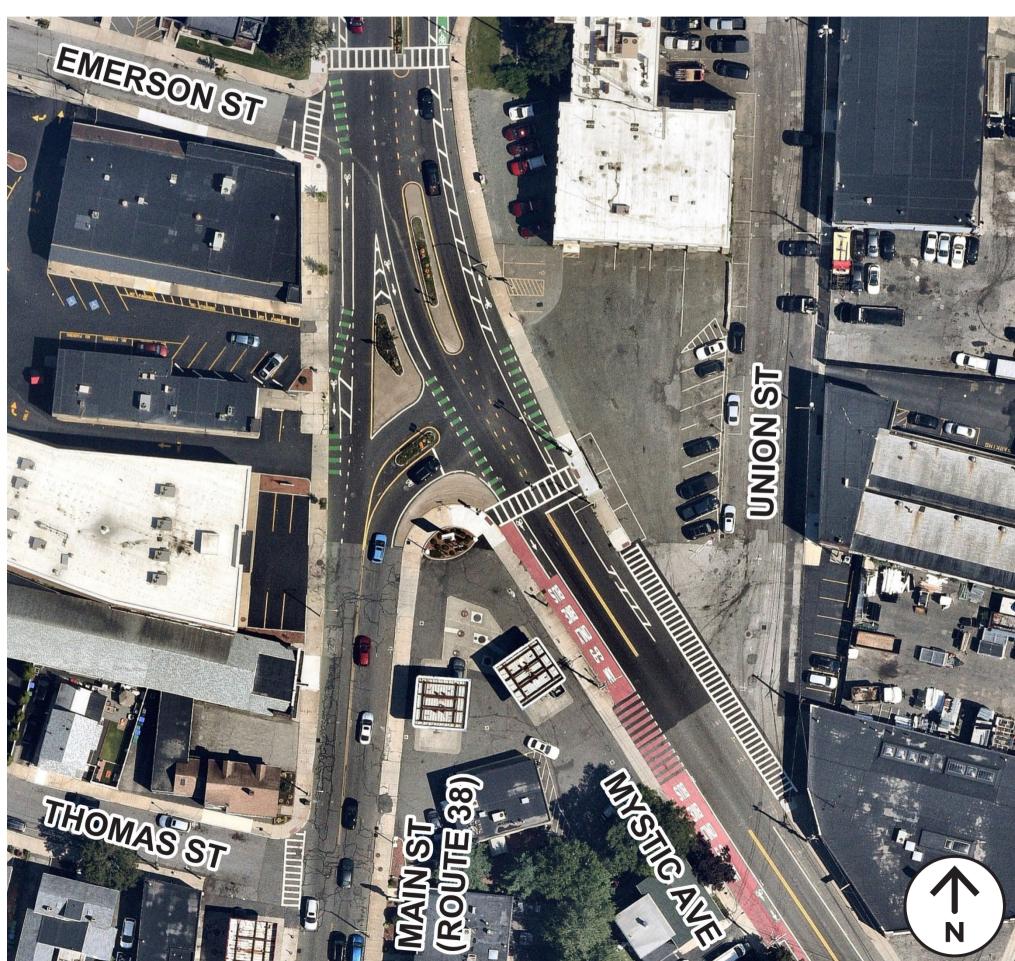
Main Street at Mystic Avenue and Emerson Street

Intersection Control:

- Signalized Intersection
- Modern Roundabout

Pedestrian/Bike Facilities:

- Shared Use Paths
- Separated Bike Lanes



Main Street at Mystic Avenue and Emerson Street Signalized Alternative

Overview:

- Signalized control on all approaches
- Buffered bike facilities to provide additional comfort to cyclists

Challenges:

 Delayed pedestrian cycle due to concurrent phasing

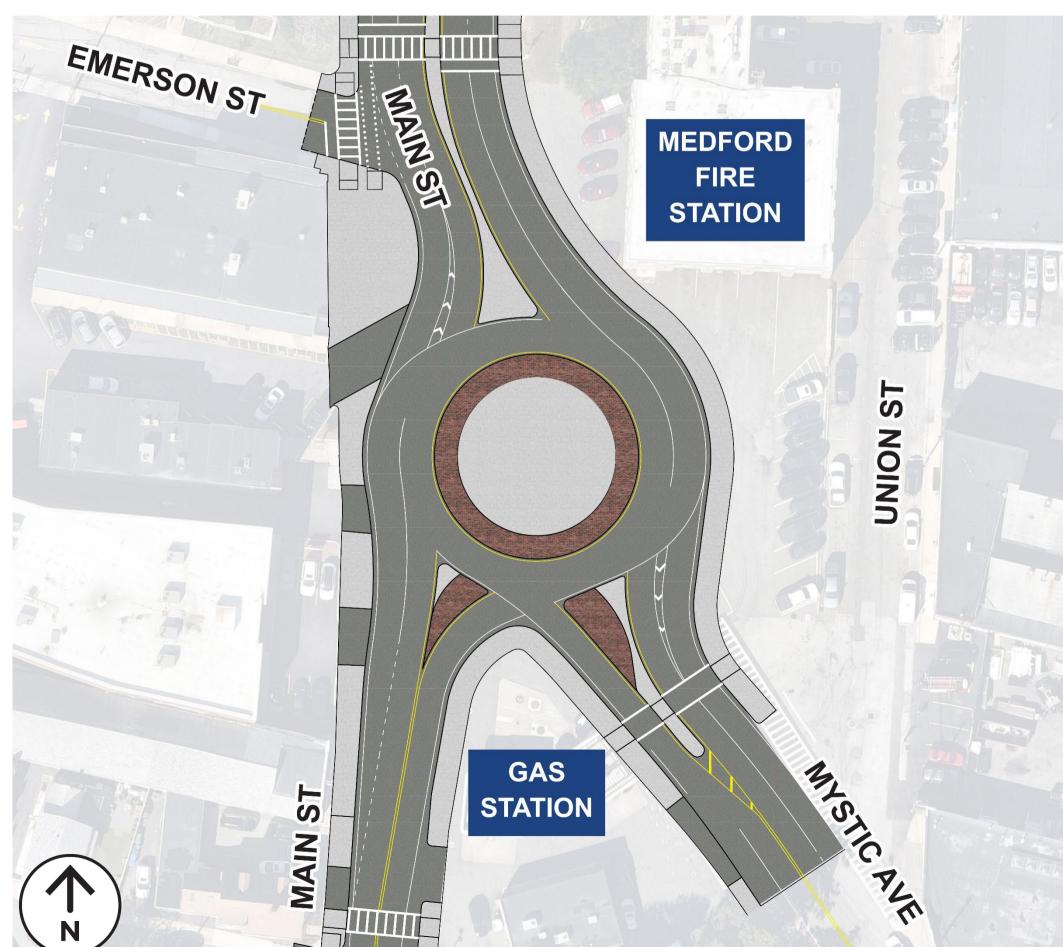


Main Street at Mystic Avenue and Emerson Street Modern Roundabout Alternative

Overview:

 Roadway geometry provides deflection and curvature to manage vehicular speeds

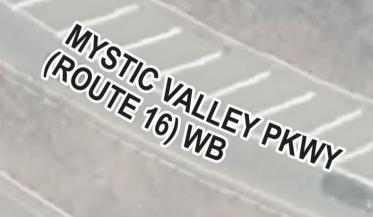
- Permanent ROW impacts (approx. 9,880 sf) on Medford Fire and adjacent gas station
- Environmental concern with underground storage gas tanks
- Narrow shared-use paths





What is the preferred alternative?

Proposed Design: Main Street at Route 16 Westbound Ramps



MYSTIC VALLEY PKWY

Ν

ROUTE 16 WB ON-RAMP





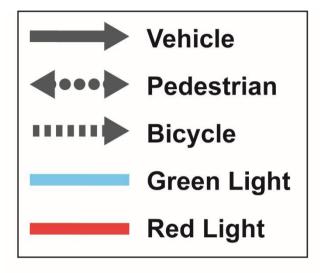
ROUTE 16 WB OFF-RAMP

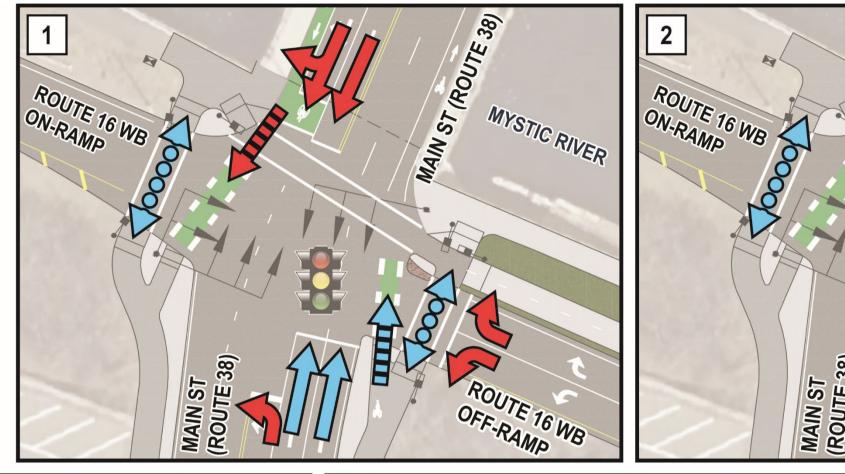
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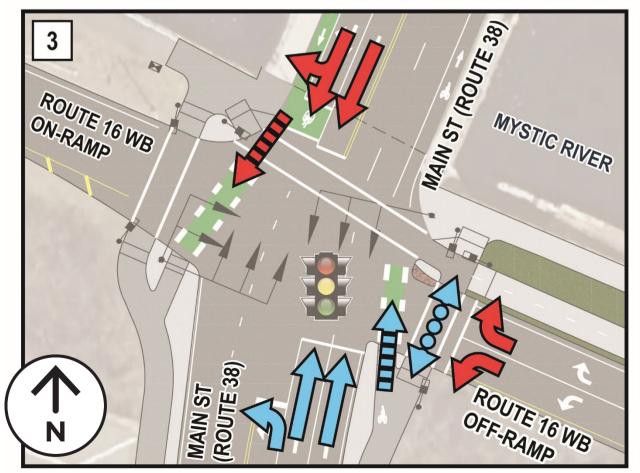
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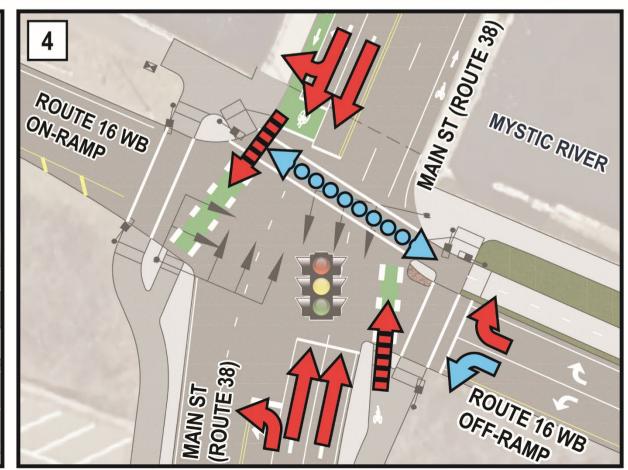


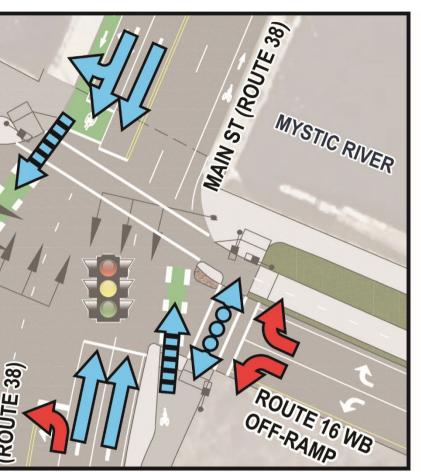
Main Street at Route 16 Westbound Ramps Intersection Phasing





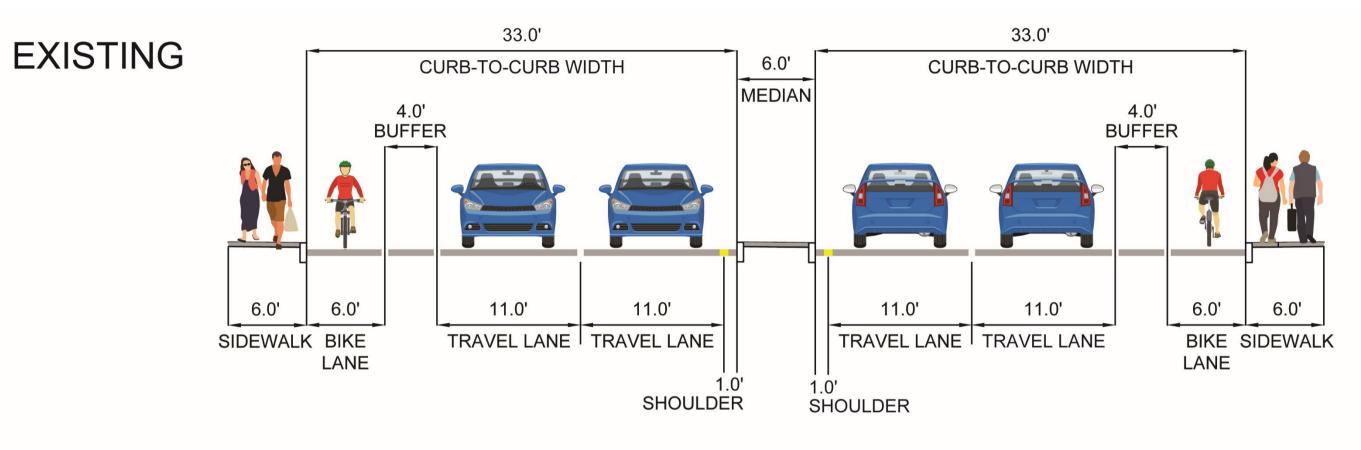


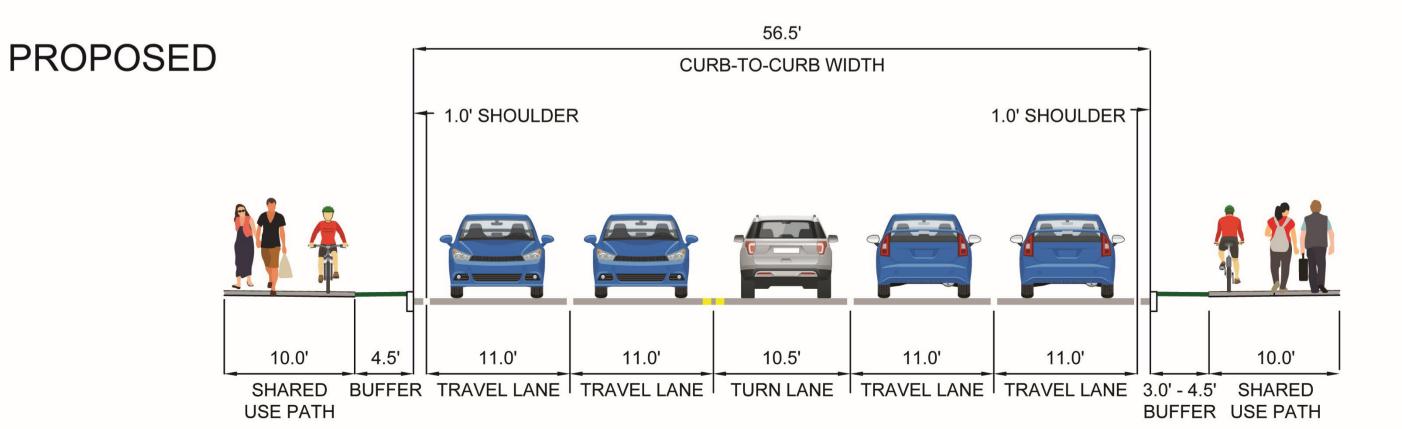




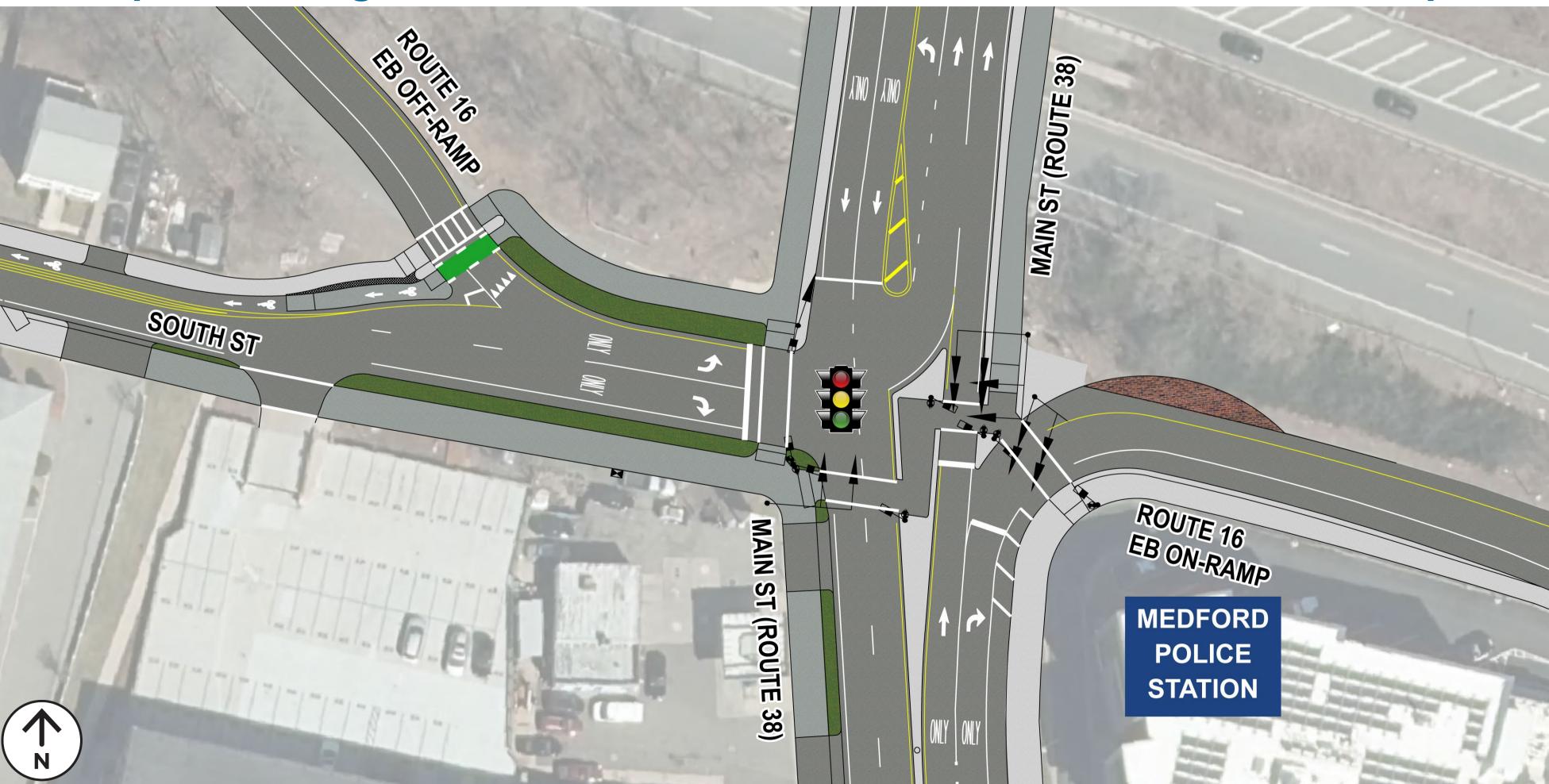
MAIN ST (ROUTE 38) 5 ROUTE 16 WB MYSTIC RIVER 38) ROUTE 16 WB MAIN ST OFF-RAMP ROU

Main Street: Under Route 16 Overpass

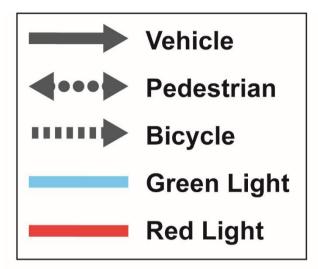


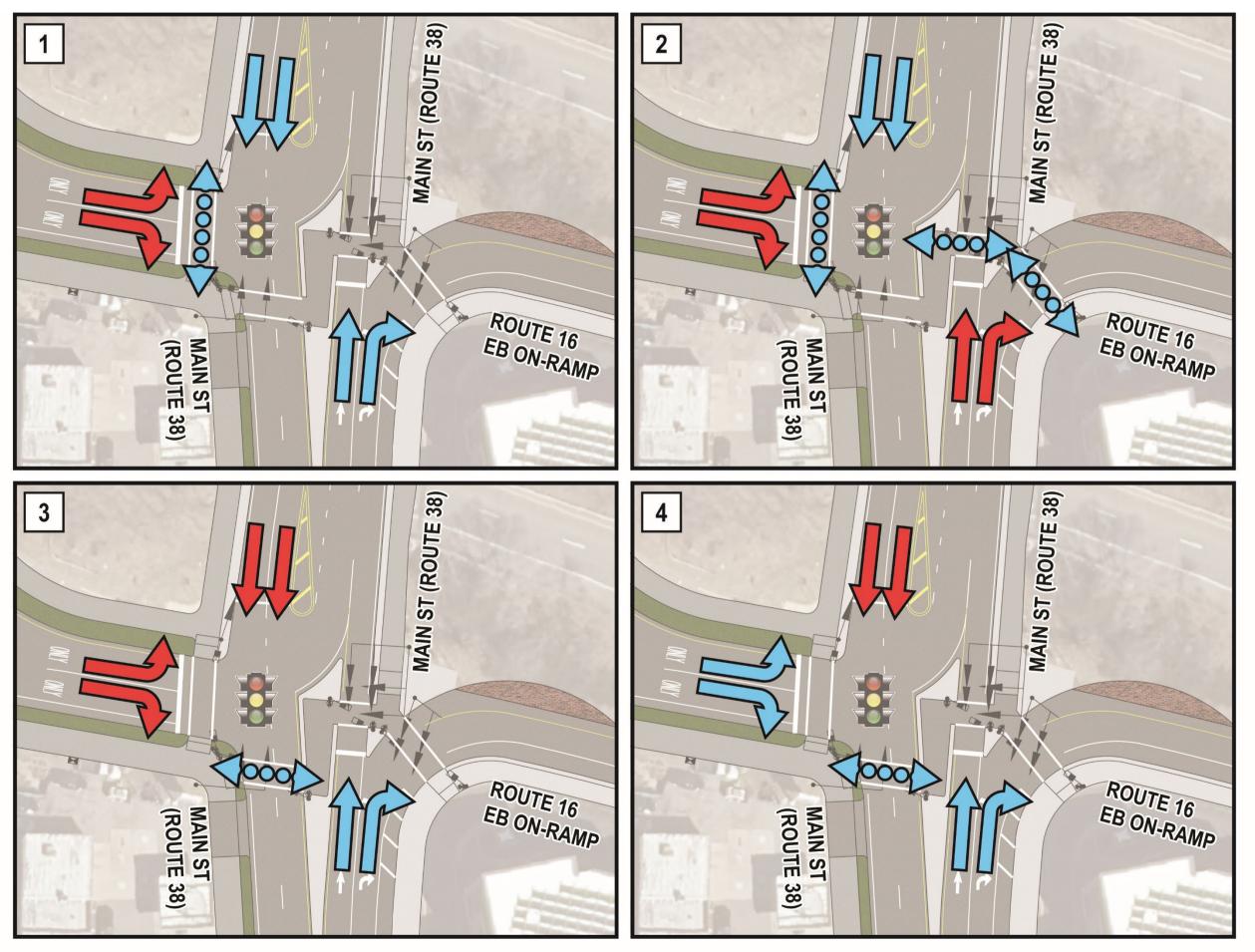


Proposed Design: Main Street/ South Street/ Route 16 Eastbound Ramps



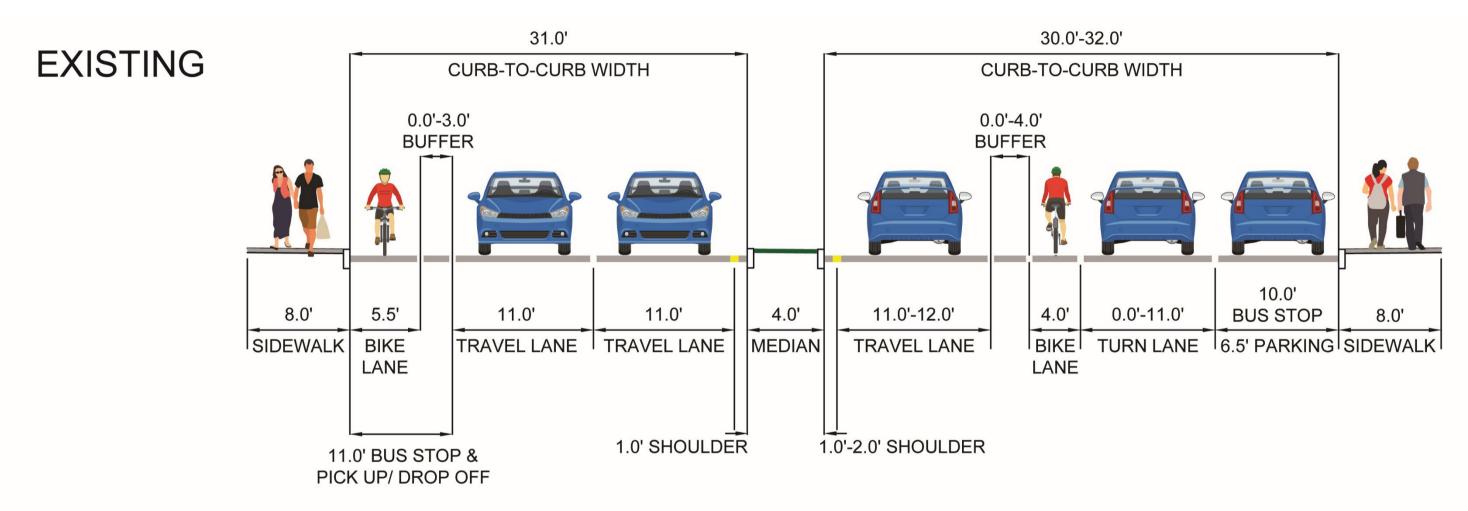
Main Street/ South Street/ Route 16 Eastbound Ramps Intersection Phasing

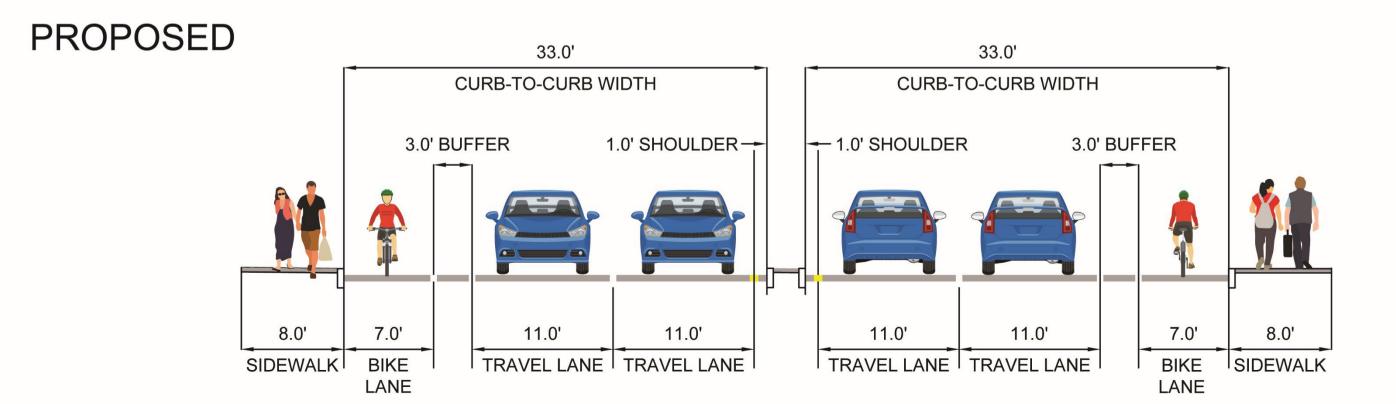






Main Street- Between Route 16 EB Ramps and Mystic Avenue





23.0'

CURB-TO-CURB WIDTH

12.0'

SIDEWALK SHOULDER TRAVEL LANE SHOULDER

5.0'

South Street

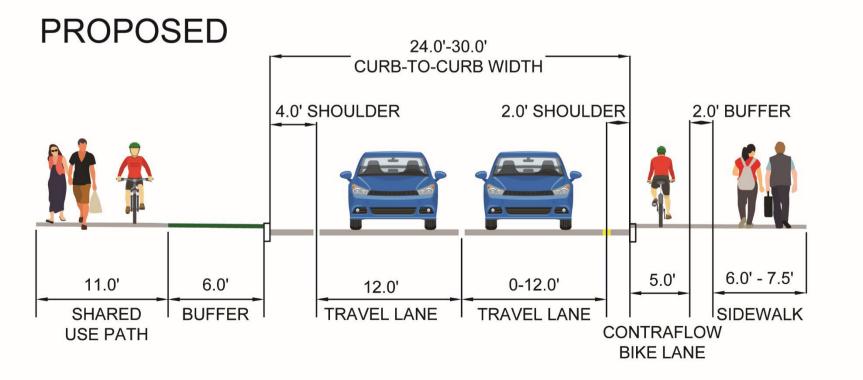
6.0' - 7.0'

EXISTING

SOUTH STREET BETWEEN PROJECT LIMITS **AND ROUTE 16 EB OFF RAMP**

SOUTH STREET BETWEEN ROUTE 16 EB OFF RAMP AND MAIN STREET

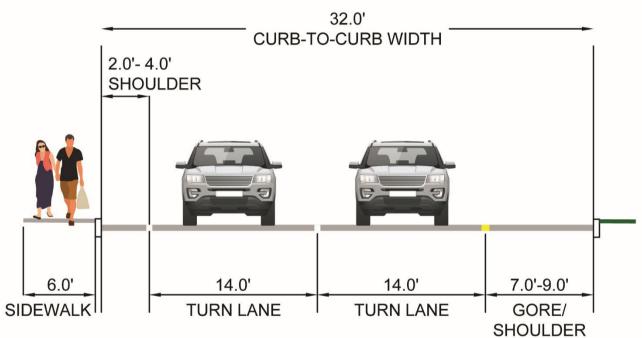


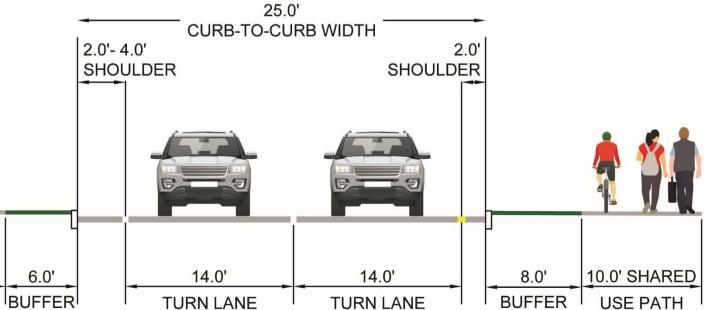


6.0'

PROPOSED



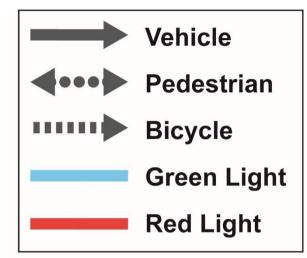


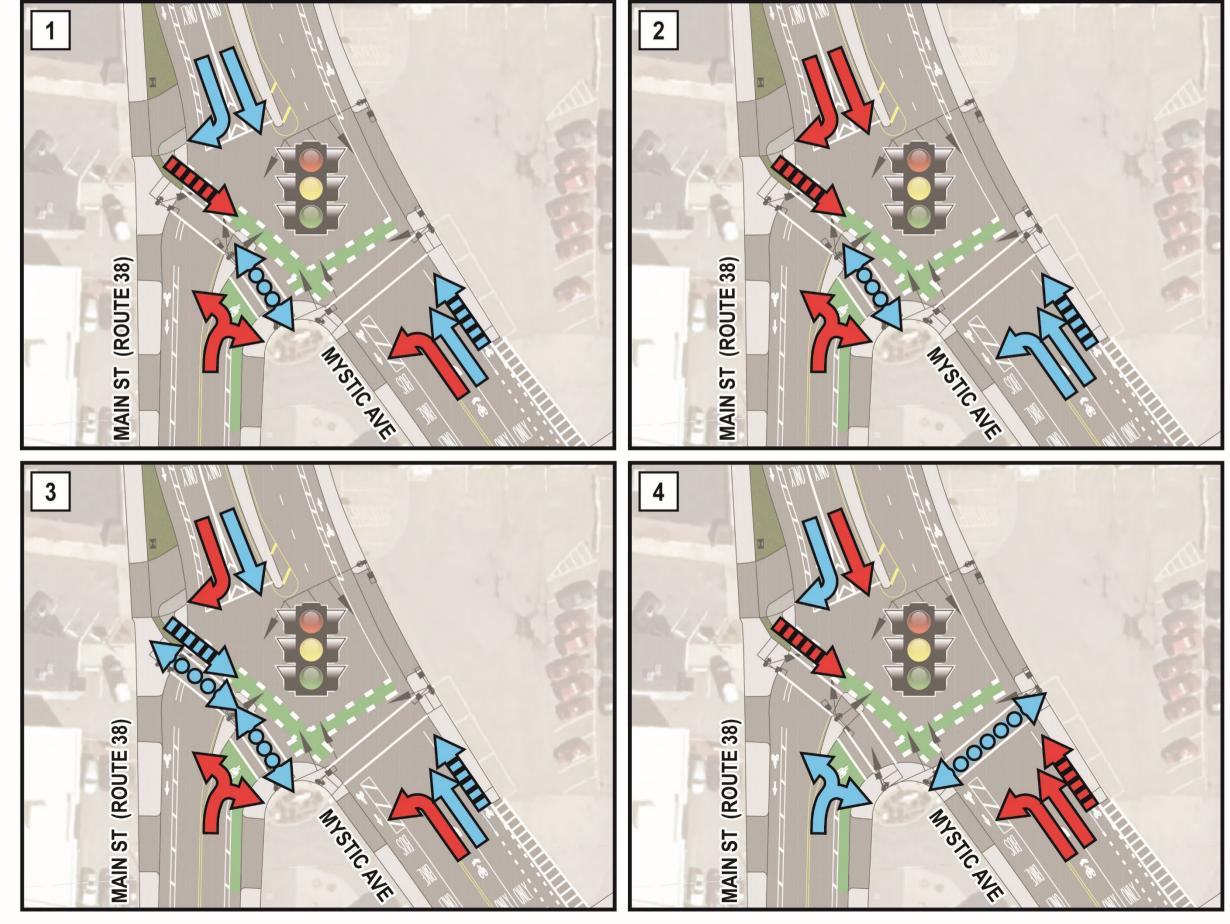


Proposed Design: Main Street at Mystic Avenue



Main Street at Mystic Avenue Intersection Phasing





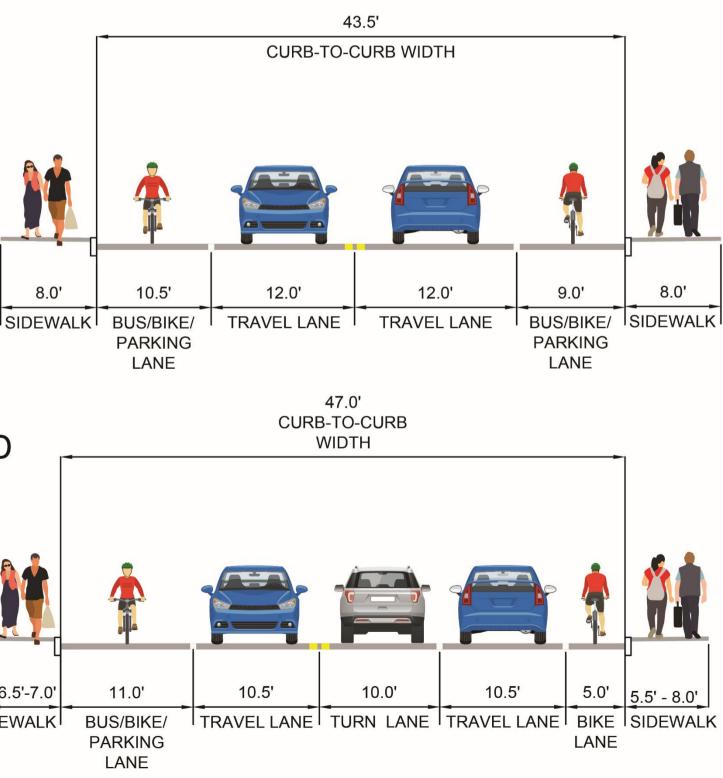


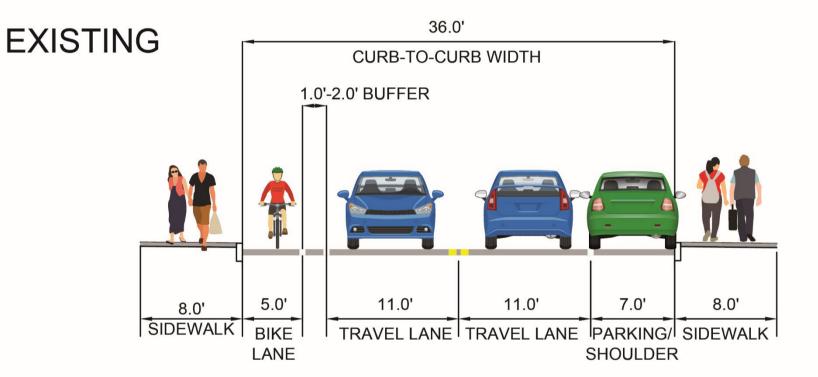
Main Street and Mystic Avenue

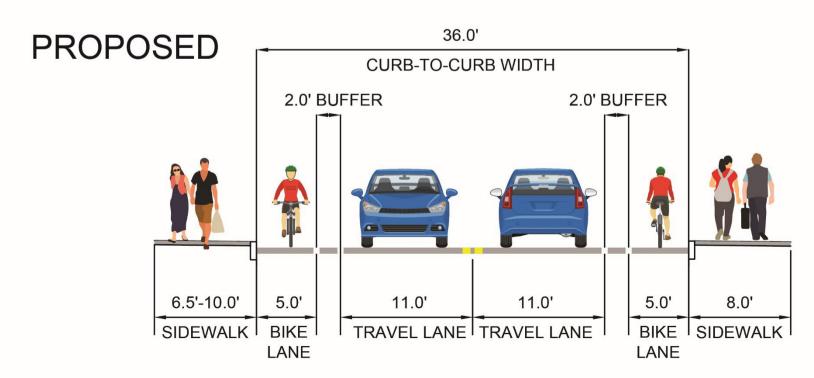
MAIN STREET BETWEEN MYSTIC AVENUE AND THOMAS STREET

MYSTIC AVENUE BETWEEN MAIN STREET AND UNION STREET

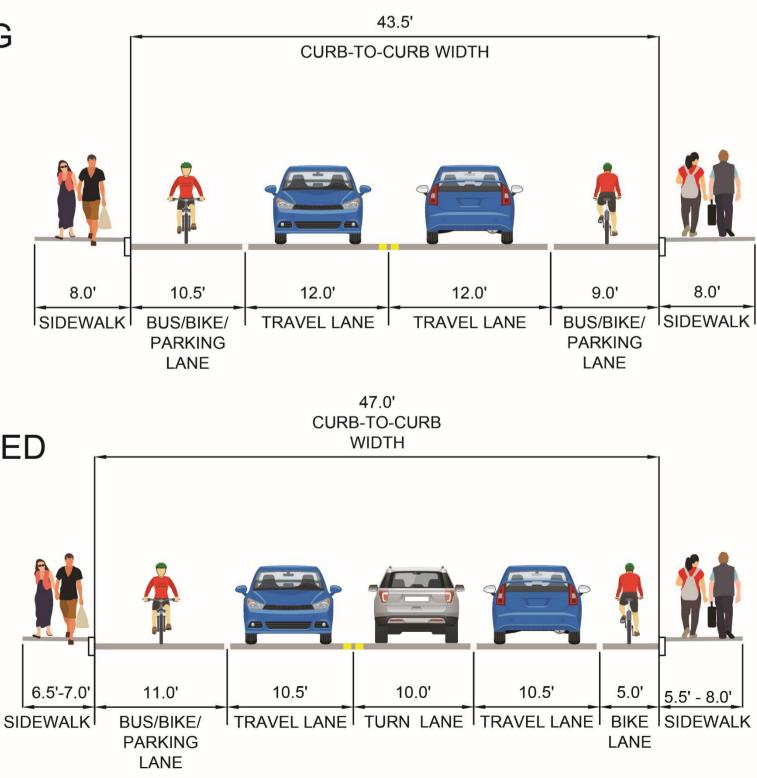








PROPOSED



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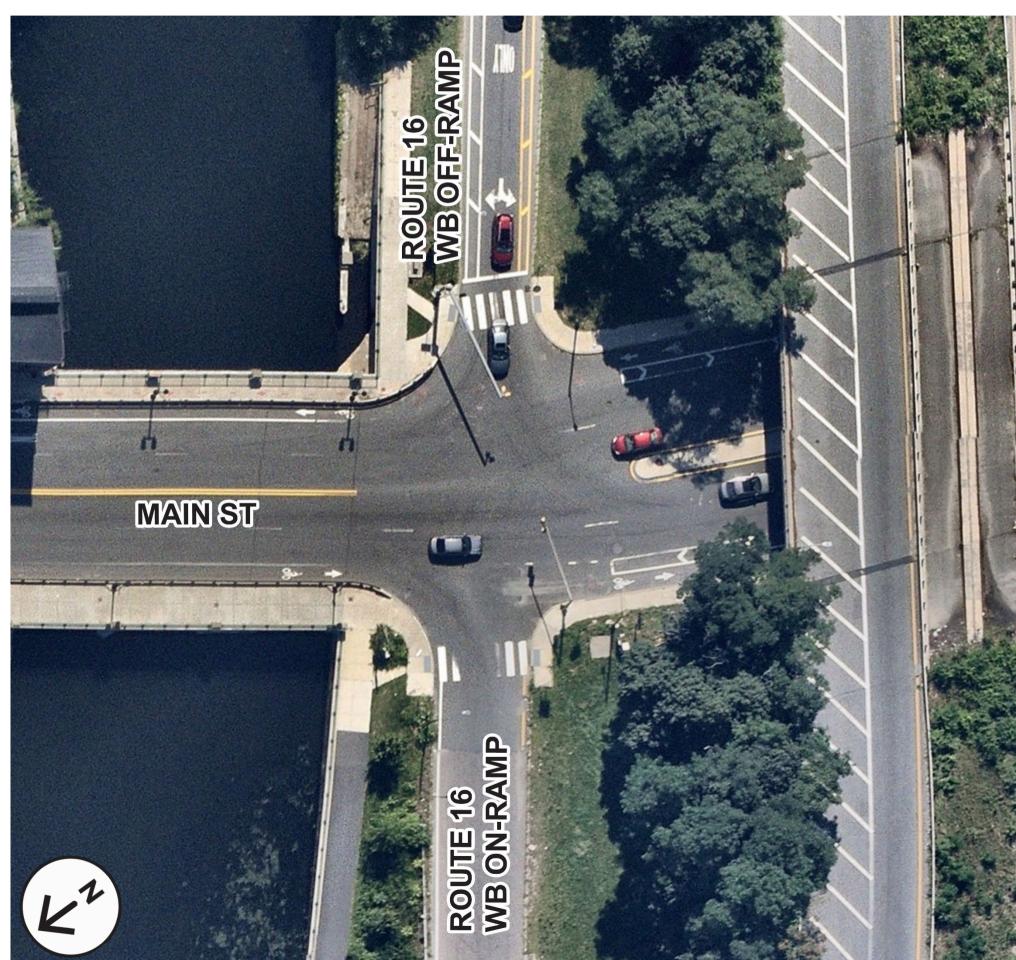


What are the environmental, cultural resource, and comunity impacts?

Environmental, Cultural Resource, and Community Impacts

Project will evaluate/identify:

- Changes in impervious areas
- Best management practices to treat stormwater discharge
- Wetlands/waterways and acquire the necessary permitting
- Historic resources/potential hazmat sources
- Permits, reports, and environmental studies





What are our next steps?

Our next steps – Estimated Schedule



25% Design Summer-Fall 2024



Design Public Hearing Winter 2025



75% Design Spring 2025





100% Design Summer 2025

Project Advertisement Summer 2026





How will we keep you informed?

How to reach us

- Submit email comments to: MassDOTProjectManagement@dot.state.ma.us
- For project information visit the MassDOT Upcoming Events for Highway Division web site at

http://www.mass.gov/orgs/highway-division/events or used the QR Code:

Submit written comments to:

Carrie Lavallee, P.E., Chief Engineer MassDOT

10 Park Plaza

Boston, MA 02116

Attention: PROJECT MANAGEMENT, PROJECT FILE NO. 611974







Questions and answers

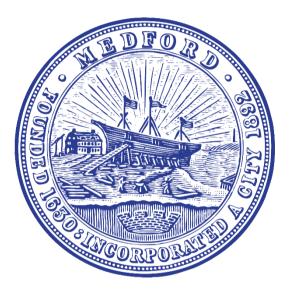
Thank You for Your Support City of Medford

Metropolitan Planning Organization

Boston Regional Metropolitan Planning Organization

Community Organizations and Others

Community Action Agency of Somerville Partners for Youth and Disabilities Registry of Motor Vehicles













Questions and Answers

• "Raise your hand" to be unmuted for verbal questions; *9 for attendees calling into the meeting



• To ask a question via phone, dial *9 and the moderator will call out the last 4-digits of your phone number and unmute your audio when it is your turn



HELLO







• Please share only 1 question or comment at a time, limited to 2 minutes, to allow others to participate



• Please take a few minutes to complete the survey after the meeting to let us know how your experience was with this virtual meeting

All questions and comments are subject to disclosure for public records. Please use these functions for project related business only.





Thank You

Main Street and South Street, Mystic Valley Parkway Ramps, and Mystic Avenue

Zoom Webinar | May 8, 2024 | 6:00 P.M.

Project File No. 611974

MassDOTProjectManagement@dot.state.ma.us

