



Welcome!

Shrewsbury Route 20 Safety & Operations
Improvements Master Plan
Shrewsbury, MA

Public Information Meeting
Shrewsbury, MA
June 24, 2019 | 7:00 PM

Introduction

- MassDOT District 3
- Joe Frawley
- Erin Kinahan

- Howard Stein Hudson – MassDOT's Design Consultant
- Paul Nelson
- Bob Stathopoulos

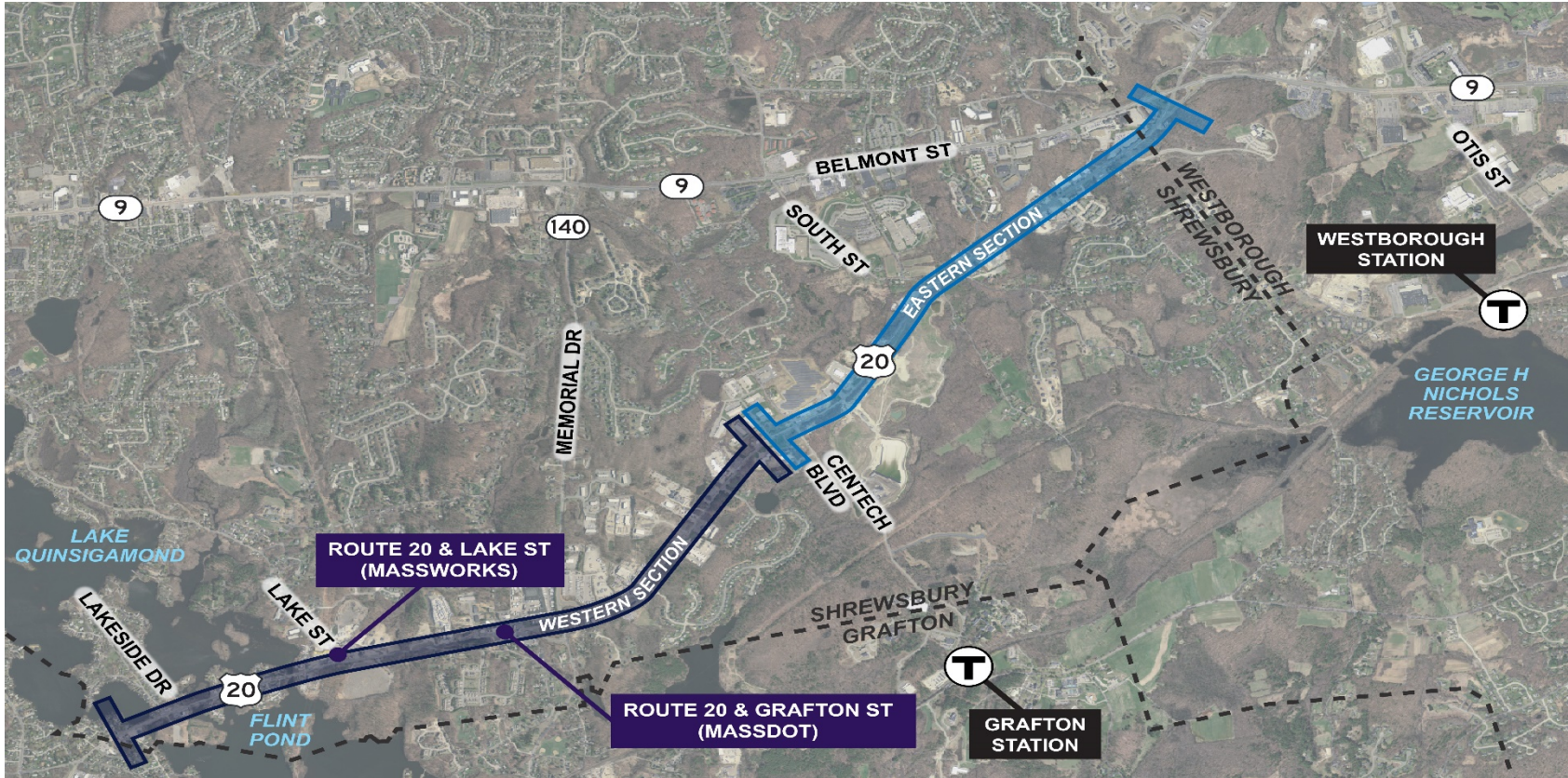
Tonight's Meeting

- **Overview of the Master Plan**
- **Review of existing conditions in the study area**
- **Review of safety deficiencies**
- **Proposed Master Plan**
 - **Addition of Through and Turn Lanes**
 - **Signal Infrastructure Work**
 - **Pedestrian and Bicycle Accommodations**
- **Next steps**
 - **Completion by Late Fall/Early Winter 2019**

Master Plan History

- **Ongoing coordination with Town staff**
- **Eastern Section Conceptual Master Plan Presentation to Public – March 2019**
- **Western Section Conceptual Master Plan – June 2019**
- **Public Info Meeting – June 24, 2019**
- **Entire Corridor Concept Design and Report – Fall 2019**

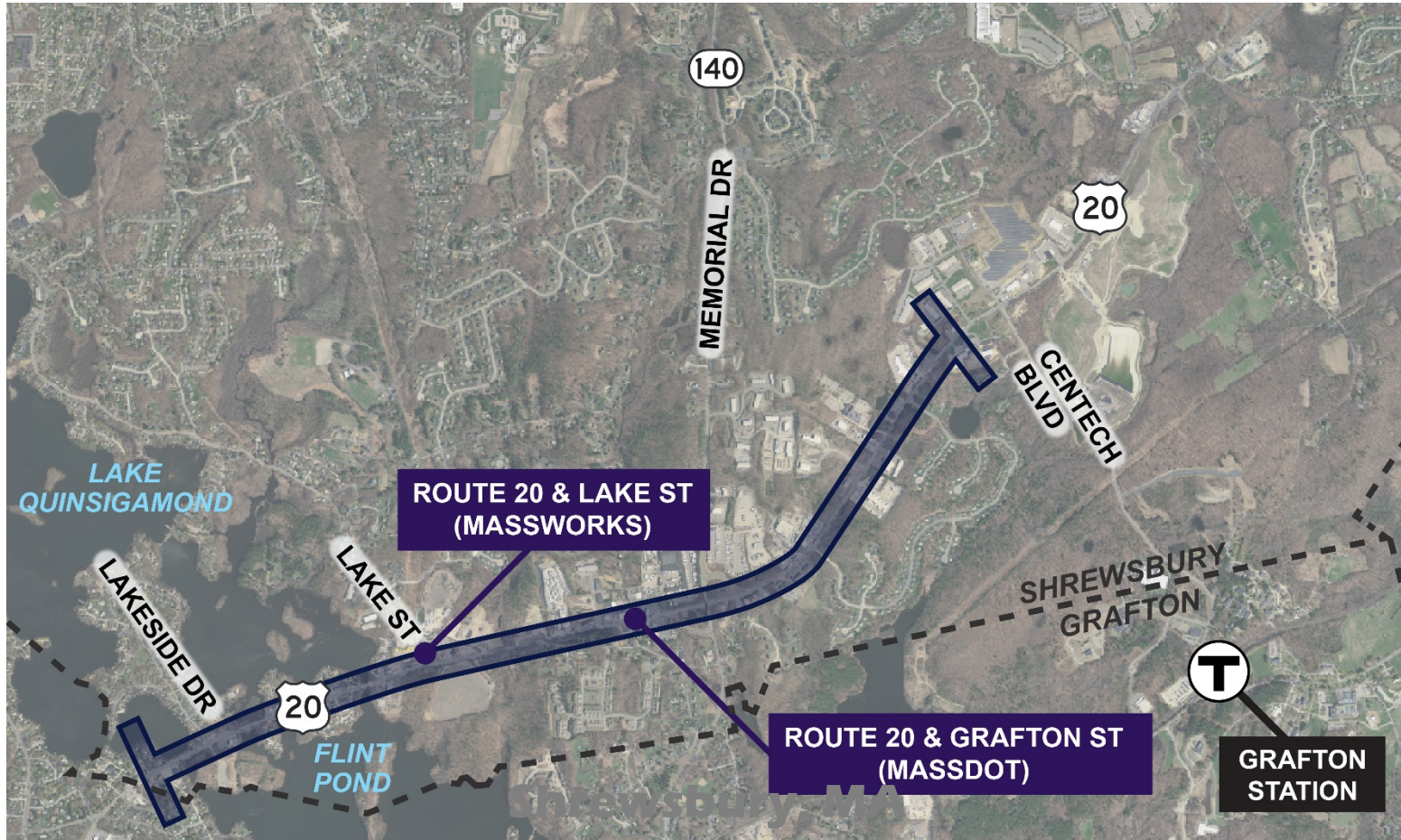
Master Plan – Full Study Area



Shrewsbury, MA

Worcester City Line to Route 9/Route 20 Interchange

Master Plan Area – Tonight's Focus

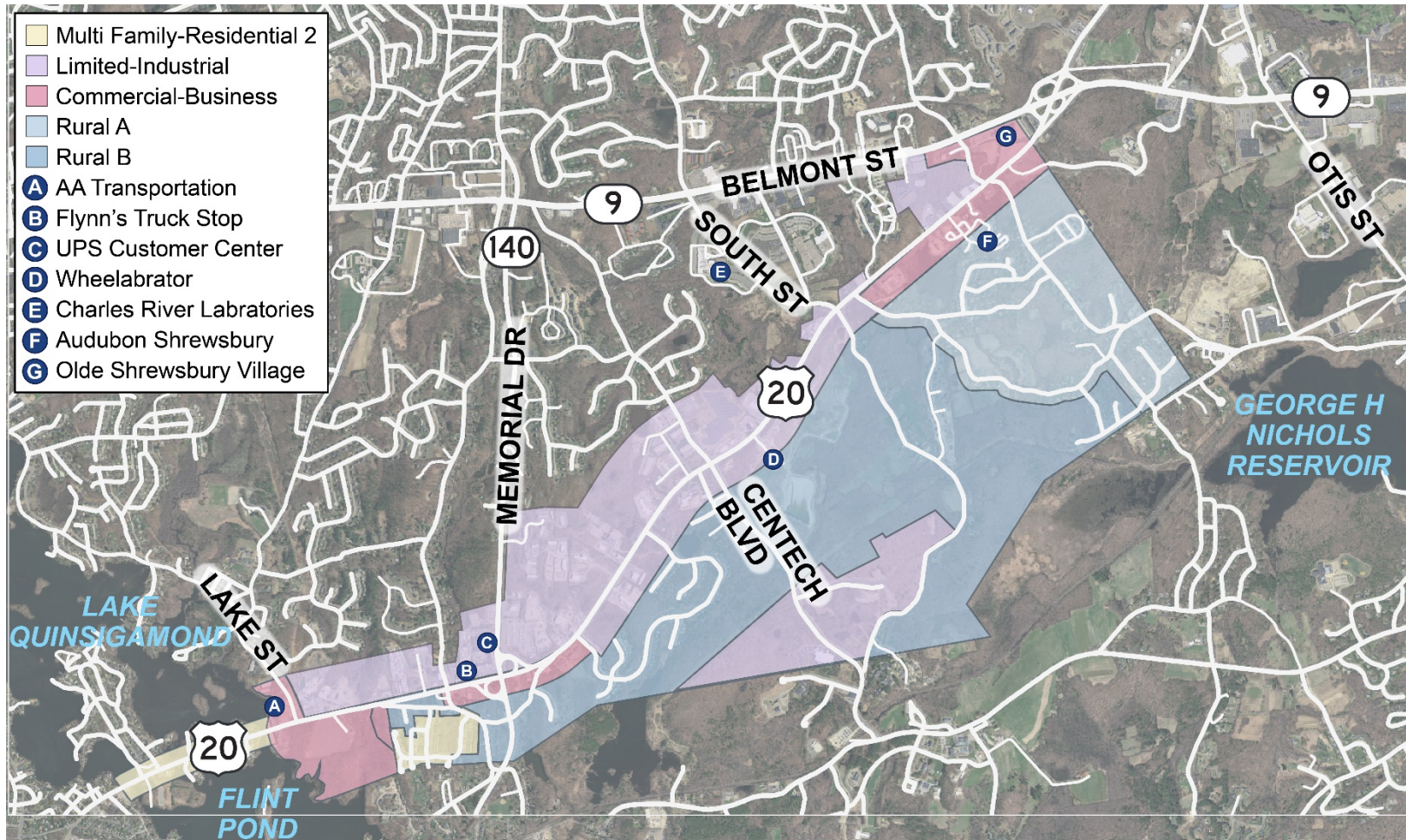


Worcester City Line to Centech Boulevard

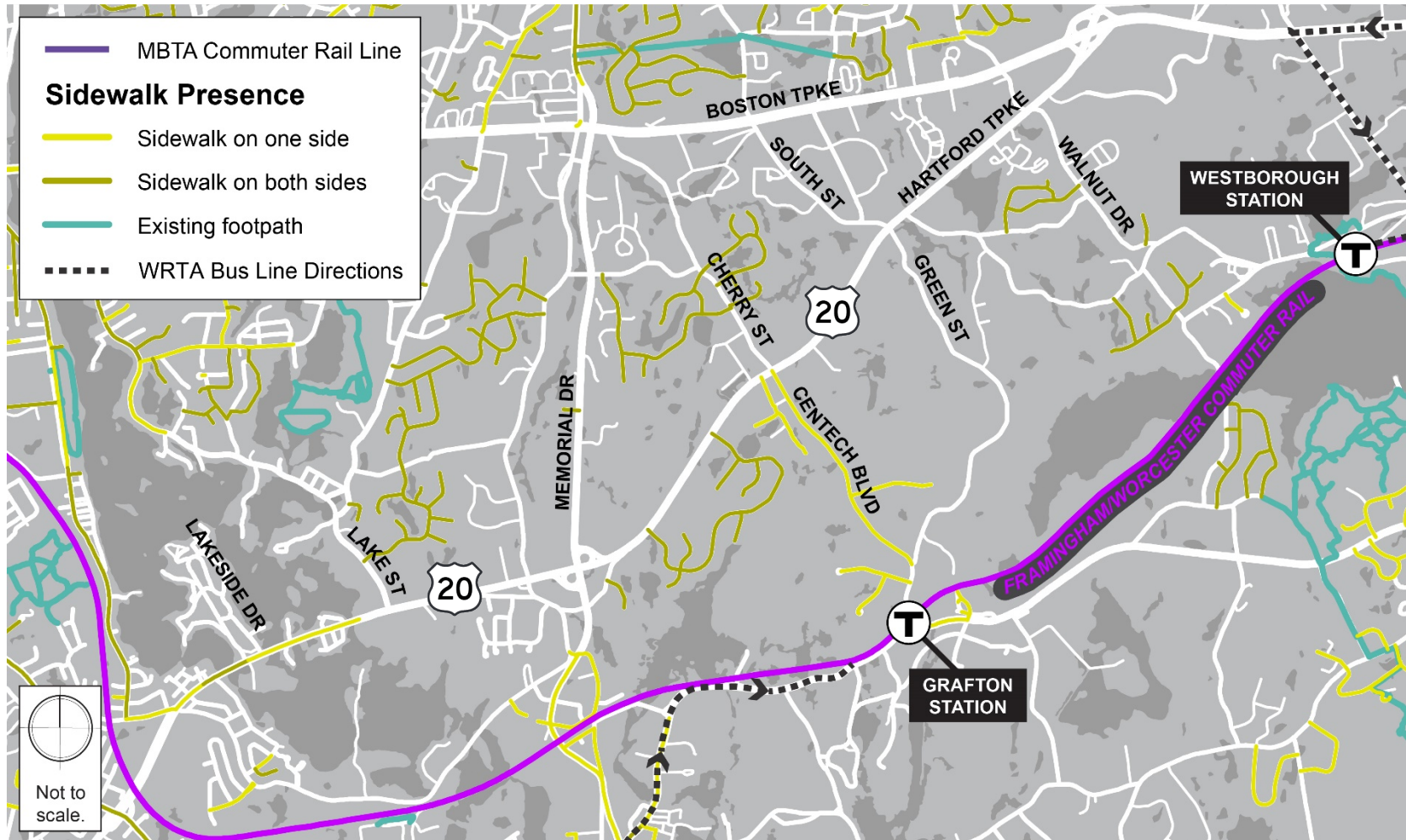
Existing Issues

- **Intersection and Corridor Safety**
 - **Eastern Section Issues (*Presented at March 5th Meeting*):**
 - Route 20 at South Street
 - Route 20 at Walnut Street
 - Route 20 at Valente Drive
 - **Western Section Issues (*In Progress*):**
 - Stoney Hill Road at Route 20 Access
 - Route 20/Route 140 Interchange
 - Access Management
- **Congestion**
- **Capacity needed to support current traffic and future traffic growth fueled by private development**
- **Lack of Bicycle and Pedestrian Accommodation**

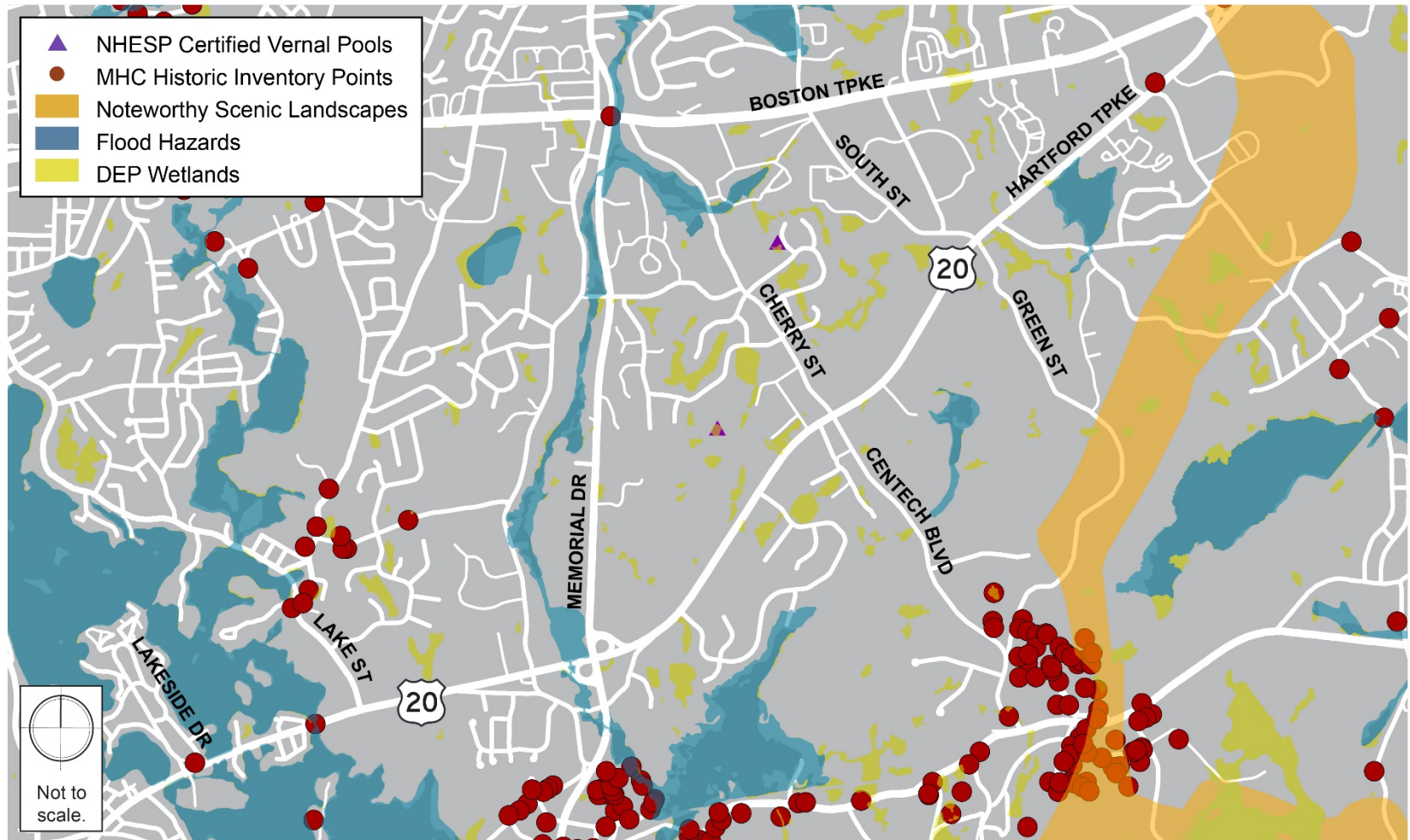
Existing Conditions - Zoning



Existing Conditions – Bike, Pedestrian, Transit



Existing Conditions – Environmental Evaluation



Existing Conditions – Complete Streets



Existing Conditions - Crashes



Stoney Hill Road at Route 20

Signalized Intersection Alternative:

- **MassDOT Guidelines – MUTCD Signal Warrants**
 - 8-hour Warrant based on vehicular volumes (Warrant 1)
 - Crash Experience based on crashes, volume, other improvements (Warrant 7)
 - Not High Crash Locations
 - Not Eligible for HSIP Funding

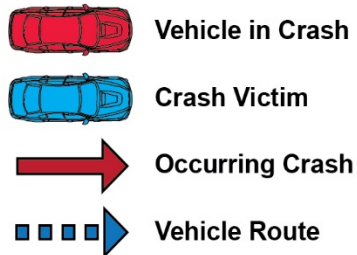
Stoney Hill Road at Route 20

TWO (2) ANGLE CRASHES IN THREE-YEAR PERIOD (2015-2017)

ANGLE CRASHES HAVE POTENTIAL TO BE MORE SEVERE.

ROUTE 20
(HARTFORD TURNPIKE)

STONE HILL
RD (EAST)



Crashes at Stoney Hill Road (East)

- 11 Total Crashes
- Non-Fatal Injury (27%)
- Angle Crashes (27%)
- 5 p.m. – 8 p.m. (36%)

Angle crashes related to:

- High speeds
- Insufficient gaps
- Crossing multiple lanes



Crashes at Stoney Hill Road (West)

- 13 Total Crashes
- Non-Fatal Injury (8%)
- Angle Crashes (15%)
- 7 a.m. – 9 a.m. (46%)

Angle crashes related to:

- High speeds
- Insufficient gaps
- Crossing multiple lanes



Crashes at Grafton Street

- 90 Total Crashes
- Non-Fatal Injury (21%)
- One Reported Fatality
- Angle Crashes (55%)
- 3 p.m. – 7 p.m. (37%)

Angle crashes related to:

- High speeds
- No Left Turn Lanes
- No Left Turn Indication at Signal
- Multiple Access Points



Crashes at Lake Street

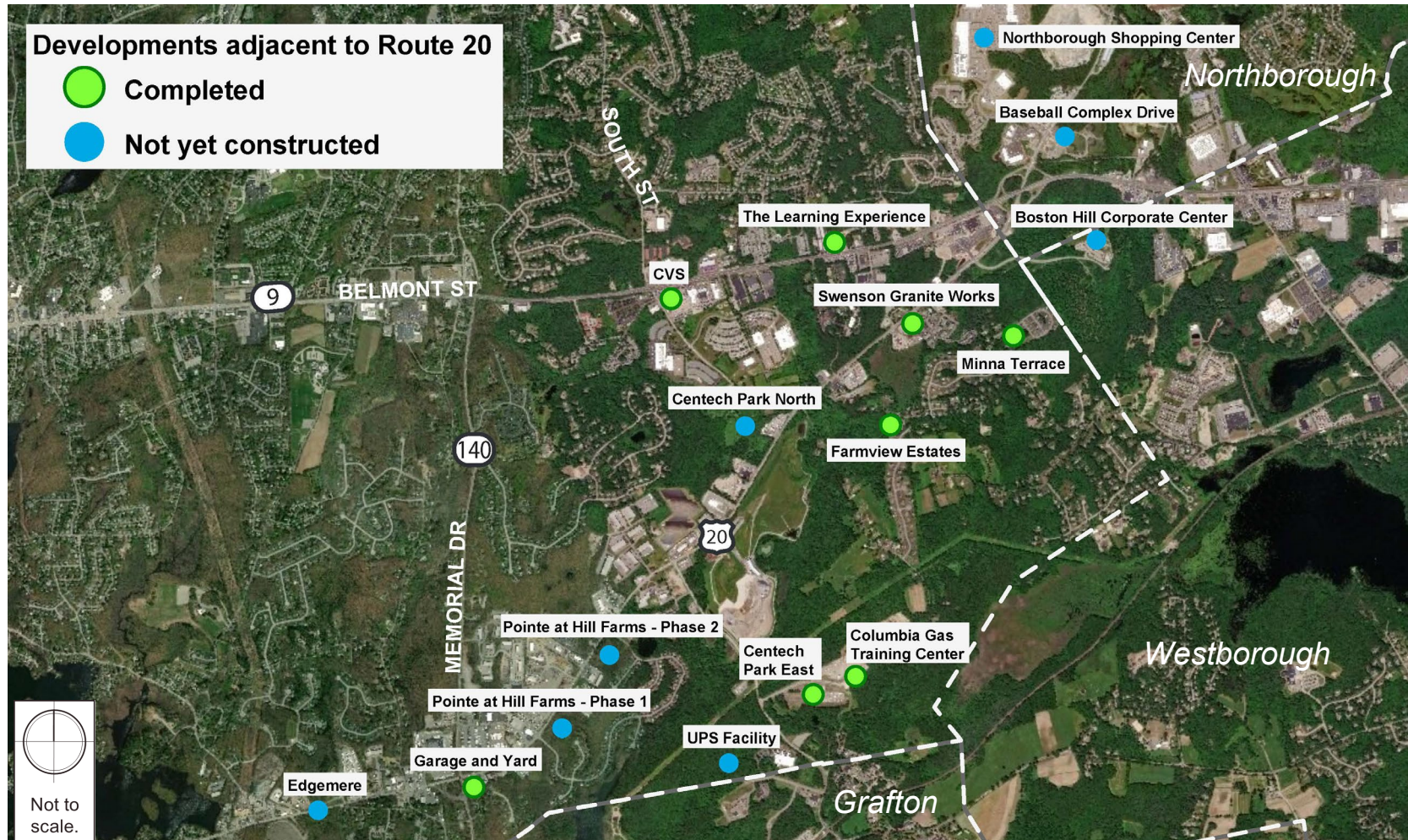
- 47 Total Crashes
- Non-Fatal Injury (13%)
- Rear-End Crashes (49%)
- 3 p.m. – 7 p.m. (50%)

Rear-End crashes related to:

- High speeds
- Congestion
- Yellow Light Dilemma



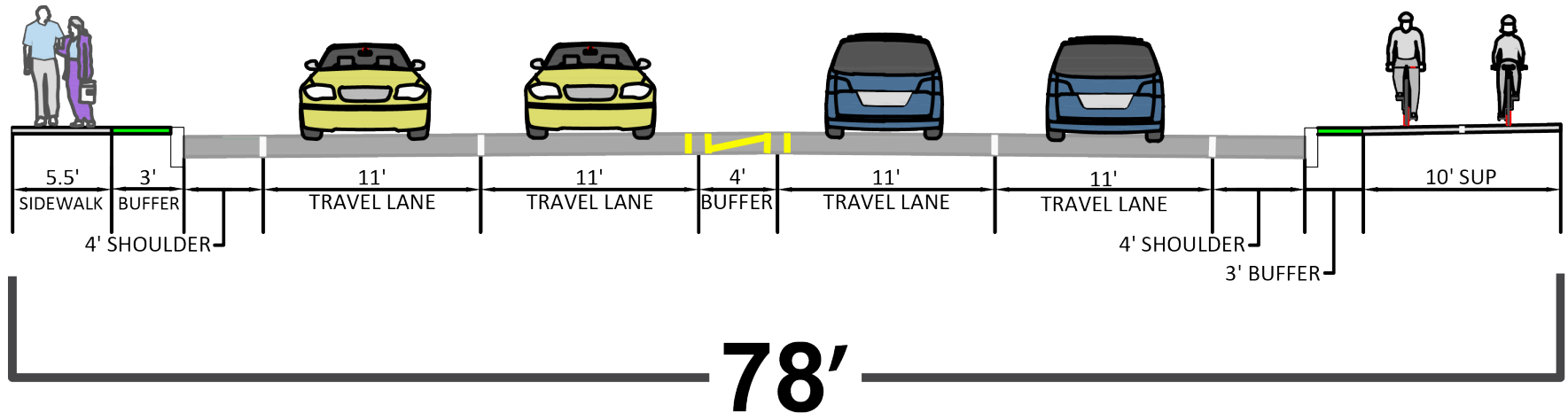
Future Traffic Volumes



Proposed Master Plan

- Two travel lanes in each direction on Route 20
- Traffic signal improvements
- Additional turning lanes at existing signalized intersections
- Pedestrian and Bicyclist Facilities
 - Shared Use Path and Sidewalk on Route 20
- Safety improvements at deficient locations
- ROW Impacts and Cost not considered at this time
 - Master Plan cross-section has trade-offs due to potential ROW and Environmental Impacts

Proposed Master Plan (cont'd)

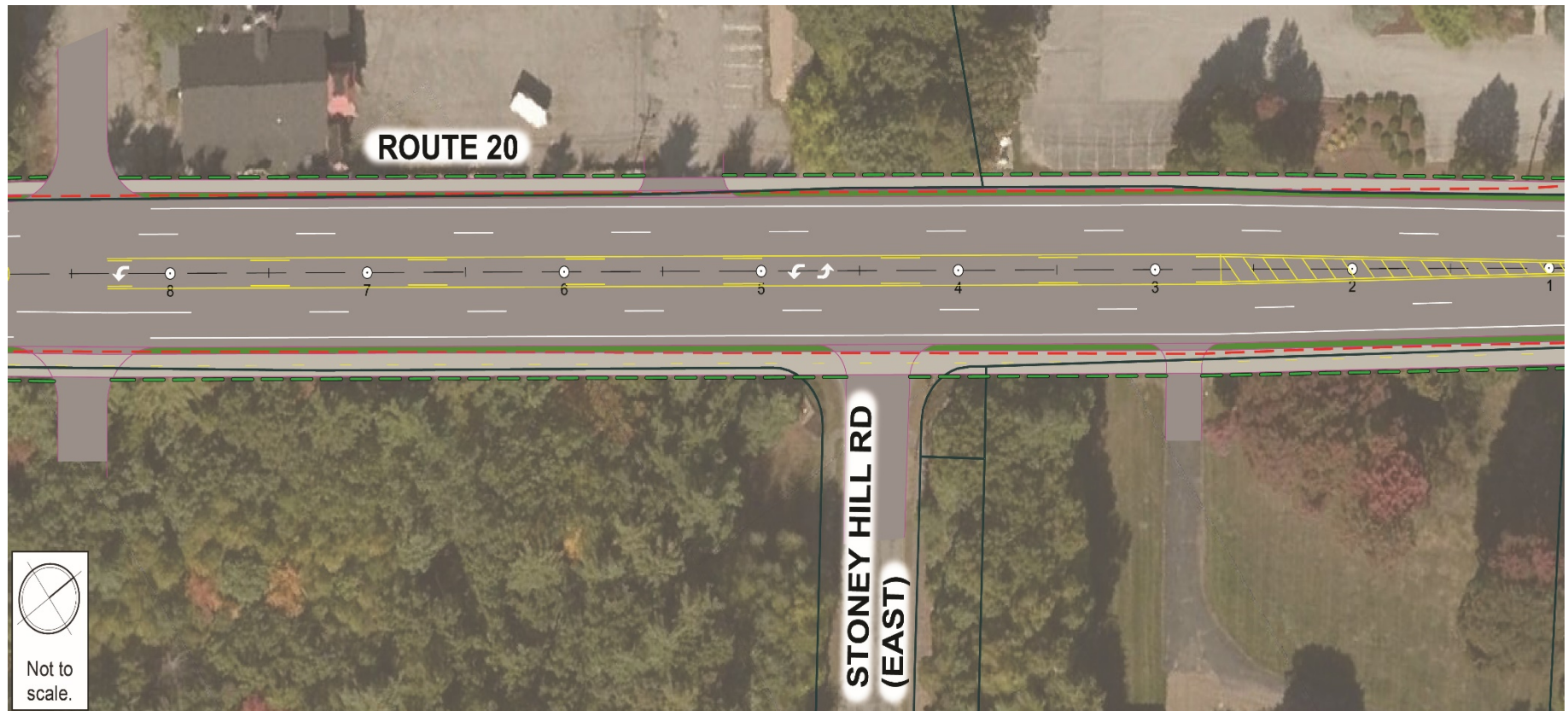


EXISTING RIGHT-OF-WAY WIDTH VARIES FROM APPROXIMATELY 53' TO 75'

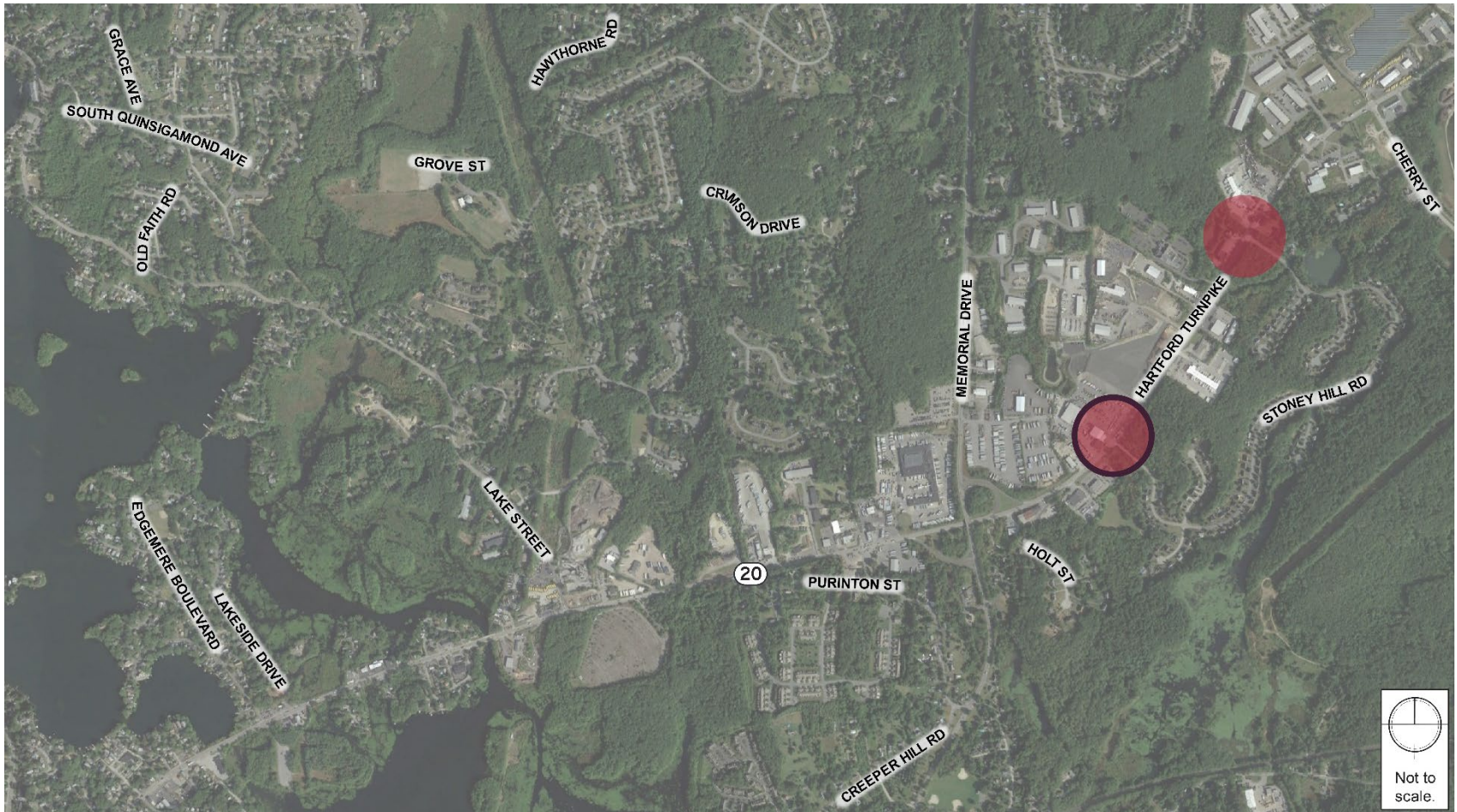
Proposed Conditions



Proposed Conditions



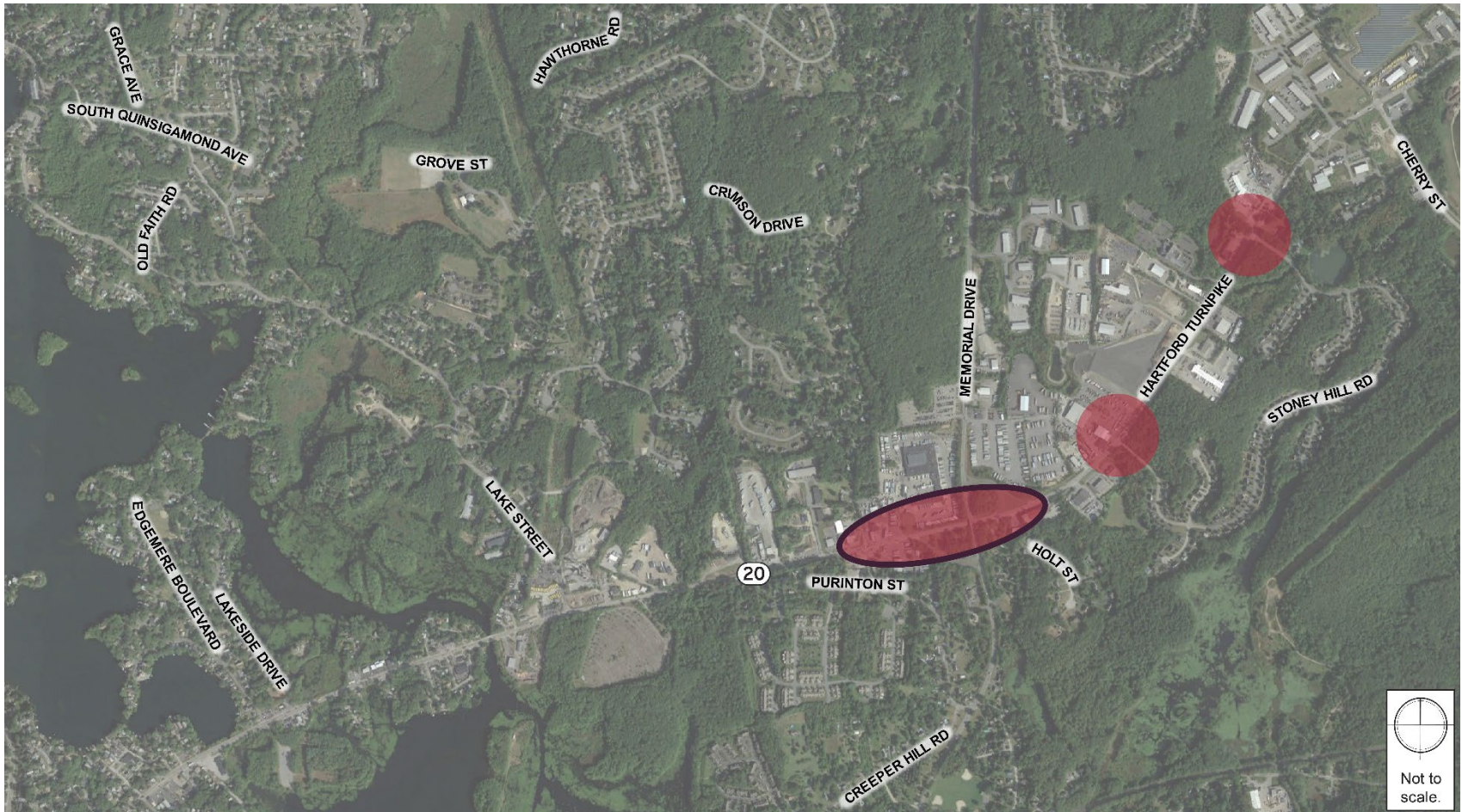
Proposed Conditions



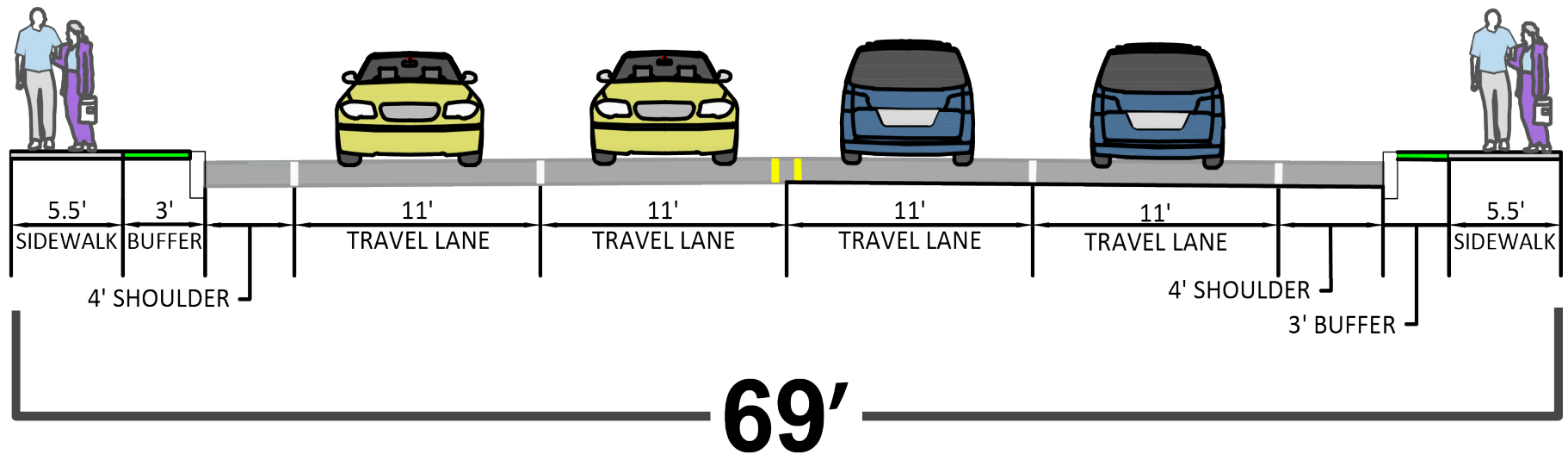
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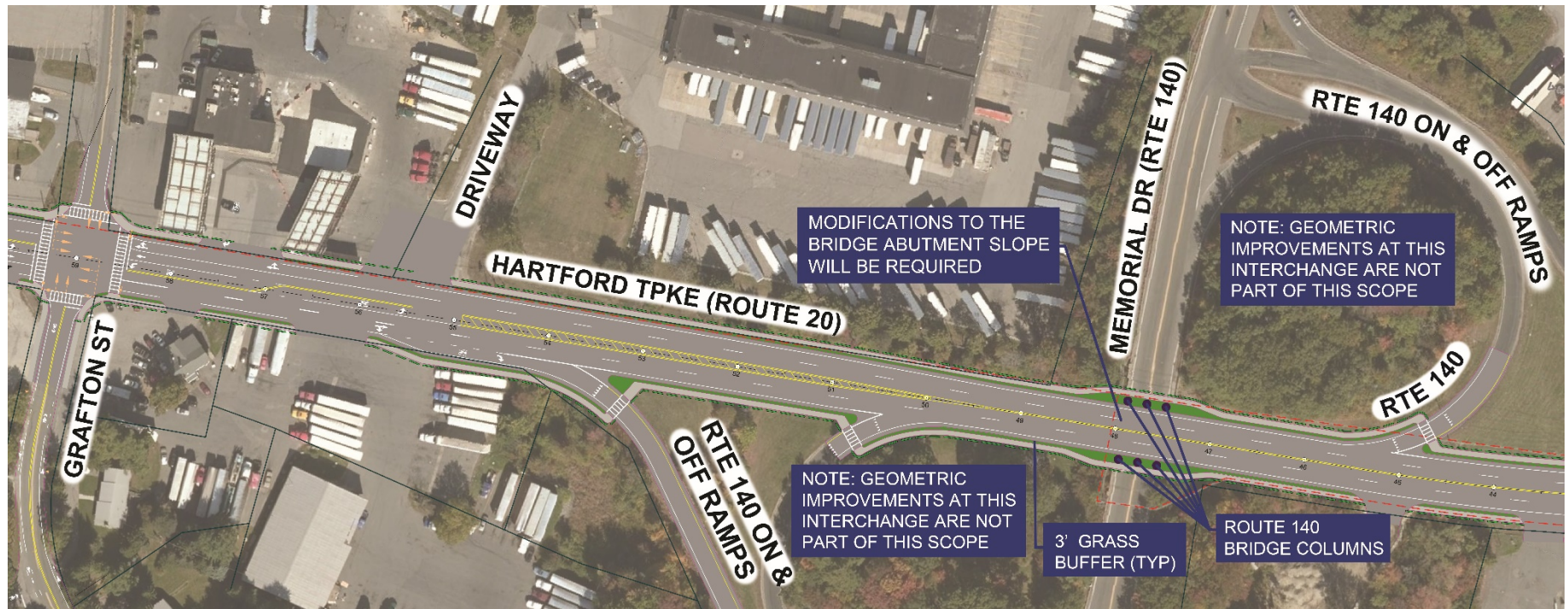
Proposed Cross-Section



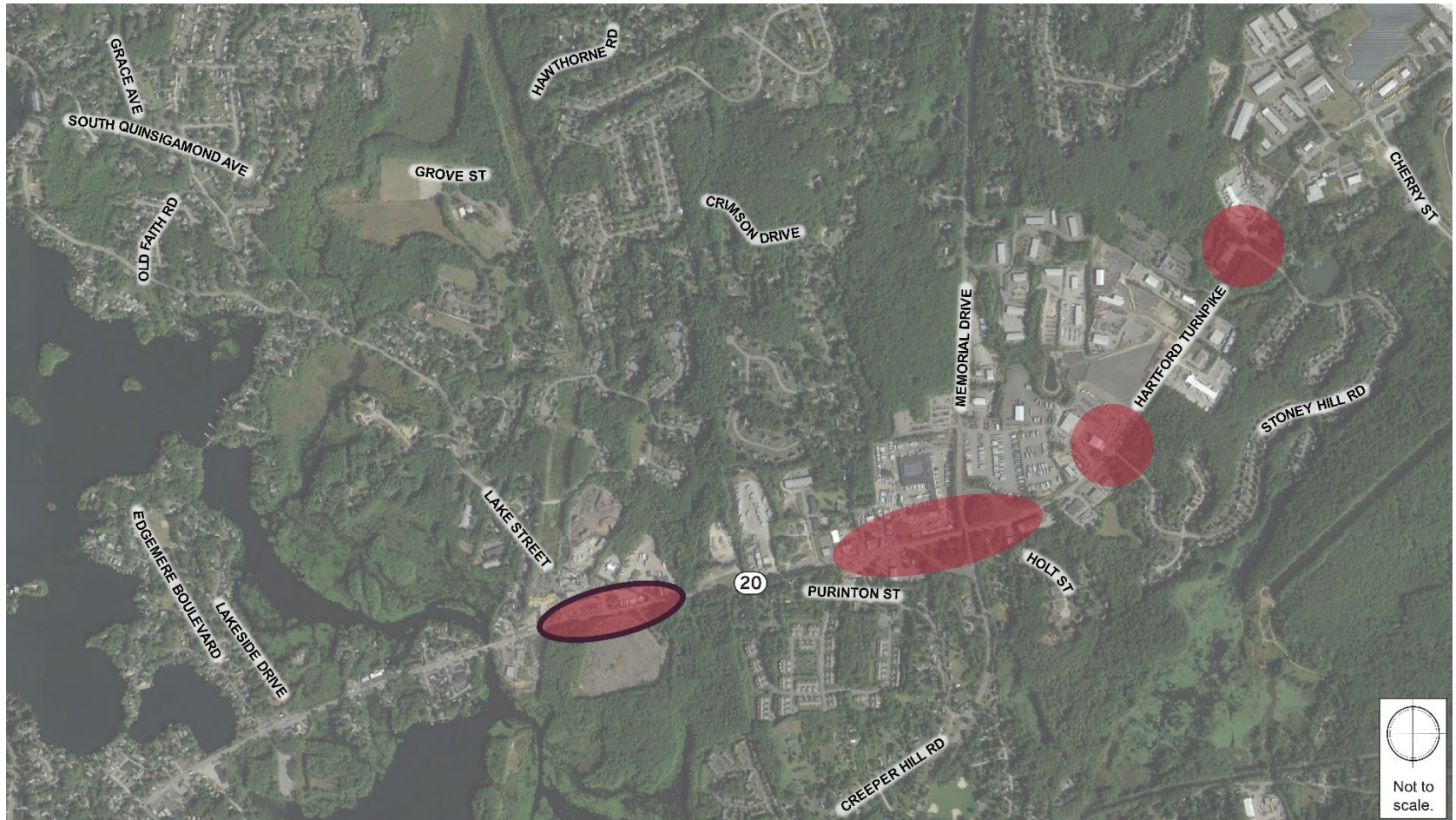
EXISTING RIGHT-OF-WAY WIDTH VARIES FROM APPROXIMATELY 53' TO 75'

Proposed Conditions

- Two Lanes in each direction
- Address Safety issues



Proposed Conditions



Route 20 at Lake Street

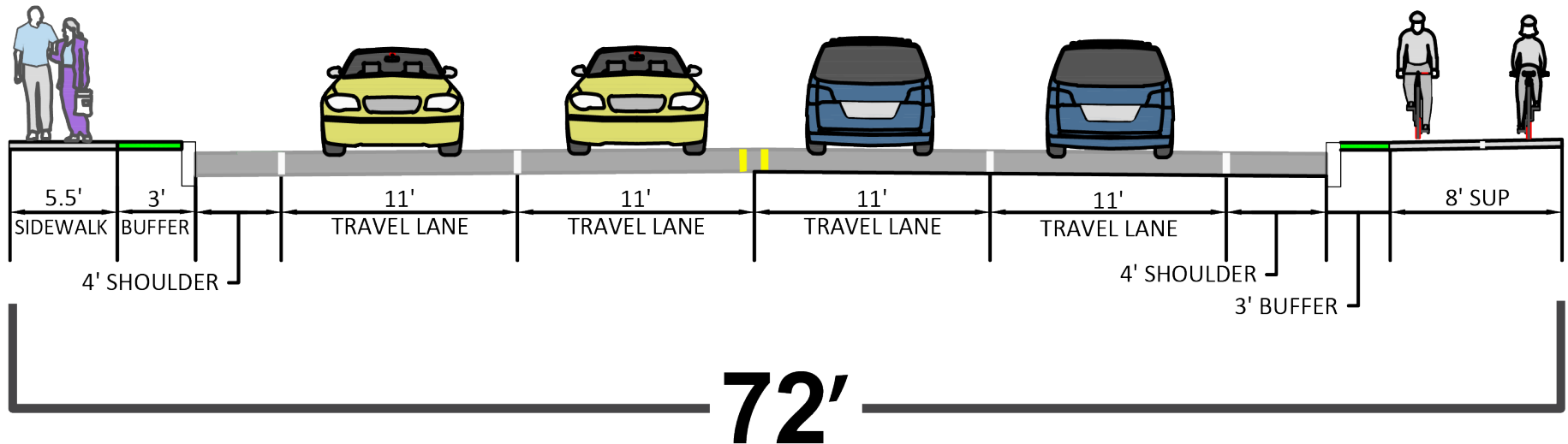
- MassWorks Project
- Upgrades to the signal
- Two lanes in each direction + Turning lanes
- Two Edgemere Development Access Points



Proposed Conditions



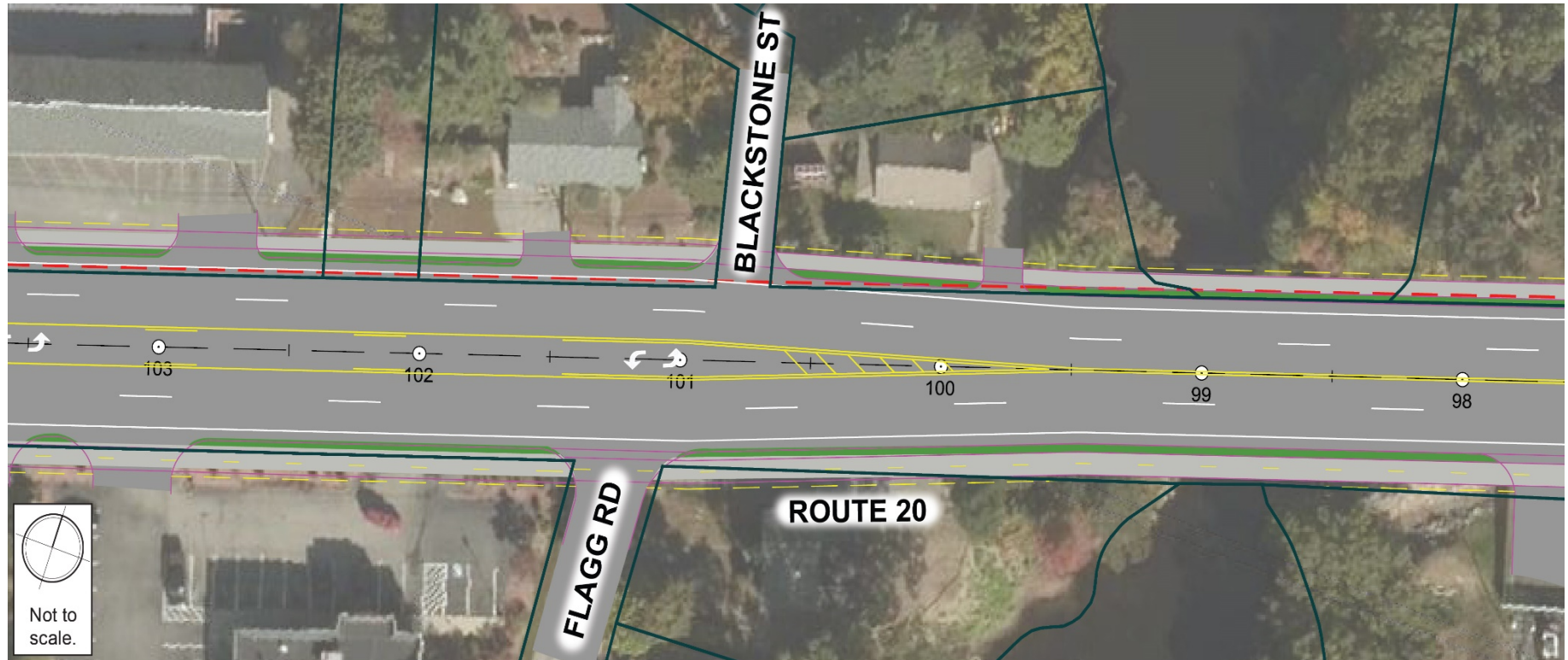
Proposed Cross-Section



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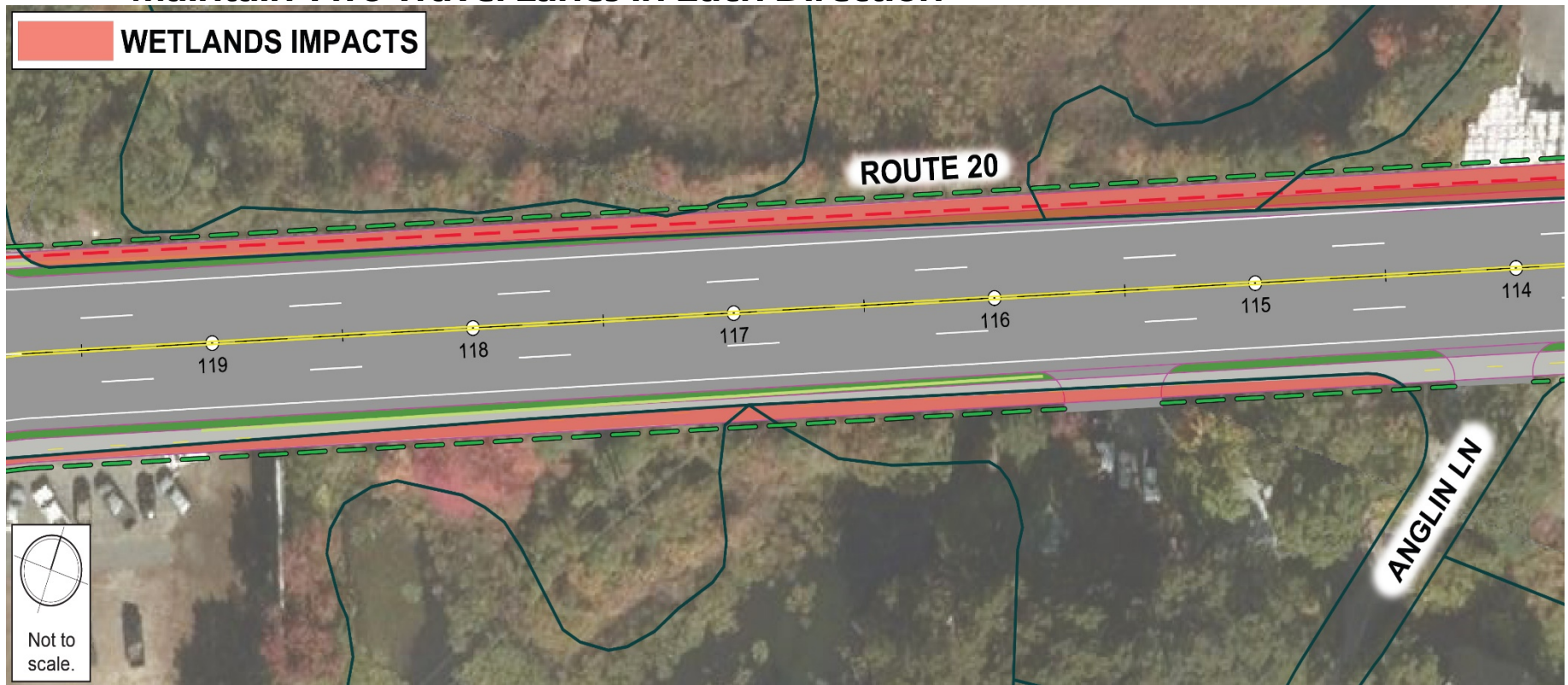
Proposed Conditions

- Narrower Shared-use path
- No 4-foot median
- Two-Way Left Turn Lane for Neighborhood Access



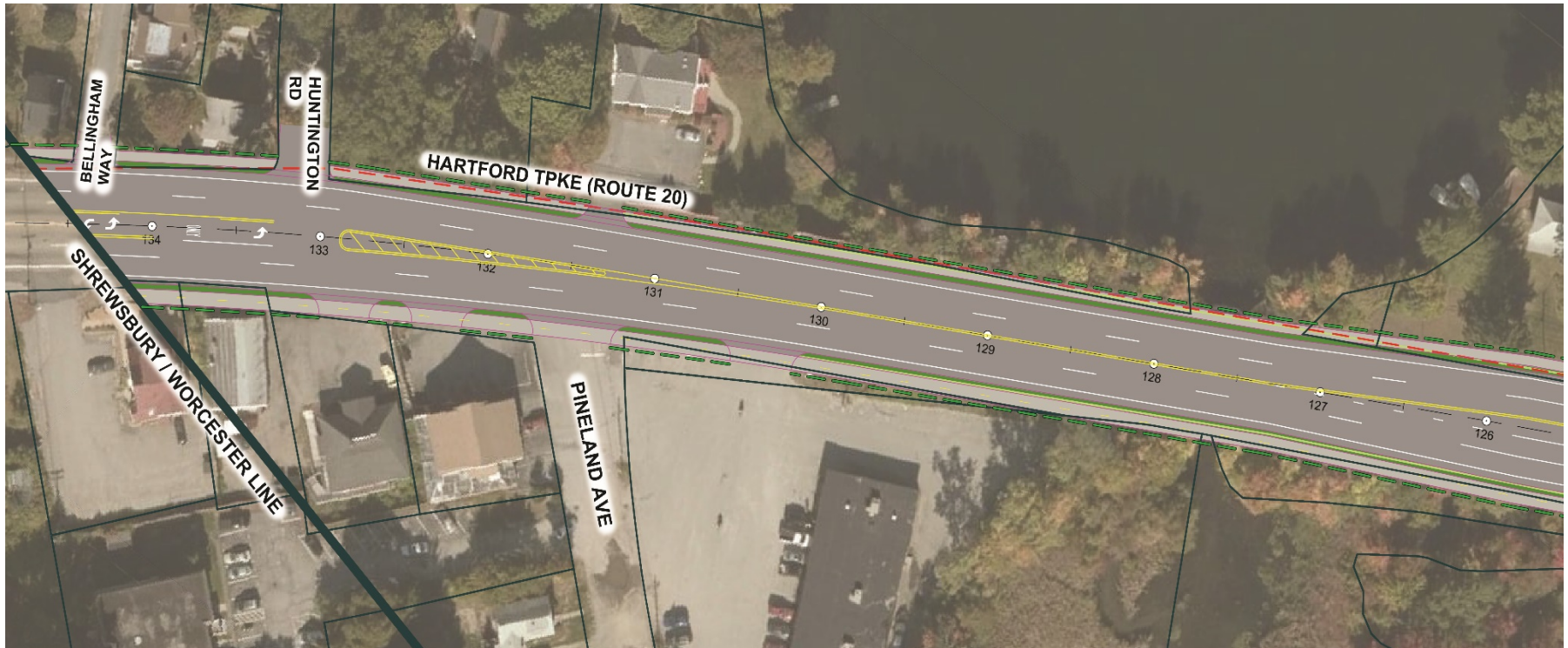
Proposed Conditions

- Narrower Shared-use path
- No 4-foot median
- Maintain Two Travel Lanes in Each Direction



Proposed Conditions

- Maintain Two Travel Lanes in Each Direction
- Two-Way Left Turn Lane to Left Turn Lane



Next Steps

- **Wikimap info for comments 20-30 days**
- **Schedule for entire Master Plan Report and Concept Plans**
 - Draft Report Early Fall 2019
 - Final Report Late Fall/Early Winter 2019
- **Implementation discussion**
- **Prioritized Projects**
 - Some driven by Private Development
 - Grafton Street is currently under design
 - New Project to be selected – MassDOT and Town officials to work on identifying priority projects (project may be for Route 20 Eastern Section)



Thank You

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