

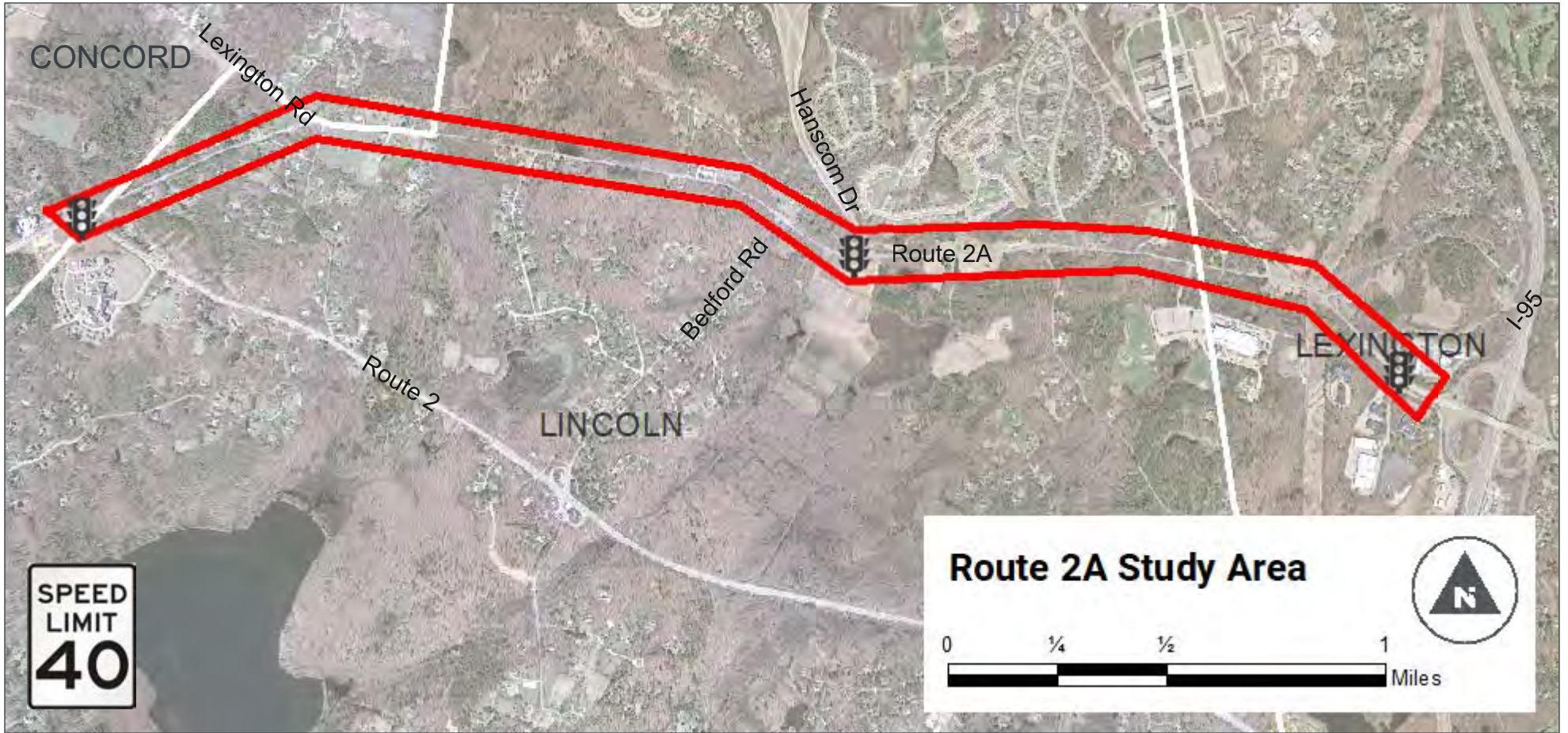
Route 2A Corridor Study Concepts



- Karen Fitzgerald, Senior Landscape Architect
- Taylor Dennerlein, Engineer
- Andrew Wilkins, Project Manager, MassDOT

Agenda

- Brief Recap
- Review of Concepts
- Next Steps



Study Area

TOOLE
DESIGN

Stakeholder involvement

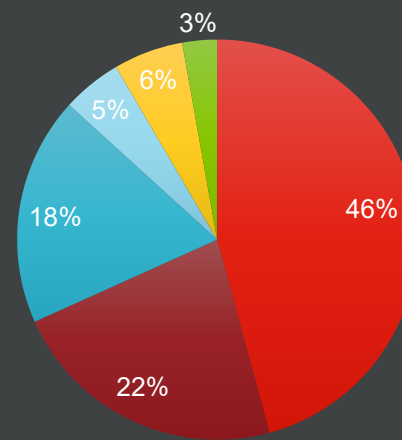
- Meeting to discuss existing conditions held 2/14/2019
- Site visit held 5/21/2019
- Meeting to discuss concepts 10/15/2019



Existing Conditions (2019)

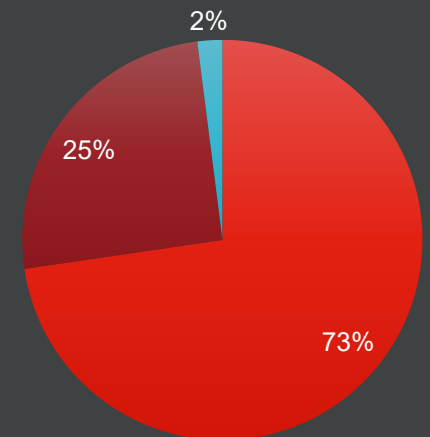
- ADT ~14,200 vehicles per weekday
- Speeds
 - Average and 85th percentile speeds > 40 MPH (Posted Speed Limit)

Crash Type



- Rear-end
- Angle
- Single vehicle crash
- Head-on

Crash Severity



- Property damage only (none injured)
- Non-fatal injury
- Not Reported

Follow Up to Previous Questions

- **Can Route 2A be rerouted to MA Route 2?**
 - No, rerouting MA-2A to MA-2 is not likely to alter drivers' decisions on which road to travel
- **Can large truck traffic be excluded from travel on Route 2A ?**
 - No, Route 2A does not meet the requirements for a heavy vehicle exclusion
 - In addition, trucks would still be allowed to use Route 2A to access local destinations

Design Approaches

Widening the Corridor

- Pro: Allows for Dedicated Bike Lanes
- Pro: May increase people biking
- Pro: May allow for people walking in the shoulders
- Pro: Placemaking opportunities
- Con: Wider roadway width may increase vehicular speeds
- Con: May impact historic stonewalls
- Con: May impact wetlands

Traffic Calming

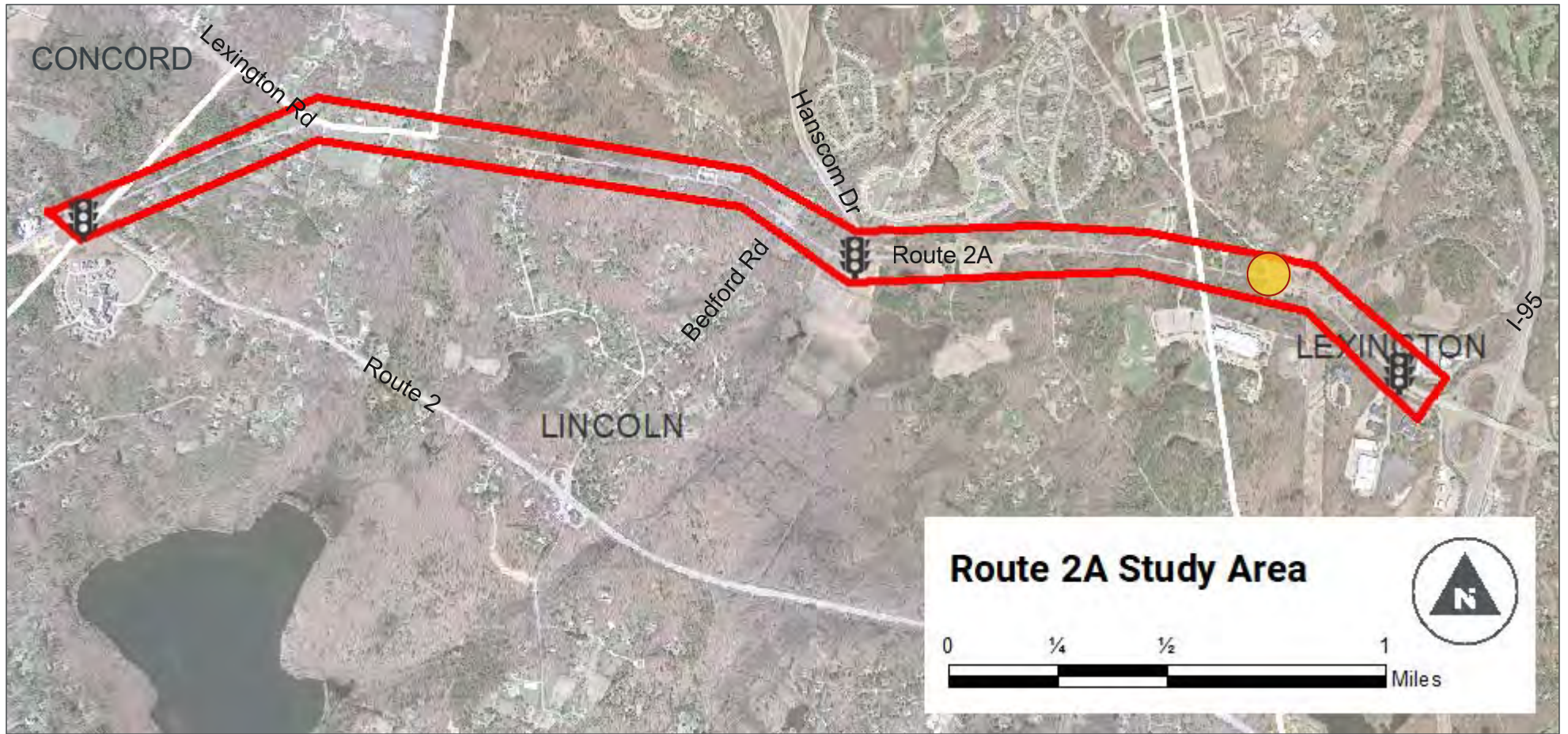
- Pro: Retains width of existing roadway
- Pro: Placemaking opportunities at crossing Islands
- Pro: May not impact historic stonewalls
- Pro: May not impact wetlands
- Con: Does not provide dedicated bike lanes
- Con: Would not provide shoulders for people walking

Concept Designs

Short-term Opportunities

- Repave roadway
- Corridor-wide
 - Speed feedback signs
- Traffic Calming measures
- Add sidewalk on Bedford Road





Study Area

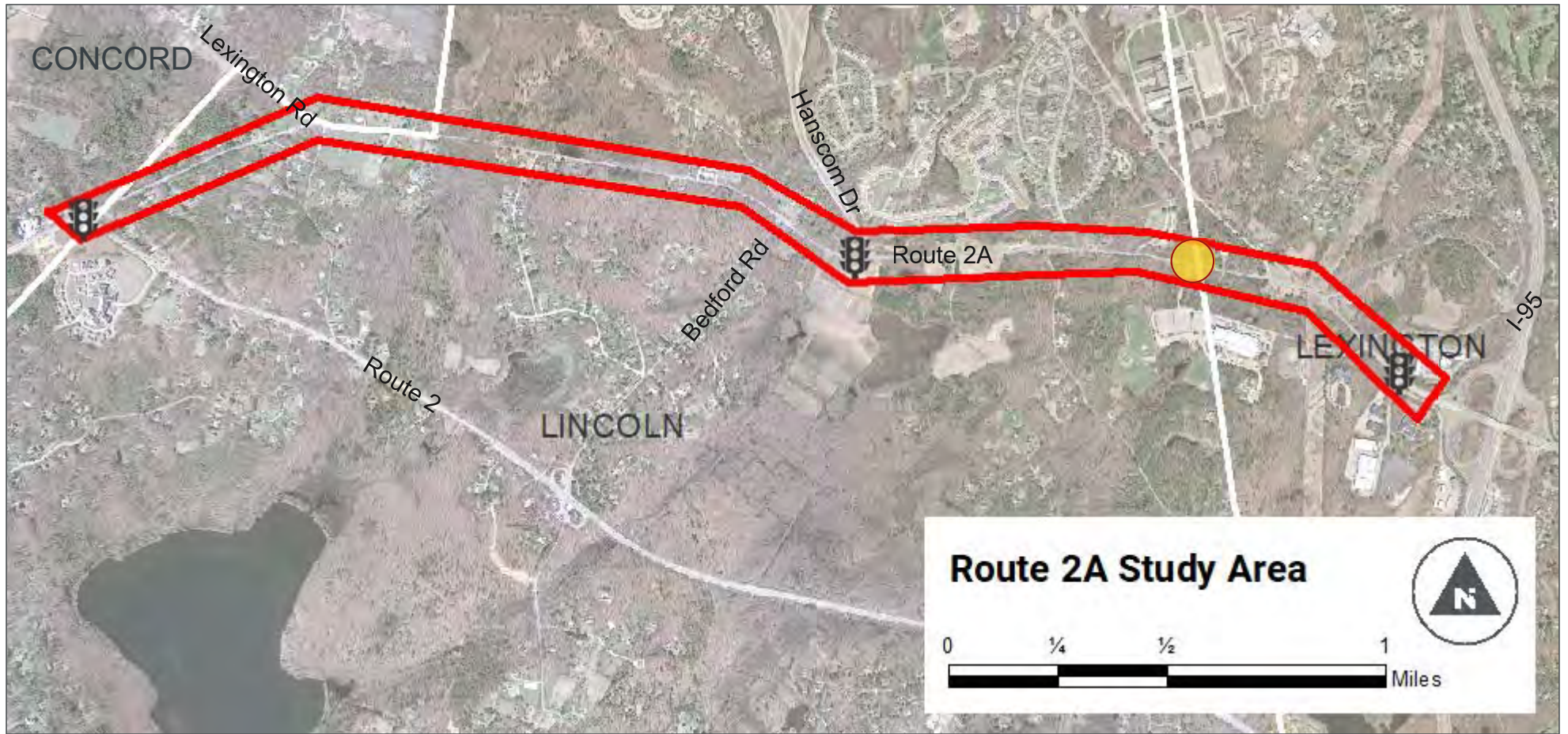
TOOLE
DESIGN



Route 2A at Airport Road

Examples of island treatments



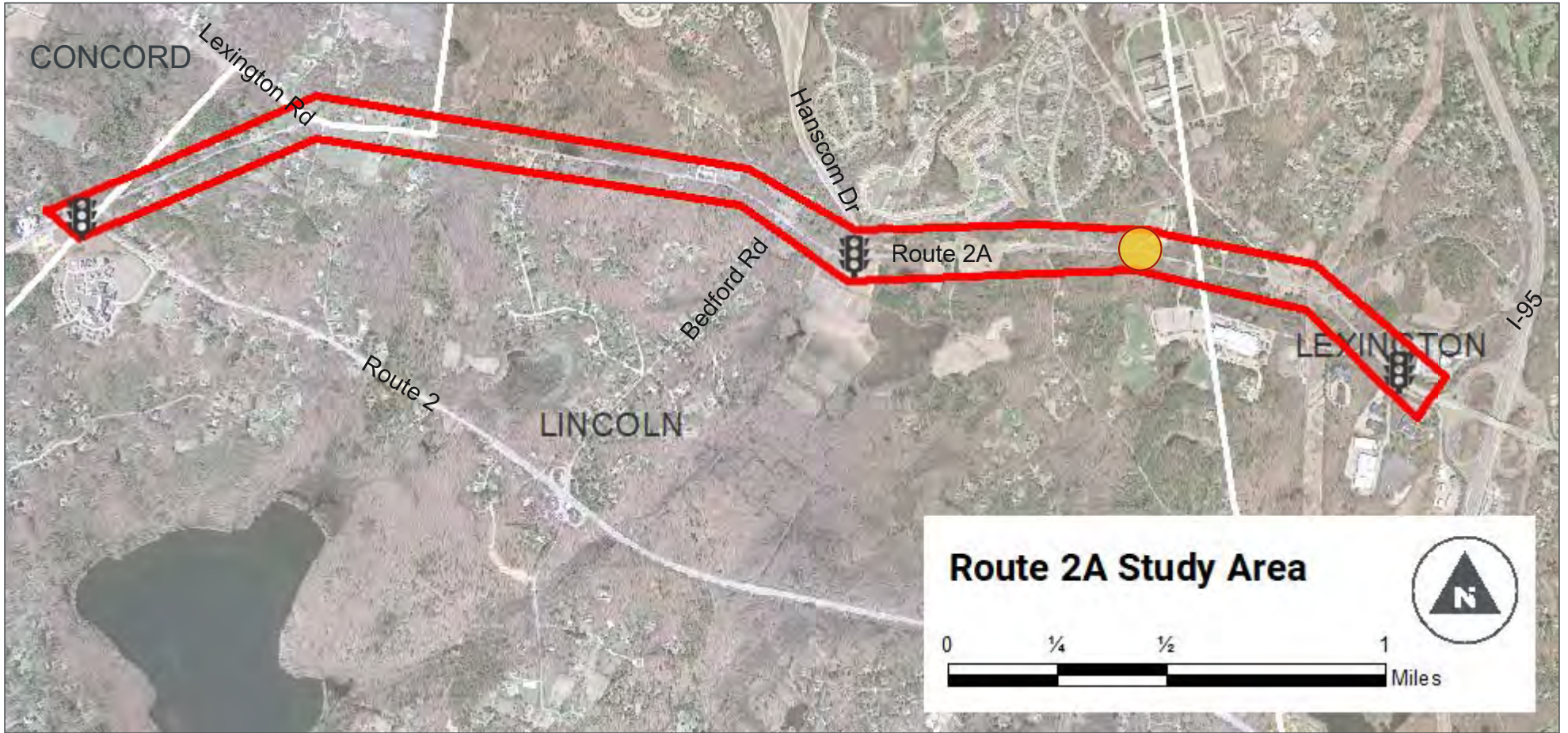


Study Area

TOOLE
DESIGN



Route 2A at Minuteman High School Secondary Driveway

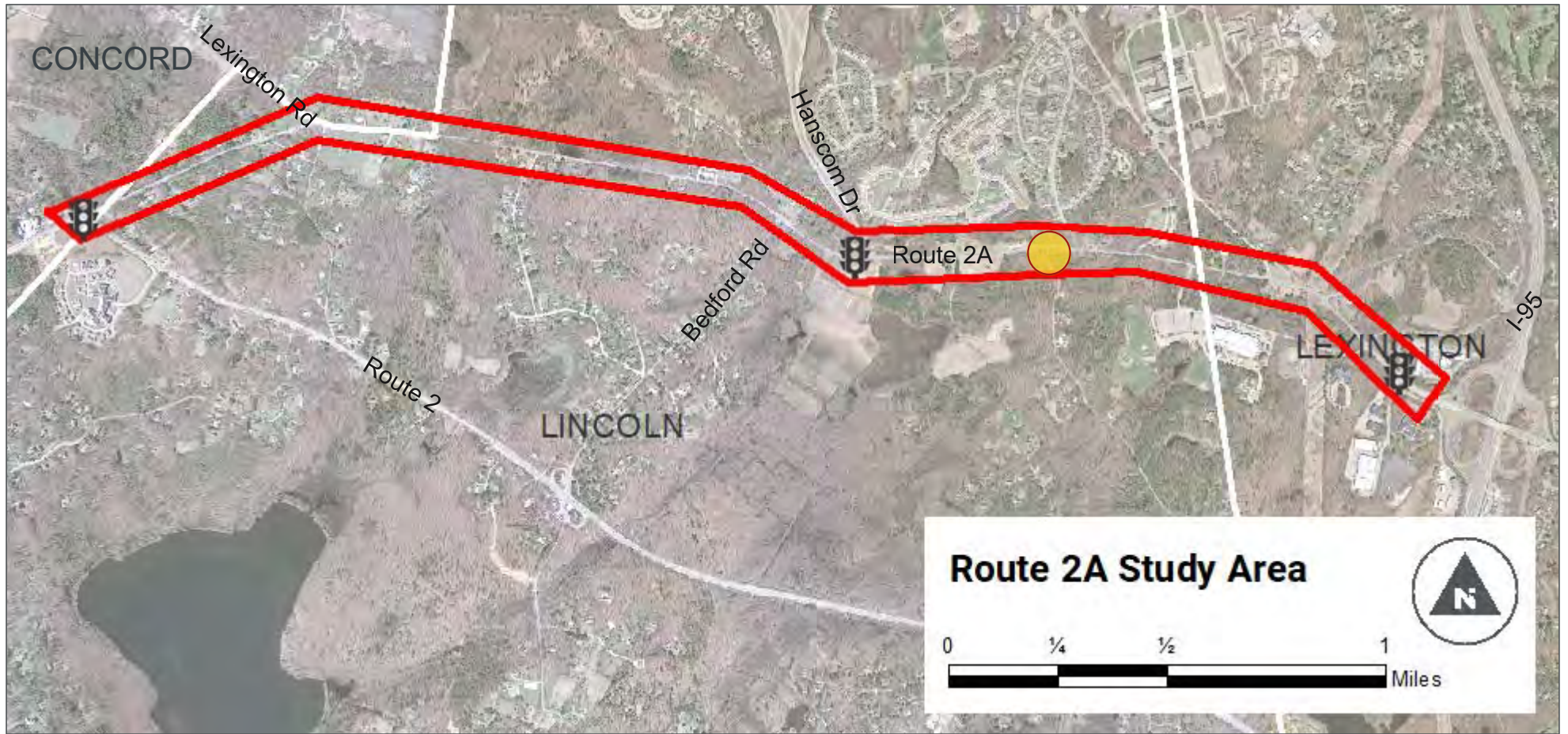


Study Area

TOOLE
DESIGN



Route 2A at Visitor Center

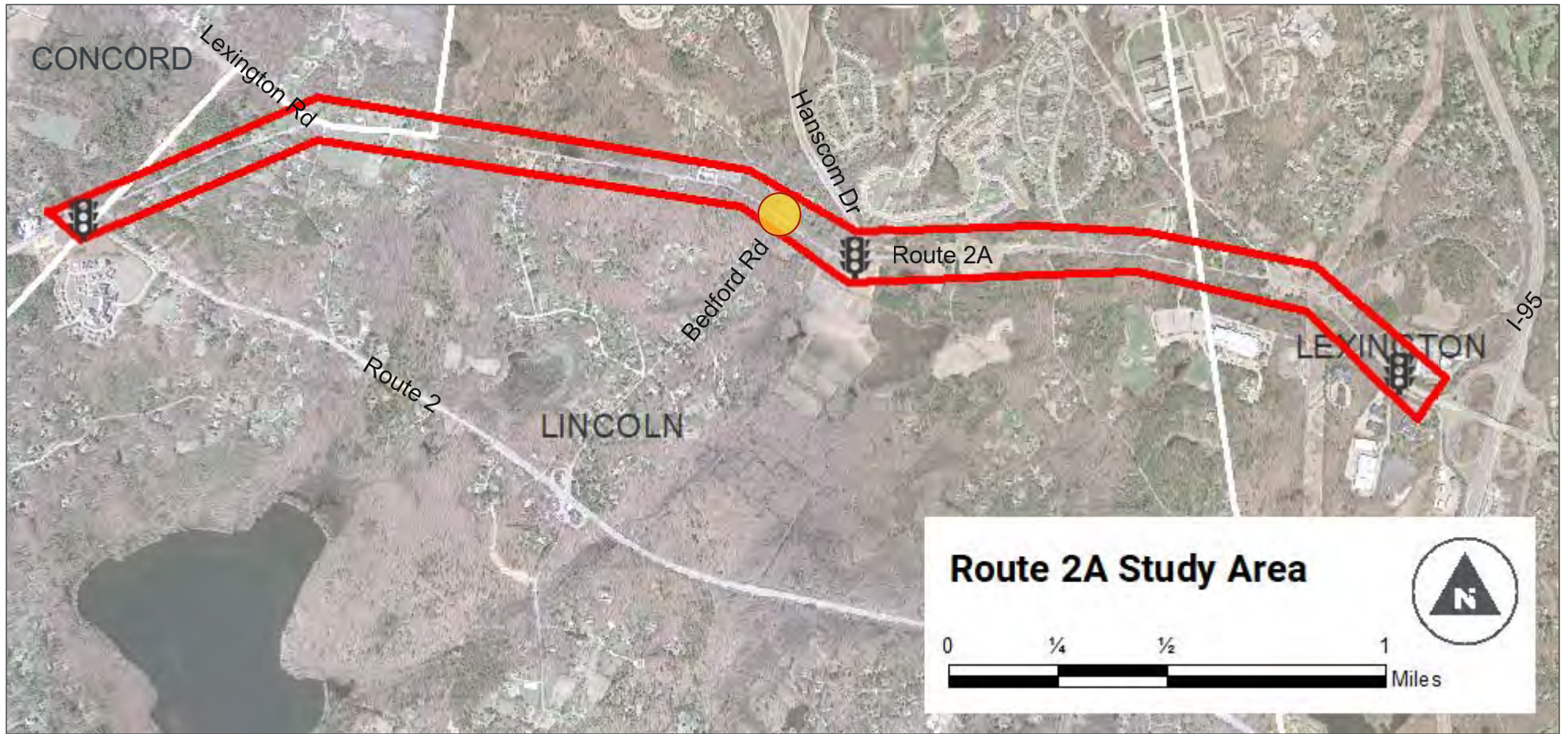


Study Area

TOOLE
DESIGN



Route 2A at Mill Street

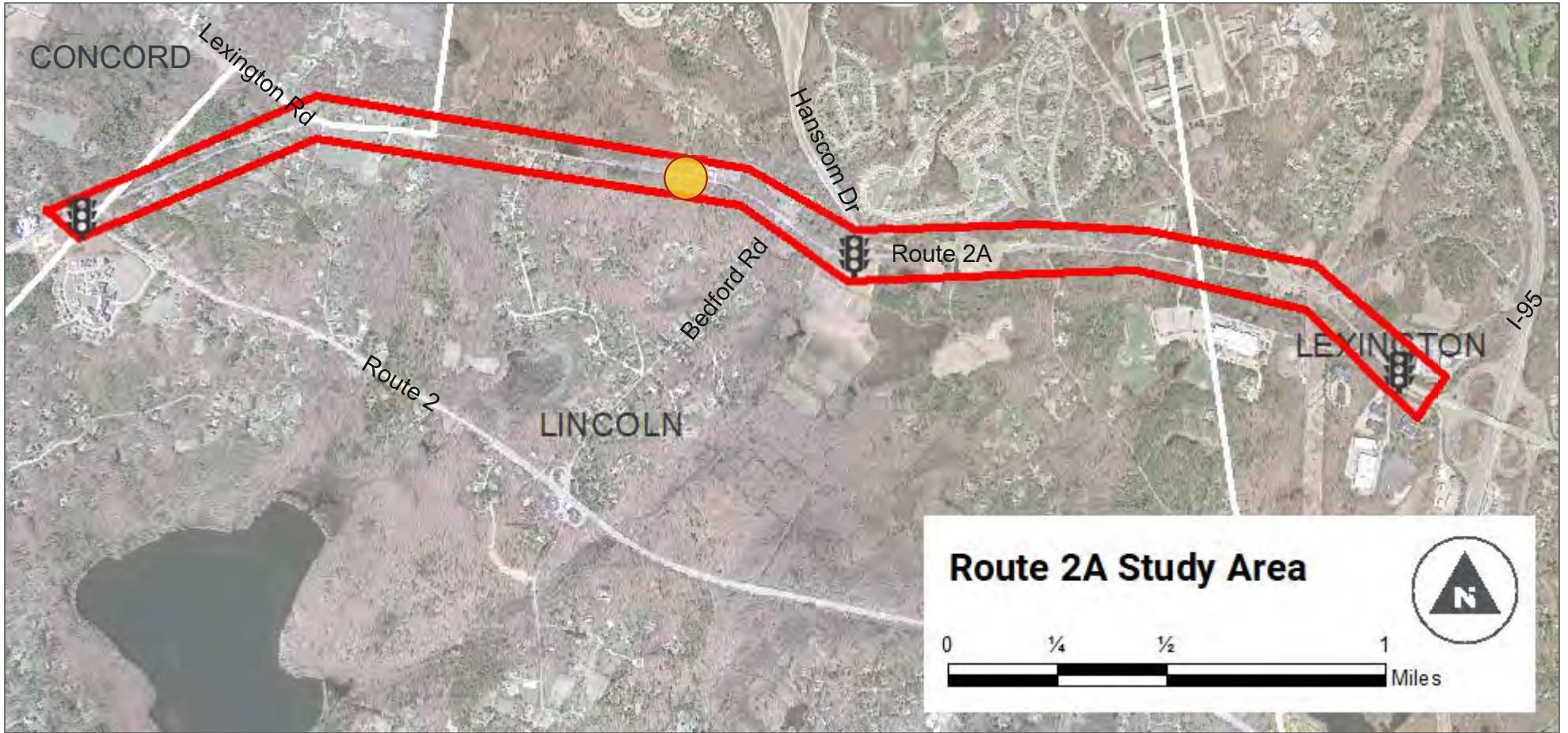


Study Area





Route 2A at Bedford Road

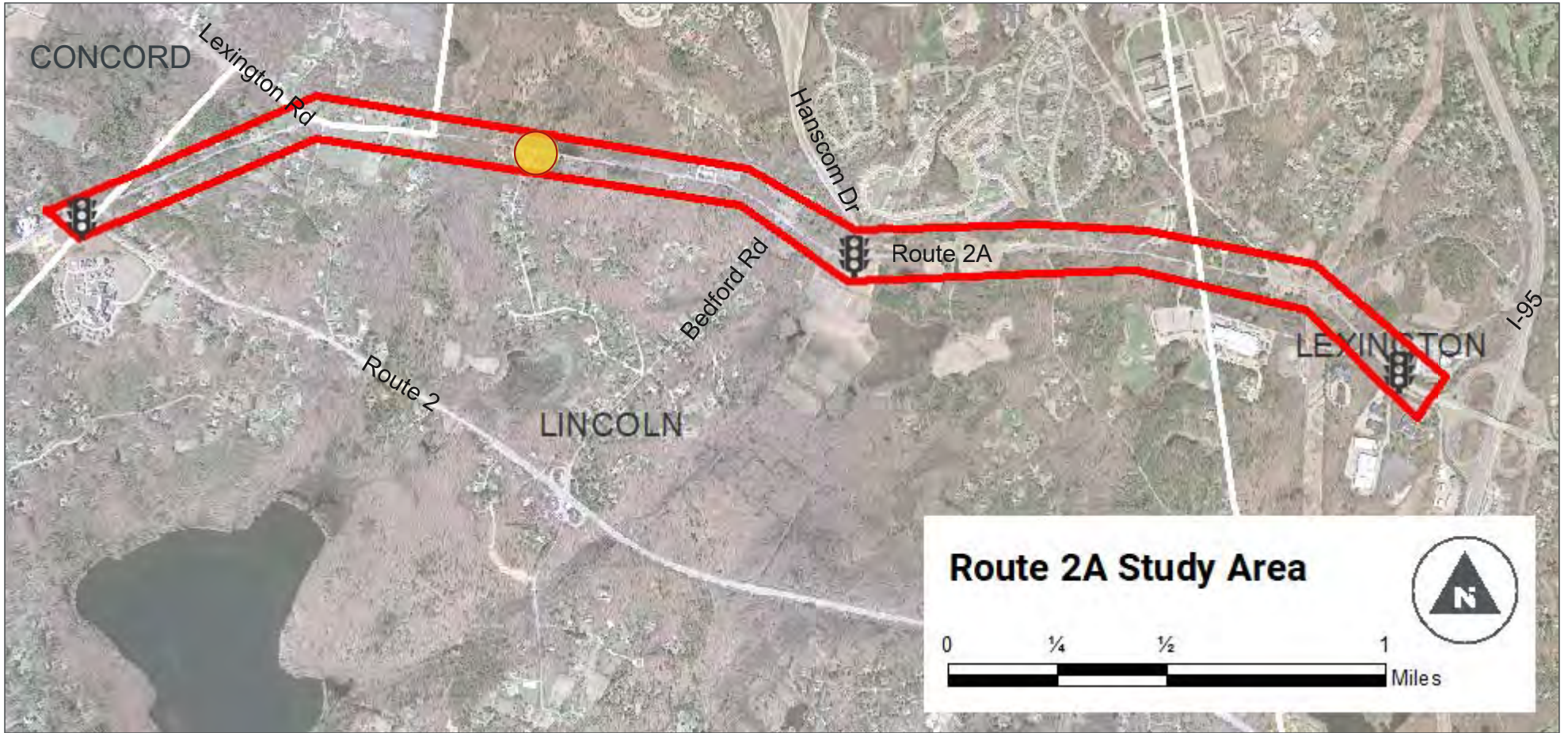


Study Area

TOOLE
DESIGN



Route 2A at Bedford Lane

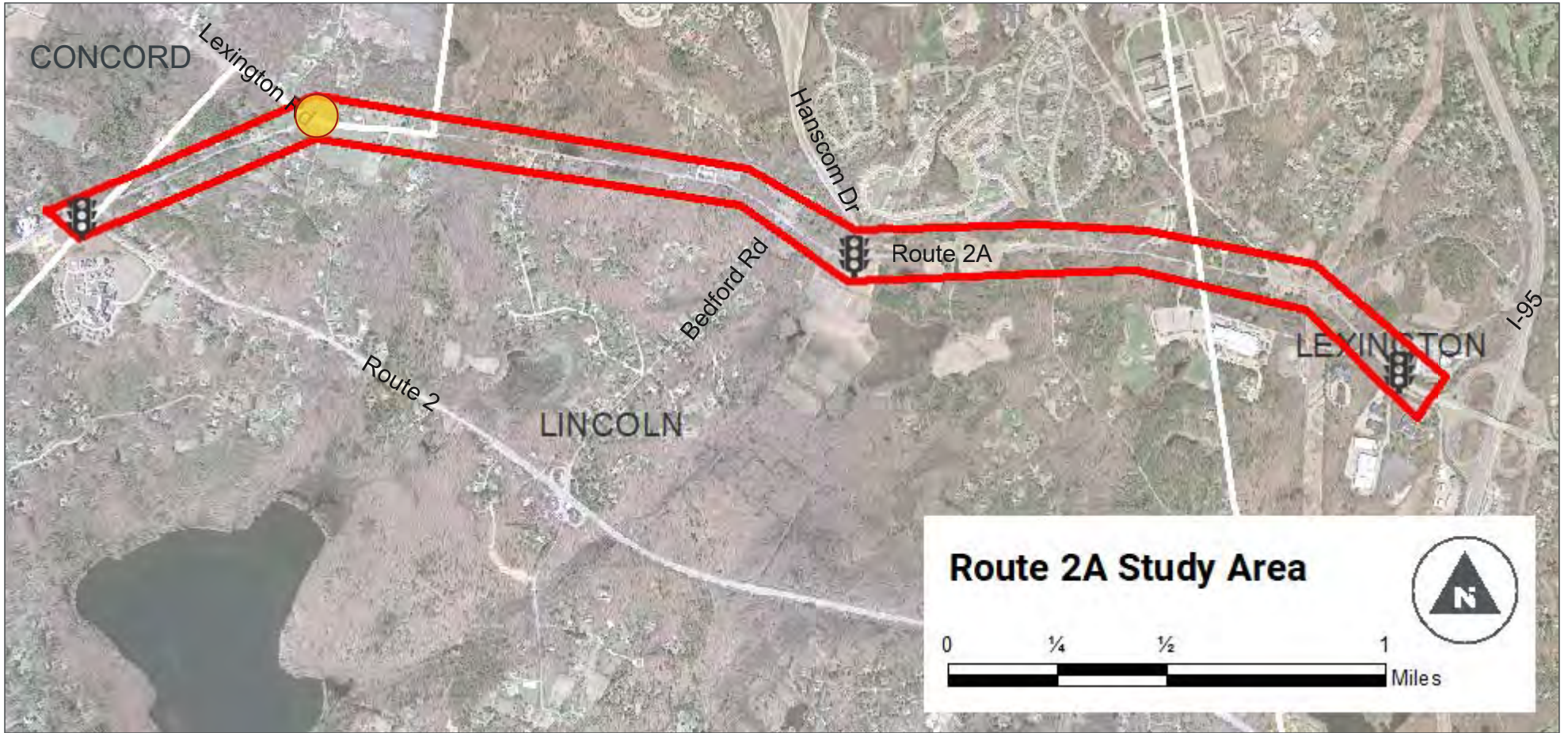


Study Area





Route 2A at Sunnyside Lane



Study Area

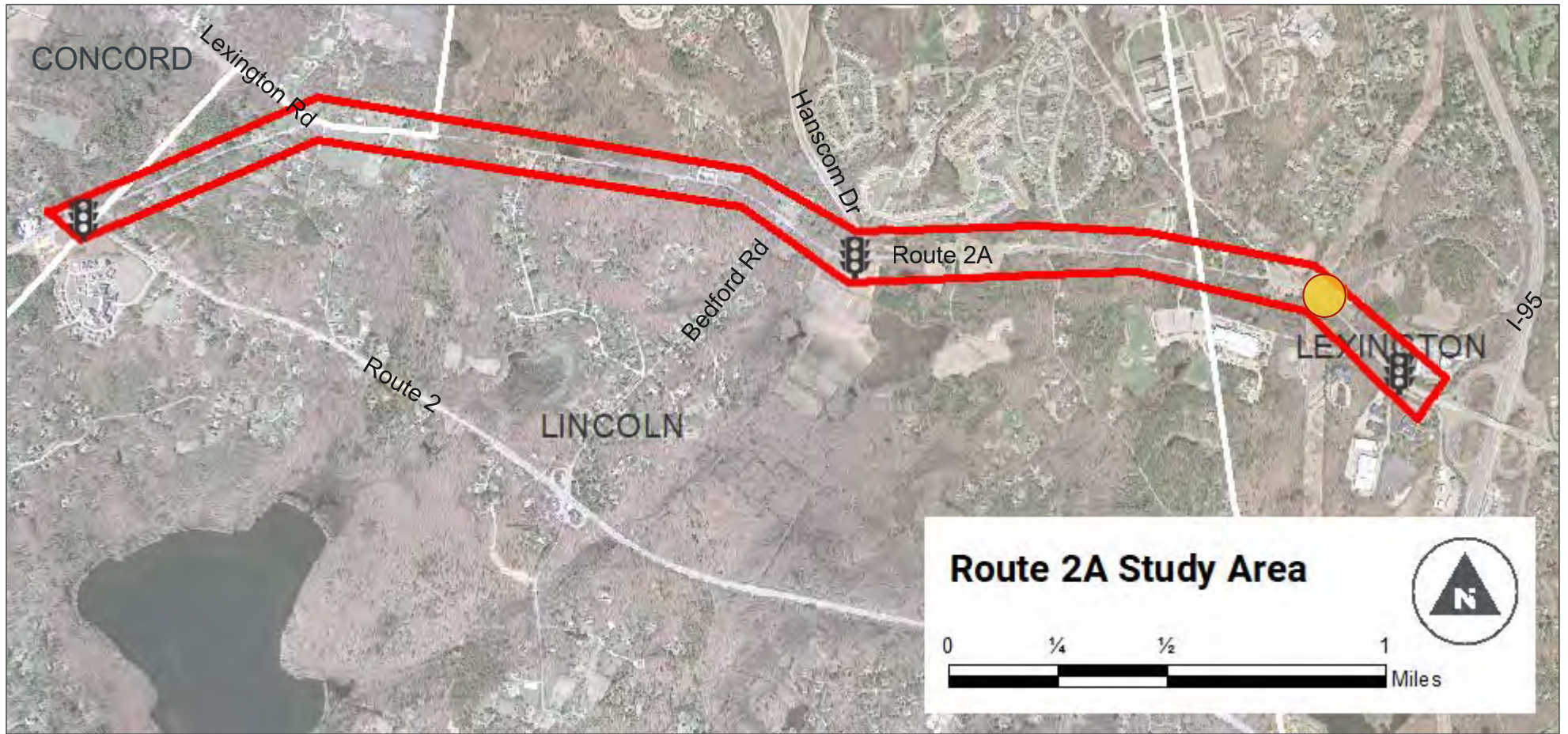
TOOLE
DESIGN



Route 2A at Lexington Road – Concept 2

Long-term opportunities

- Reconstruct major intersections – Additional analysis and design
 - Old Mass Ave
 - Hanscom Drive
- Assess if traffic calming is working as intended.
 - Widen roadway where feasible to accommodate a minimum of 5' bicycle lanes if needed

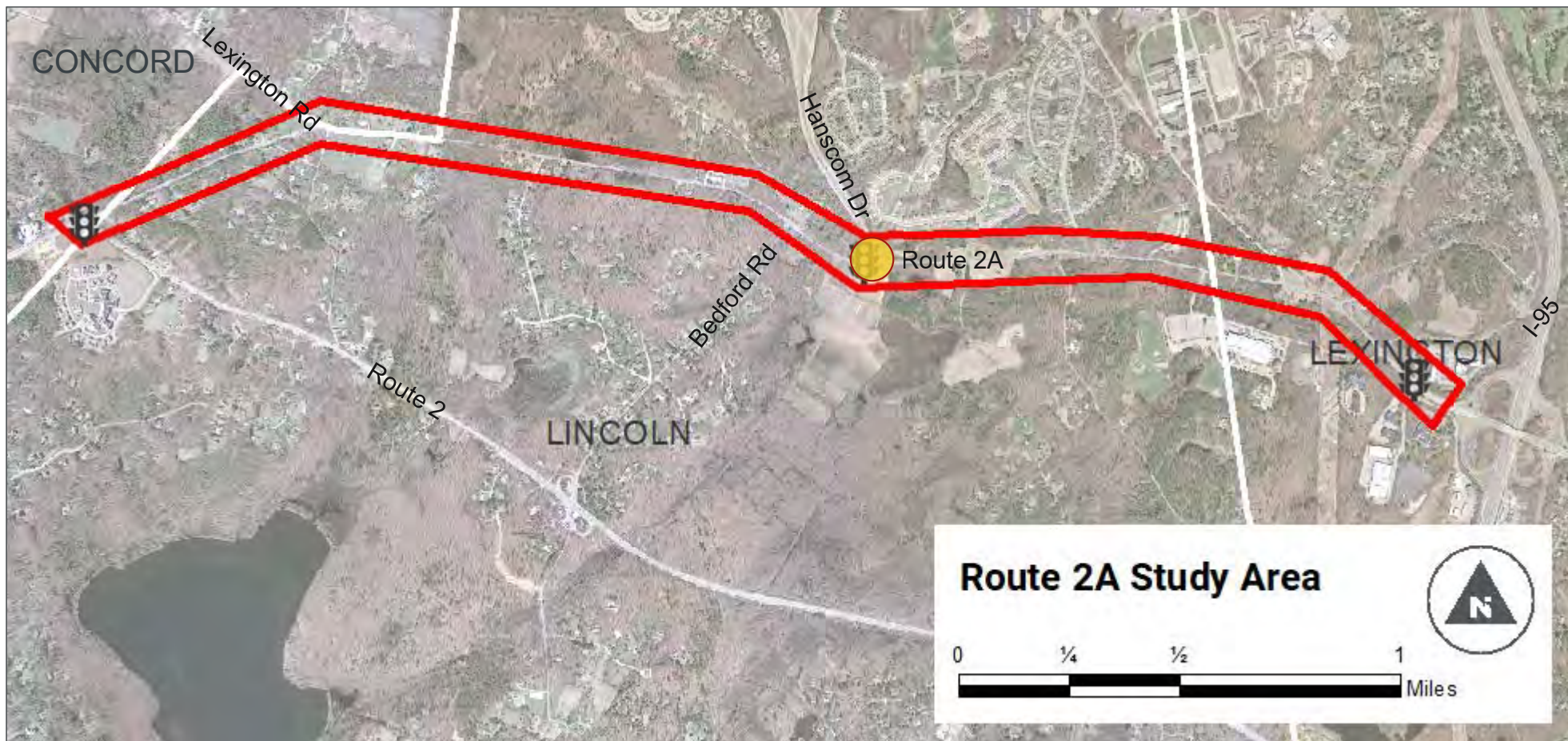


Study Area

TOOLE
DESIGN



Route 2A at Old Mass Ave



Study Area

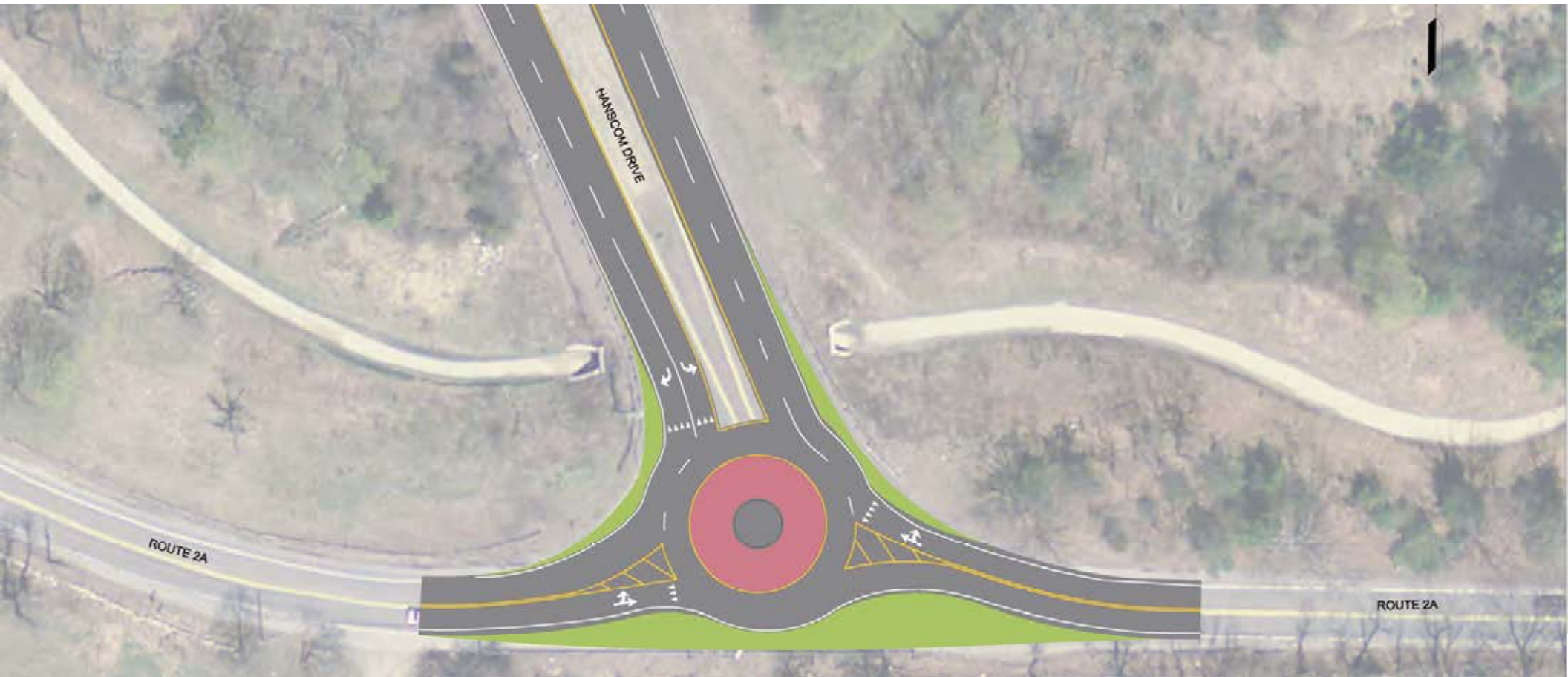
TOOLE
DESIGN



Route 2A at Hanscom Drive – Concept 1



Route 2A at Hanscom Drive – Concept 2



Route 2A at Hanscom Drive – Concept 3

Next Steps

- Incorporate short-term concepts into repaving plan
- Begin Phase 2 for further analysis of long-term concepts

Coordinating Projects

- Route 2A bridge of I-95 Replacement Project (603722)
 - At the revised 25% Design submittal stage
 - The resurfacing project will likely be completed prior to the bridge project, with all parties in coordination

Contact information

- Andrew Wilkins – MassDOT Andrew.Wilkins@state.ma.us
- Karen Fitzgerald – Toole Design KFitzgerald@tooledesign.com
- Taylor Dennerlein – Toole Design TDennerlein@tooledesign.com