

Traffic Study and Short-Term Alternative for Improvements at Intersection of Fellsway East and Highland Avenue in Malden



**Thursday, June 22, 2017 - 7:30 p.m. – 9:00 p.m.
Beebe School Auditorium – 401 Pleasant Street, Malden**



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Lieutenant Governor

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Energy and Environmental Secretary

Matthew A. Beaton

Department of Conservation and Recreation Commissioner

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**Neal Anderson
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Debbie DeMaria**



DCR Mission Statement

To protect, promote and enhance our common wealth of natural, cultural and recreational resources for the well-being of all.



Purpose of Meeting

Present short-term improvements on Fellsway East between Savin Street and E. Border Road and at the intersection of Fellsway East and Highland Avenue in Malden.



Background

- A traffic study was commissioned by DCR to identify the existing operational and safety issues at the intersection of Fellsway East and Highland Avenue along a heavily-traveled corridor used by commuters and local traffic where a number of accidents have occurred.
- The intersection of Fellsway East and Highland Avenue was ranked 77th on the 2006-2008 Statewide Top 200 Intersections Crash List.

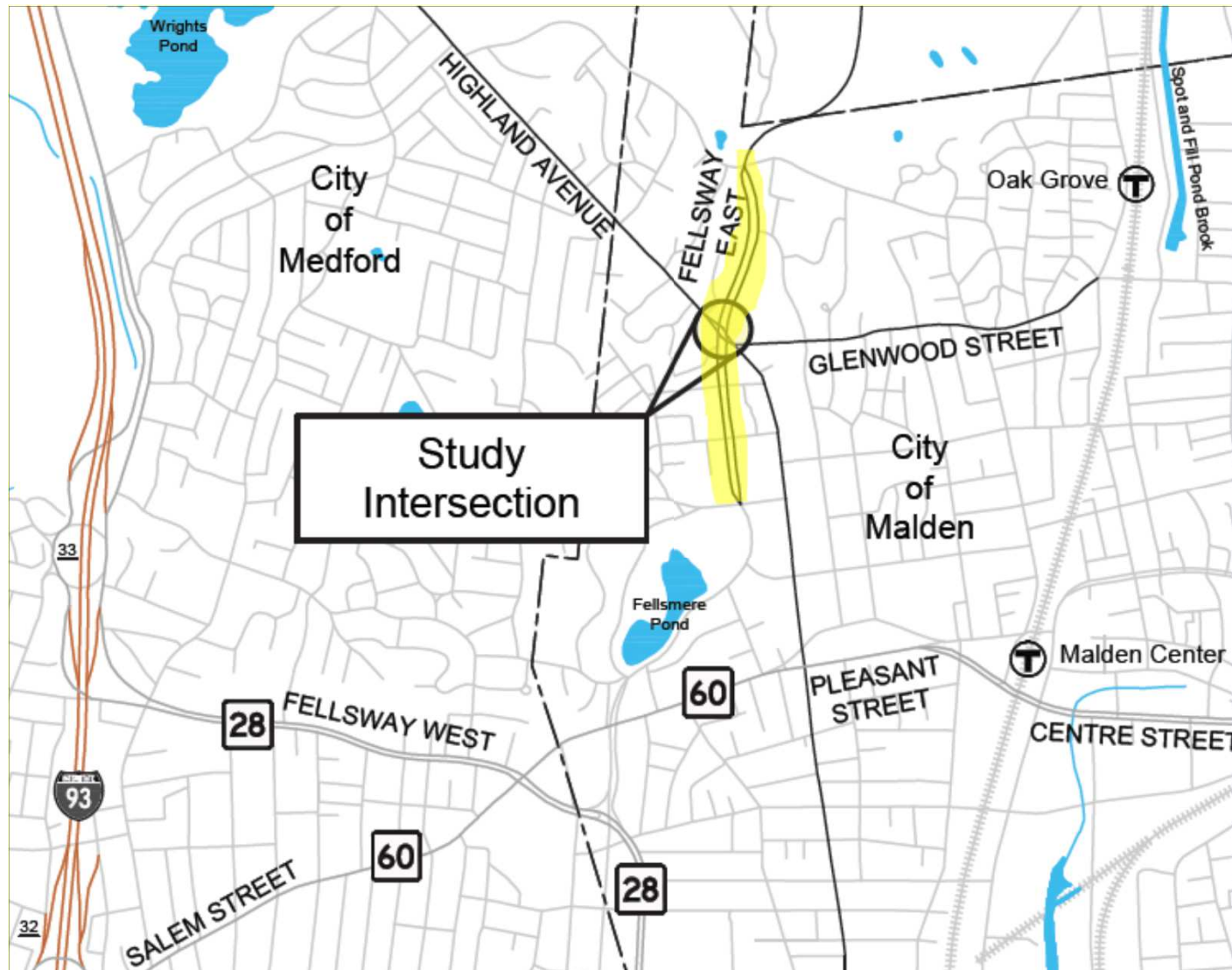


Traffic Study - Consultants

- Traffic study and conceptual designs for intersection improvements – BSC Group and Kittleson & Associates
- Review short-term design recommendations-
Toole Design Group



Consultants Study Area – Fellsway East from Savin St. to E. Border Road and at Highland Ave.





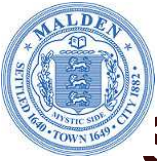
Guiding Principles for Development of Study Alternatives

- Improve intersection operations and clarification
- Reduce number of crashes
- Reduce vehicular speeds
- Improve safety for all users including pedestrians and bicyclists throughout the intersection
- Reduce pavement areas

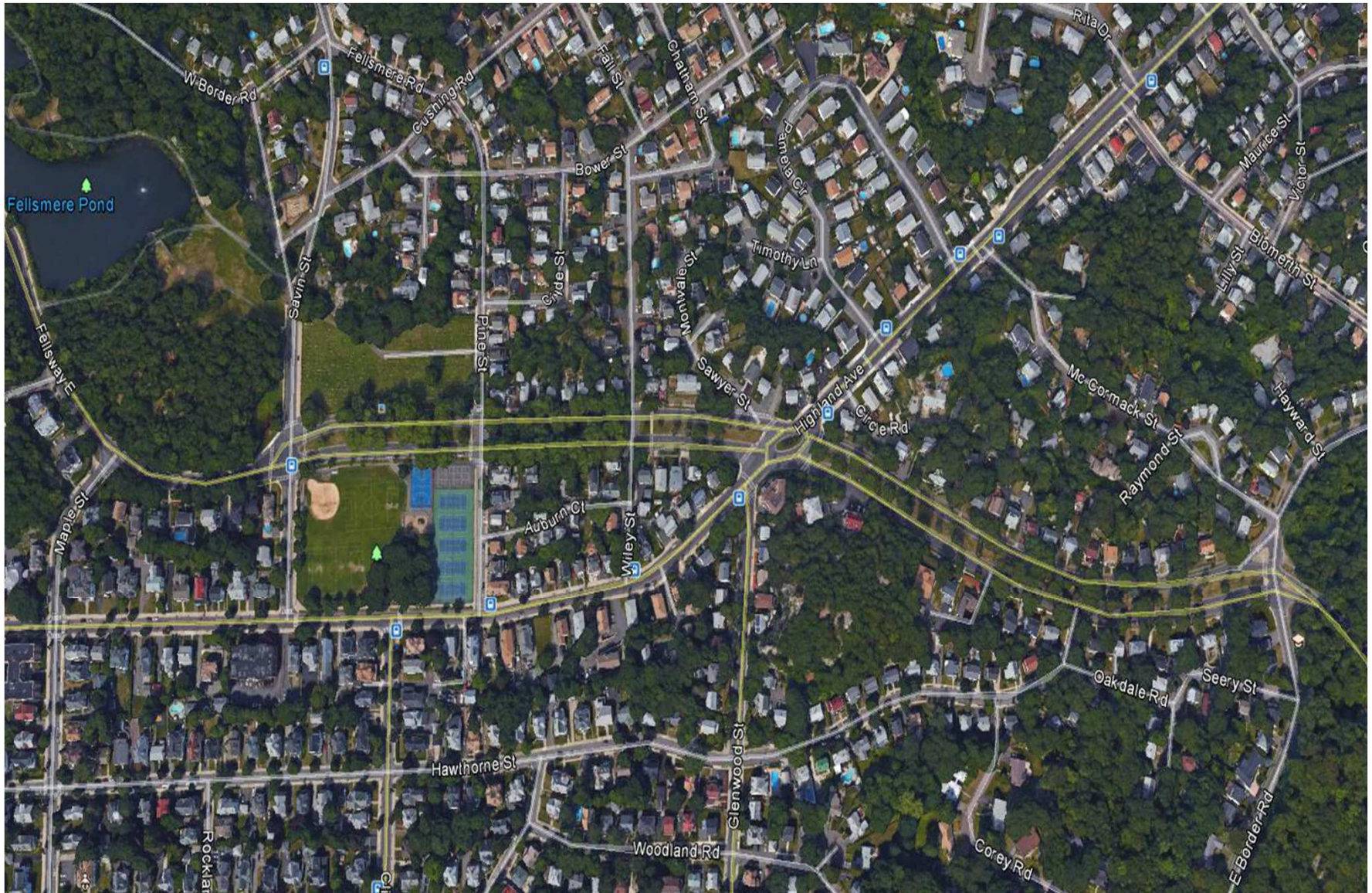


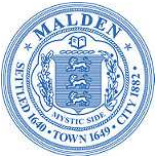
Key Traffic Study Findings

- High number of crashes
- Lack of sufficient traffic control
- Wide pavement areas
- Non-conformance right-of-way rules
- Outdated, conflicting, and missing signs
- Long pedestrian crossings
- High vehicle approach speeds
- High weekday morning peak hour volumes
- Long queues and delays



Short-Term: Concept – Savin St. to E. Border Rd.





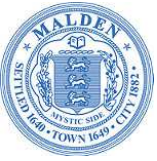
Short-Term: Concept – Savin St. to E. Border Rd.

- Fellsway East is one lane in each direction outside of this section
- Extend the one-lane concept to this entire section of roadway
- Utilize the extra pavement for parking and bicycle facilities
- Cost is low due to use of simple pavement markings and signs, etc.



Recommended Short-Term Improvements

- Short-Term Improvements
 - Install buffered bike lanes to reduce number of travel lanes to one-lane concept in each direction of Fellsway East
 - Install signs, including speed limit signs
 - Reconfigure skewed intersections at Sawyer Street, as well as at Glenwood Street near Highland Avenue, for safer perpendicular intersection configuration



Improving Connections

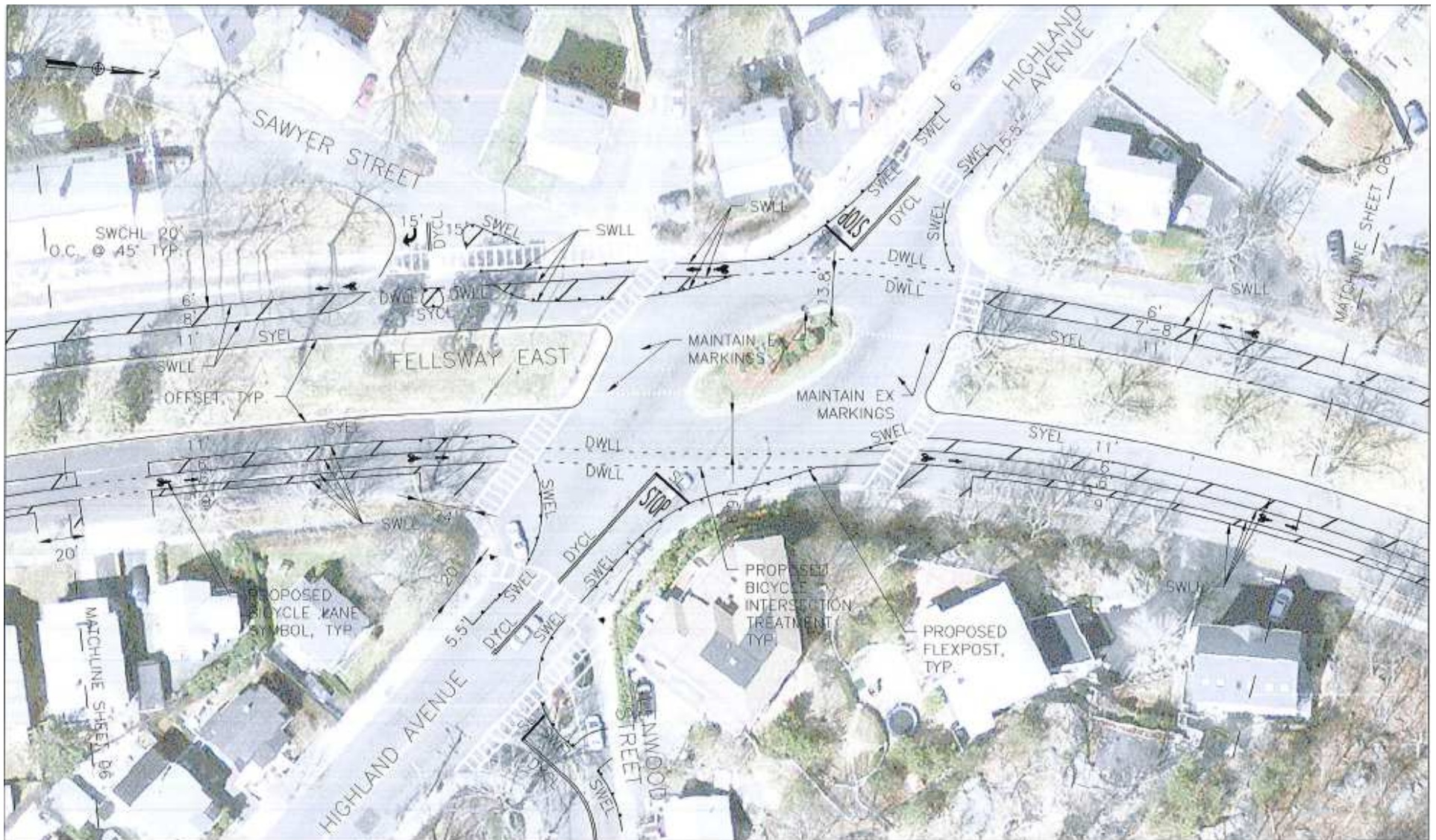
- Improves multi-model transportation connections
- Provides opportunity to add bicycle facilities
- Increases safety for all roadway users
- Improves visibility and predictability
- Encourages slower speeds
- May include physical separation for motorists

Buffered Bike Lane





Short-Term: Improvements Recommended

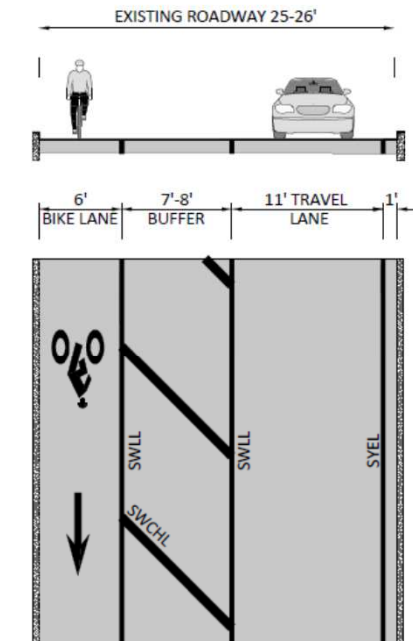




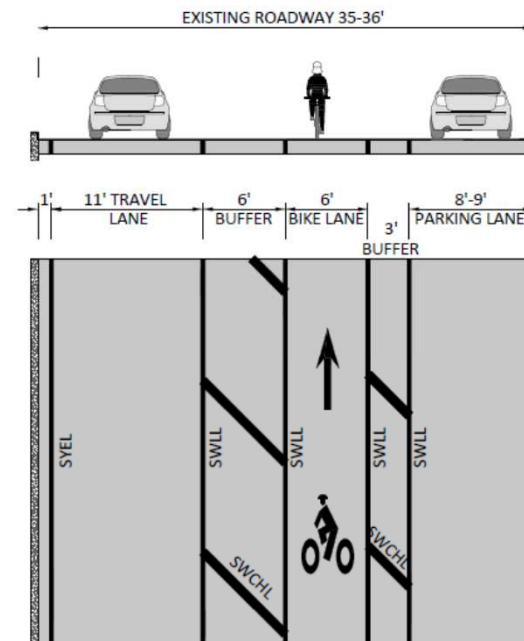
Short-Term: Improvements – Recommended Lane Configurations



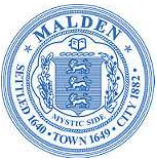
- Add buffered bike lanes
- Clarify traffic controls
- Reduce pedestrian crossings
- Reduce travel lanes



TYPICAL CROSS SECTION FOR
FELLSWAY EAST SB
BETWEEN SAVIN STREET AND EAST BORDER ROAD



TYPICAL CROSS SECTION FOR
FELLSWAY EAST NB
BETWEEN SAVIN STREET AND EAST BORDER ROAD



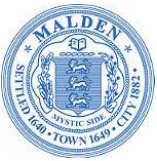
Short-Term: Recommended Improvements Buffered Bicycle Lanes



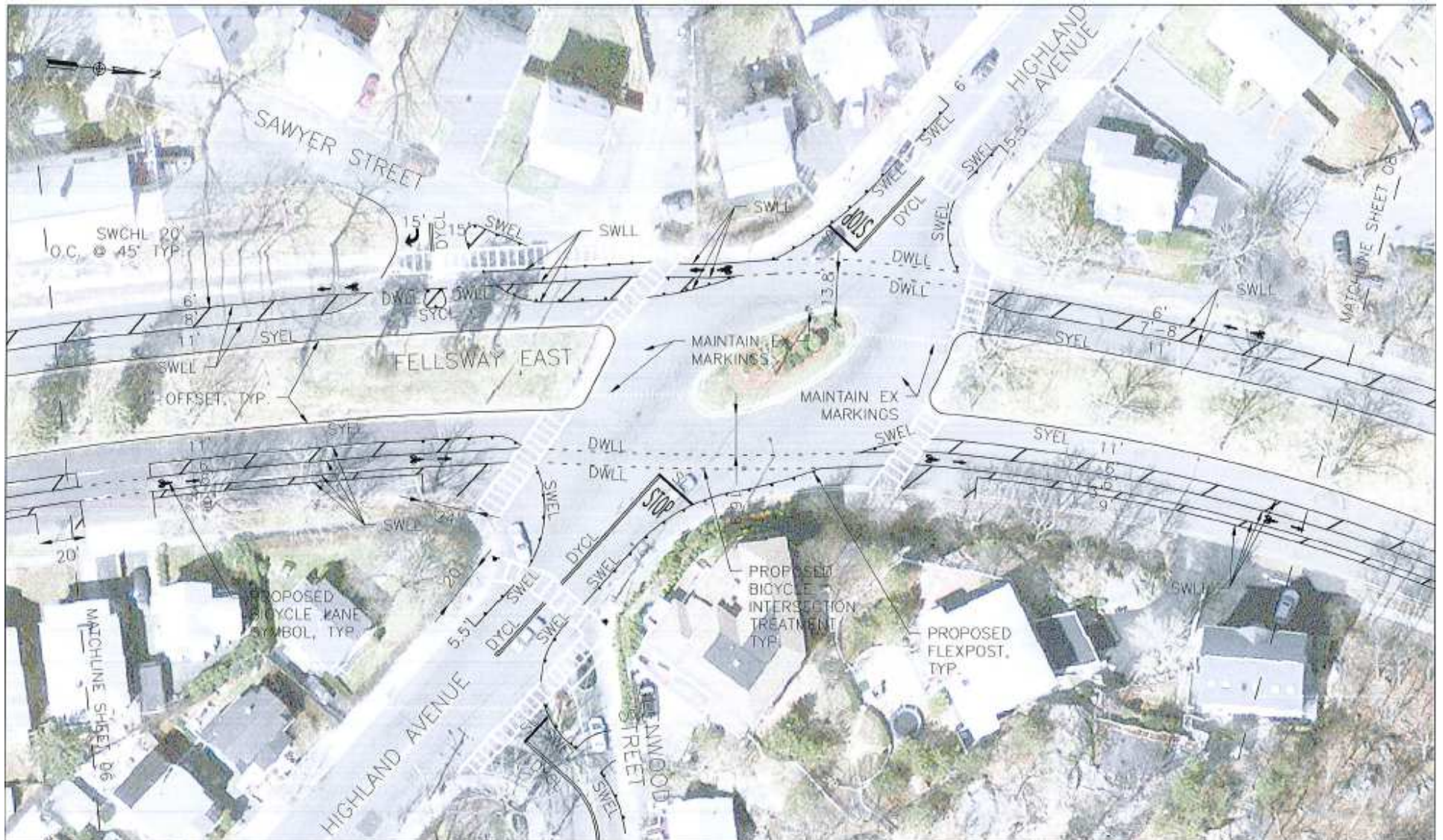


Short-Term: Recommended Improvements Reduce to One Travel Lane





Short-Term: Recommended Improvements Reconfigured Intersections





Short-Term: Recommended Improvements





Short-Term: Recommended Improvements





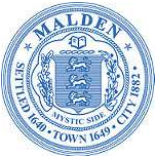
Preliminary Cost Estimates/Schedule

- Recommended Short-Term Alternative
 - \$50k to \$100k
 - Fall 2017



Long-Term Recommendations

- Long-Term Modifications
 - Alternative 1: **Signalization**
 - Alternative 2: **Roundabout**
- Long-Term Improvements for all users and pedestrians requires further study.



Q&A/Discussion



Additional Information



For more information:

<http://www.mass.gov/eea/agencies/dcr/public-outreach/public-meetings/>

<http://www.mass.gov/eea/agencies/dcr/conservation/planning-and-resource-protection/projects/malden-traffic-study.html>

If you have questions or concerns or wish to subscribe to a DCR general information or project-related listserv: contact DCR's Office of Community Relations at 617-626-4973 or Mass.Parks@state.ma.us.