

Intersection Improvements for West Main Street at School Street



Town of Hopkinton

Tuesday, March 6, 2012



INTRODUCTIONS

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EXISTING CONDITIONS

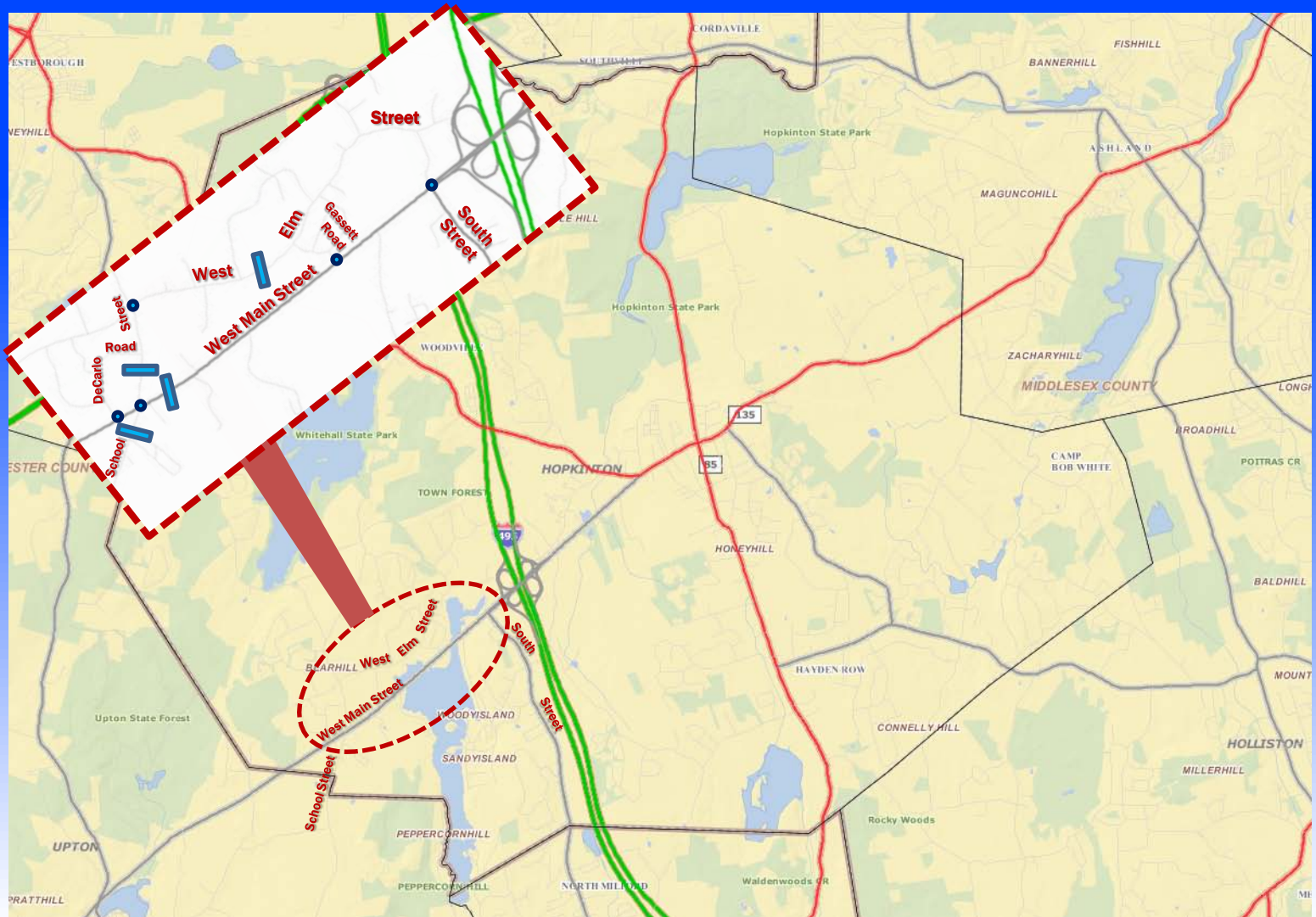
- Stop Sign Controlled Intersection
- Primary route between Upton and I-495
- Delays along minor (stop-controlled) movements
- Several instances of severe crashes and near misses

OBJECTIVE

- Examine alternatives at the School Street intersection to:
 - Reduce delay on stop-controlled movements
 - Reduce frequency and severity of crashes
- Identify short term improvement at the South Street intersection
- Evaluate impacts on surrounding roadways



STUDY AREA



- Peak Hour Turning Movement Count Locations
- ▬ Daily Traffic Count Locations



EXISTING CONDITIONS



2011 Morning (Evening) Peak Hour Traffic Volumes



SHORT TERM IMPROVEMENT



Existing Intersection Configuration



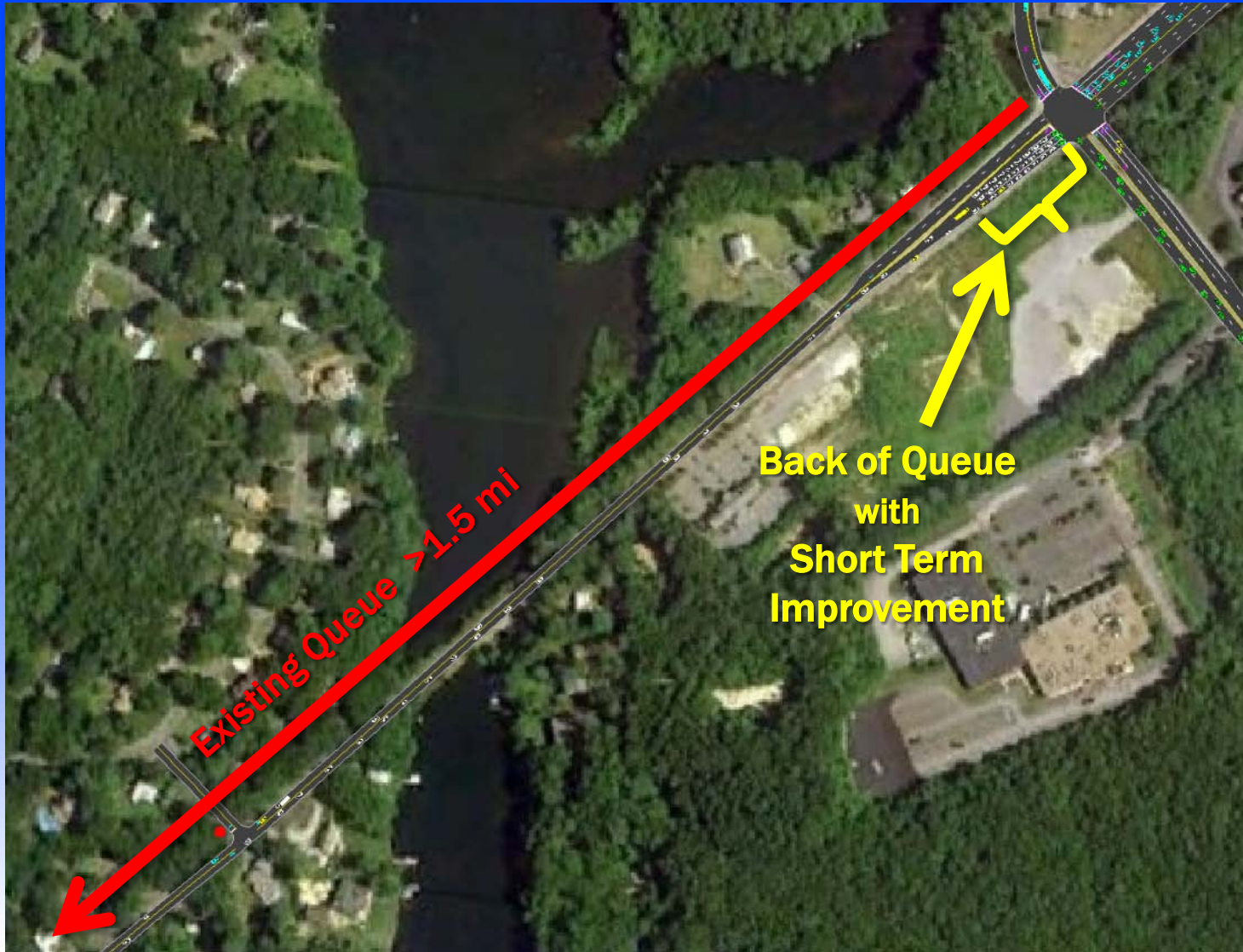
SHORT TERM IMPROVEMENT



Proposed Intersection Configuration



SHORT TERM IMPROVEMENT



West Main Street Eastbound Vehicle Queue



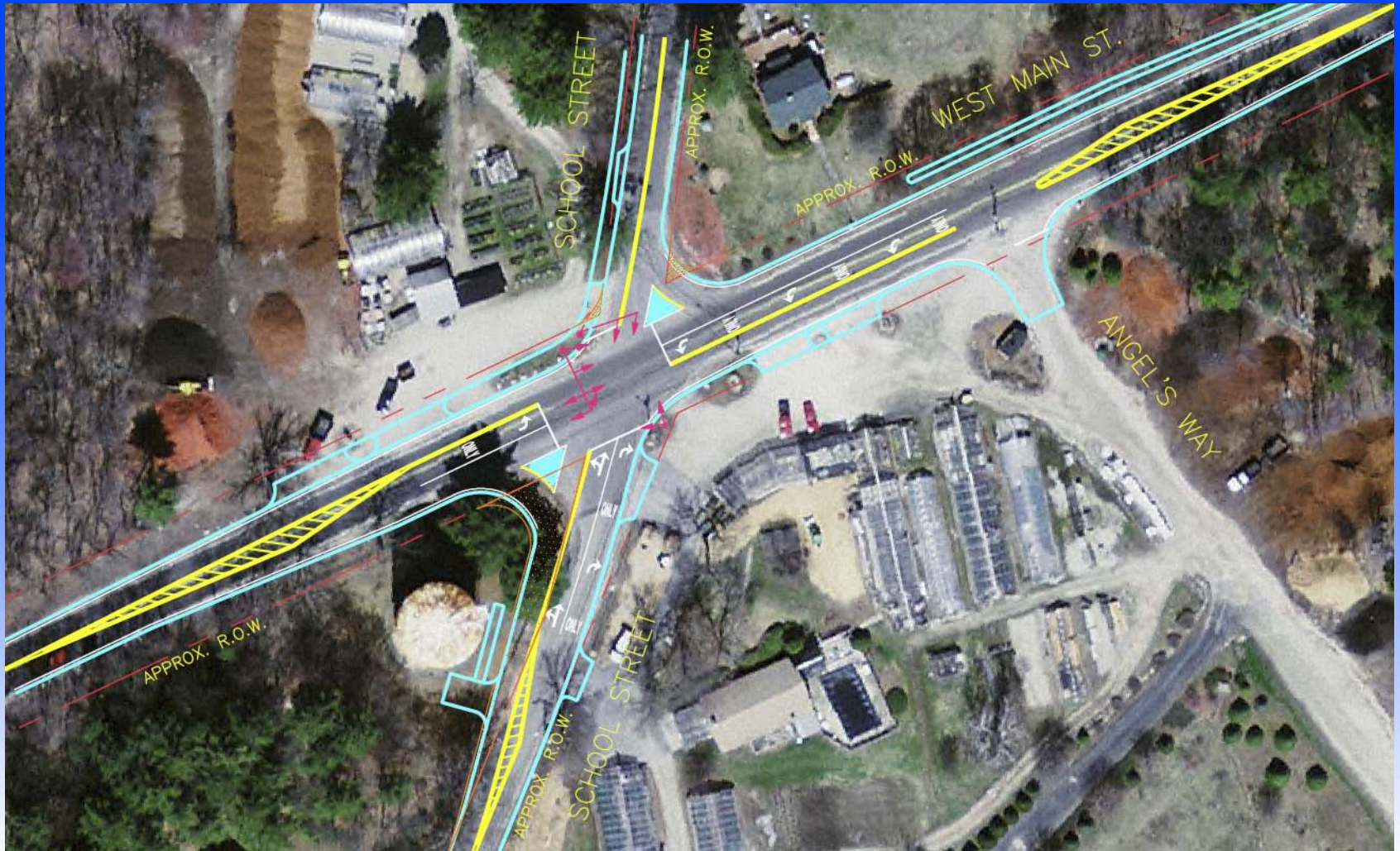
FUTURE CONDITIONS



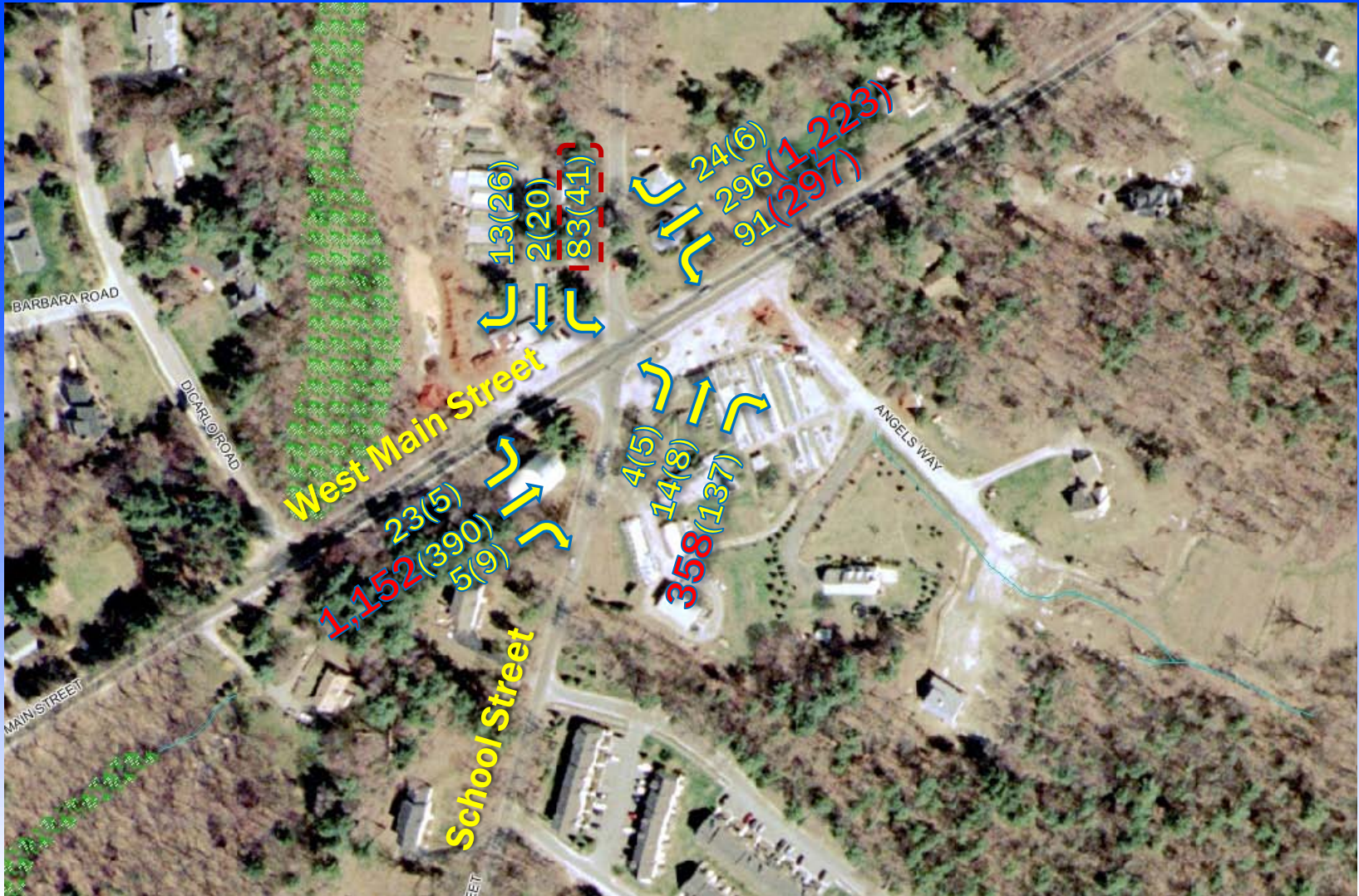
2021 Morning (Evening) Peak Hour Traffic Volumes



PROPOSED IMPROVEMENTS



PROPOSED IMPROVEMENTS



2021 Morning (Evening) Peak Hour Traffic Volumes
Including reassigned cut-through traffic



PROPOSED IMPROVEMENTS



2021 Morning Peak Hour – Typical Vehicle Queues



PROPOSED IMPROVEMENTS



2021 Evening Peak Hour – Typical Vehicle Queues



COST ESTIMATE

➤ **Topographic Survey** **\$10,000**

➤ **Final Design*** **\$35,000**

*Additional Environmental Permitting and Right-of-Way efforts to be evaluated during Final Design
(anticipated in the order of \$10,000)

➤ **Construction** **\$455,000**

➤ **Bid & Construction Phase Services** **\$30,000**



FUNDING OPTIONS

➤ **MassWorks Infrastructure Program**

- Administered by the Executive Office of Housing and Economic Development
- Town reviews design and administers construction
- Applied in September 2011
- Highly competitive – Project not selected

➤ **State Transportation Improvement Program (TIP)**

- Administered by Boston Region MPO and MassDOT
- MassDOT reviews design and administers construction
- Highly competitive multi-year program
- Currently applying for inclusion in FY 2013-2016 TIP

➤ **Town Funds**

- Town reviews and controls project – No MassDOT review/approval
- Construction can begin when funding is allocated



NEXT STEPS

- **Secure Funding**
- **Topographic Survey**
- **Final Design**
- **Construction**



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