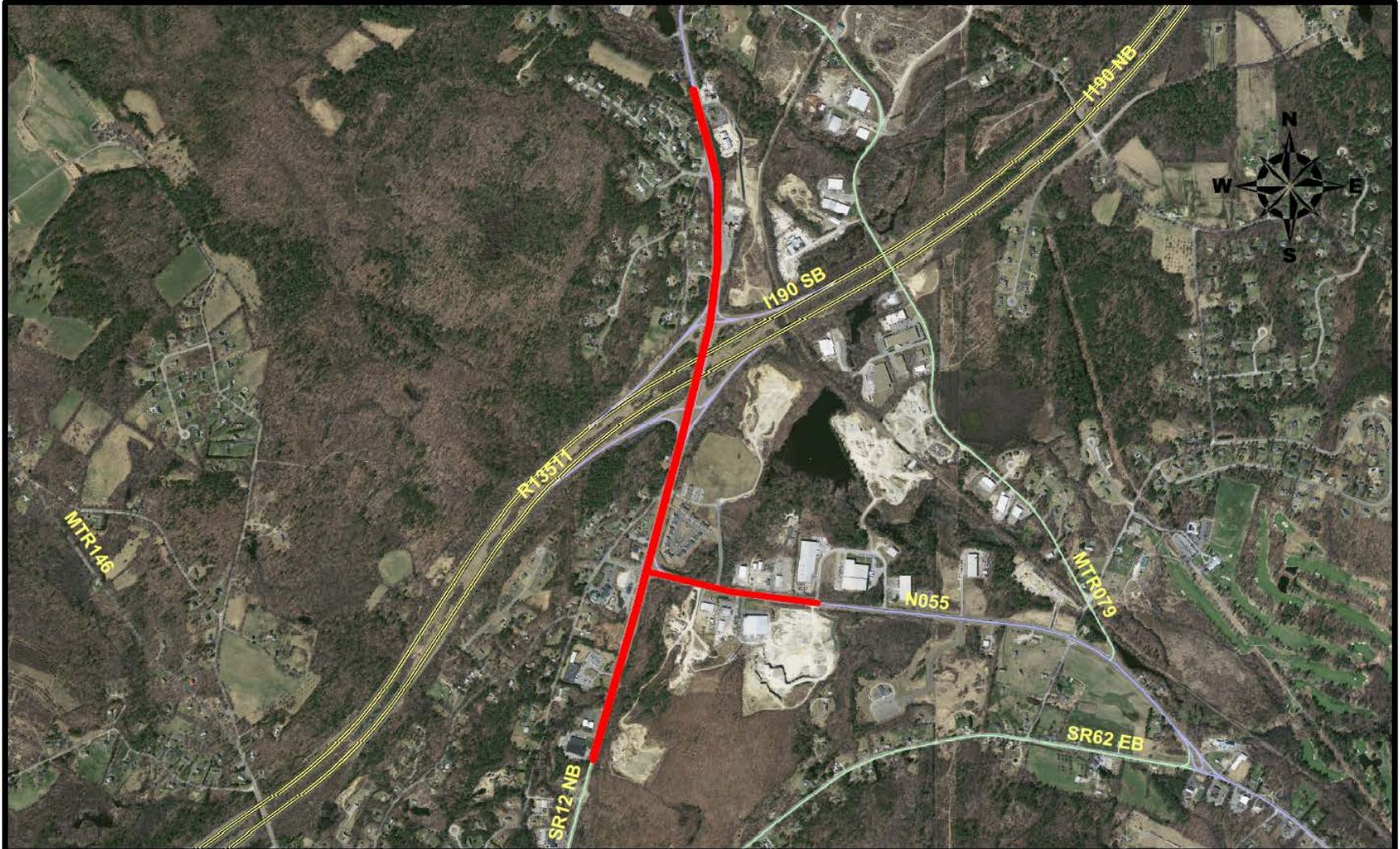


Sterling Route 12 at I-190 and Chocksett Road

Intersection and Corridor Improvements

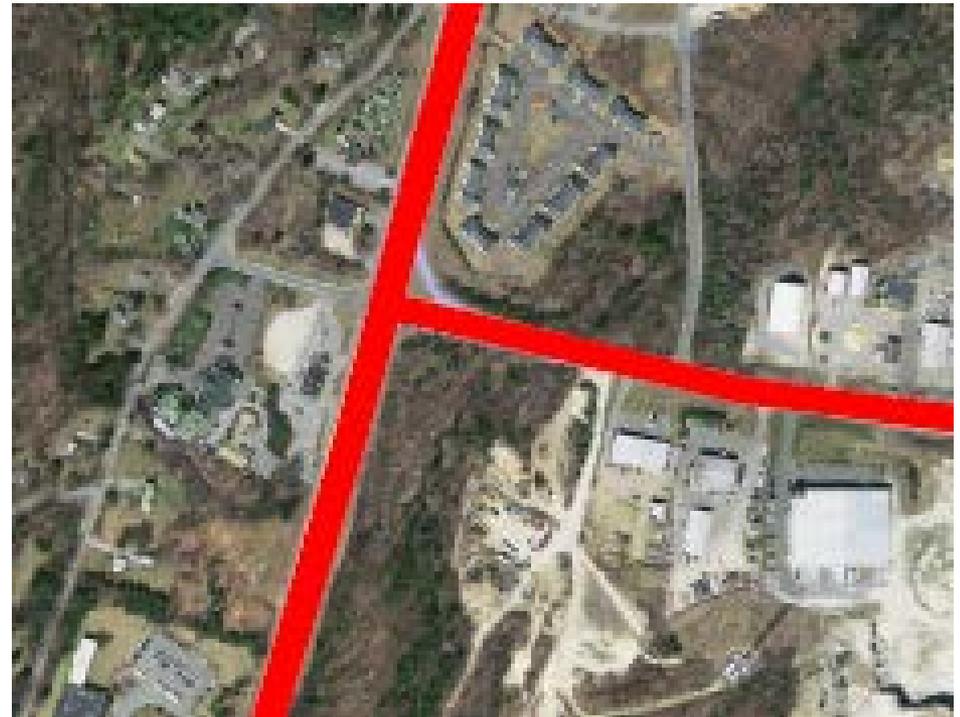
Presenter: Andrew Paul, Project Manger, MassDOT Design Section

Sterling Route 12



Chocksett Road at Route 12

- High Crash Location
- High Crash Severity
- Triggered a Road Safety Audit (RSA)



Route 12 Corridor

Project Goals

- Safety
 - Accommodate All Users
- Right-size the roadway cross section
 - Traffic Volumes (Current and Future)
 - Avoid impacts to Right of Way
 - Maintain existing access points along the corridor

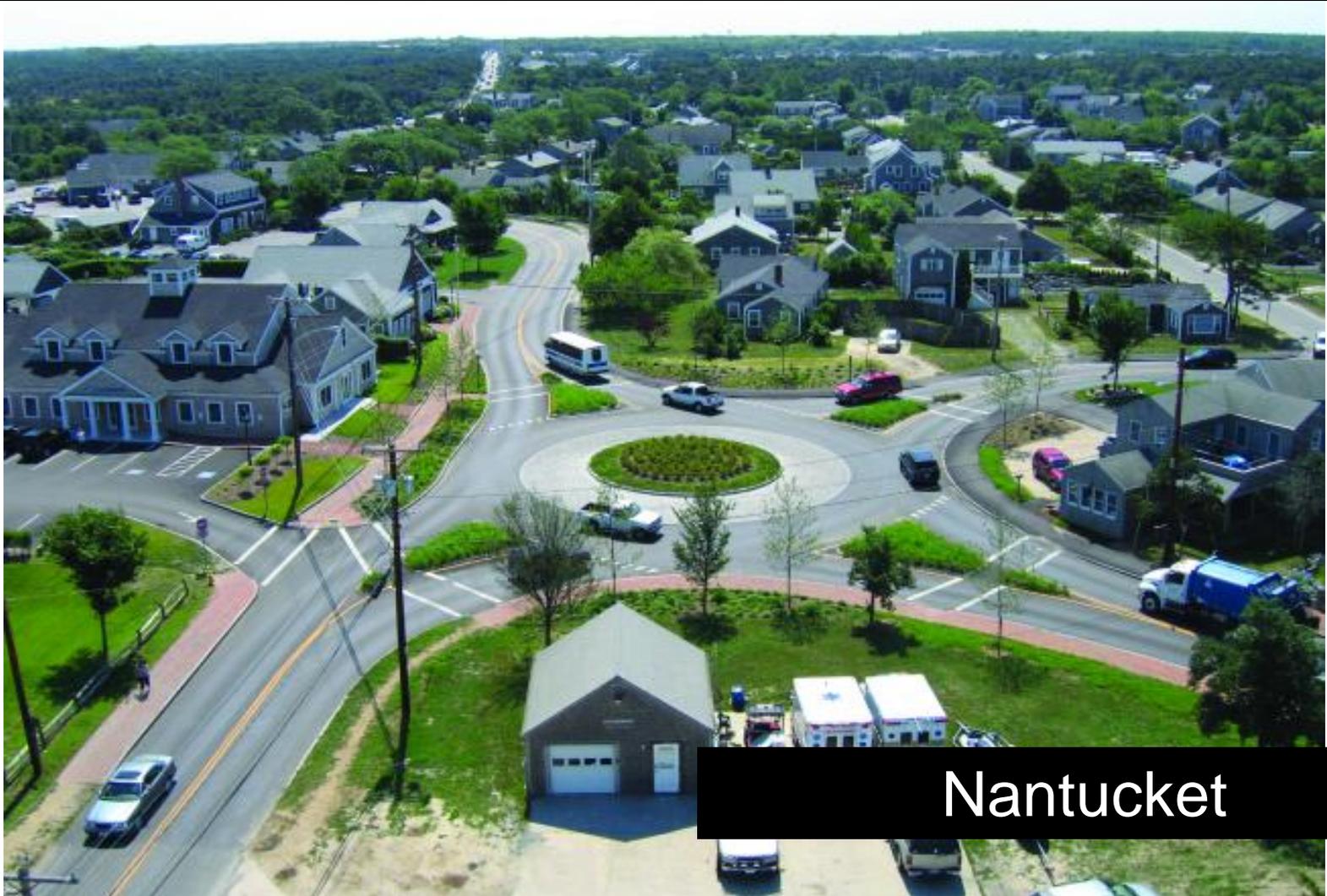
Intersection and Corridor Improvements: Timeline to Date

- RSA - 2012
- Data Collection - 2013
 - Traffic Counts
 - Crash Information
 - Survey of Existing Conditions
- Interim Restriping of Route 12

Intersection and Corridor Improvements: Timeline Going Forward

- MassDOT Meeting with Town Officials
 - November 2013
- Public Involvement
 - Spring 2014
- Final Design
 - 2014 through 2015
- Advertise Project
 - 2015 (TIP Programmed)
- Construction 2016
 - Preliminary Construction Duration - 18 months

Massachusetts: Roundabouts



Nantucket

Massachusetts: Roundabouts



Fitchburg

Massachusetts: Circular Intersections

- 147 Circular Intersections
 - 113 Rotaries
 - 34 Roundabouts

Roundabout Installation

Before



After



Worcester

MassDOT Roundabouts



Barnstable, Cape Cod

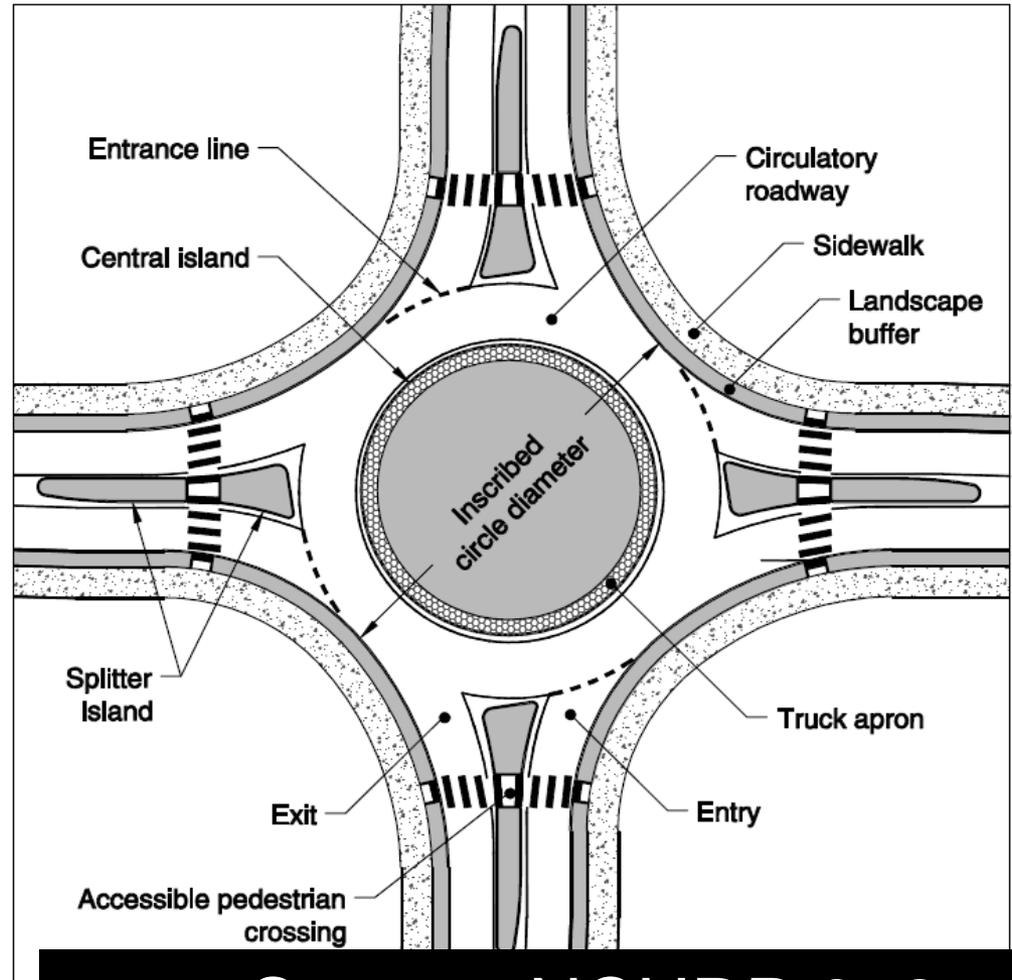
Roundabout Benefits

- Traffic Safety
 - Reduce total crashes by 48%*
 - Severe (injury/fatal) crashes by 78%*
- Traffic Calming
 - Reduce vehicle speeds using geometric design
- Efficient Operations:
 - Yield to circulating traffic
 - No stop-and-go

*Source Federal Highway Administration

Safety: Reduced Speeds

- Entry deflection



Source: NCHRP 672

Safety: Reduced Vehicle Conflict Points

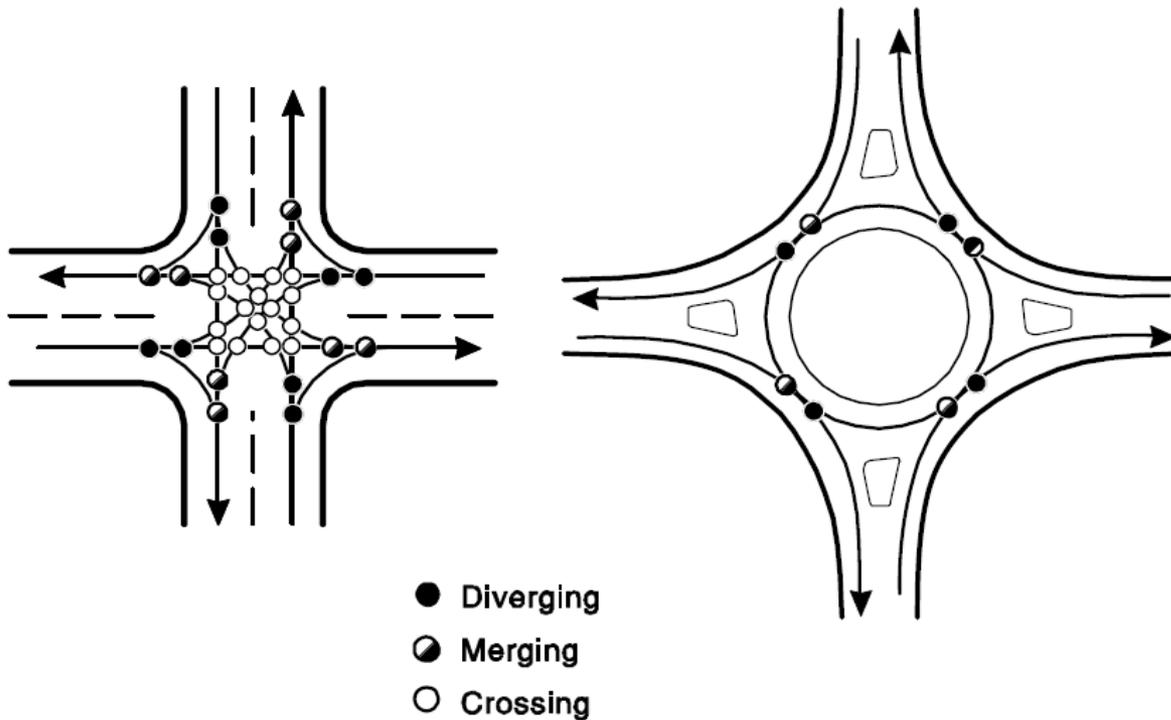


Exhibit 5-2
Vehicle Conflict Point
Comparison for Intersections
with Single-Lane Approaches

Source: NCHRP 672

Thank You!

Andrew Paul

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