



# Glenmont Roundabout and Sidewalk Project



June 26, 2018



# Agenda

- Background
- Project Limits
- Objectives
- Preliminary Findings
- Roundabout Information
- Schedule
- Public Comment



# Background



**SARATOGA ASSOCIATES**

**TOWN OF BETHLEHEM  
COMPREHENSIVE PLAN  
AND  
GENERIC ENVIRONMENTAL IMPACT  
STATEMENT**

Bethlehem, New York  
August 2005



Adopted by the Bethlehem Town Board  
August 24, 2005

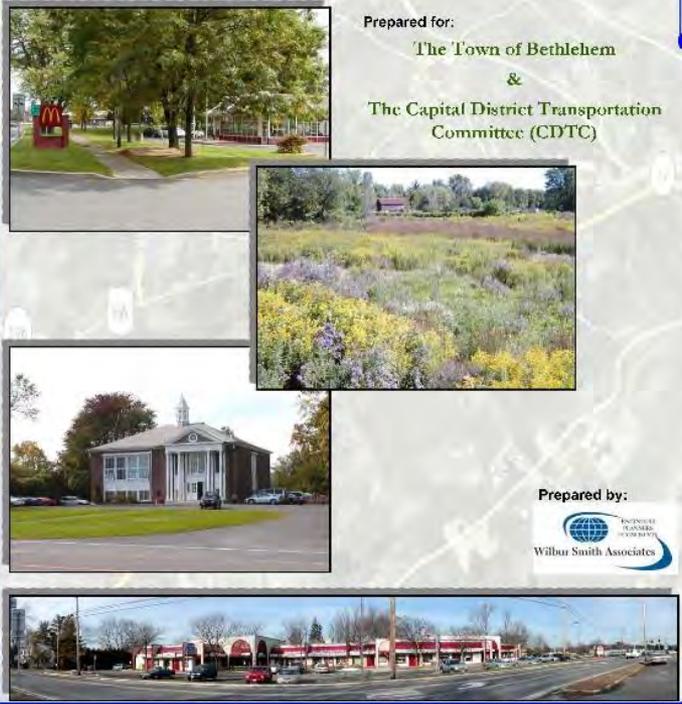
Landscaping: Annabeth, Architects  
Engineering and Interior, LLC

Map design: All in One Research Settings & Associates (ARC14)

2005

**US 9W Corridor  
Transportation Planning Assessment  
Advancing the Town of Bethlehem's  
Comprehensive Plan and Economic Development Goals  
December 2008**

Prepared for:  
**The Town of Bethlehem  
&  
The Capital District Transportation  
Committee (CDTC)**



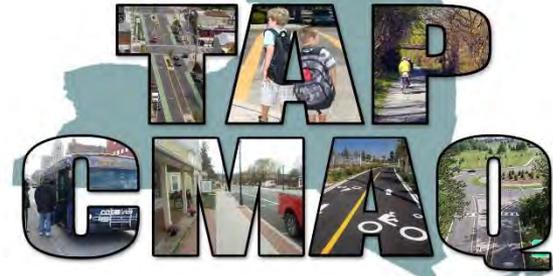
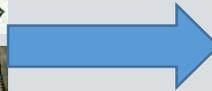
Prepared by:  
  
**Wilbur Smith Associates**

2008

# Background



2015

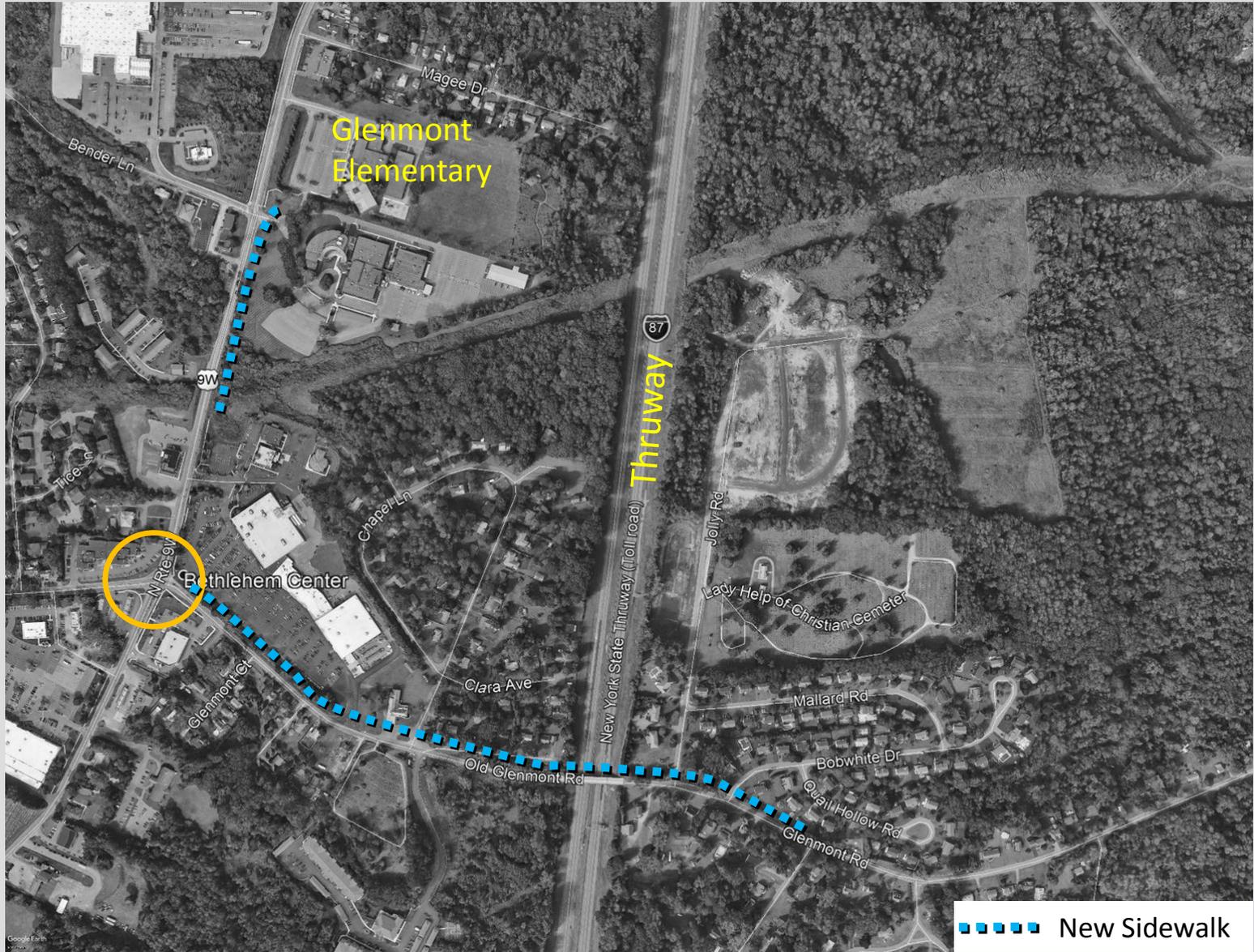


**NYSDOT**  
**Transportation Alternatives Program (TAP) and**  
**Congestion Mitigation and Air Quality Improvement (CMAQ)**  
**Solicitation Guidebook**

August 2016

2017

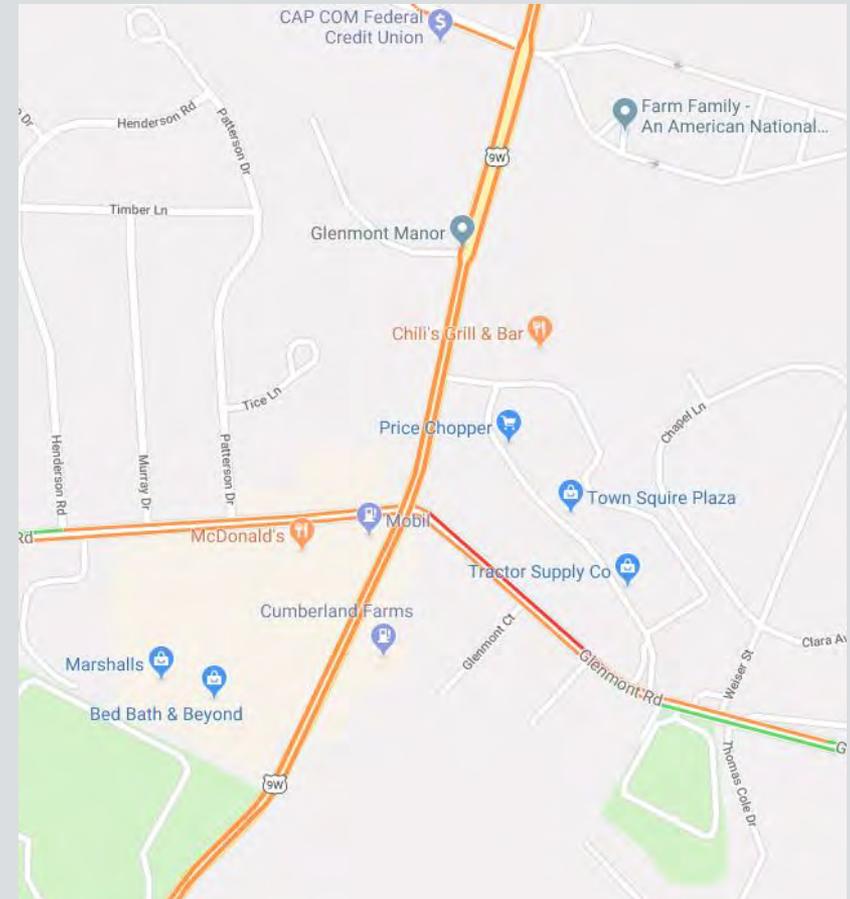
# What is Included?





# Preliminary Traffic Review

- Backups (AM/PM)
- Pedestrians
  - 17 Crossings (PM Commute)
- Crashes (3 Years)
  - 13 total
  - Consistent with Statewide Avg.
  - 3 Right-Angle
  - 2 Head-On
  - 5 Injury
  - 1 Pedestrian
- Anticipated
  - Reduce Injury Crashes
  - Eliminate Right-Angle And Head-On Crashes
  - Reduce Delay
  - Reduce Backups



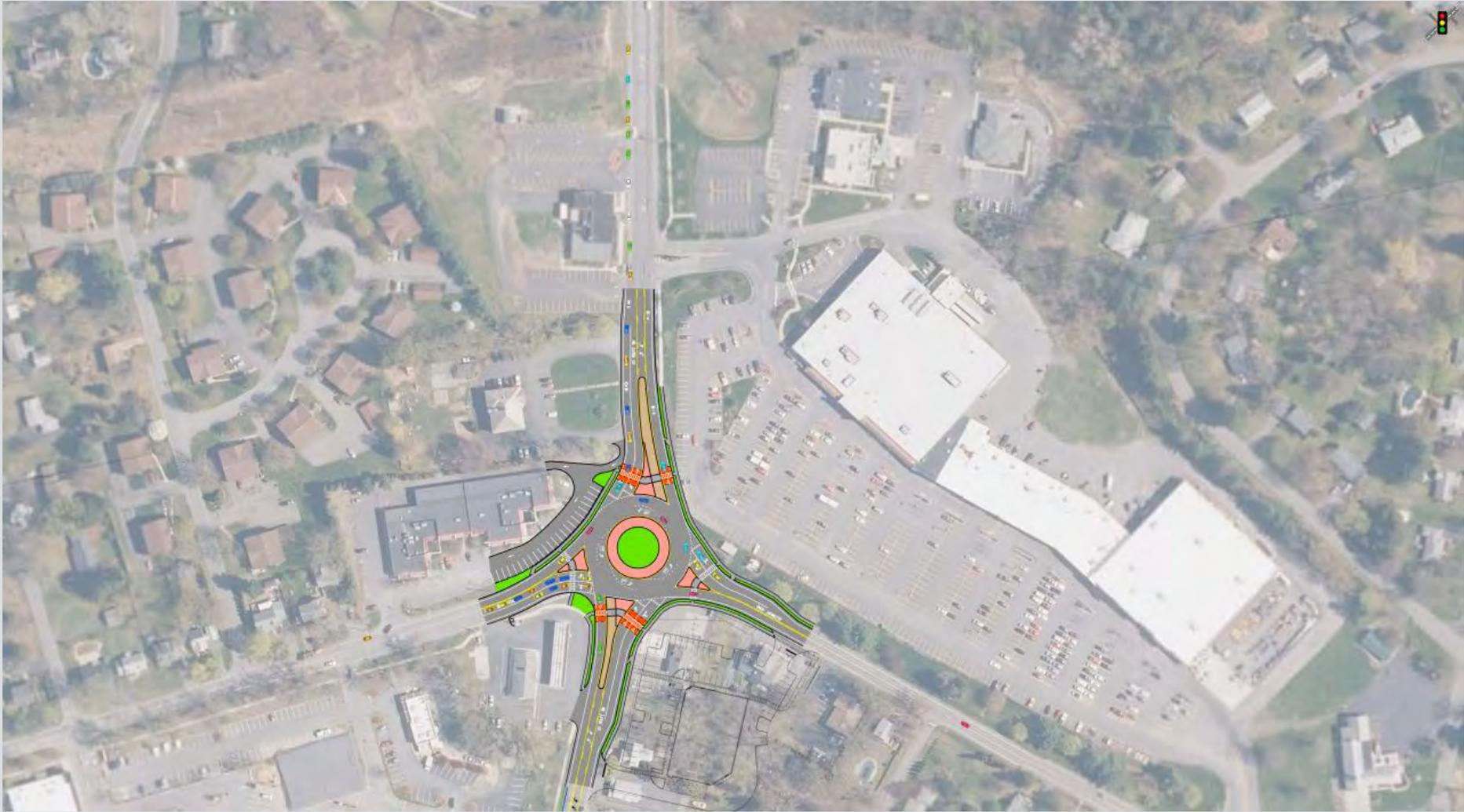
Typical Evening Traffic

Source: Google Traffic

# Friday Evening Traffic



# Preliminary Traffic Operations



# Draft Objectives



- Meet Federal Funding Requirements (CMAQ)
- Address Current and Future Traffic Demand
- Improve Safety for All Travelers
- Connect People with Places
- Provide a Safer Pedestrian Environment



# Upcoming Engineering



- Compare Traffic Signal And Roundabout
- Determine Glenmont Road Sidewalk Location
- Identify Impacts to Private Property
- Property Owner Coordination
- DOT Coordination



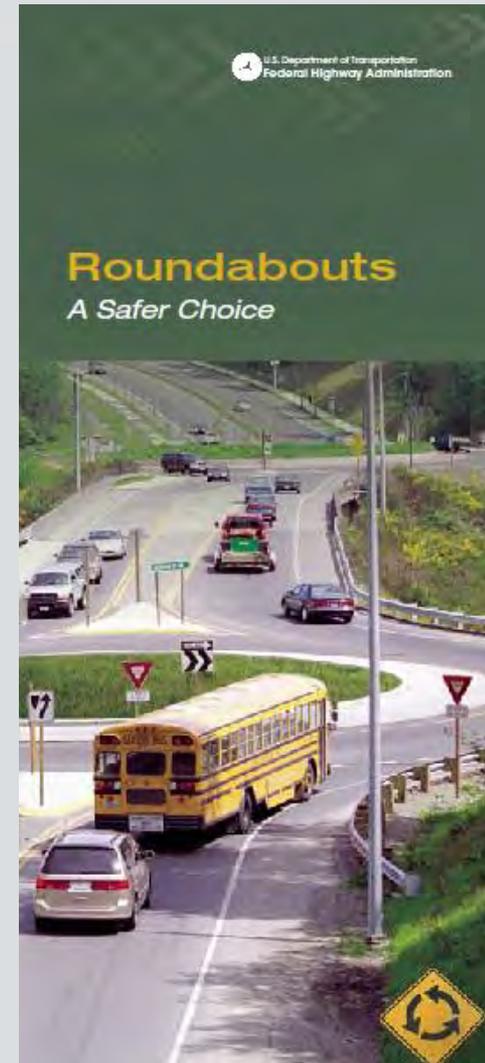
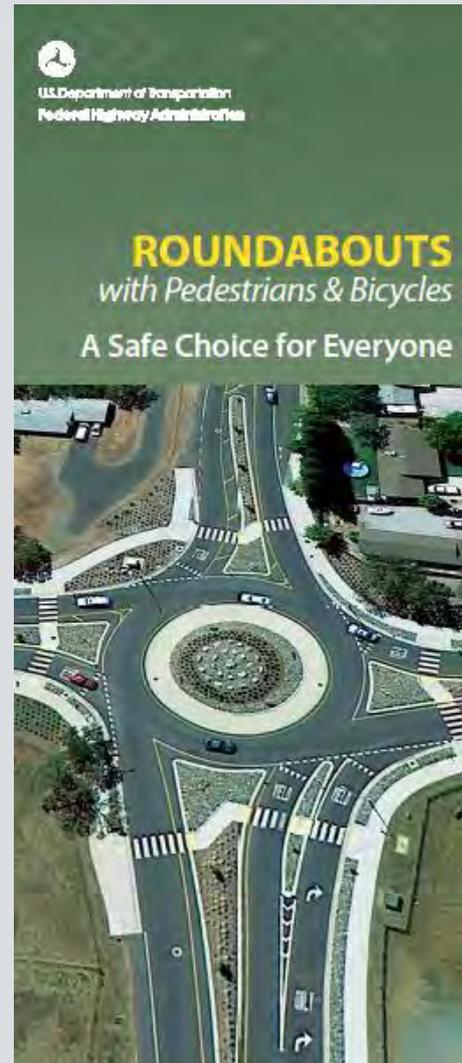
# Sidewalk Connections





# Roundabouts – Why?

- FHWA Proven Safety Countermeasure
- Higher capacity, lower delays
- Applicable for both urban and rural locations
- Traffic Calming (24/7/365)



# Roundabout ≠ Rotary (or Traffic Circle)



Photo: New York State DOT

# Roundabouts – Fundamental Principles



- Reduce Speed Differentials
- Advance Deflection (Version 1.0 -> 3.0)
- Traffic Signal Relies on Driver; Roundabout Works Through Geometry



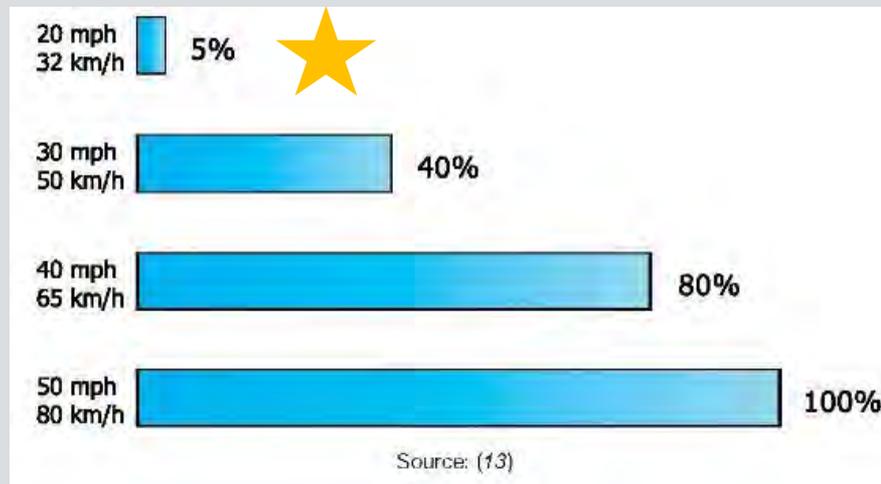
# Pedestrian Safety Benefits



- Shorter Exposed Crossings
  - Single Lane vs. Multi-Lane Crossings
  - Left – Cross – Right - Cross



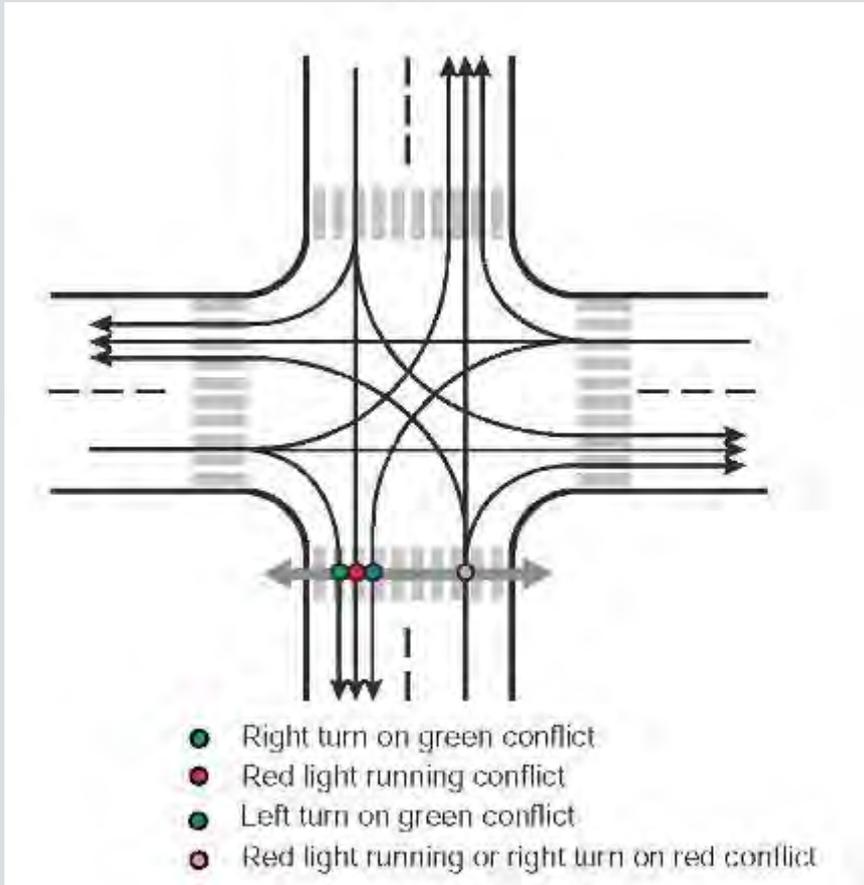
- Probability of Fatality vs. Vehicle Speed



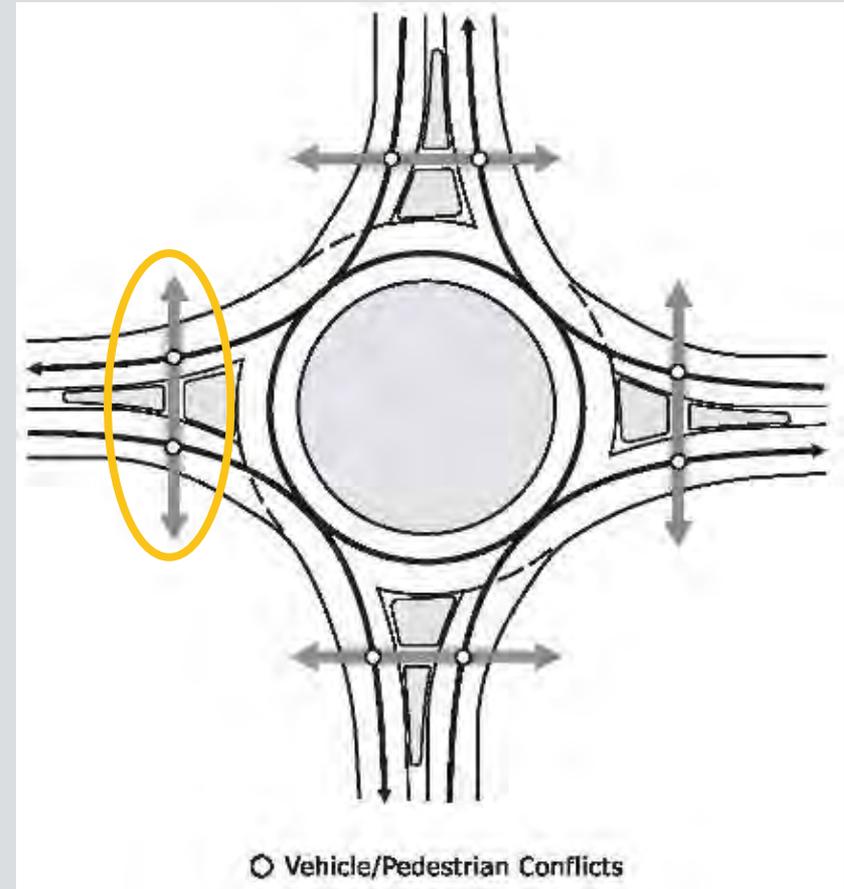
# Pedestrian Conflict Points



## Traffic Signal



## Roundabout



# Pedestrian Safety Data

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1000's of roundabouts in USA

Years of Operational Data

1 Fatality

# Pedestrian Safety Countermeasures



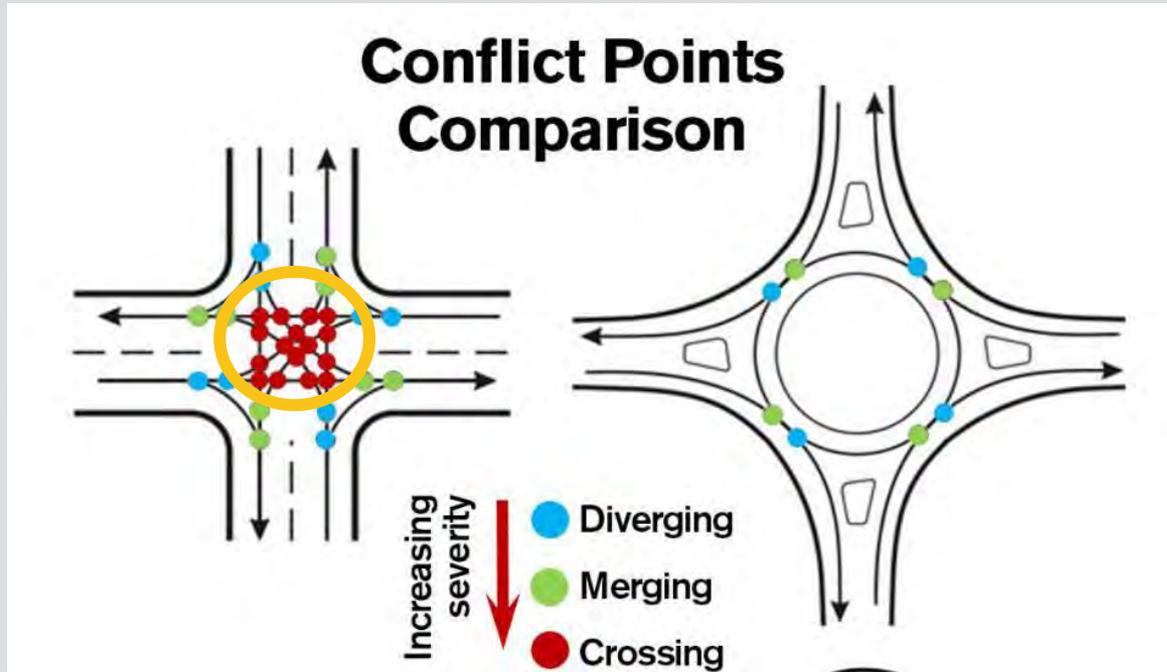
Raised Crosswalks



Source: Road Commission for Oakland County PHB and RRFB Study

Flashing Beacons

# Vehicles – Conflict Points



~~3 Right-Angle~~

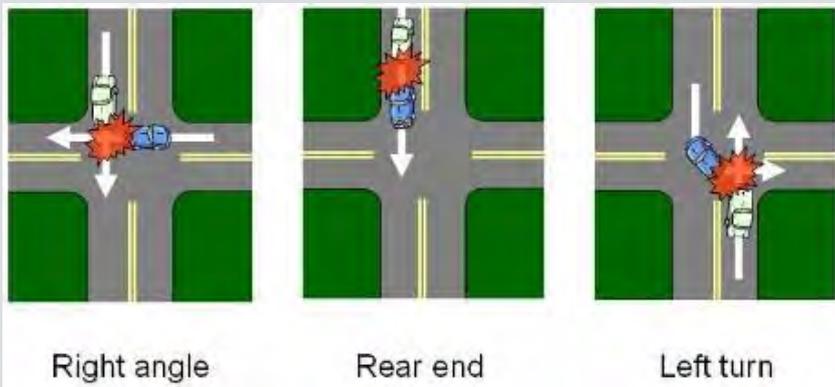
~~2 Head-On~~

# Vehicle Safety



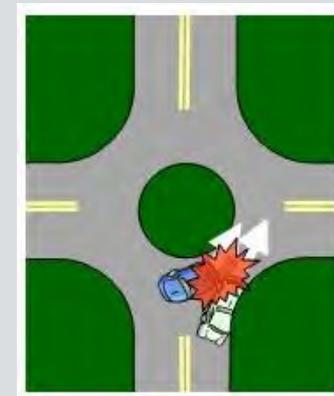
## Traffic Signal

- Higher Angle/Higher speed
- More Severe Collisions (Typically)



## Roundabout

- Lower Angle/ Lower Speed
- Less Severe collisions (typically)



- Insurance Institute of Highway Safety:
  - Injury Crashes: 72-80% Reduction (5 Previously)
  - All Crashes: 35-47% Reduction

# Project Schedule – TENTATIVE



Milestone	Date
<b>Public Meeting #1</b>	<b>June 2018</b>
Survey/Preliminary Design	Summer 2018
<b>Public Meeting #2</b>	<b>Fall 2018</b>
Detailed Design/ ROW Acquisition	Spring/Summer 2019
<b>Public Meeting #3</b>	<b>Summer 2019</b>
Advertise/Award Construction Contract	Fall 2019
<b>Public Pre-Construction Meeting</b>	<b>Spring 2020</b>
Construction Start	Spring 2020
Construction Completed	Spring 2021

# Comments



- Options
  - Tonight's Open Forum
  - Break-out Stations
  - Comment Forms (Email Or Mail)

What Trends Do You See?

How Can This Project Be Better?

Town Contact:

Rob Leslie

Director of Planning

(518) 439-4955, Ext. 1157

Email: [rleslie@townofbethlehem.org](mailto:rleslie@townofbethlehem.org)

