



Glenmont Roundabout and Sidewalk Project



January 17, 2019

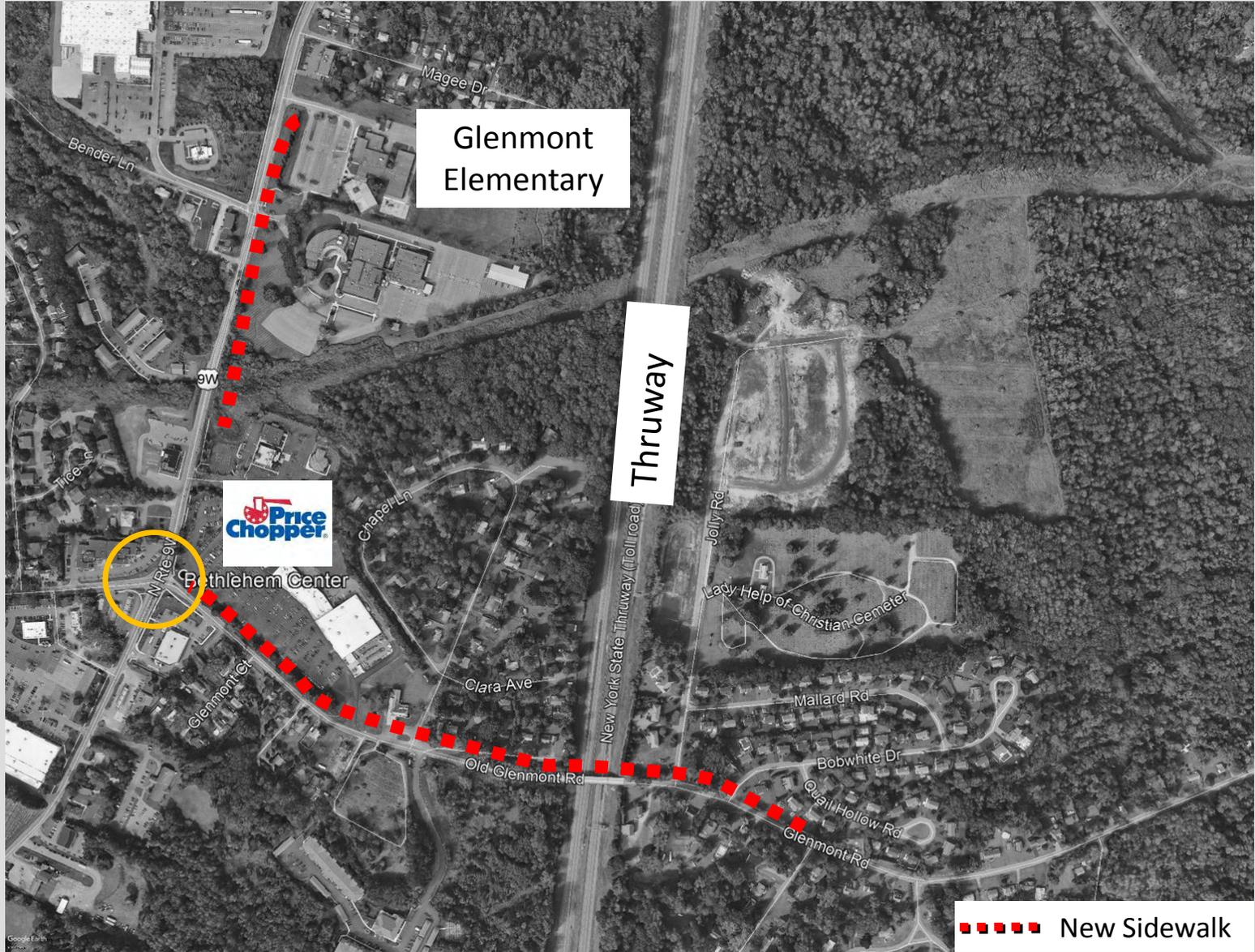
Agenda



- Recap of First Meeting
- Progress
- Intersection Alternatives
- Sidewalk Connections
- Next Steps
- Public Comment



What is Included?

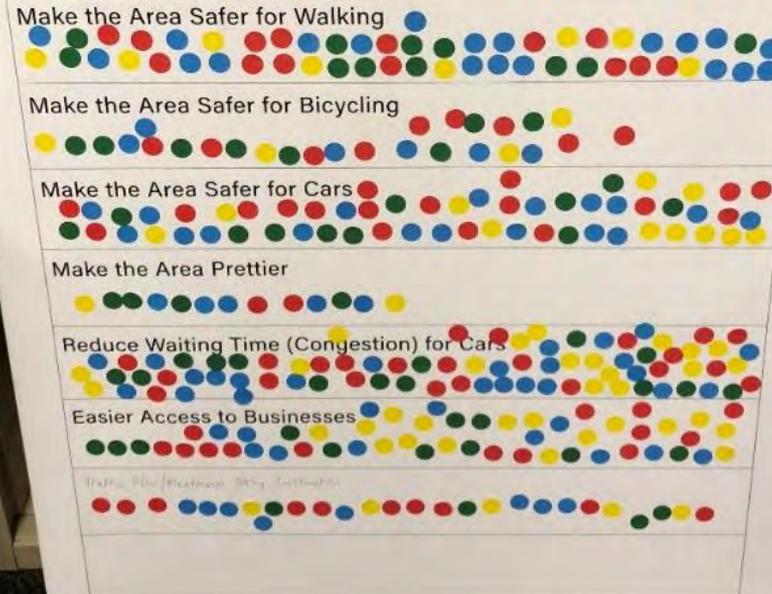


Meeting # 1 – What Is Important to You?



GLENMONT ROUNDABOUT & SIDEWALK PROJECT

WHAT IS MOST IMPORTANT TO YOU?



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0 10 20 30 40 50 60 70 80 90



Meeting #1 – Comment Themes

- Waiting Time at Intersection
- Safety (Cars and Walkers)
- Driveway Access
- Truck Traffic
- Improve Adjacent Intersections



Meeting #1 - Crossings



Raised Crosswalks



Source: Road Commission for Oakland County PHB and RRFB Study

Flashing Beacons
(RRFB's)

Project Objectives



- Reduce Motorist Travel Time (Present and Future)
- Accommodate Future Growth
- Improve Safety for Motor Vehicles
- Improve Safety for Pedestrians
- Meet Federal Requirements And Current Design Standards

Which Alternative Best Meets Objectives?

Progress Update - Coordination



- NYSDOT
- Thruway Authority
- Bethlehem Pre-School
- Akira
- Town Squire
- Farm Family
- Sunoco
- Bethlehem CSD
- CVS
- Selkirk and Elsmere FD
- Delmar-Bethlehem EMS
- Trucking Industry (upcoming)

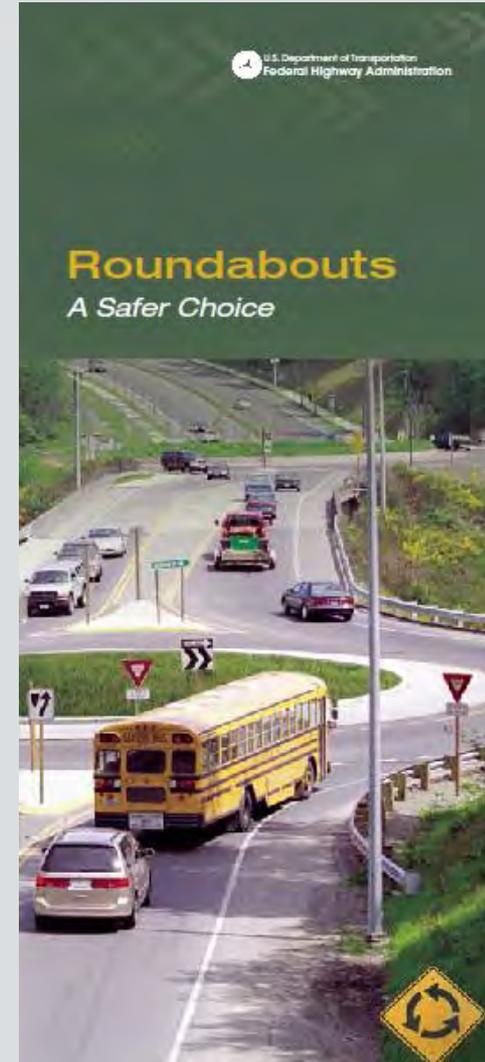
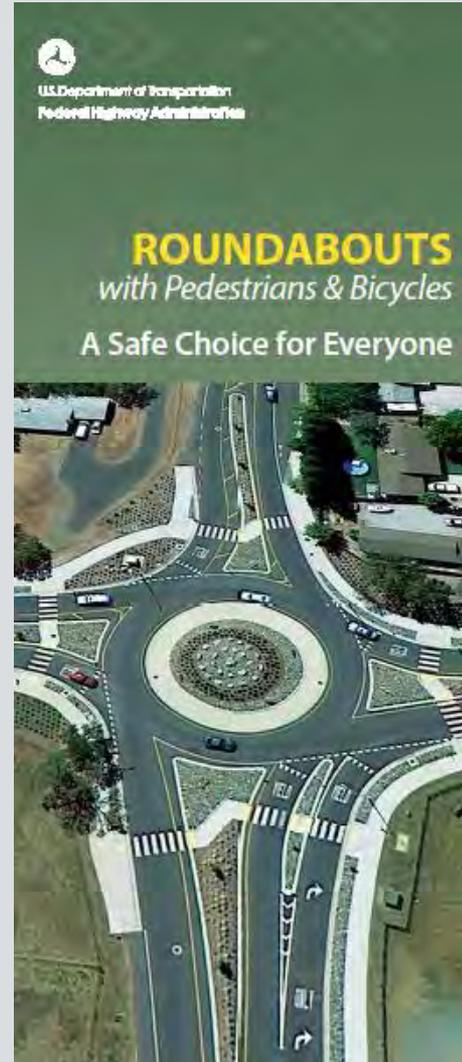
Progress – Traffic Projections





Roundabouts – Why?

- FHWA Proven Safety Countermeasure
- Higher Capacity, Lower Delays
- Applicable For Both Urban and Rural Locations
- Traffic Calming (24/7/365)



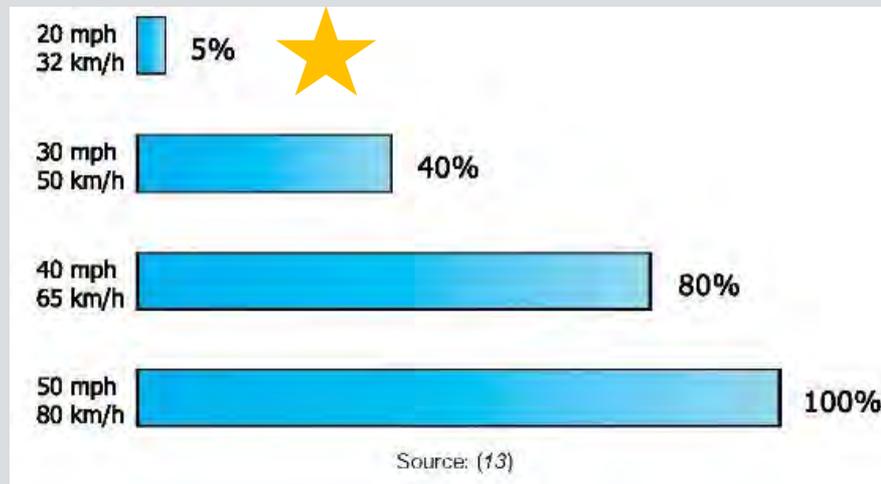
Pedestrian Safety Benefits



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



- Probability of Fatality vs. Vehicle Speed

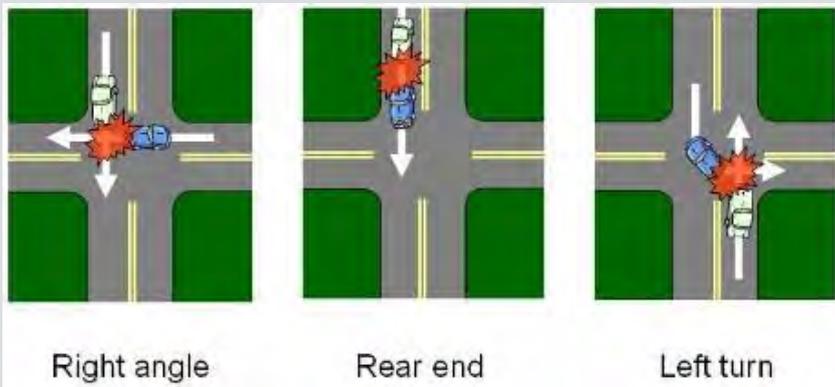


Vehicle Safety



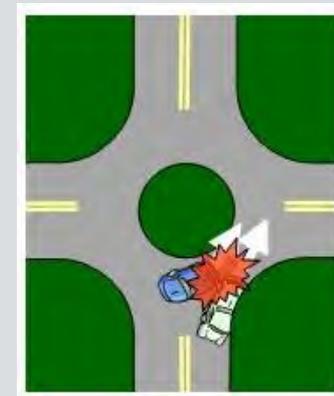
Traffic Signal

- 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

Alternative Overview



- Do Not Meet Objectives
 - Do Nothing (Null)
 - Waiting Time Increases
 - Intersection Safety Issues Remain
- Meet the Objectives:
 - Alternative 1 – Traffic Signal
 - Alternative 2 – Single Lane Roundabout
 - Alternative 3 – Hybrid Roundabout



Alternatives – Common Items

- Sidewalks on Route 9W & Glenmont Road
- Town Utility Upgrades
- Stormwater Treatment
- Driveway Access Changes
- Truck Access
- Landscaping And Lighting
- Reduced Speed Limit on Glenmont Road
- Within Budget

Alternative 1- Traffic Signal



- Add Northbound/Southbound Turn Lanes
- Add Westbound Left and Right Turn Lanes
- Replace Traffic Signal
- Add Two Crosswalks
- 3 Parcels Impacted

Alternative 1 - Metrics



- Waiting Time (2040): 80% Reduction
- Future Delay (2040): LOS C (23 seconds/vehicle)
- Safety
 - Added Crosswalks (+)
 - Longer Crosswalks (-) (50 feet ~ 70 feet)
 - Won't Slow Traffic (-)
 - Minimal Impact on Severe Crashes (-)
- Estimated Property Impacts
 - 3 Parcels; 0.24 Acres
- Truck Traffic: Yes

Alternative 1 – Traffic Simulation



Alternative 2 - Single Lane Roundabout



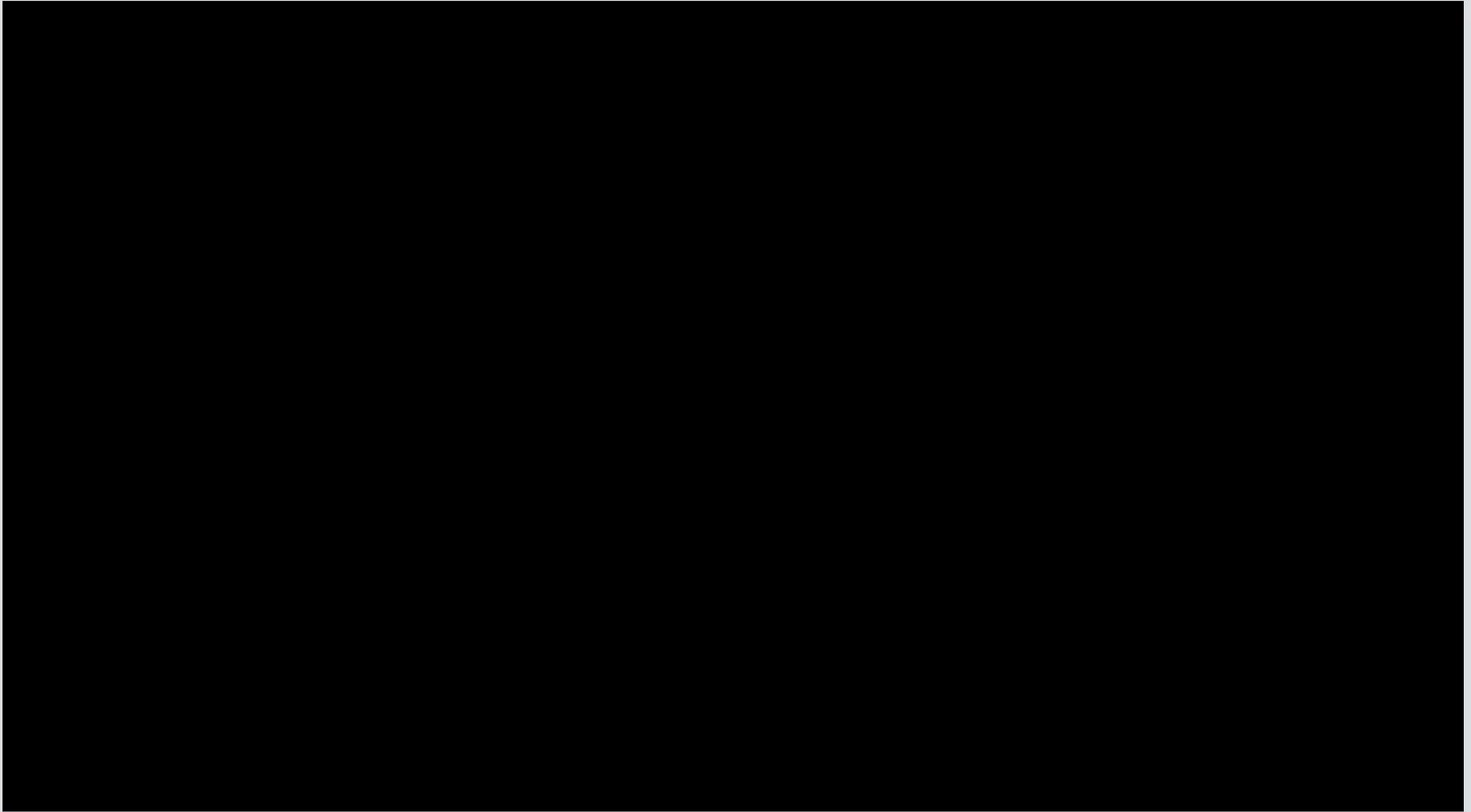
- Single Lane Exits/Entrances
- RRFB's At Crosswalks
- 2 Parcels Impacted

Alternative 2 - Metrics



- Waiting Time (2040): 15% Reduction
- Future Delay (2040): LOS F (98 seconds/vehicle)
- Safety
 - Added Crosswalks (+)
 - Shorter Crosswalks & Beacons (+) (16 feet)
 - Slows Traffic (+)
 - Less Severe Crashes - 78% Reduction (+)
- Estimated Property Impacts
 - 2 Parcels; 0.08 Acres
- Truck Traffic: Yes

Alternative 2 – Traffic Simulation



Alternative 3 - Hybrid Roundabout



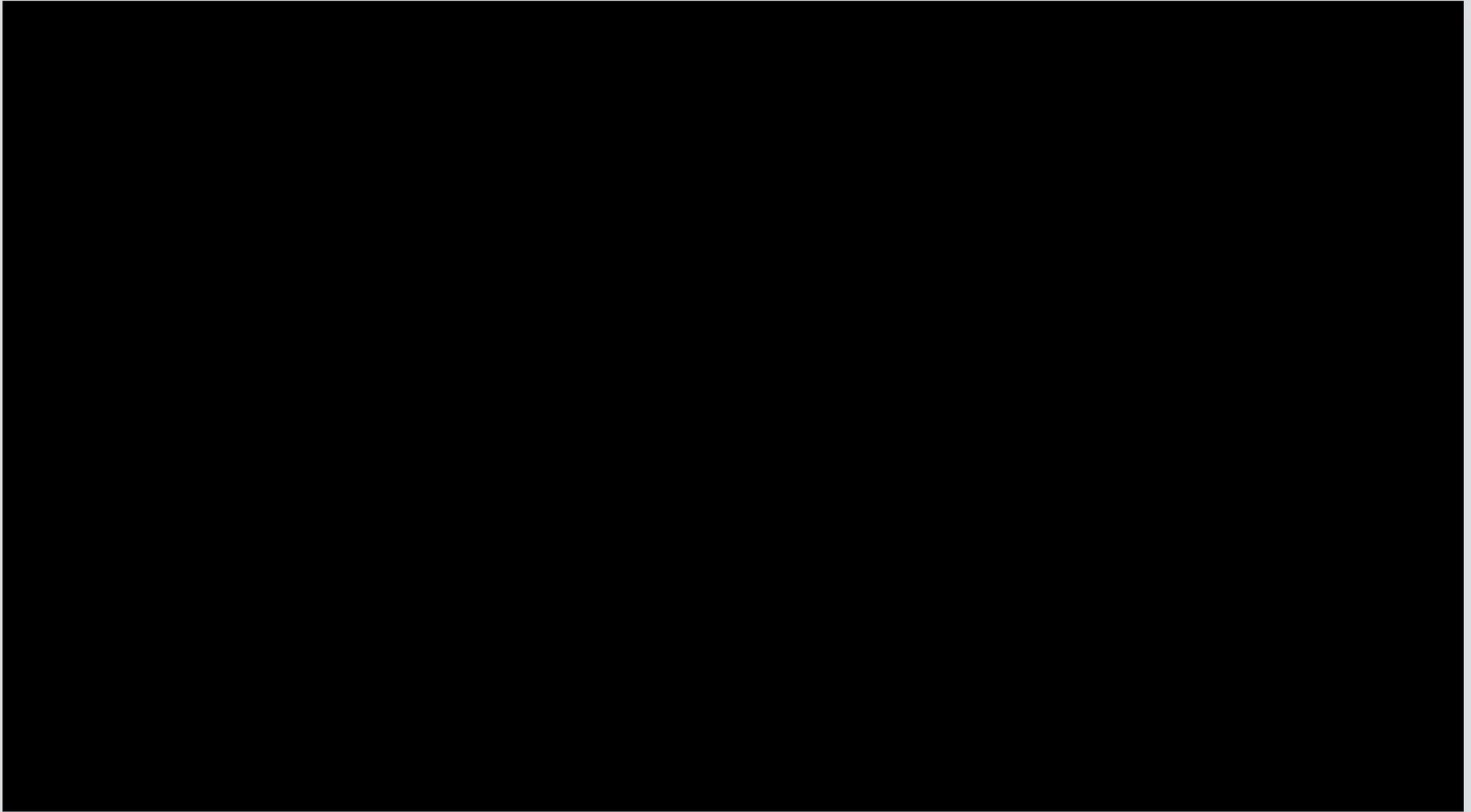
- Single Lane Exits
- RRFB's At Crosswalks
- 3 Parcels Impacted

Alternative 3 - Metrics

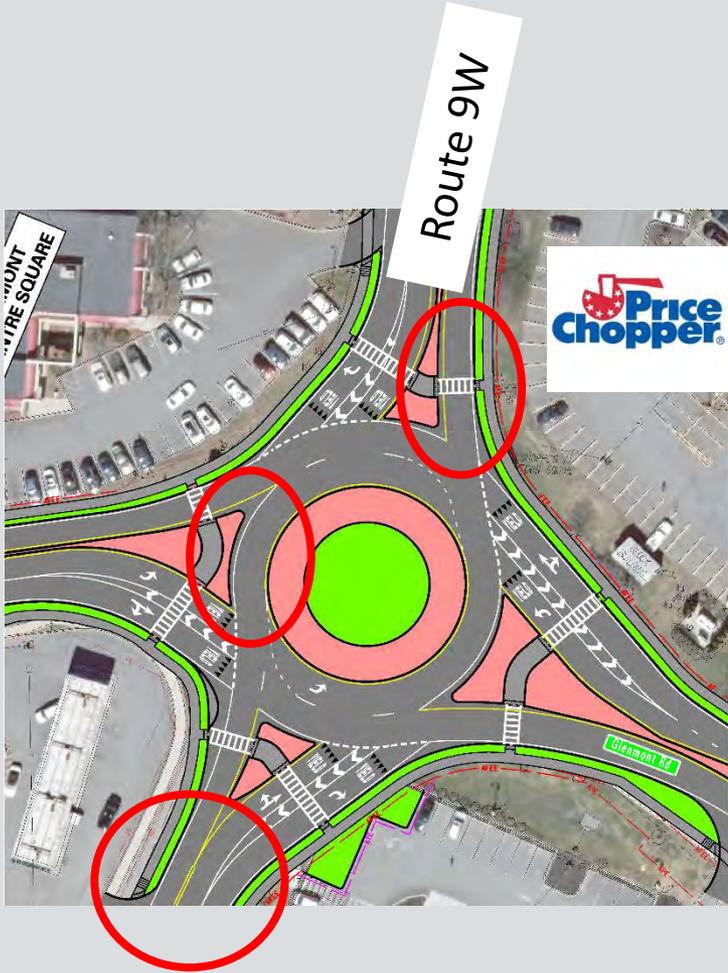


- Waiting Time (2040): 87% Reduction
- Future Delay (2040): LOS B (14 seconds/vehicle)
- Safety
 - Added Crosswalks (+)
 - Shorter Crosswalks & Beacons (+) (17 feet ~ 34 feet)
 - Slows Traffic (+)
 - Less Severe Crashes - 78% Reduction (+)
- Estimated Property Impacts
 - 3 Parcels; 0.37 Acres
- Truck Traffic: Yes

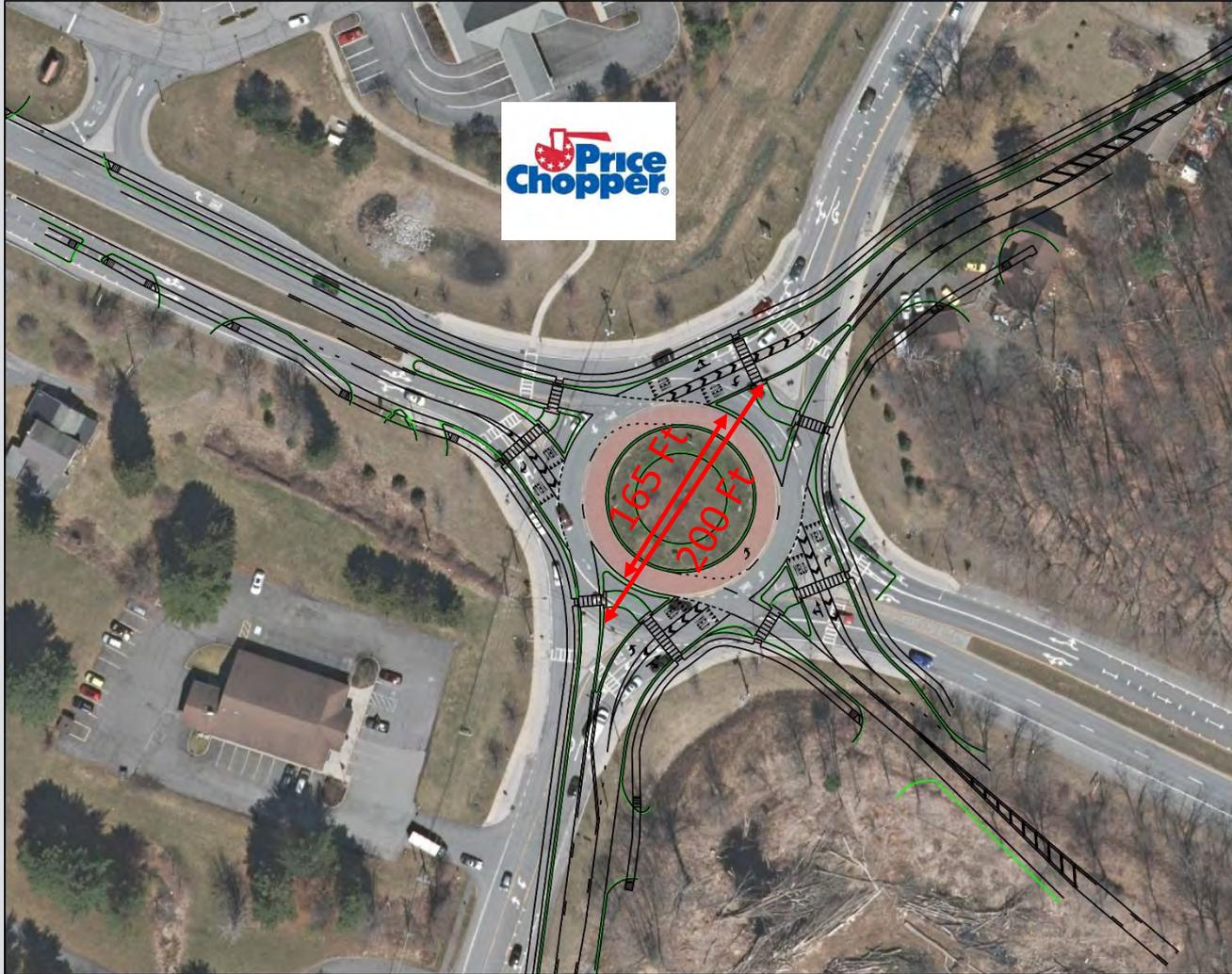
Alternative 3 – Traffic Simulation



Alternative 3 vs. Slingerlands



Alternative 3 vs. Slingerlands



Meeting # 1 – What Is Important to You?



Make the area Prettier



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Traffic Flow during construction



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Safer for Biking



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Easier Access to Businesses



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Safer for Walking



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Primary Objectives

Safer for Cars



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Reduce waiting time...



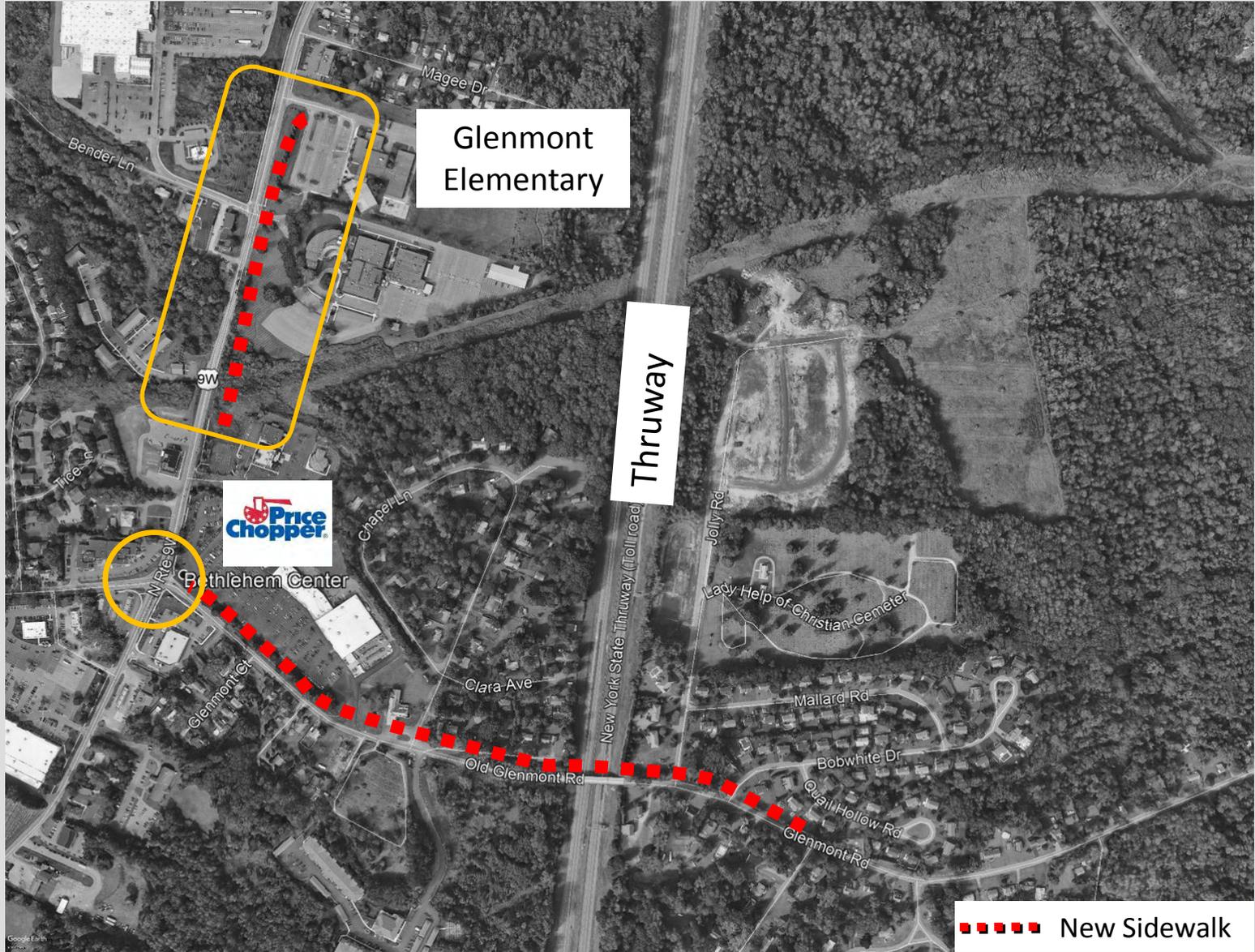
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Alternative Comparison



Criteria (Objectives)	Alternative 1	Alternative 2	Alternative 3
Reduction in Waiting Time at Intersection (Reduce Motorist Travel Time)	2020 = 71% 2040 = 80%	2020 = 37% 2040 = 15%	2020 = 84% 2040 = 87%
Operations at 2040 (Future Growth)	LOS C (23 sec)	LOS F (98 sec)	LOS B (14 sec)
Pedestrian Safety (Improve Safety for Pedestrians)	+	+++	++
Car Safety (Improve Safety for Motor Vehicles)	+	+++	++
Within Budget and Design Standards	Yes	Yes	Yes
Traffic Calming	No	Yes	Yes
Estimated Property Impacts	3 Parcels (0.24 Acres)	2 Parcels (0.08 Acres)	3 Parcels (0.37 Acres)

Sidewalk – Route 9W



Glenmont Elementary



Bethlehem Center

Thruway

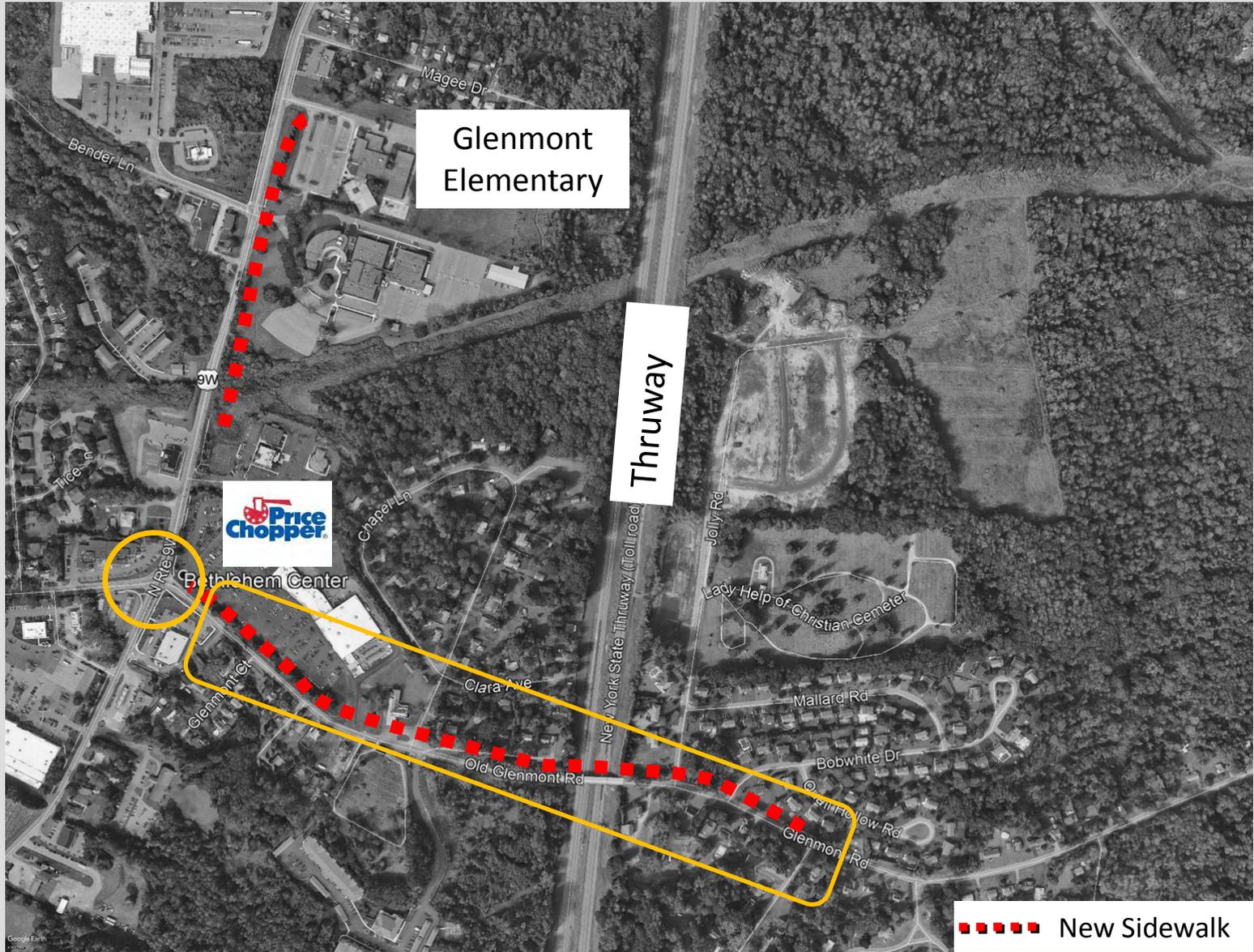
■ ■ ■ ■ ■ New Sidewalk

Sidewalk – Route 9W



**GLENMONT
ELEMENTARY**

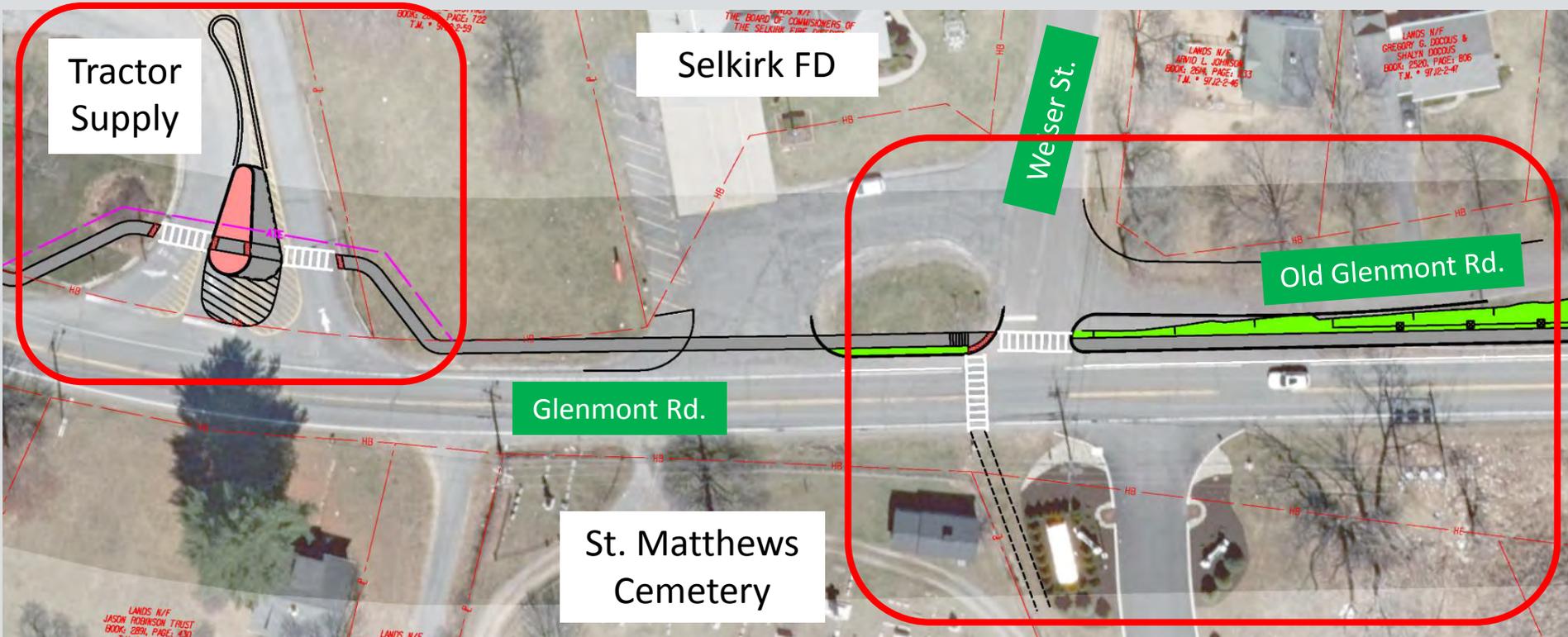
Sidewalk – Route 9W



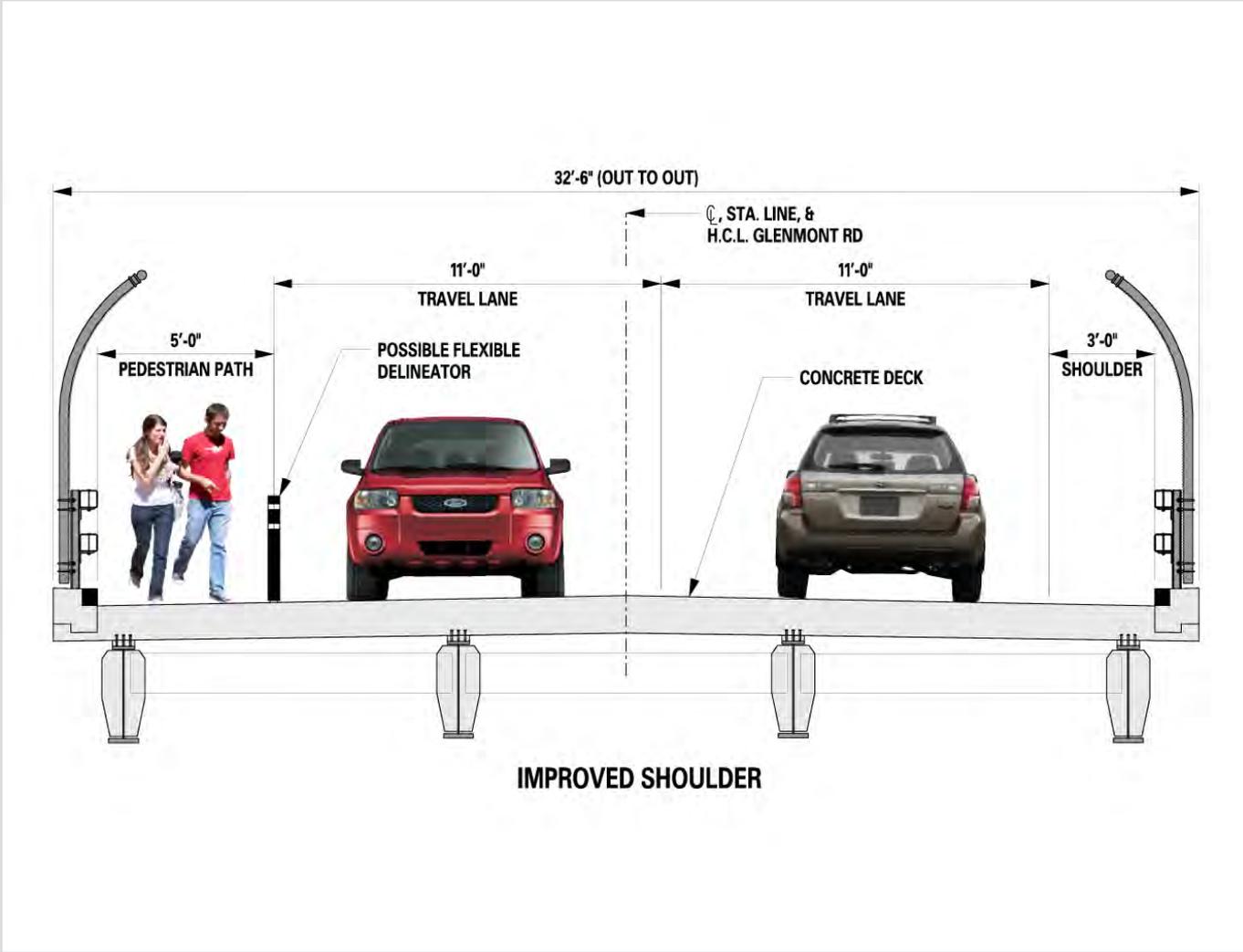
Sidewalks – Glenmont Road



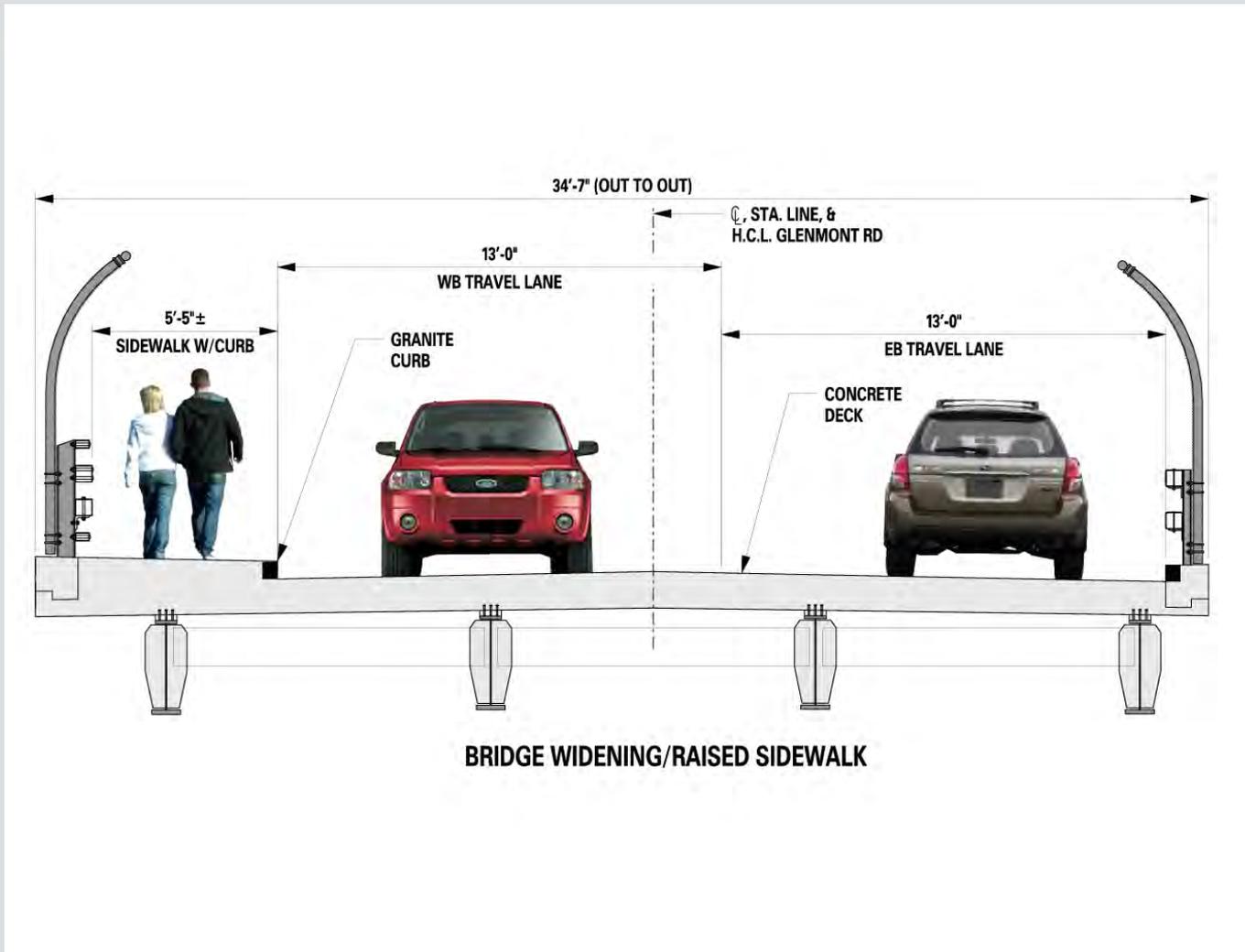
- North Side Recommended
 - No private property impacts
 - Avoids residential landscaping
 - Avoids cemetery
 - No utility pole relocations



Sidewalks – Bridge Crossing



Sidewalks – Bridge Crossing



Sidewalks – Bridge Crossing



Crossing Options	Accessible	Within Budget
Bridge Widening/Raised Sidewalk	Yes	No
Improved Shoulder	Yes	Yes
Pedestrian Bridge	Yes	No

Sidewalks – Glenmont Road



Project Schedule



Milestone	Date
Public Meeting #2	Winter 2019
Detailed Design/ ROW Acquisition	Spring/Summer 2019
Public Presentation	Fall 2019
Advertise/Award Construction Contract	Fall 2019
Public Pre-Construction Meeting	Winter 2020
Construction Start	Spring 2020
Construction Completed	Spring 2021

Next Steps



- Draft Design Approval Document Submission
- Continued Property Owner Coordination
- Trucking Coordination
- Detailed Design

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Development Projects

Large scale development projects that require approval by the Town Board are located here on the Development Project's site. These projects typically consist of rezoning applications and the goal in providing this information is to ensure the public is fully apprised of project proposals as they are presented. Listed to the left are projects that have been presented to the Town Board.

Contact Us

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445 Delaware Ave.
Delmar, NY 12054

Hours
8:30 a.m. - 4:30 p.m.

[Department Directory](#)

<http://www.townofbethlehem.org/707/Development-Projects>

Comments



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

How Can This Project Be Better?

Town Contact:

Rob Leslie

Director of Planning

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