

KENWOOD AVENUE TRAFFIC CALMING STUDY PUBLIC WORKSHOP #1



Town of Bethlehem
Thursday, April 6, 2023
Bethlehem Middle School Library





BETHLEHEM SAFE STREETS . COM

TONIGHT'S AGENDA

- I. Welcome
- II. Project Overview
- III. Existing Conditions Assessment Presentation
- IV. Project Website & Interactive Map Introduction
- V. Break-Out Group Session & Report-Out
- VI. Final Questions & Comments



I - WELCOME

FROM PROJECT DEVELOPMENT TEAM

Town of Bethlehem

David VanLuven	Town Supervisor
Robert Leslie, AICP	Town Director of Planning
Paul Penman, P.E.	Deputy Commissioner of Public Works
Eric Johnson, P.E.	Town Engineer
Nate Owens, AICP	Senior Planner

CHA Consulting, Inc.

Joe Cimino, P.E.	Project Manager
Mike Hurtt, P.E.	Highway Engineer
Jay Patel, P.E., PTOE	Traffic Engineer



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II - PROJECT OVERVIEW

STUDY AREA



Roadway conditions & potential solutions are being studied within two distinct roadway Segments:

Segment 1: Delaware Avenue (NYS Rte 443) to Elsmere Avenue (NYS Rte 335) – 2/3 miles

Segment 2: Elsmere Avenue (NYS Rte 335) to the Delmar Bypass (NYS Rte 32) – 1-1/2 miles



II - PROJECT OVERVIEW

WHERE WE ARE TODAY

- This Town roadway is predominantly a residential street, with small-scale commercial and community service uses such as schools, religious places, ballfields, and a rail-trail.
- The general perception is that the speeds and volumes along Kenwood Avenue are out of character with the mostly residential area it serves.
- Existing Condition Studies Have Been Completed.
- Stakeholders have been identified.
- **Now we need YOUR input!**



II - PROJECT OVERVIEW

PROJECT STAKEHOLDERS

- Community Groups/Businesses
 - Tri-Village Little League - Magee Park
 - Solid Rock Family Church
 - Kleinke's Farm Store
 - Good Samaritan Nursing Home
 - Residents/Neighborhood Groups and Homeowner Associations
- Schools
 - St. Thomas the Apostle School
 - Bethlehem Central Middle School
- Emergency Services
 - Police Department
 - Fire Department
 - Emergency Medical Services (EMS)



II - PROJECT OVERVIEW

FUTURE PROJECT TASKS / GOALS

- Evaluate Existing Conditions Data and Local Concerns
- Determine the feasibility and/or appropriateness of various traffic calming and pedestrian safety measures to address any documented issues
- Hold Public Workshop #2 - present Draft Conceptual Plans / Recommendations & Gain Public Feedback (late Summer/ early Fall)
- Summarize Project Results in Final Report (for potential future capital funding/project opportunities)



II - PROJECT OVERVIEW *SCHEDULE*

Tasks	2022			2023												
	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	
Task 1: Initiation																
Task 2: Existing Conditions																
Task 3: Public Involvement, Round 1																
Task 4: Concepts and Recommendations																
Task 5: Public Involvement, Round 2																
Task 6: Report and Implementation																

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III - EXISTING CONDITIONS ASSESSMENT



III - EXISTING CONDITIONS ASSESSMENT

Segment 1: Delaware Avenue to Elsmere Avenue

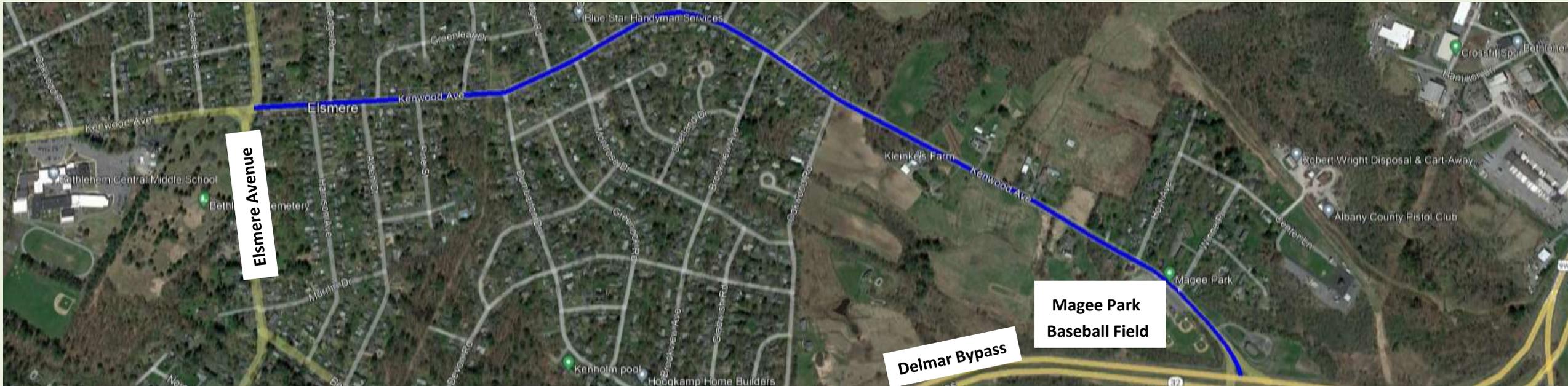
- Existing sidewalk is immediately adjacent to the road and is heavily utilized by children walking and riding bicycles to both the Bethlehem Central Middle School and the St Thomas School.
- Sidewalks are generally about 4' wide with minimal room for snow storage or trash bins.
- Front yards are generally narrow, houses are located close to the roadway, driveways are short, and there is little or no right-of-way behind the sidewalk.



III - EXISTING CONDITIONS ASSESSMENT

Segment 2: Elsmere Avenue to Delmar Bypass

- Roadway is primarily used as a connector to/from the Delmar Bypass and neighborhood access.
- A long portion of this segment does not have sidewalks, so pedestrians and/or cyclists have to ride/walk in the roadway (particularly to amenities such as the baseball fields near the Bypass).
- To access the ball fields, vehicles frequently park on Winnie Road and families cross Kenwood Avenue at various unmarked random locations.



III - EXISTING CONDITIONS ASSESSMENT

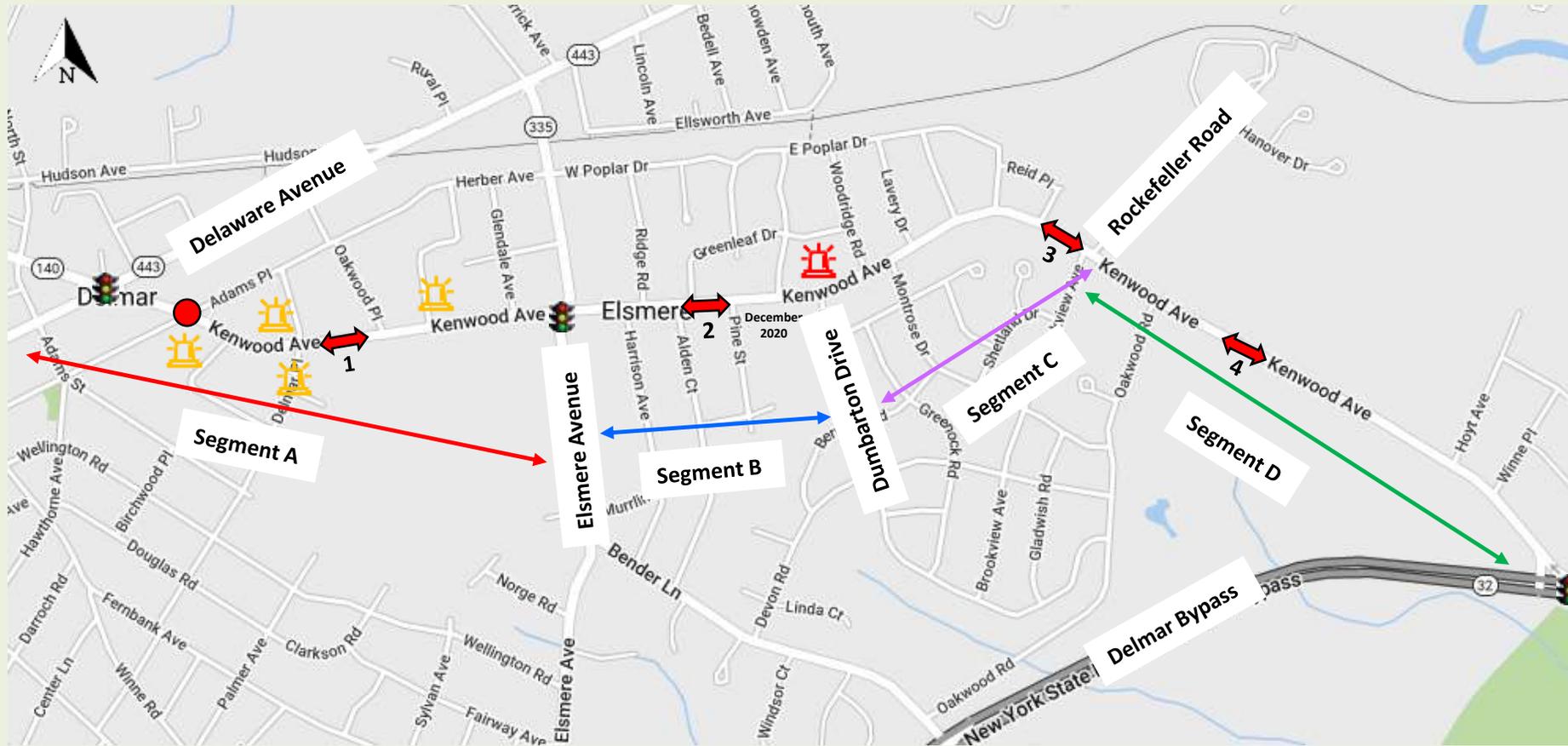
SPEED DATA

- Data collected from 01/07/2023 (Saturday) to 01/15/2023 (Sunday)
- Posted Speed Limit on Kenwood Avenue : 30 mph
- Speed Limit during School Hours near
St. Thomas Apostle School & Bethlehem Central Middle School:
20 mph (7:00 AM to 6:00 PM)



III - EXISTING CONDITIONS ASSESSMENT

SUMMARY OF EXISTING TRAFFIC & SPEED DATA COLLECTED (JAN 2023)



-  Existing Traffic Signal
-  20 mph Speed Limit Sign Beacon
-  Radar / Driver Feedback Sign
-  ATR (Automatic Traffic Recorder)

Speed Data Collection Segments:

- A - Delaware Ave to Elsmere Ave
- B - Elsmere Ave to Dumbarton Drive
- C - Dumbarton Drive to Rockefeller Rd
- D - Rockefeller Rd to Delmar Bypass

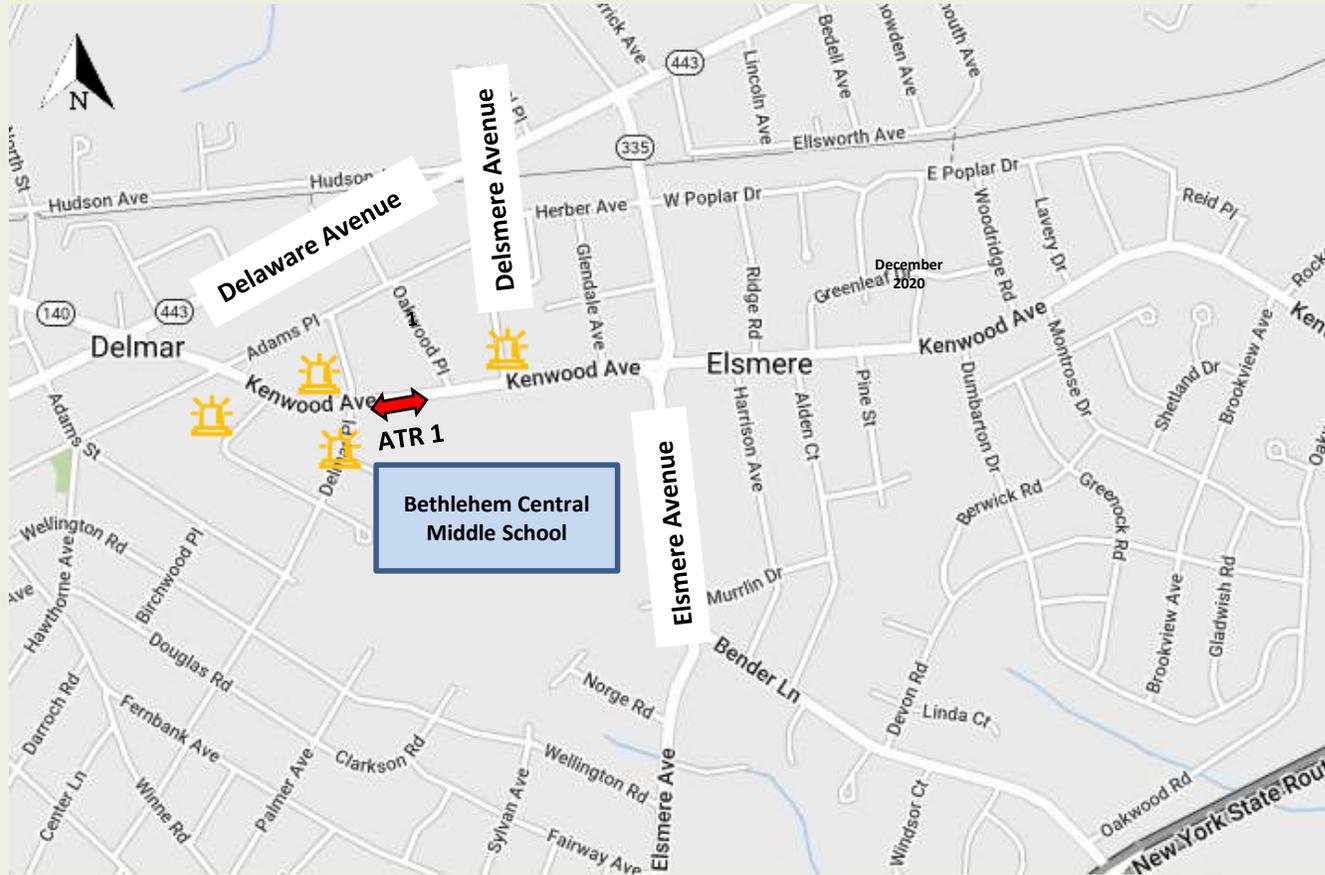
 Intersection Turning Movement Locations (data collected January 2023) – Weekday AM, Weekday PM, and Saturday Mid-Day



III - EXISTING CONDITIONS ASSESSMENT

SPEED DATA

AUTOMATIC TRAFFIC RECORDER (ATR) 1 - KENWOOD AVENUE FROM DELMAR PLACE TO OAKWOOD PLACE



Percentage of Vehicles traveling over 20 mph School Zone Posted Speed Limit on School Days:

Drop-off/Pick-up Hours (Posted Speed Limit 20 mph)

- 7 am to 8 am
 - EB - 97%
 - WB - 94%
- 2 pm to 4 pm
 - EB - 86%
 - WB - 82%

Non - Drop-off/Pick-up Hours (Posted Speed Limit 20 mph)

- 8 am to 2 pm, and 4 pm to 6 pm
 - EB - 92%
 - WB - 83%

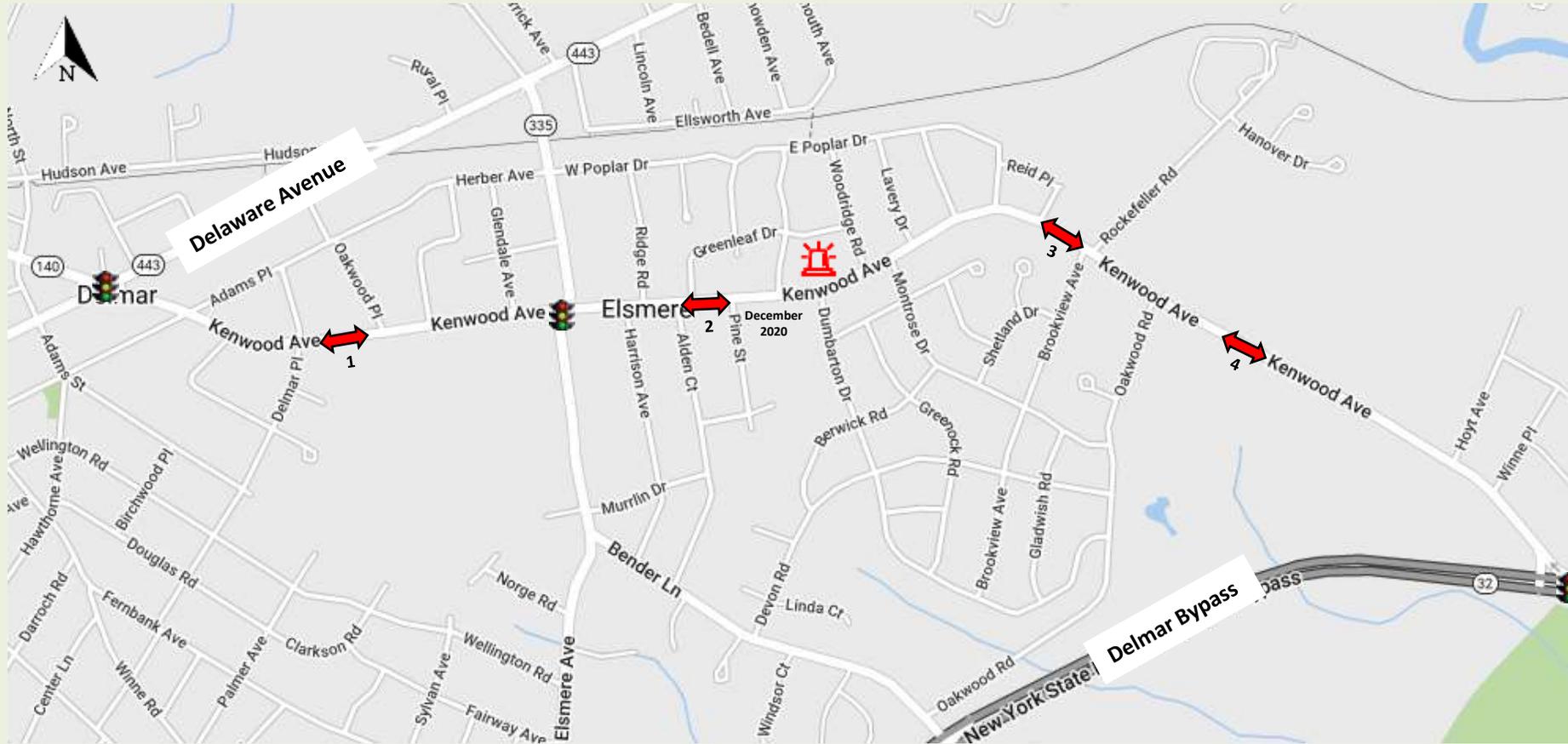


 20 mph Speed Limit Sign Beacon
 ATR (Automatic Traffic Recorder)



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III - EXISTING CONDITIONS ASSESSMENT

SPEED DATA

Data collected from 01/07/2023 to 01/15/2023	ATR 1 – Delmar Place to Oakwood Place		ATR 2 – Greenleaf Drive to Pine Street		ATR 3 – Pinetree Drive to Brookview Avenue		ATR 4 – Oakwood Road to Hoyt Avenue	
	Eastbound	Westbound	Eastbound	Westbound	Eastbound	Westbound	Eastbound	Westbound
85th Percentile Speed (mph)	34	33	37	38	35	37	39	39
Total Number of Vehicles	17,223	17,712	15,293	16,067	13,630	13,068	14,671	15,334
Number of Vehicles <=30 mph	8,970	11,807	4,157	3,729	4,944	3,272	1,230	1,488
Number of Vehicles > 30 mph	8,253	5,905	11,136	12,338	8,686	9,796	13,441	13,846
Percent of Vehicles more than 30 mph	48%	33%	73%	77%	64%	75%	92%	90%
Number of Vehicles between 31 – 35 mph	5,922	4,737	7,308	7,412	6,466	6,005	5,373	6,005
Number of Vehicles between 36 – 40 mph	1,991	1,033	3,267	4,000	1,957	3,146	5,870	5,700
Number of Vehicles between 41 – 45 mph	301	110	486	787	232	571	1,823	1,814
Number of Vehicles > 45 mph	39	25	75	139	31	74	375	327

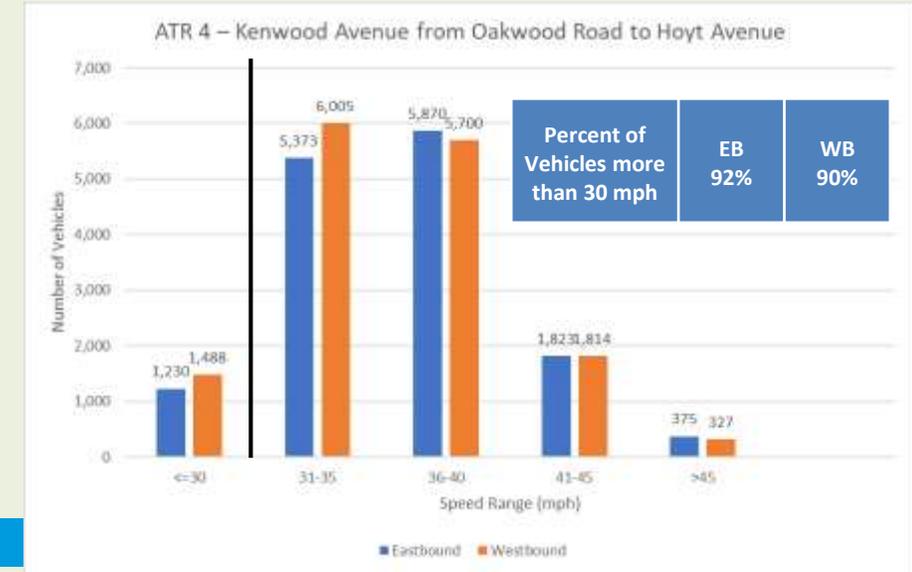
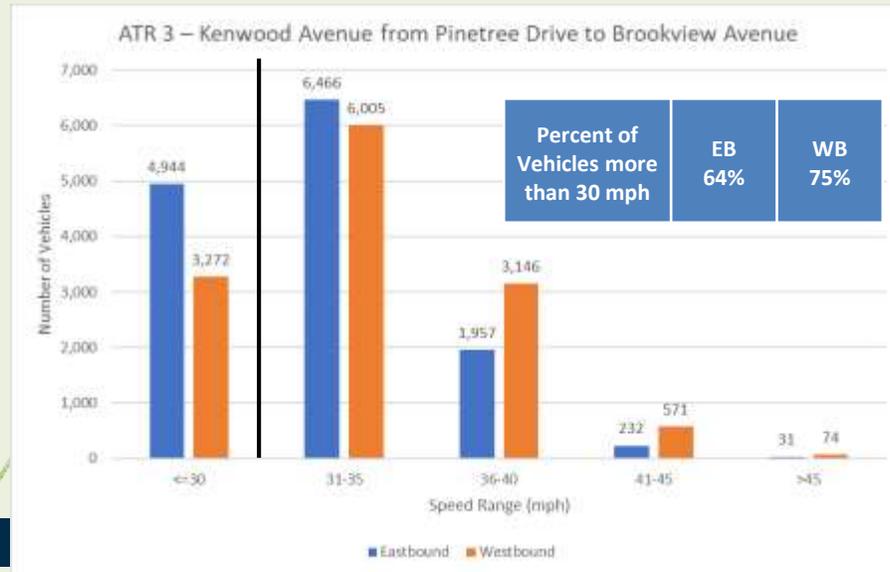
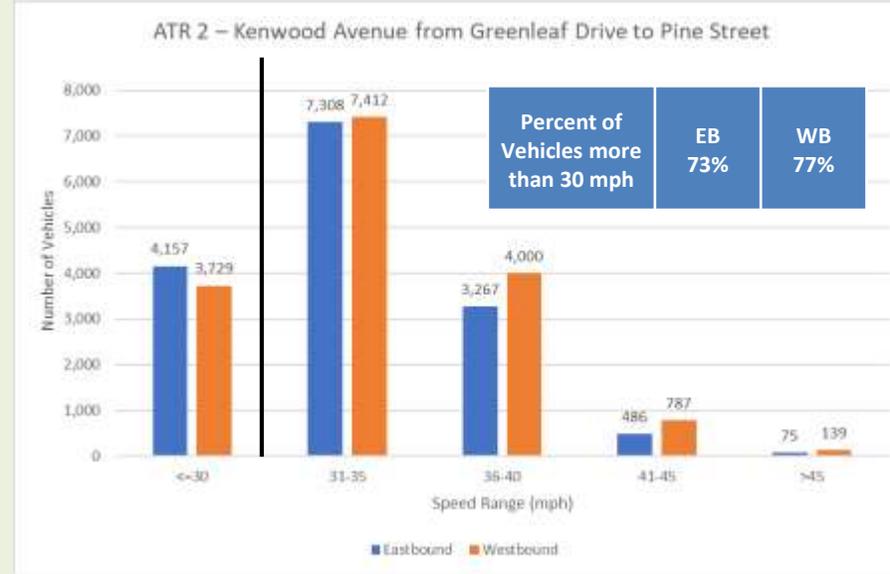
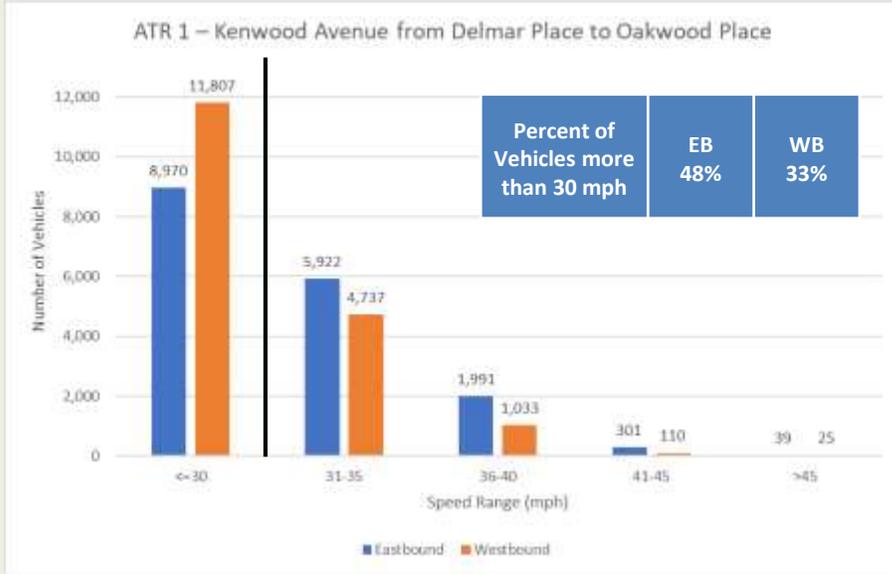
85th Percentile Speed (mph)

- The 85th percentile speed is the speed at or below which 85 percent of the drivers travel on a road segment.
- Motorists traveling above the 85th percentile speed are exceeding the safe and reasonable speed for road and traffic conditions.



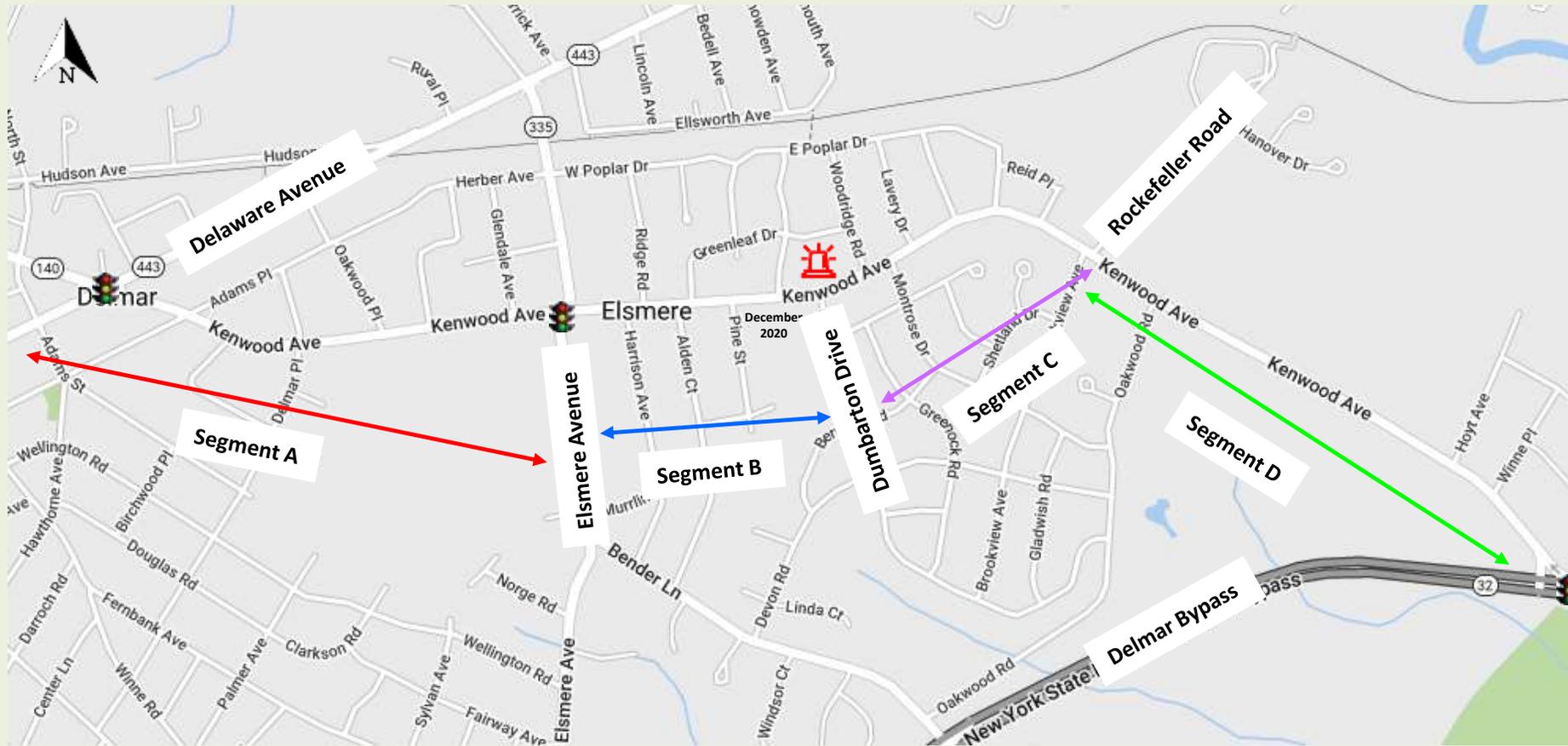
III - EXISTING CONDITIONS ASSESSMENT

SPEED DATA



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III - EXISTING CONDITIONS ASSESSMENT

FLOATING CAR SPEED STUDY RESULTS

Kenwood Avenue Speed Analysis Segment	Average speed - including stops (mph)	
	Eastbound	Westbound
A - Delaware Avenue to Elsmere Avenue	30	28
B - Elsmere Avenue to Dumbarton Drive	31	31
C - Dumbarton Drive to Rockefeller Road	35	33
D - Rockefeller Road to Delmar Bypass	37	35

¹A field study was conducted on 02/02/2023 (Thursday) between 11 AM & Noon and 5 travel time runs were recorded.

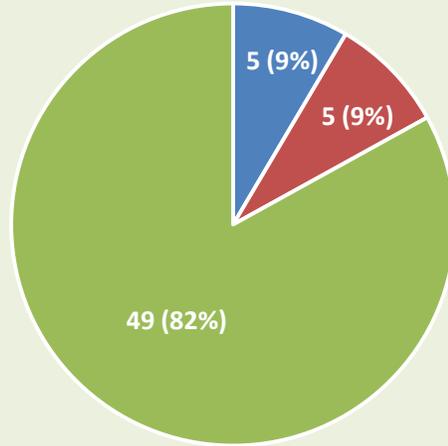


III - EXISTING CONDITIONS ASSESSMENT

CRASH DATA

Summary of Crashes by Severity

From June 2019 and May 2022 (three years)

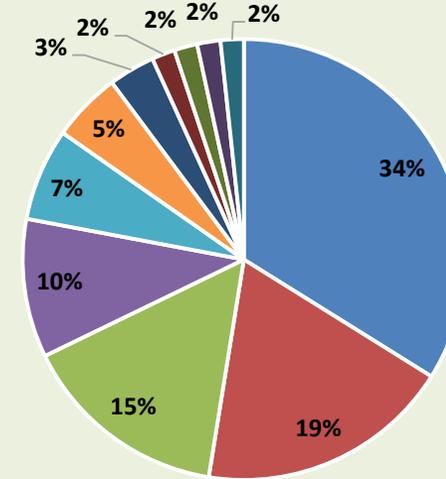


■ Injury ■ Possible Injury ■ Property Damage Only

- Total Number of Reported Crashes between 2019 and 2022 = **59**
- Calculated Segment Crash Rate for Kenwood Avenue is lower than the Statewide Average Crash Rates.

Summary of Crashes by Collision Type

From June 2019 and May 2022 (three years)



■ Right Angle ■ Rear End ■ Out Of Control
 ■ Sideswipe - Same Direction ■ Pedestrian ■ Backing Crash
 ■ Sideswipe - Opposite Direction ■ Animal ■ Head-On
 ■ Left Turn ■ Right Turn



III - EXISTING CONDITIONS ASSESSMENT

CRASH DATA (PEDESTRIANS & BICYCLES)

- Four (4) Pedestrian related crashes and zero (0) Bicycle related crashes.
 - One (1) in 2020 at the Kenwood Avenue / Delaware Avenue Intersection
 - Three (3) in 2021 on the segment between Oakwood Place and Delsmere Ave (near school)
- All four (4) crashes were reported as 'Injury' crashes



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IV - PROJECT WEBSITE & INTERACTIVE MAP INTRODUCTION

www.kenwoodavestudy.com

Comments accepted until April 30th, 2023



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V - BREAK-OUT GROUP SESSION / REPORT-OUT

- 20 minutes brainstorming Session
- One *Project Development Team Advisor* Per Table (from Town/CHA)
- Mark-Up Plans with **Issues/Concerns/Observations/Ideas** (Please write clearly 😊)
- Select one Person to report out to Entire Audience – 3 biggest Issues/Concerns



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VI - FINAL QUESTIONS & COMMENTS

- Final Questions?
- Provide Future Comments:
 - Via Project Website (Project Interactive Map):
 - www.kenwoodavestudy.com
 - www.townofbethlehem.org
 - By Email:
 - nowens@townofbethlehem.org
 - Via mail/email of Comment Sheet:
 - Back side of Agenda Handout
 - Comments due by April 30th, 2023



THANK YOU FOR YOUR PARTICIPATION!

