



CITY OF AVON LAKE

150 Avon Belden Road
Avon Lake, Ohio 44012

WORK SESSION

Council Chamber
October 6, 2025
7 p.m.

PUBLIC INPUT: *Members of the audience shall be permitted to speak only once, up to five minutes, on Work Session topic. [Code of Ordinance, Section 220.21(c)(1)]*

FINDINGS FROM TRAFFIC STUDY

Presentation by Aaron Grilliot of GFT¹ (Formerly TranSystems Corporation)

¹ Gannett Fleming merged with TranSystems Corporation and is now GFT.



Avon Lake Lear Road Traffic Study

October 6, 2025

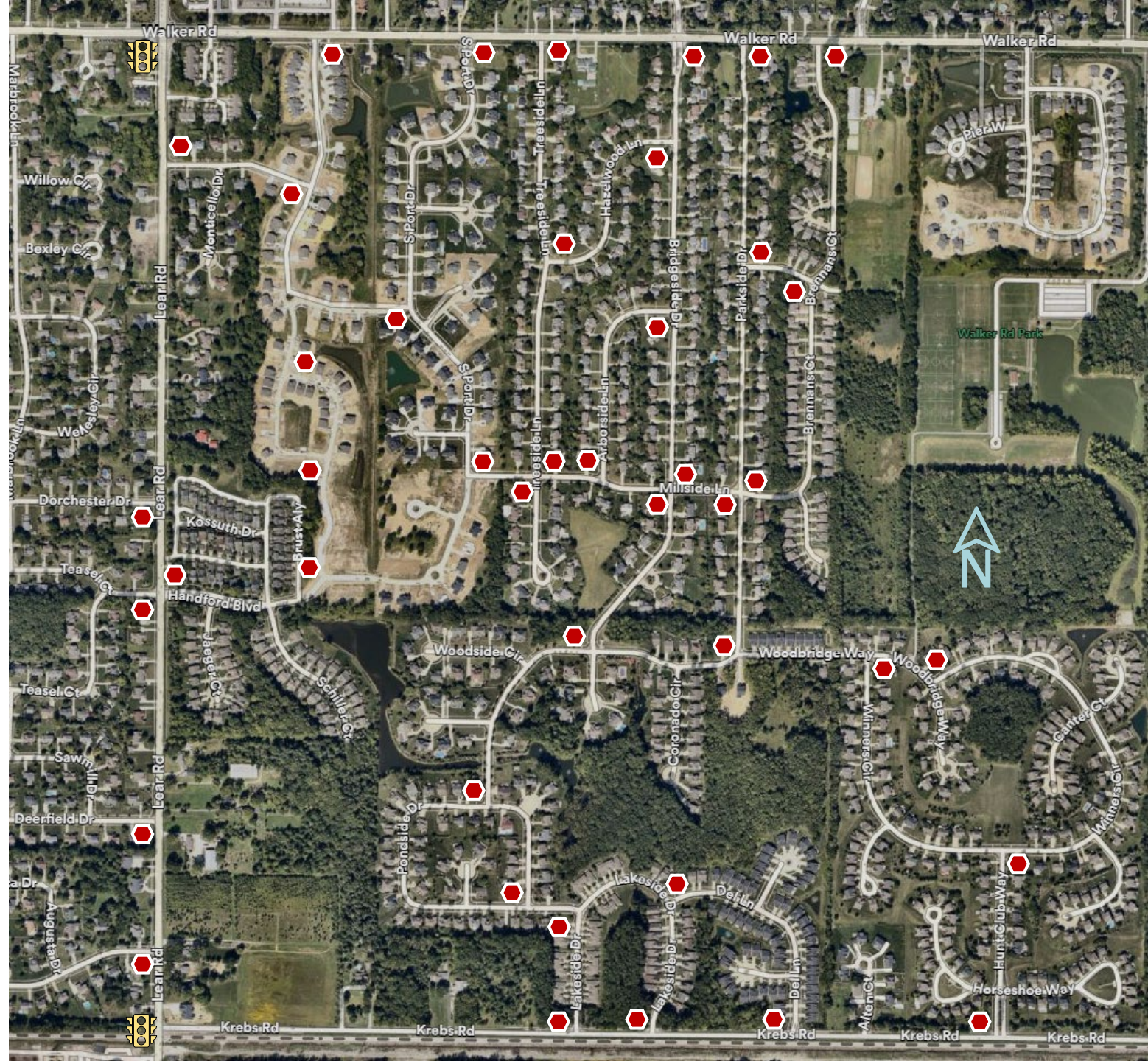
Agenda Community Meeting #2



- Study Overview and Goals
- Traffic Count Data
- Preliminary Analysis Results
- Next Steps

Study Area

10/06/2025



1. Identify existing traffic delays in the study area.
2. Identify anticipated future traffic delays in the area due to new developments.
3. Identify potential roadway improvements to mitigate existing or anticipated future traffic delays.
4. Provide City Council with information to support decision-making regarding interconnectivity at Liberty Rose Drive and Handford Boulevard.



Study Goals

Traffic Count Summary

Total daily vehicles entering each intersection

	Walker Road & Brennans Court	Walker Road & Parkside Drive	Walker Road & Bridgeside Drive	Walker Road & Treeside Lane	Walker Road & South Port Drive	Walker Road & Portside Drive	Walker Road & Lear Road	Lear Road & Liberty Rose Drive	Lear Road & Dorchester Drive	Lear Road & Handford Boulevard	Lear Road & Deerfield Drive	Lear Road & Country Club Drive	Krebs Road & Lear Road	Krebs Road & Lakeside Drive West	Krebs Road & Lakeside Drive East	Krebs Road & Del Lane	Krebs Road & Hunt Club Way
Tuesday	6584	7060	8740	8584	8922	8991	19110	9700	10263	10420	11148	11726	14215	5019	4474	4515	5302
Wednesday	6301	6669	8344	8722	9003	8508	18364	9537	9975	10316	11330	11713	13997	4780	4305	4349	5156
Thursday	6484	6887	7966	8816	9101	8203	18110	9409	9785	10101	10598	12108	13618	4845	4352	4326	5144
Saturday	4496	4779	5932	5825	5956	6102	12964	6138	6914	6568	7063	7581	9331	3382	2994	2966	3464

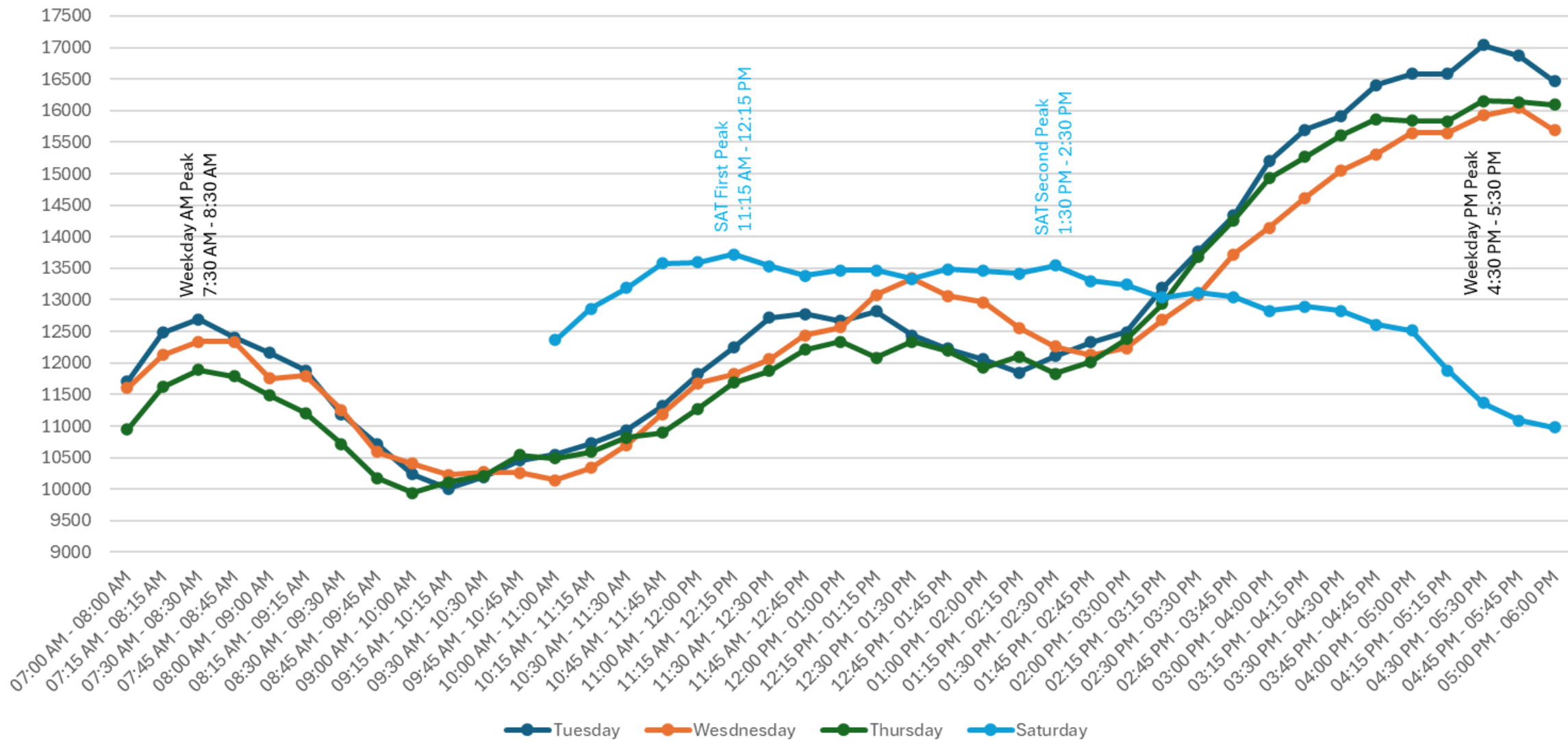
Ranking of busiest intersections


	Walker Road & Brennans Court	Walker Road & Parkside Drive	Walker Road & Bridgeside Drive	Walker Road & Treeside Lane	Walker Road & South Port Drive	Walker Road & Portside Drive	Walker Road & Lear Road	Lear Road & Liberty Rose Drive	Lear Road & Dorchester Drive	Lear Road & Handford Boulevard	Lear Road & Deerfield Drive	Lear Road & Country Club Drive	Krebs Road & Lear Road	Krebs Road & Lakeside Drive West	Krebs Road & Lakeside Drive East	Krebs Road & Del Lane	Krebs Road & Hunt Club Way
Tuesday	13	12	10	11	9	8	1	7	6	5	4	3	2	15	17	16	14
Wednesday	13	12	11	9	8	10	1	7	6	5	4	3	2	15	17	16	14
Thursday	13	12	11	9	8	10	1	7	6	5	4	3	2	15	16	17	14
Saturday	13	12	10	11	9	8	1	7	5	6	4	3	2	15	16	17	14
Average	13	12	11	10	9	9	1	7	6	5	4	3	2	15	17	17	14

10/06/2025

Traffic signals exist today at Walker/Lear and Krebs/Lear.

Study Area Total Traffic Volumes by Day of the Week



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1. Existing Conditions Analysis
 2. New Residential Developments – Vehicular Trip Generation and Distribution
 3. Future Conditions Traffic Analysis – With and Without Interconnectivity at Liberty Rose Drive and/or Handford Boulevard
 4. Sensitivity Analysis
 - a. Make initial assumptions about trip routing based on existing travel patterns.
 - b. Analyze the effects of these assumptions.
 - c. Adjust the assumptions about trip routing based on the results of the initial analysis.

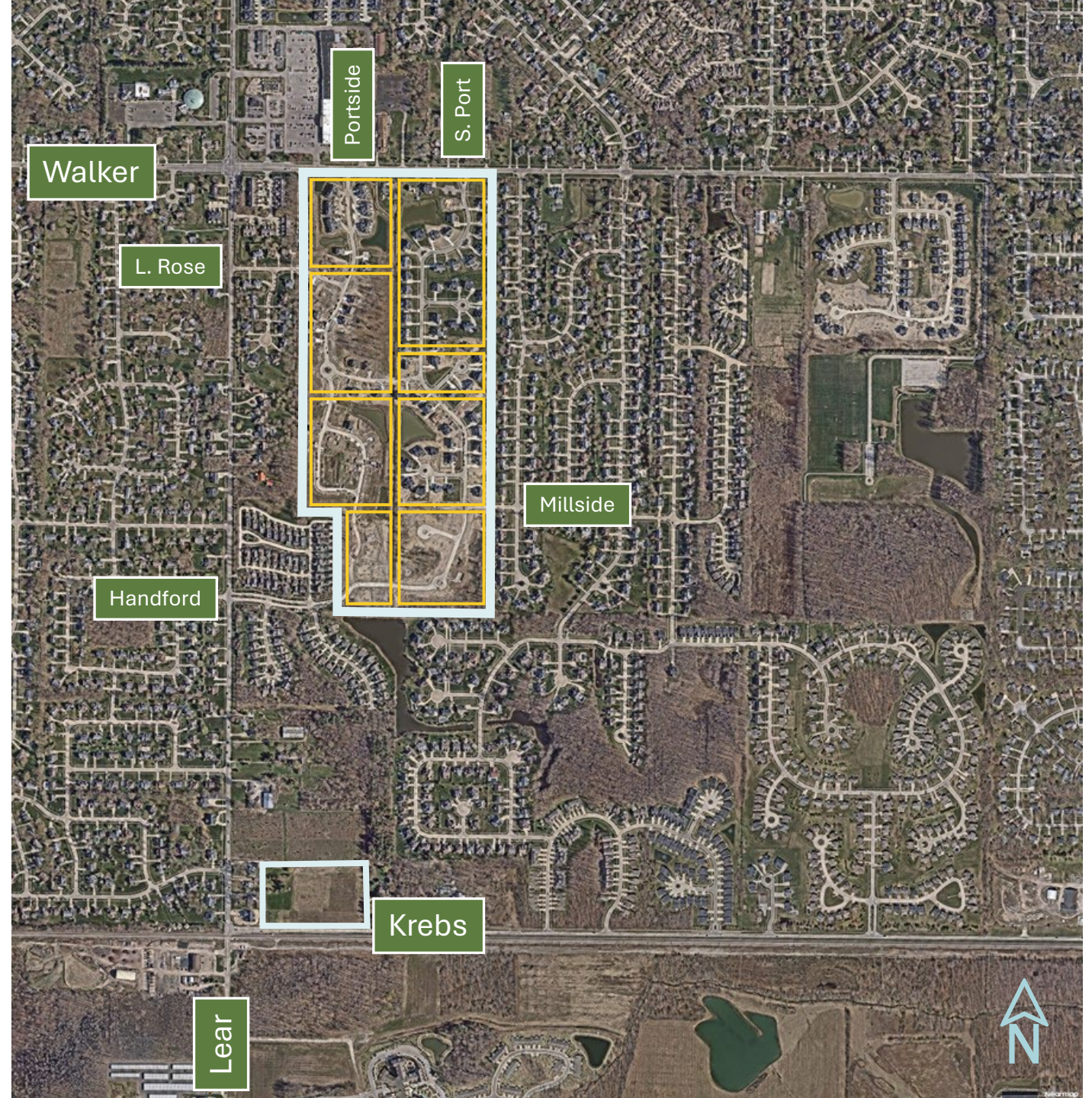
Analysis Process

Baseline Analysis Routing Assumptions

New Study Development Homes: 195

Krebs Development Homes: 14

Subdivided areas for trip routing



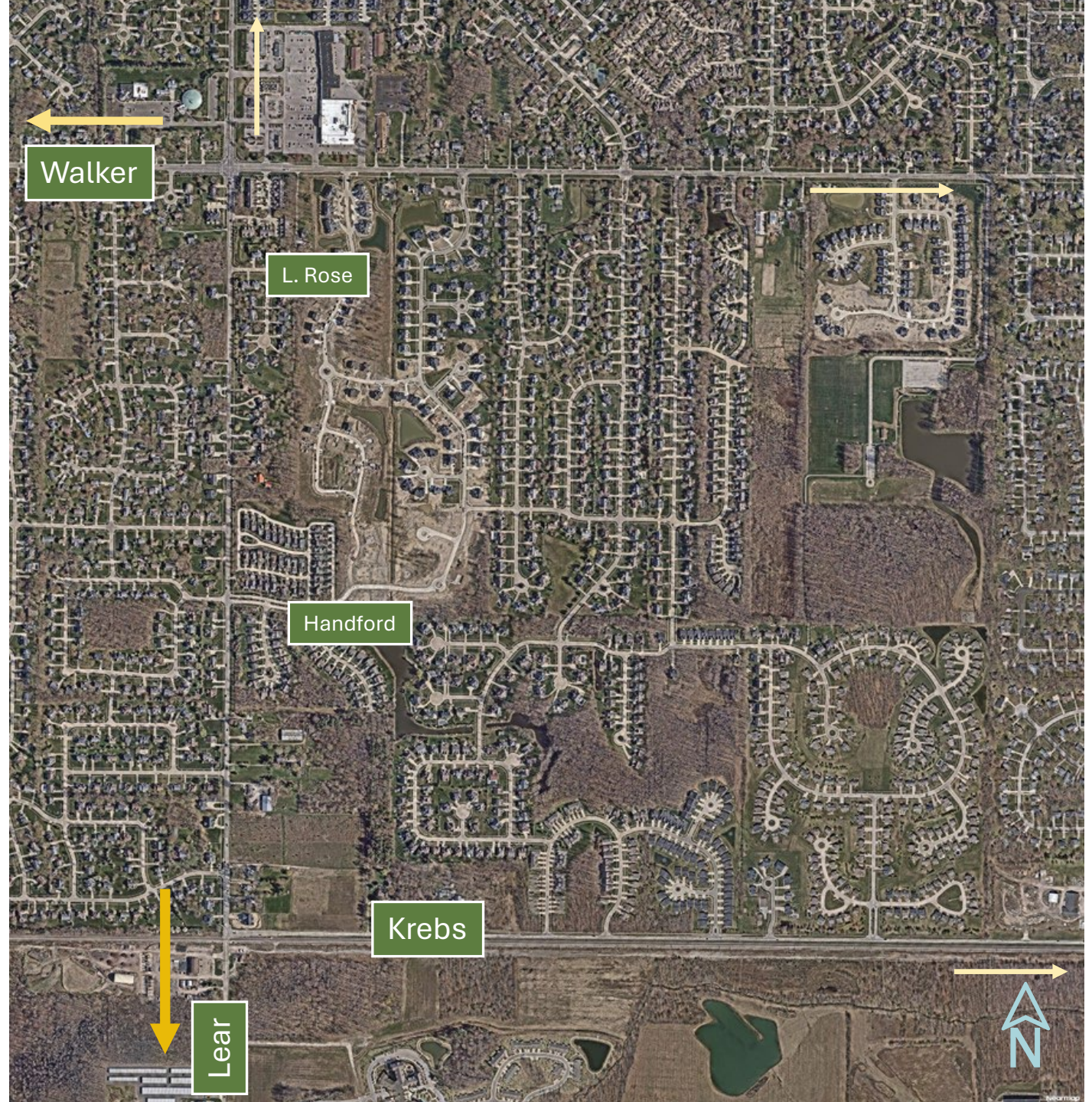
Baseline Analysis Routing – AM peak

Study Site Inbound Trips: 32
(~1 vehicle every 2 minutes)
Study Site Outbound Trips: 97
(~1-2 vehicles per minute)

Krebs Site Inbound Trips: 2
Krebs Site Outbound Trips: 8

40% of AM peak outbound
trips (approx. 40 trips) head
South on Lear Road

10/06/2025



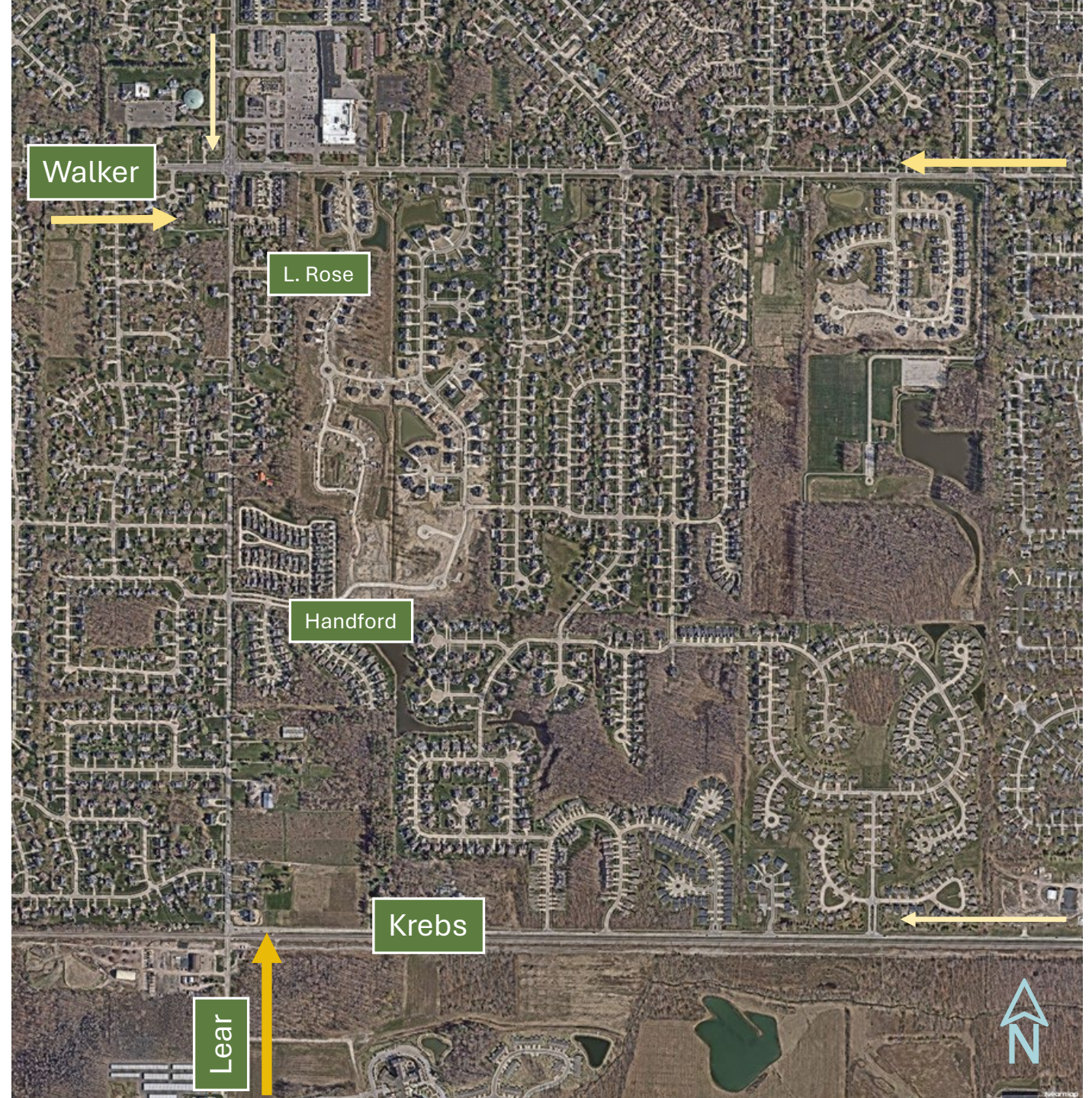
Baseline Analysis Routing – PM peak

Study Site Inbound Trips: 106
(~2 vehicles per minute)
Study Site Outbound Trips: 63
(~1 vehicle per minute)

Krebs Site Inbound Trips: 8
Krebs Site Outbound Trips: 5

35% of PM peak inbound
trips (approx. 40 trips)
originate from the south
on Lear Road

10/06/2025



ODOT Standard Travel Delay Metrics

Criteria	Operational Goal
Intersection LOS	D or better
Approach LOS	E or better
Movement LOS	E or better

Level of Service (LOS)	Unsignalized Average Delay per Vehicle (s)	Signalized Average Delay per Vehicle (s)
A - C	≤25.0	≤35.0
D	25.1 to 35.0	35.1 to 55.0
E	35.1 to 50.0	55.1 to 80.0
F	>50	>80

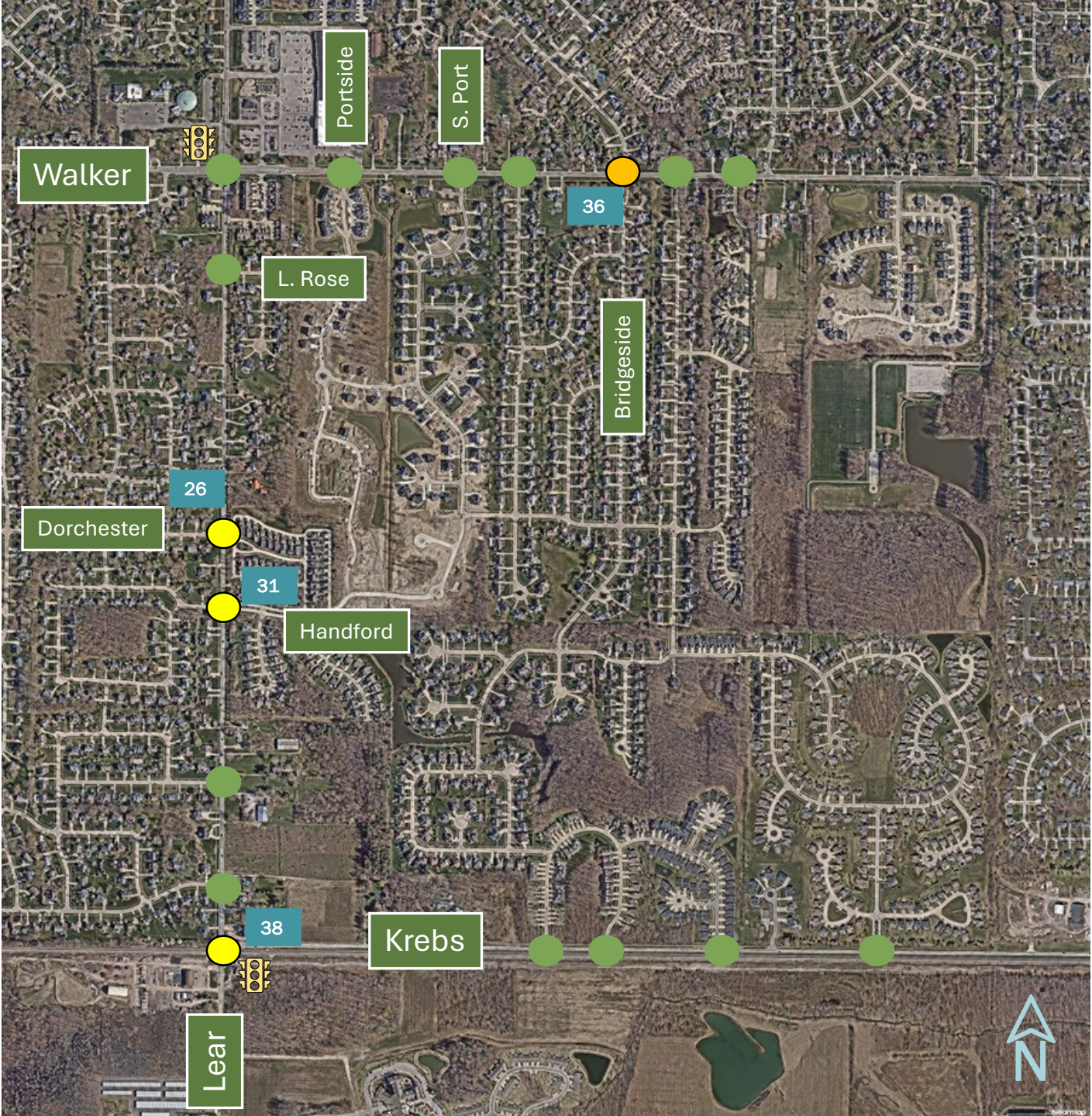
Highest Side Street Approach Delays

Existing Condition

Level of Service (LOS)	Unsignalized Average Delay per Vehicle (s)	Signalized Average Delay per Vehicle (s)
A - C	≤25.0	≤35.0
D	25.1 to 35.0	35.1 to 55.0
E	35.1 to 50.0	55.1 to 80.0
F	>50	>80

Denotes seconds of side street delay

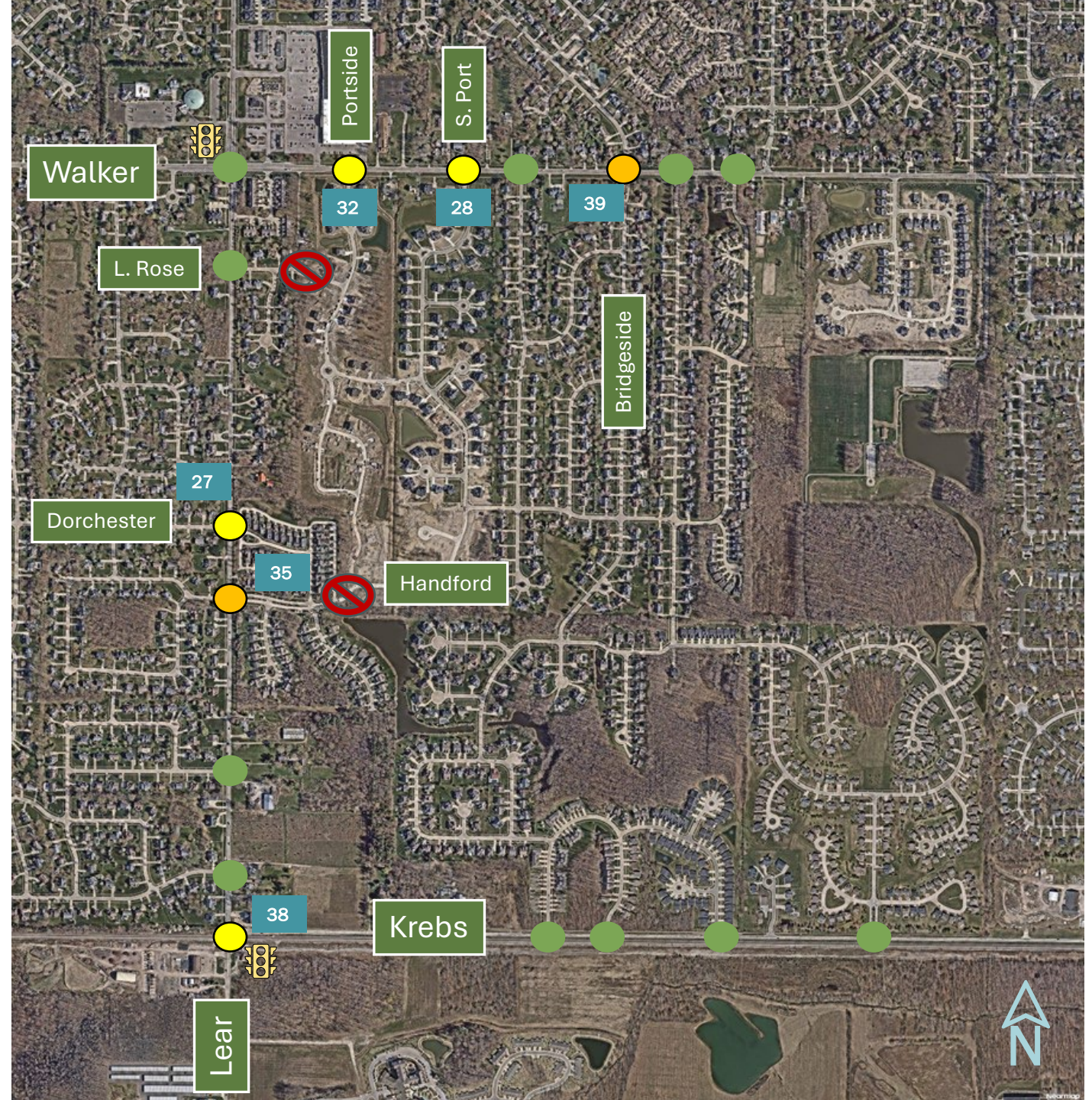
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Highest Side Street Approach Delays *Dual Barricades*

Level of Service (LOS)	Unsignalized Average Delay per Vehicle (s)	Signalized Average Delay per Vehicle (s)
A - C	≤25.0	≤35.0
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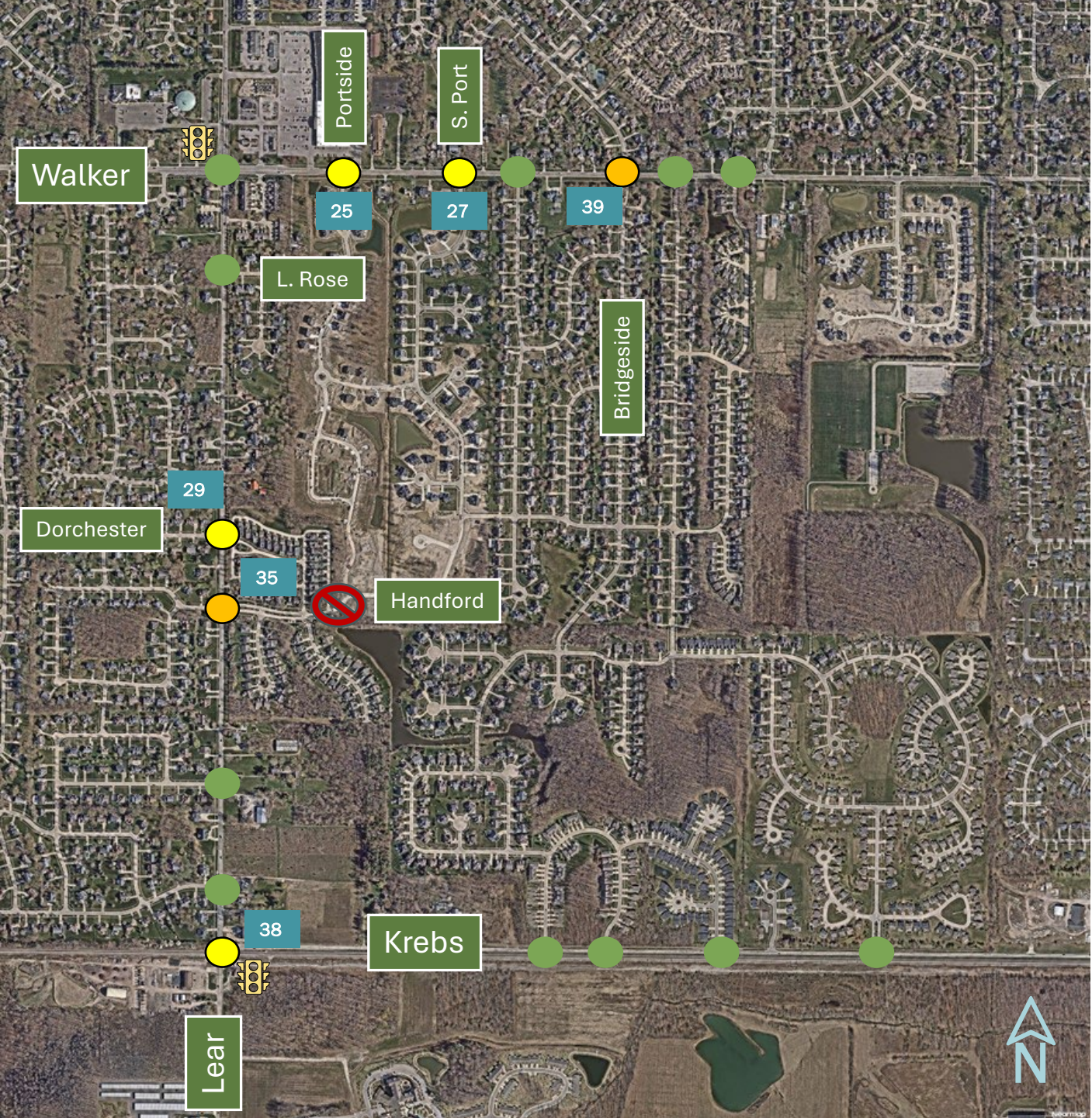
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Highest Side Street Approach Delays

Handford Barricade

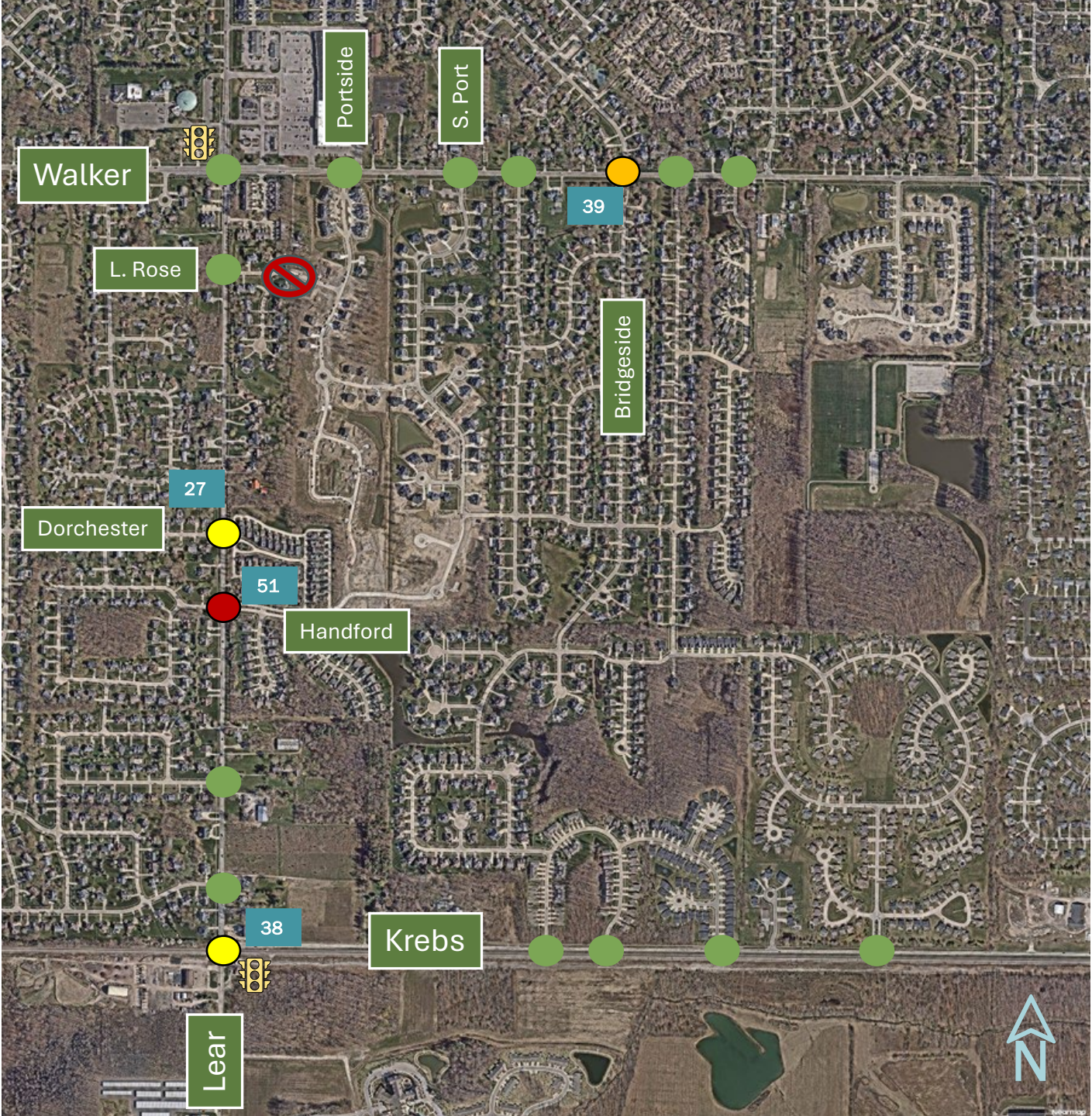
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Highest Side Street Approach Delays

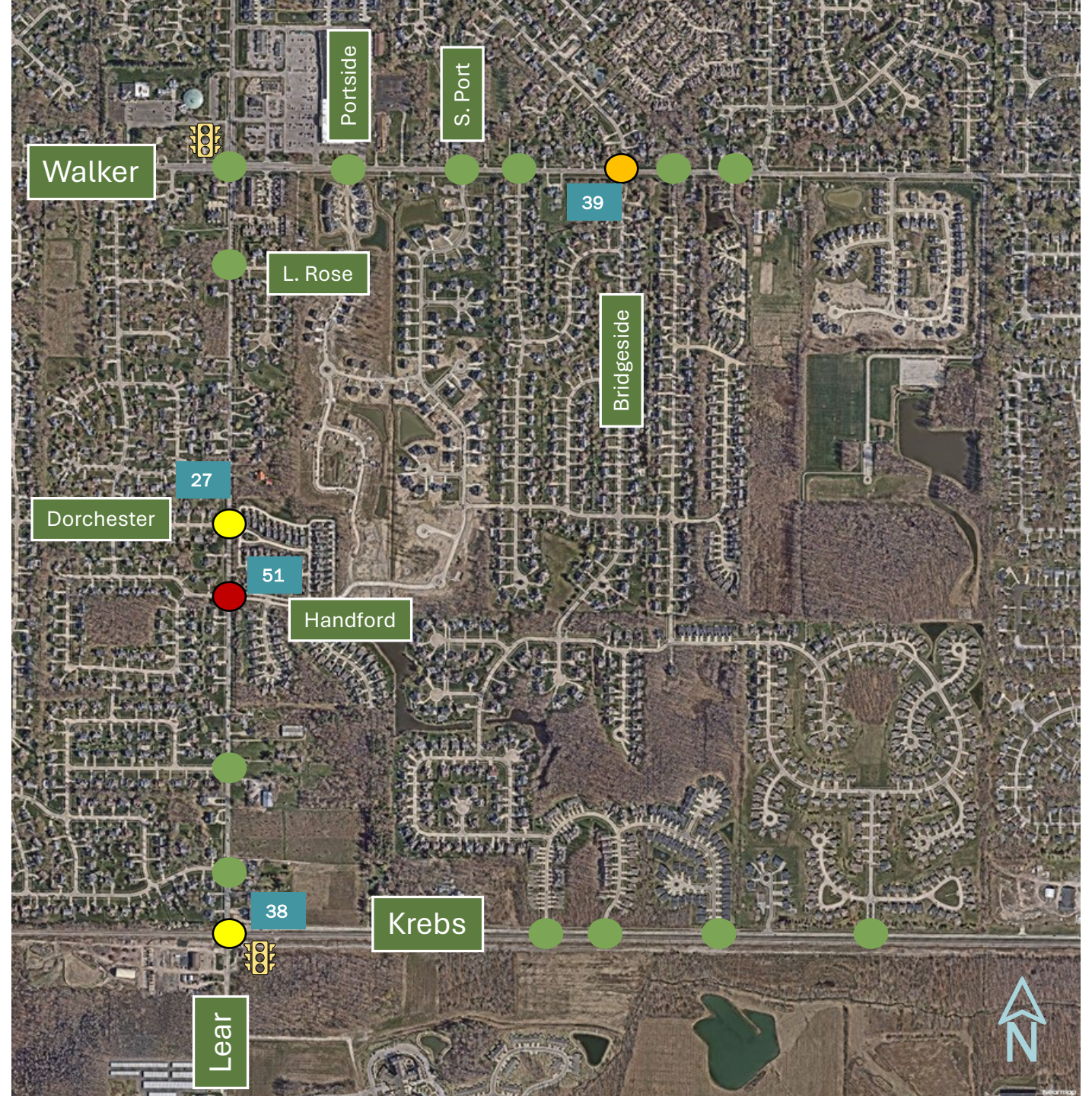
Liberty Rose Barricade

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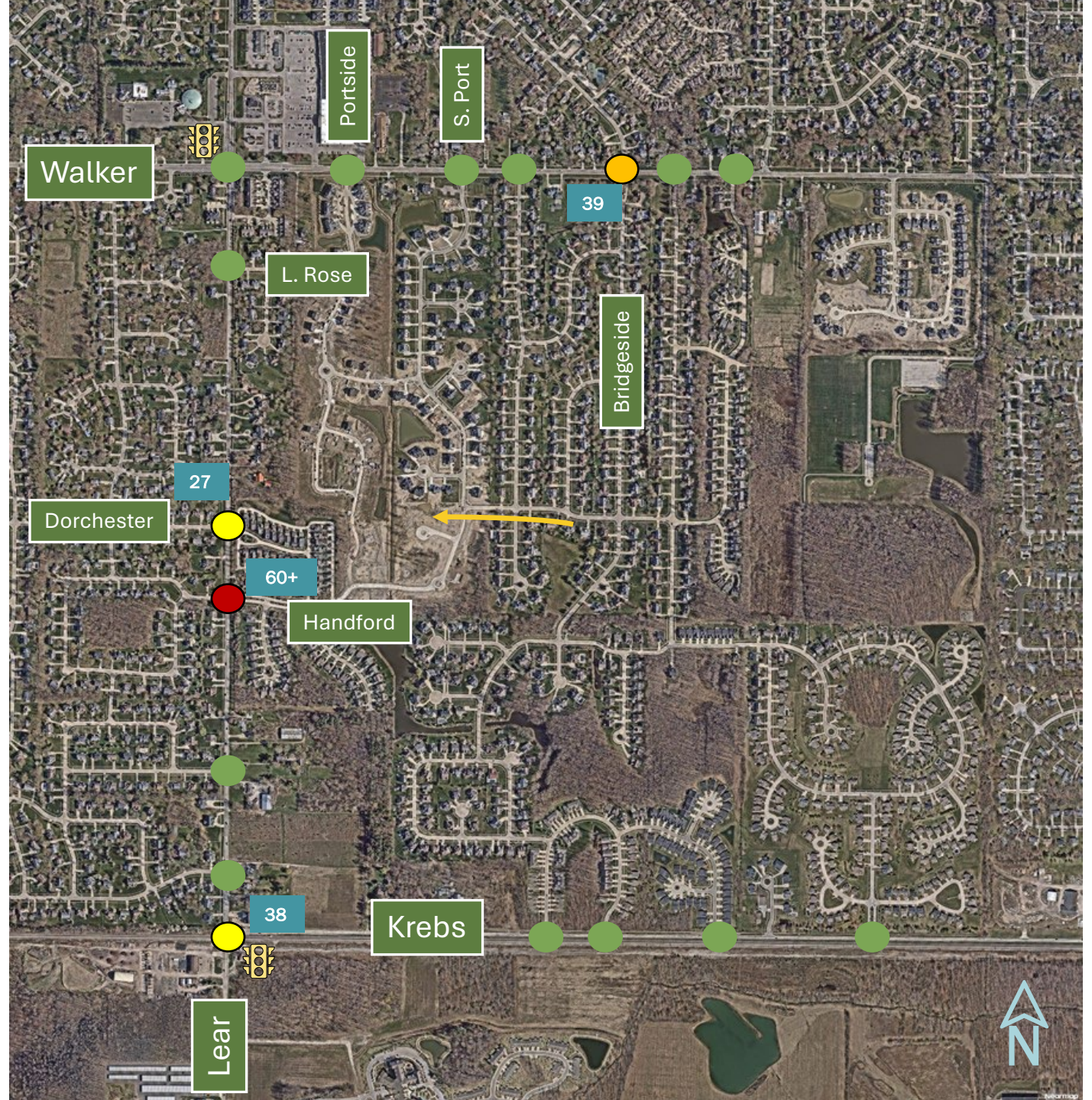


Highest Side Street Approach Delays No Barricades

Level of Service (LOS)	Unsignalized Average Delay per Vehicle (s)	Signalized Average Delay per Vehicle (s)
A - C	≤25.0	≤35.0
D	25.1 to 35.0	35.1 to 55.0
E	35.1 to 50.0	55.1 to 80.0
F	>50	>80



Handford delay increases:
10 additional vehicles – 60s
50 additional vehicles – 120s



Sensitivity Analysis

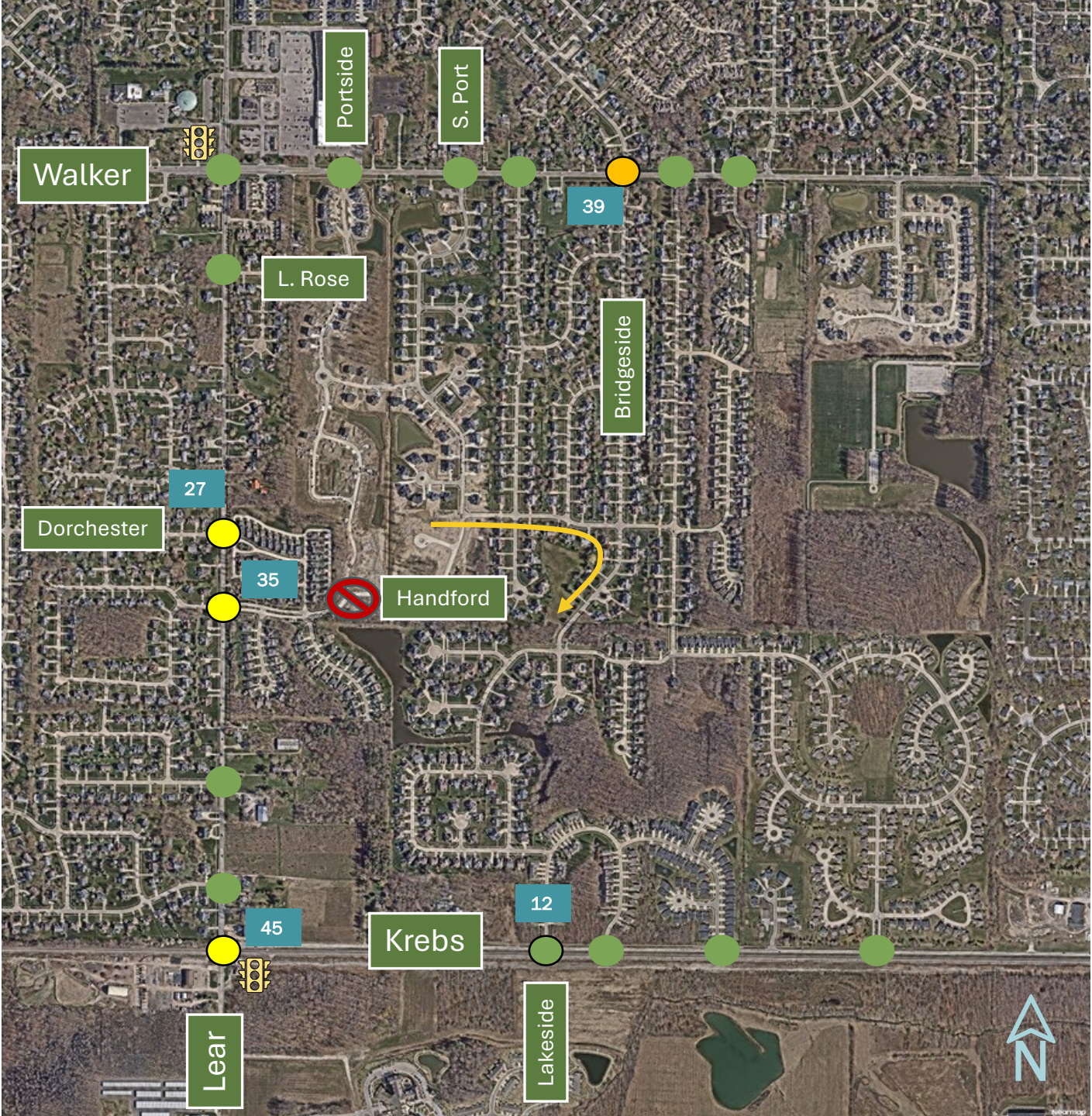
Handford Barricade

SB Outbound Trips

Routed thru Millside

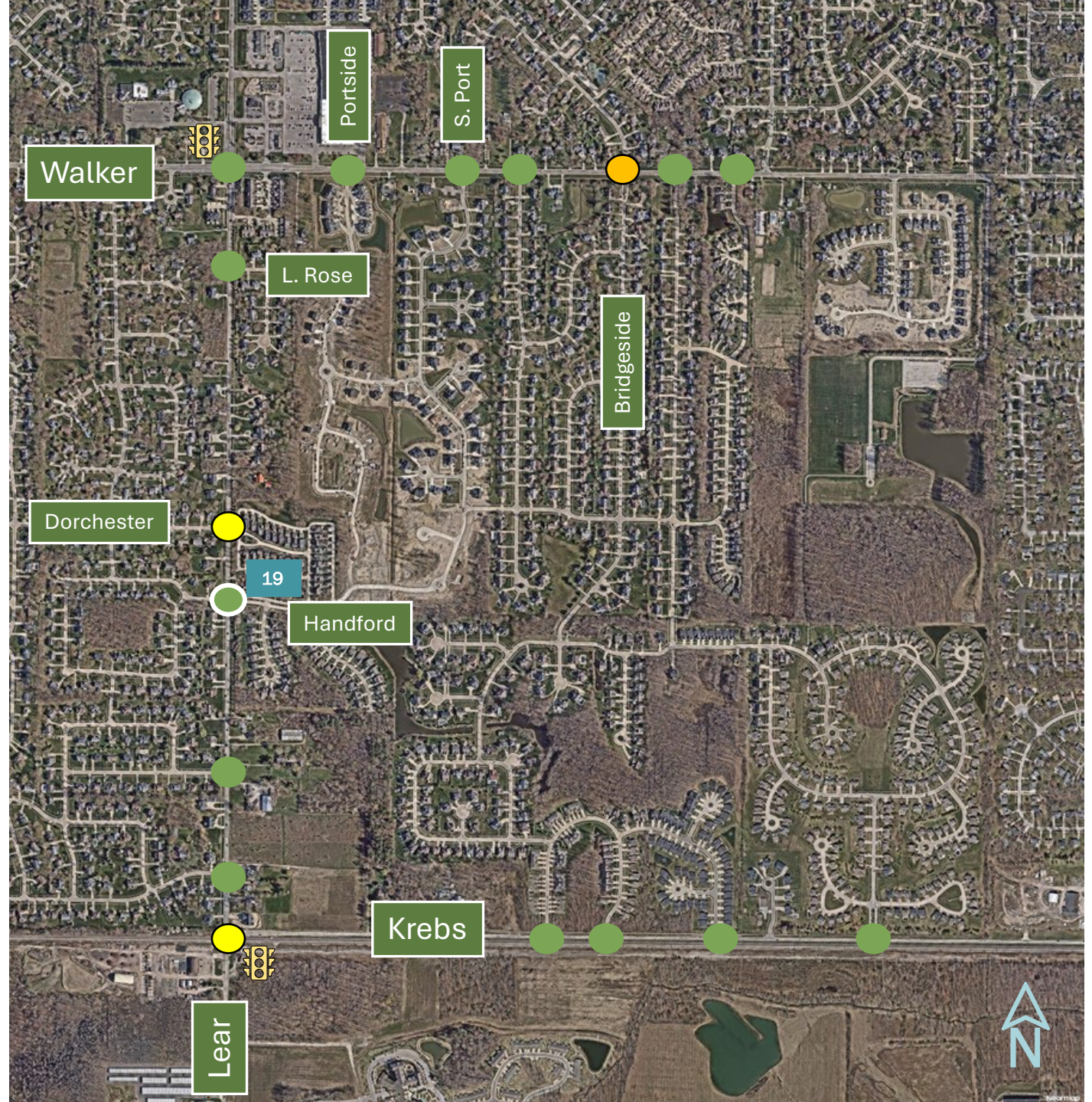


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E	35.1 to 50.0	55.1 to 80.0
F	>50	>80



Highest Approach Delays (No Barricades) Handford Signalization

Level of Service (LOS)	Unsignalized Average Delay per Vehicle (s)	Signalized Average Delay per Vehicle (s)
A - C	≤25.0	≤35.0
D	25.1 to 35.0	35.1 to 55.0
E	35.1 to 50.0	55.1 to 80.0
F	>50	>80



Next Steps

Analysis refinements and report preparation

- Refine sensitivity analysis as necessary based on council and community input
- Prepare report to summarize study process and findings

Community Touchpoint: meeting #3

- Present study findings

Questions?

Thank you
