



Public Works and Transportation Committee

June 5, 2024

# **2024-2029 Proposed Transportation Improvement Program**

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Division of Transportation

Shane E. Schneider, P.E.

Director/County Engineer

# Agenda

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- **Schedule**
- **Statutory Requirements**
- **Fund Sources**
- **Fund Distribution**
- **Program Categories and Priorities**
- **Preservation Projects**
- **Modernization Projects**
- **Non-motorized Projects**
- **Expansion Projects**

# Schedule

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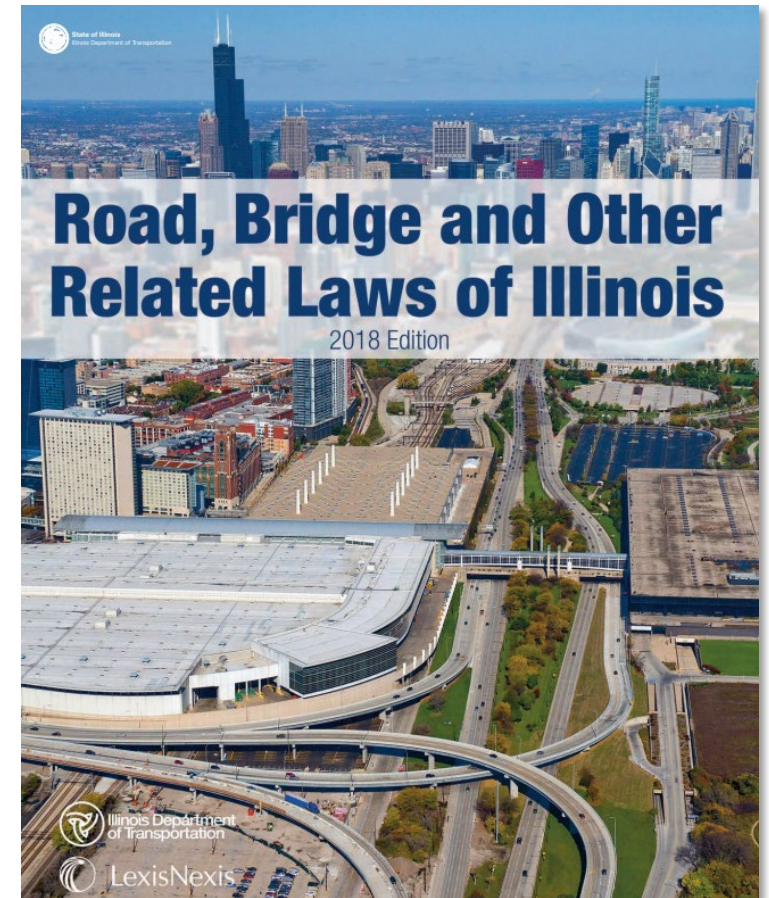
- **June 5, 2024**      **Proposed Program Presentation**
- **June 26, 2024**      **Committee Adoption**
- **July 9, 2024**      **County Board Adoption**

# Purpose

## Statutory Requirements

### Illinois Road and Bridge Laws (*605 ILCS 5/5-301*)

- County Engineer (in counties with populations over 185,000) shall update the 5-Year Transportation Improvement Program on an annual basis
  - Notify local public agencies (populations over 5,000)
  - File plan with the Illinois Department of Transportation
- Must maintain a Long-Range Transportation Plan (20-Year Plan)



**Lake County's Five-Year Transportation Improvement Program is fiscally constrained based on the expected revenue over the planning horizon.**

## 5 Local Revenue Streams Support Transportation Project Funding:



**Property Tax  
Based\***

- **County Bridge Tax**
- **Matching Tax**



**Sales Tax  
Based**

- **RTA ¼% Sales Tax**



**User Fee  
Based**

- **Motor Fuel Tax**
- **County Option  
Motor Fuel Tax**

\*County Highway Tax is an additional property tax-based fund used for LCDOT Operations.

# Fund Sources

## County: 5-Year Revenue Projections



Local Fund Source	2025	2026	2027	2028	2029
County Bridge Tax	\$3.9	\$3.9	\$3.9	\$3.9	\$3.9
Matching Tax	\$8.3	\$8.3	\$8.3	\$8.3	\$8.3
County Option Motor Fuel Tax	\$12.2	\$12.2	\$12.2	\$12.1	\$12.1
Motor Fuel Tax	\$17.4	\$17.3	\$17.3	\$17.3	\$17.2
RTA ¼% Sales Tax	\$43.8	\$45.4	\$47.1	\$48.6	\$50.3
<b>TOTAL</b>	<b>\$85.6</b>	<b>\$87.1</b>	<b>\$88.8</b>	<b>\$90.2</b>	<b>\$91.8</b>

*millions USD*

### Assumptions:

- County Bridge Tax - flat growth
- Matching Tax - flat growth
- RTA Sales Tax - 3.5% annual growth (per RTA)
- Motor Fuel Tax - 0.25% annual decline (per Governor's Budget Proposal) (EVs and greater fuel efficiency are slowing growth)
- County Option Motor Fuel Tax - 0.25% annual decline (per Governor's Budget Proposal) (EVs and greater fuel efficiency are slowing growth)
- Outside revenue not included

# Fund Sources

## Federal, State, Local Partners

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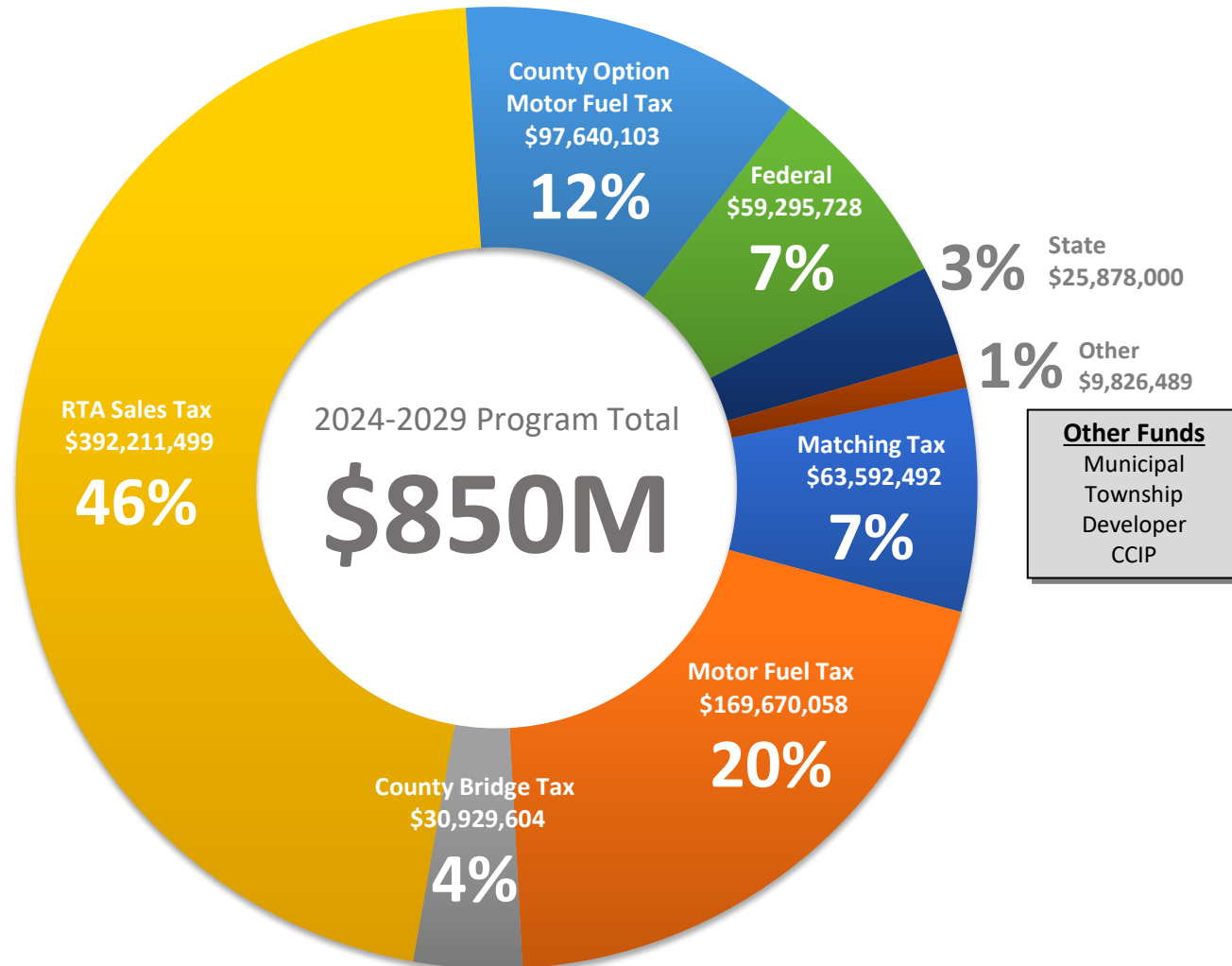
### Partial List of Commonly Pursued Outside Fund Sources

- **CMAQ** Congestion Mitigation and Air Quality
- **DCEO** Illinois Department of Commerce & Economic Opportunity
- **HSIP** Highway Safety Improvement Program
- **ICC** Illinois Commerce Commission Railroad Grade Crossing Protection
- **IIJA/BIL** Infrastructure Investment & Jobs Act/Bipartisan Infrastructure Law
- **ITEP** Illinois Transportation Enhancement Program
- **LA** Local Agency Partnerships and Reimbursements
- **MYP** IDOT's Multi-Year Plan (State Funding)
- **RAISE** Rebuilding American Infrastructure with Sustainability and Equity
- **RBI** Rebuild Illinois Bonds
- **STP** Surface Transportation Block Grant
- **SS4A** Safe Streets and Roads for All
- **TAP** Transportation Alternatives Program
- **5310** Mobility of Seniors and Individuals with Disabilities (Paratransit)
- **More...**



# Fund Sources

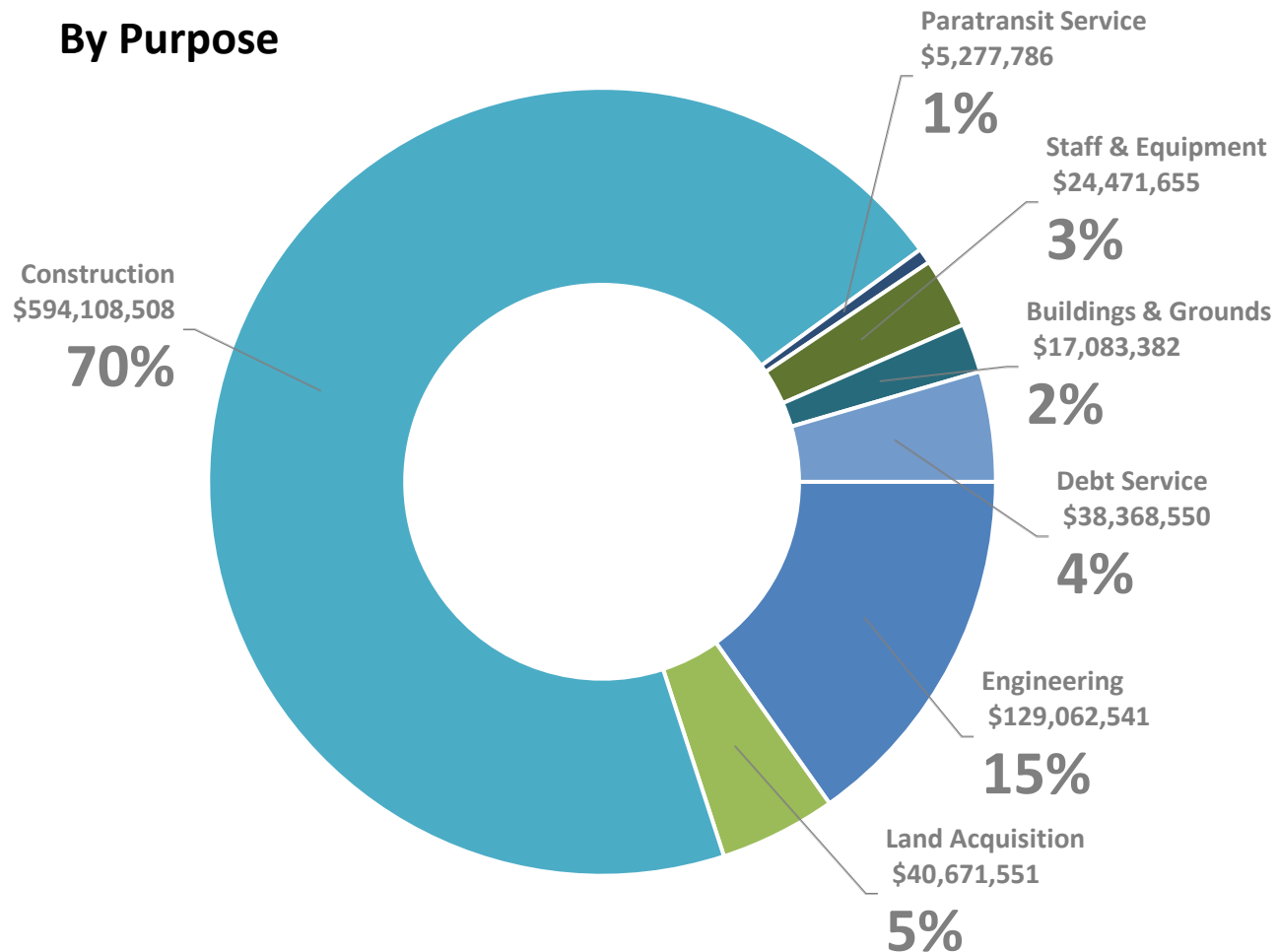
## 2024-2029 Program Totals



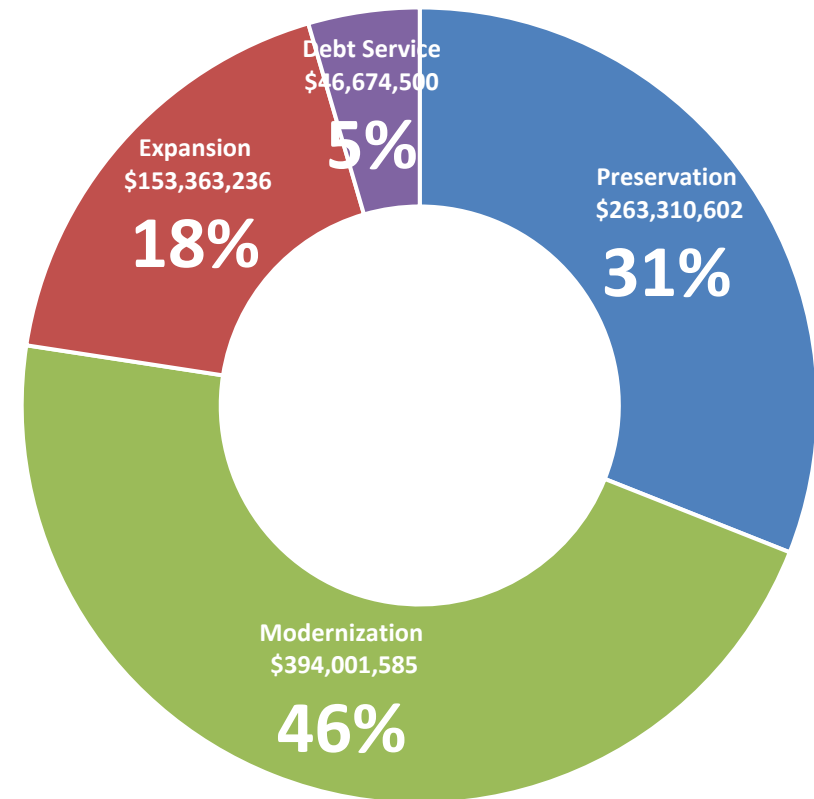
# Fund Distribution

## 2024-2029 Program Totals

By Purpose



By Project Type



# Program Priorities

## 1. Preservation

- Keep roads, bridges, drainage systems, and other assets in good condition

## 2. Modernization

- Reduce delays and increase safety
- Non-motorized accommodation
- Use technology

## 3. Expansion

- Accommodate regional traffic and economic development

# Priority One: Preservation

## Project selection tools:

- Asset inventories
- Condition assessments
- Life cycle/benefit cost analysis
- Unit cost information
- Industry standards
- Innovative techniques

## Typical projects include:

- Resurfacing and other pavement treatments
- Annual maintenance work



# Pavement Management System

- For data-driven, cost-effective decisions:
  - **Where** repairs are needed
  - **What** repair strategies to use
  - **When** repairs will be most effective
- Using these program components:
  - County highway database
  - Automated pavement testing
  - Repair strategies with costs
  - Pavement aging predictions
  - Optimization program



*Laser surface testing*



*Dynaflect*

# Pavement Management Summary

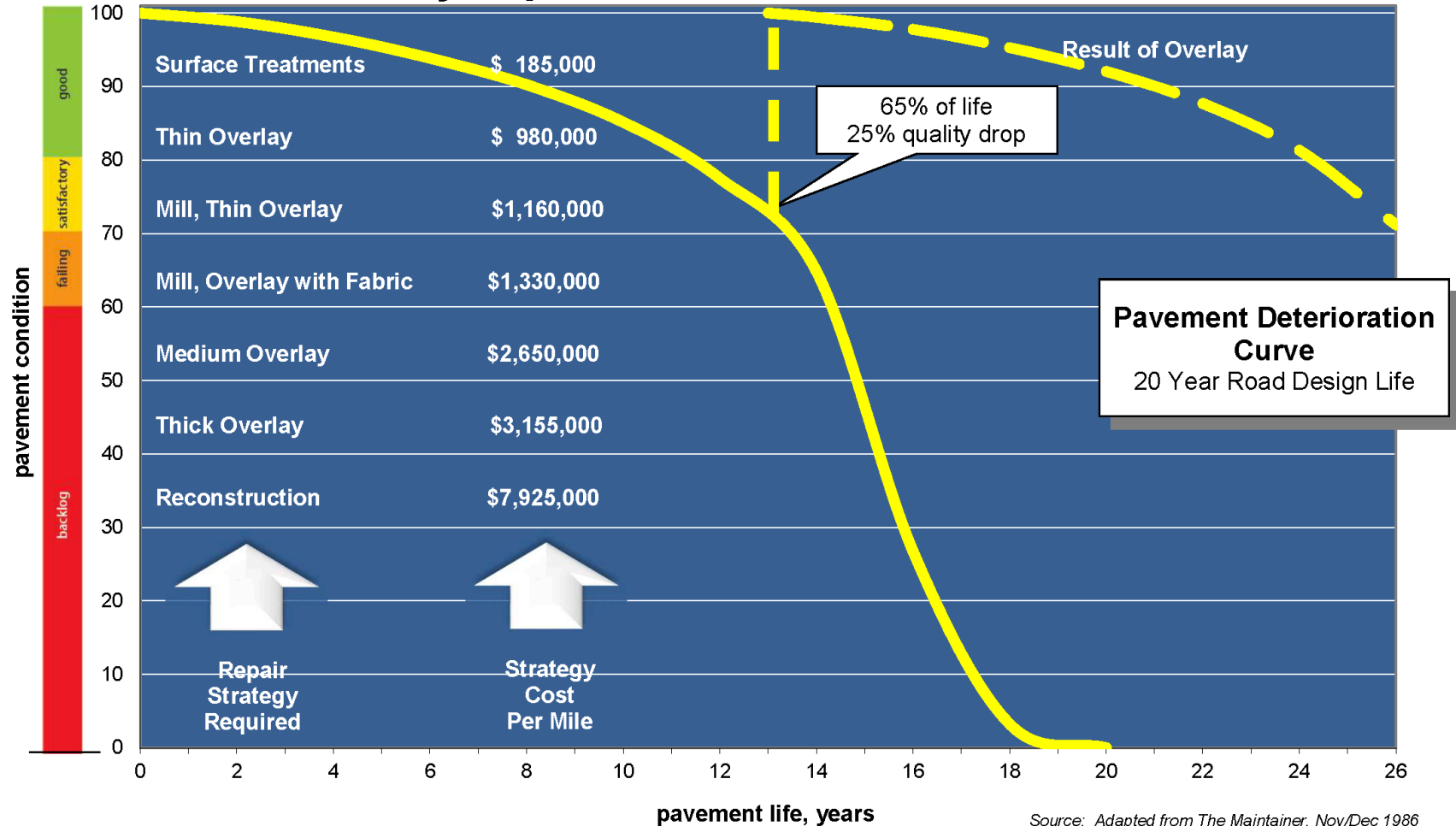
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- Pavement management system *does...*
  - Assess the present condition of the system
  - Estimate future road conditions
  - Identify and rank road projects
  - Maximize the condition of the system within the given budget
- Pavement management system *does not...*
  - Replace professional judgment
  - Provide certain detailed project-specific information
  - Evaluate storm sewer and other roadway assets

# Pavement Management Life Cycle Analysis

**GOAL:**  
Make the Right Investment, at the Right Time

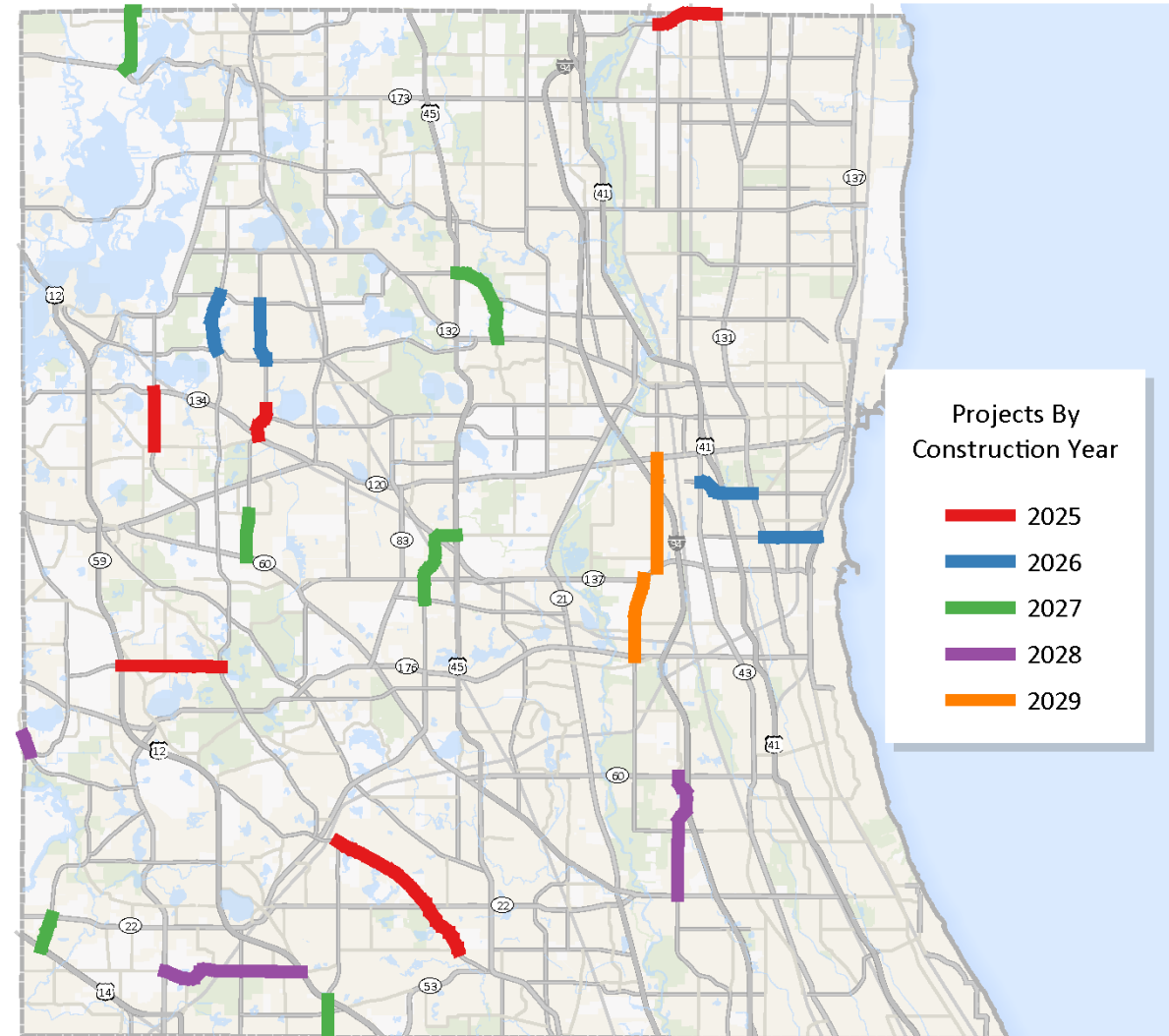
## Early repairs are most cost effective



# Resurfacing Projects

## Pavement Management Program Recommends:

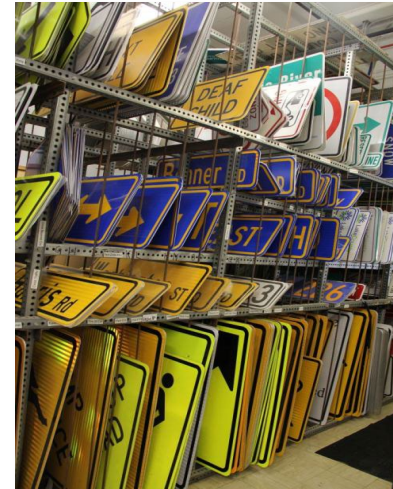
- 2025: 9.5 miles
- 2026: 5.1 miles
- 2027: 8.2 miles
- 2028: 6.6 miles
- 2029: 4.4 miles





# Asset Inventories

- Pavement and bike facilities
- Guardrail, bridges, rail crossings
- Signals and signs
- Drainage and stormwater facilities
- Fencing
- More...



# Assets: Pavement

- Lane miles 910
- Centerline miles 303
- Miles paved shoulder 249
- Average age of roadway (years) 52
- Average age of surface (years) 11



# Assets: Culverts

- **A variety of culvert materials:**
  - **Concrete**
  - **Corrugated metal pipe (CMP)**
  - **Composite**
  - **PVC**
- **More than 680 individual culverts, totaling over 51,000 feet**
- **Ranging in size from 12 inches to 12 feet in diameter**



# Assets: Signs

- 8,315 Regulatory
  - 10,825 Guide
  - 6,049 Warning/Object Marker
  - 2,411 Information
  - 526 School
- 
- 28,126 Total Signs



*Signs installed/maintained by LCDOT*  
*Source: LCDOT sign inventory, May 2024*

# Assets: Non-Motorized Travel

- Path/pedestrian bridges 16
- Tunnels and underpasses 16
- Miles of path facilities 66
- Miles of paved shoulder 161



# Assets: Other

- **17,974 storm sewer structures**
- **198 miles of storm sewer pipe**
- **681 culverts**
- **59 stormwater basins**
- **59,133 feet of fencing**
- **26,002 feet of retaining wall**
- **21 miles of guardrail**
- **43 landscape areas (101 acres)**



*LCDOT GIS / May 2024*

# Lake County's Bridges

## National Bridge Inventory System (NBIS)



### NBIS Criteria

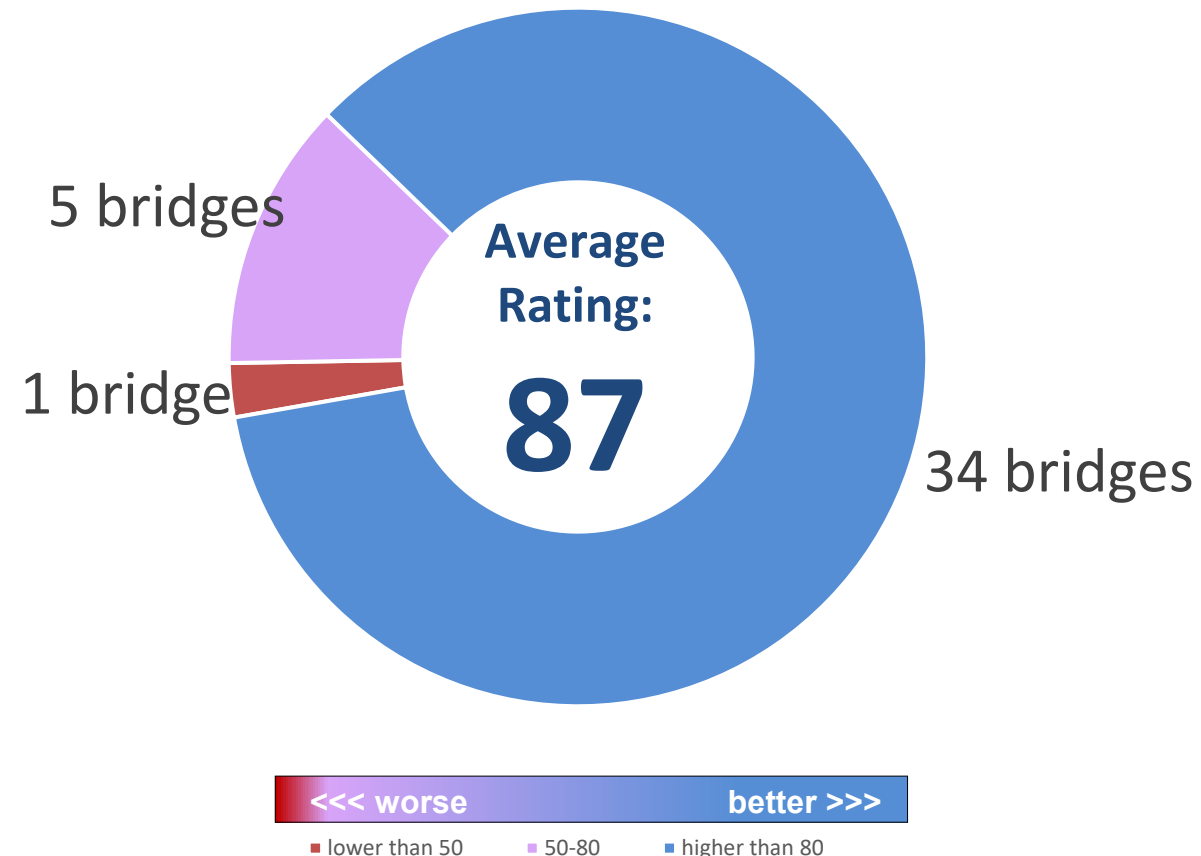
- Structure carries vehicle traffic
- Has a span length of 20 feet or greater

### Programmed for Rehab/Replacement

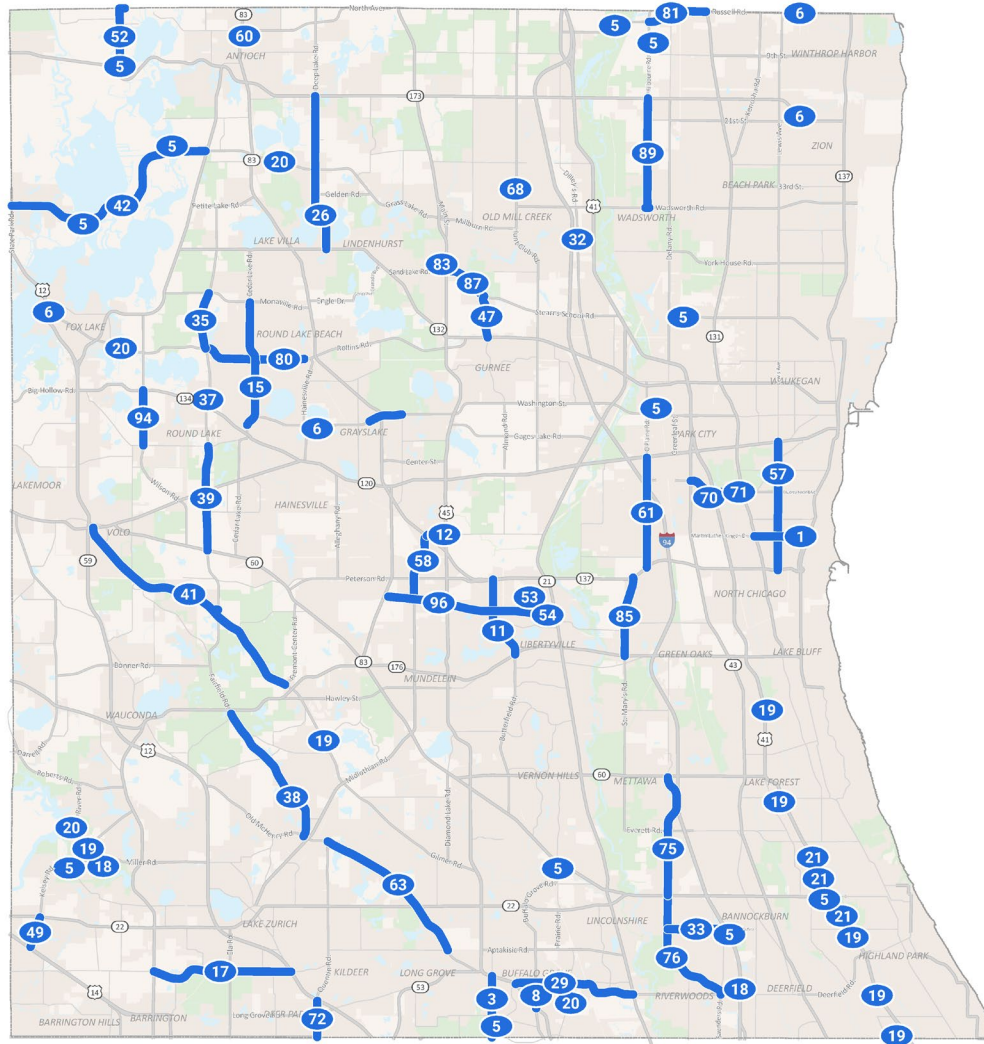
- Dilley's Rd Bridge over Mill Creek
- Pulaski Rd over US41/UPRR

### Sufficiency Ratings

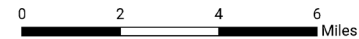
40 bridges rated



# Preservation | 2024 - 2029



● Fully Programmed





# Preservation Projects



Preservation Projects				
Map ID	Title	Program Year	Total Cost	ProjectTracker ID
1	22nd St/MLK Jr. Dr. Resurfacing (IL131 to IL137)	2026	\$2,057,129	23-29
3	Arlington Heights Road Reconstruction	2024	\$18,226,203	B-01182
5	Bridge Repairs 2022	2024	\$523,958	B-01663
6	Bridge Repairs 2024-Pedestrian Bridge Decks	2024	\$300,000	23-42
8	Buffalo Grove Road Rehabilitation (IL83 to Deerfield Pkwy)	2026	\$750,000	B-01359
11	Butterfield Road Resurfacing (IL137 to IL176)	2024	\$2,959,000	B-01636a
12	Casey Road Resurfacing (IL137 to US45)	2027	\$768,100	24-22
15	Cedar Lake Road Resurfacing (Monaville to Hart Road)	2026	\$3,825,000	B-01395
17	Cuba Road Resurfacing (IL59 to US12)	2028	\$4,633,213	B-01678
18	Culvert Lining 2025	2025	\$150,000	24-34
19	Culvert Replacement 2024 (Skokie Valley Bike Path, Miller Road and Gilmer Road)	2025	\$1,307,949	B-01517
20	Culvert Replacement 2026 (Deerfield Parkway, River, Grass Lake, Rollins, Robert McClory Bike Path)	2026	\$7,675,000	B-01645
21	Culvert Replacement 2028 (Skokie Valley Bike Path)	2028	\$602,966	23-04
26	Deep Lake Road 3R and Resurfacing (IL132 to IL173)	2024	\$8,592,944	B-00913a
29	Deerfield Parkway Concrete Repair (IL21/US45 to IL83)	2024	\$2,240,000	B-01708
32	Dilley's Road Bridge Repair at Mill Creek	2025	\$1,325,231	23-62
33	Duffy Lane 3R	2028	\$5,626,500	23-36
35	Fairfield Road 3R (Monaville to Rollins)	2026	\$4,750,000	23-25
37	Fairfield Road Culvert Replacement at Round Lake Drain (Culvert #257)	2025	\$2,100,983	B-01434
38	Fairfield Road Resurfacing (IL176 to Old McHenry)	2024	\$4,880,000	B-01706
39	Fairfield Road Resurfacing (Nippersink to IL60)	2024	\$2,150,000	B-01634
41	Gilmer Road Resurfacing (IL120 to IL176)	2024	\$5,669,858	B-01631a
42	Grass Lake Road Safety Improvement	2024	\$4,250,000	23-43
47	Hutchins Road Resurfacing (IL132 to Stearns School)	2027	\$1,200,000	B-01676
49	Kelsey Road Resurfacing (IL22 to US14)	2027	\$905,650	24-24
52	Lake Avenue Resurfacing (IL173 to WI State Line)	2027	\$1,080,918	24-25
53	Lake County Fuel Island Replacement	2024	\$1,490,000	23-23
54	LCDOT Multi-Use Maintenance Building		\$15,093,382	B-01709
57	Lewis Avenue Reconstruction and Road Diet	2027	\$17,409,409	B-01452b
58	Midlothian Road Resurfacing (IL137 to Winchester Road)	2027	\$2,105,733	24-26
60	North Avenue at WCL RR (Emergency Repair)	2023	\$15,855	23-63
61	O'Plaine Road Resurfacing (IL120 to IL137)	2029	\$4,591,032	23-31
63	Old McHenry Road Resurfacing (Quentin to Cuba)	2025	\$4,828,478	B-01673
68	Permanent Snow Fence Pilot Program	2025	\$20,000	B-01363
70	Pulaski Drive Bridge Deck over US41	2025	\$1,000,000	B-01577b
71	Pulaski Drive Resurfacing (IL43 to IL131)	2026	\$2,284,098	B-01577
72	Quentin Road Resurfacing (Lake-Cook Rd to US12)	2027	\$1,342,199	24-27
75	Riverwoods Resurfacing (IL60 to IL22)	2028	\$5,041,742	23-30
76	Riverwoods Road 3R (IL22 to Deerfield Rd)	2026	\$14,598,341	B-01494
80	Rollins Road Resurfacing, Culvert and Pedestrian Improvements	2025	\$6,359,746	B-01495
81	Russell Road Resurfacing (Kilbourne to IL131)	2025	\$1,100,000	B-01704
83	Sand Lake Road Wall Repair	2024	\$100,000	22-05
85	St. Mary's Road Resurfacing (IL137 to IL176)	2029	\$5,830,731	23-32
87	Stearns School Road Resurfacing (US45 to Hutchins)	2027	\$1,322,662	B-01496
89	Wadsworth Road at Kilbourne Road Intersection Improvement and Resurfacing	2023	\$1,977,734	B-01576
94	Wilson Road Resurfacing (IL134 to Nippersink)	2025	\$1,640,000	B-01641
96	Winchester Road Resurfacing (IL83 to IL21) and Culvert Replacement at Culvert 982	2023	\$1,444,377	B-01573a

Note: Project Cost shown reflects cost in 2024 - 2029 years only. Detailed funding information for all projects is available in ProjectTracker.

# What's New in Preservation?

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- **Vehicles, Equipment, Buildings and Grounds (annual funding)**
- **Bridge Rehabilitation/Replacement**
  - **Dilley's Road Bridge at Mill Creek**
  - **Pulaski Drive Bridge at US 41 (Deck Rehabilitation)**
  - **Various Pedestrian Bridge Decks**
- **Center and edge line Rumble Strips**
- **Culvert Linings (Miller Road and Deerfield Road)**
- **Culvert Replacements (Skokie Valley Bike Path - 5 locations)**

# What's Annual in Preservation?

- Annual Work at Various Locations:
  - Bridge inspections/repairs
  - Crack sealing
  - Pavement patching
  - Pavement rejuvenator
  - Pavement markers
  - Pavement markings
  - Drainage system cleaning
  - Culvert repair or replacement
  - Retaining wall repair or replacement
  - Roadway signs
  - Curb and gutter repair or replacement
  - Rumble strips
  - Sidewalk and ADA curb ramps
  - Guardrail repair or replacement
  - Township road district projects



# Project Highlight: Maintenance and Fleet Service Facility

- **Next Step: Feasibility and Space Study**
- **Goals:**
  - **Modern design that meets current and future (50+ years) needs**
  - **Energy and operationally efficient**
  - **Consolidate existing 1950s-70s spaces: truck storage, light duty, parts, snow command, and sign shop**
  - **Loading dock for Libertyville campus**
  - **Flexible meeting spaces for large staff groups**



# Metal Culvert Replacement Program

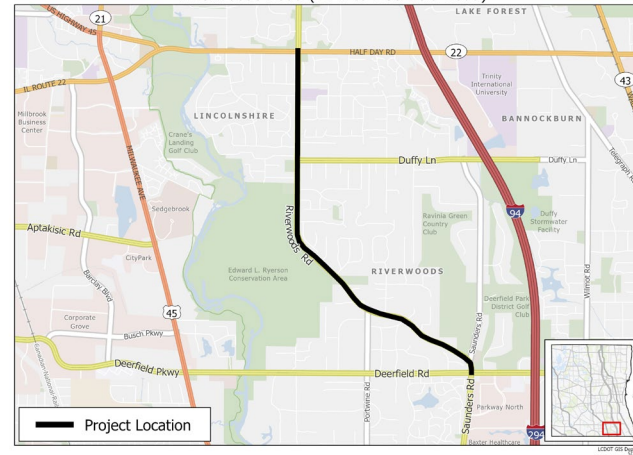
- Started in 2017
- Includes metal culverts 36" or greater
- 34 culverts have been upgraded
- 6 culverts remaining (programmed)
  - Darrell Road (60")
  - Deerfield Parkway (66"x132")
  - Fairfield Road (96"x162")
  - Grass Lake Road (79"x117")
  - River Road (144")
  - Rollins Road (96")



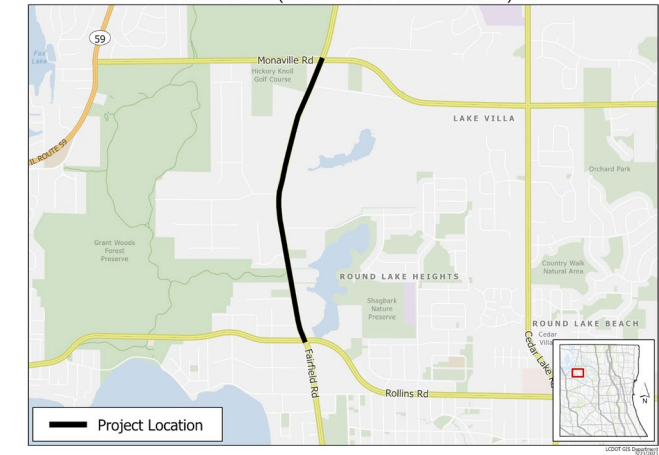
# Project Highlight: Riverwoods Rd, Duffy Ln, Fairfield Rd

- 3R Resurfacing Projects
- Expanded Scope
  - Enhance Safety
  - Improve Drainage
  - Fill Non-Motorized Gaps
- Typically avoid right-of-way acquisition
- 2-3 years for design, coordination and permitting

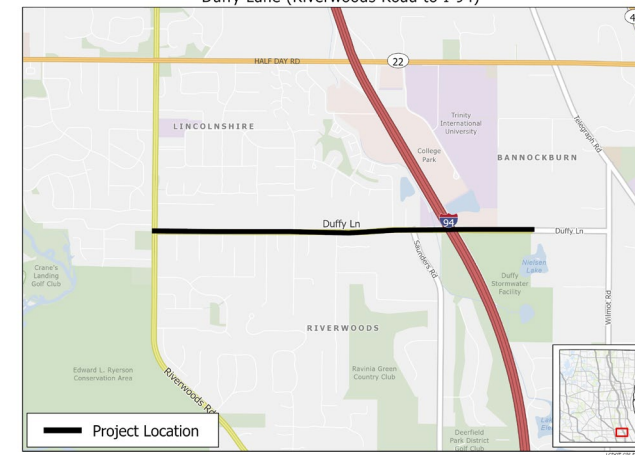
Location Map  
Riverwoods Road (IL22 to Deerfield Road)



Location Map  
Fairfield Road (Rollins Road to Monville Road)



Location Map  
Duffy Lane (Riverwoods Road to I-94)



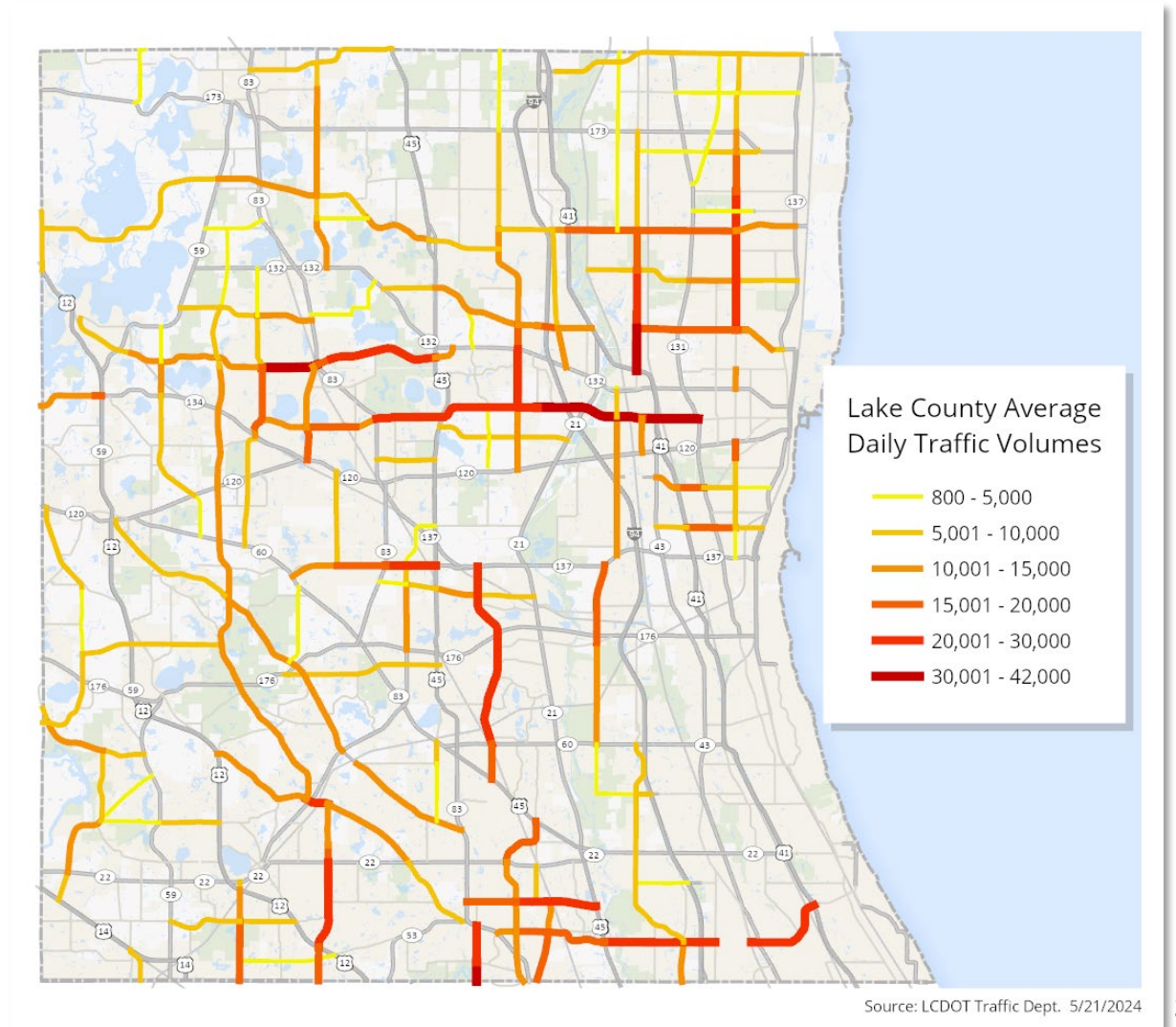
# Priority Two: Modernization

- **Project selection tools:**
  - Traffic and safety analysis
  - Level of Service (LOS) data
  - PASSAGE data
  - 2040 bike and pedestrian priorities
  - Non-motorized policy
  - Bike/Pedestrian gap analysis
  - Shared-use path usage data
- **Typical projects include:**
  - Intersection and safety improvements
  - Bike and pedestrian accommodations
  - Signal timing and interconnects



# Traffic Volumes

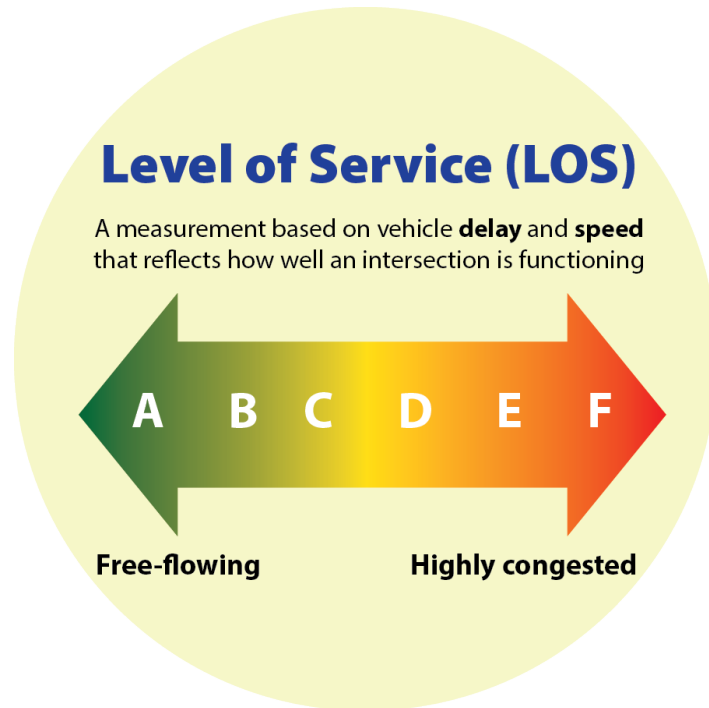
- County highway network of 300 center line miles
- Carries average of 3.5 million daily vehicle miles





# Level of Service Data

- County involved, signalized intersections and roundabouts



- LCDOT uses *Synchro* traffic analysis software to evaluate intersection operations and performance

## • Roundabouts (5 locations evaluated, 9 total)

	Level of Service	AM Peak Hour	PM Peak Hour
(best)	A	2	1
	B	3	2
	C	0	2
	D	0	0
	E	0	0
(worst)	F	0	0

Source: LCDOT Traffic Department 3/2020 (Latest available data)

## • Signalized intersections (314 total)

	Level of Service	AM Peak Hour	PM Peak Hour
(best)	A	99	68
	B	87	82
	C	86	102
	D	31	32
	E	7	14
(worst)	F	4	16

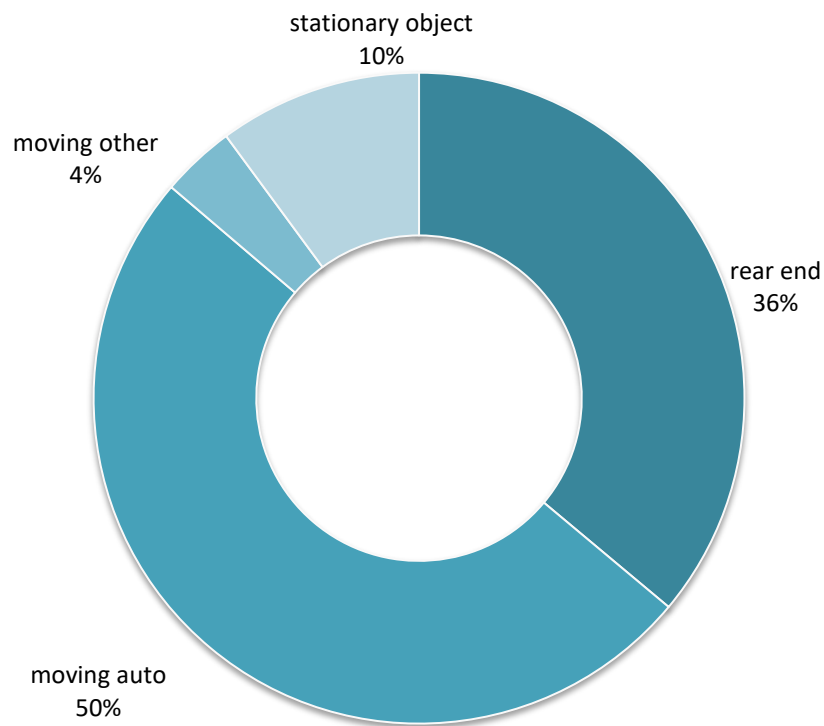
Source: LCDOT Traffic Department 4/2024 (Latest available data)

# Crash Data

## 2022 Summary (most current)

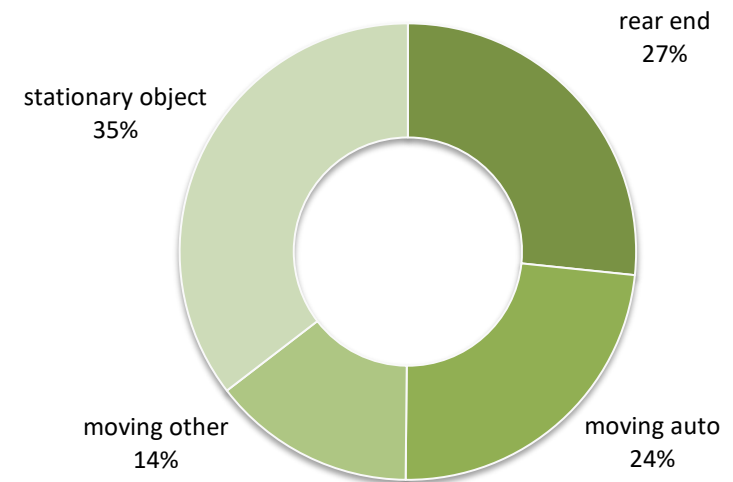
### Crashes at intersections

Total: 3159 (91%)



### Crashes on roadway sections

Total: 319 (9%)



Data Source: LCDOT Traffic Department, 5/2024  
IDOT 2022 crash data (most recent available)

# Crash Data

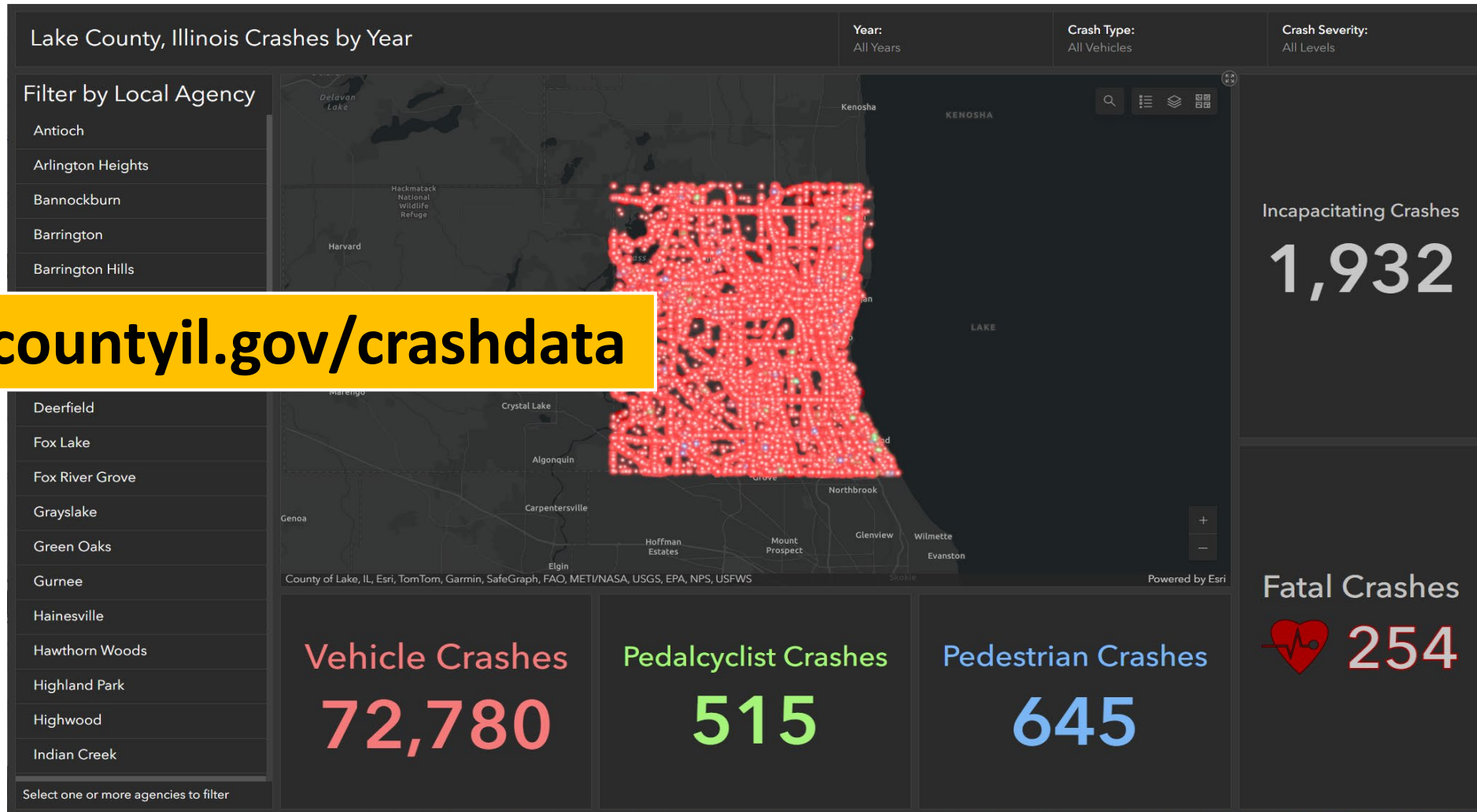
## Historical Averages



5-year averages	2009-2013	2010-2014	2011-2015	2012-2016	2013-2017	2014-2018	2015-2019	2016-2020	2017-2021	2018-2022
Number of crashes	3485	3530	3671	3896	4182	4381	4465	4247	3996	3720
Fatality	7	8	7	8	10	13	14	16	15	16
Crash with injury	974	978	1003	1116	1265	1385	1395	1406	1366	1301
Property damage only	2504	2544	2660	2743	2836	2874	2909	2749	2653	2574

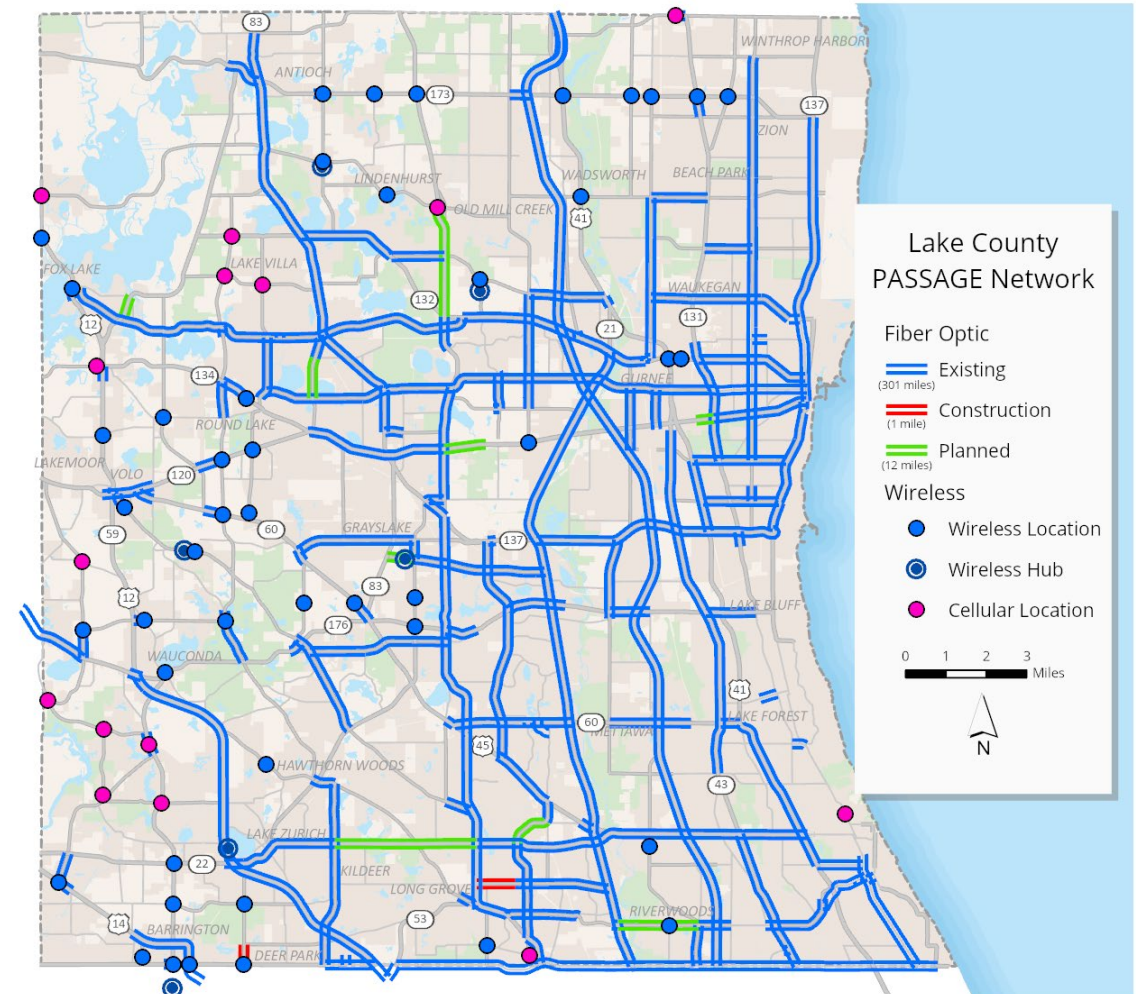
*Data Source: LCDOT Traffic Department, 5/2024  
IDOT 2022 crash data (most recent available)*

# Crash Data Dashboard Information (2017-2022)



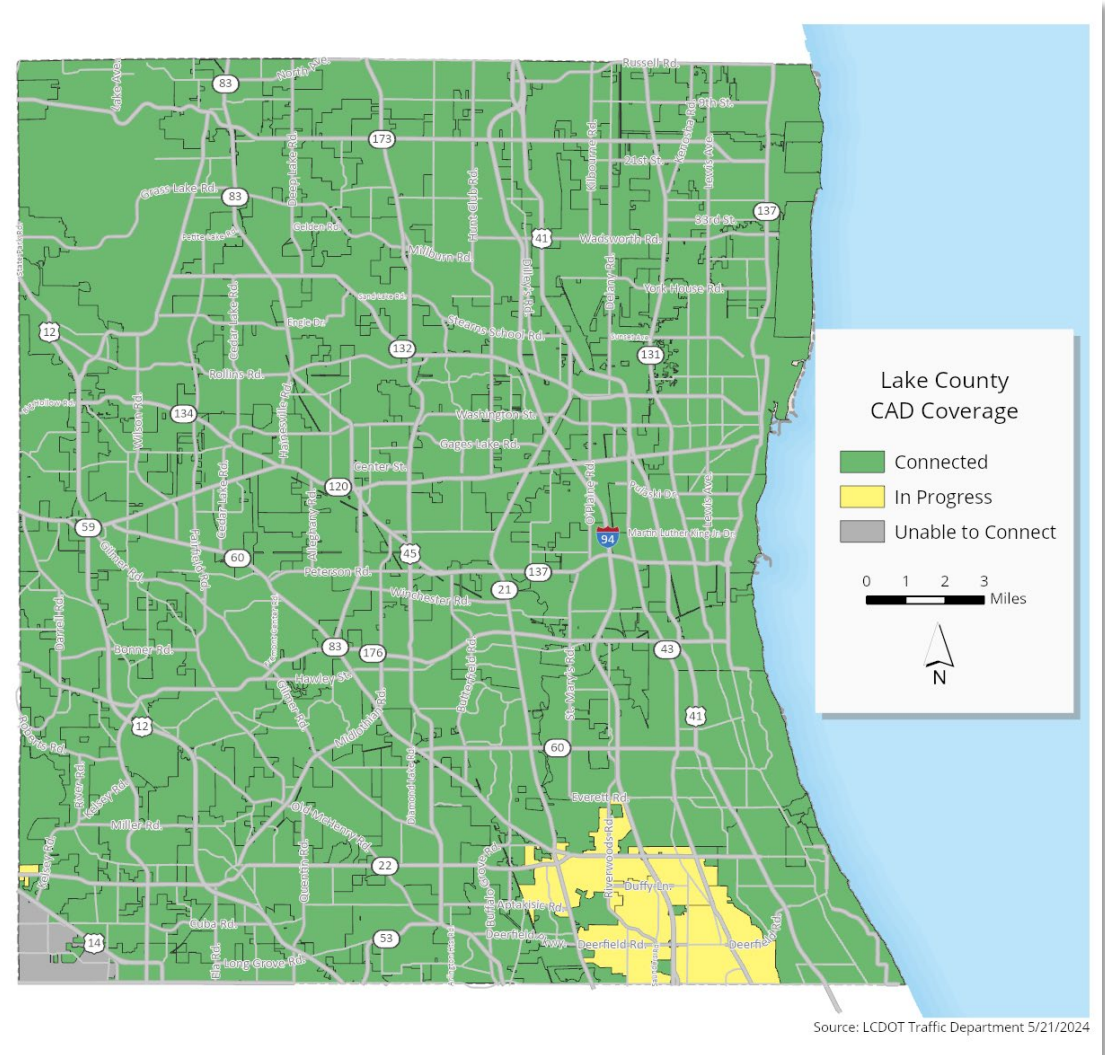
# Lake County's Traffic Signal and Communication Network

- 301 miles of fiber optic in place
- 11 miles planned
- 670 traffic signals connected
- 456 PTZ Cameras
- 1 portable PTZ (cell)
- 9 portable changeable message board signs

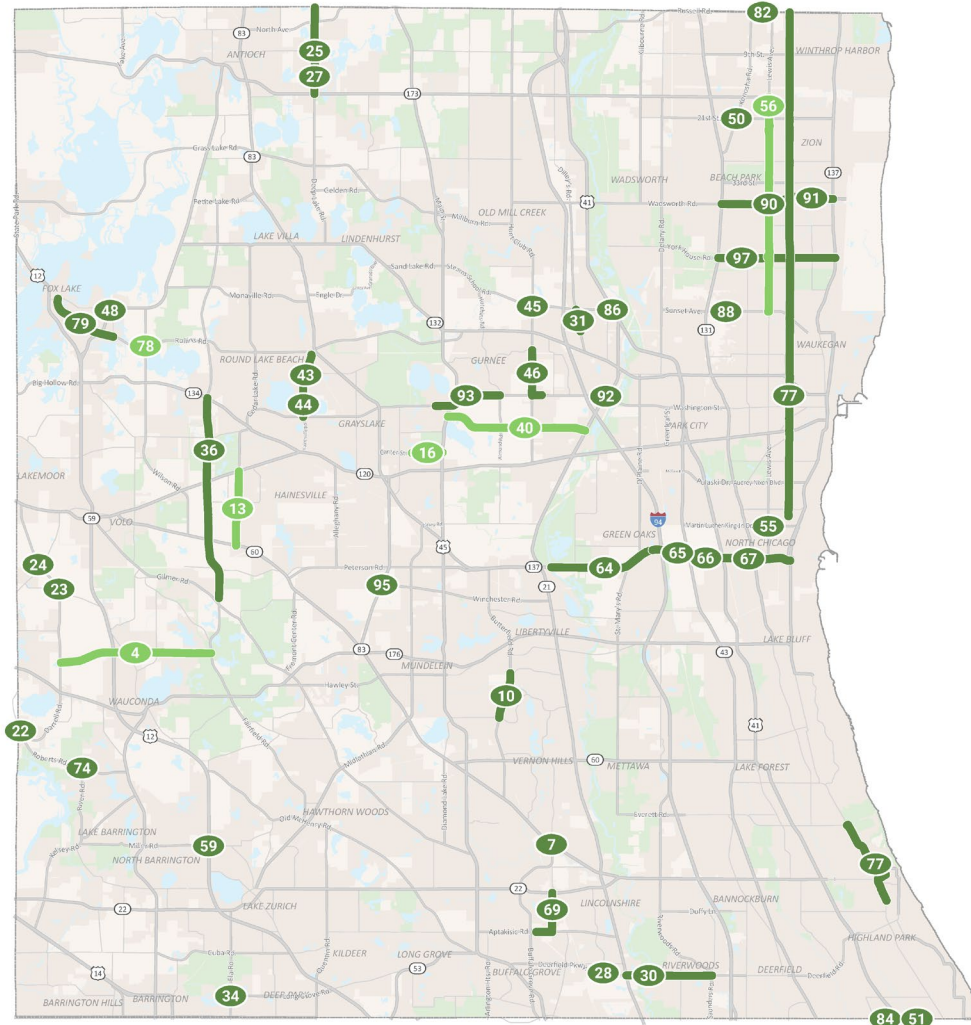




# Computer Aided Dispatch (CAD) Partnerships

- **11 of 12 dispatch centers (via Central Square) connected with Lake County *PASSAGE***
- **Two-way data sharing:**
  - **Video (LCDOT provides)**
  - **Incident data (dispatch centers provide)**
  - **Combined real-time data shared with public via *PASSAGE***



# Modernization | 2024 - 2029



-  Fully Programmed
-  Partially Programmed



# Modernization Projects



Modernization Projects				
Map ID	Title	Program Year	Total Cost	ProjectTracker ID
4	Bonner Road Improvements	Post-2029	\$5,728,421	24-32
7	Buffalo Grove Road at US45 Intersection Improvement	2029	\$18,950,000	23-46
10	Butterfield Road Bike Path (Greggs Parkway to Golf)	2024	\$2,569,008	B-01617b
13	Cedar Lake Road Improvements (IL120 to IL60)	Post-2029	\$5,500,000	24-23
16	Center Street at Atkinson Road Intersection Improvement and New Bike Path	Post-2029	\$3,750,000	24-33
22	Darrell Road at Roberts Road Intersection Improvement	2026	\$3,965,782	B-01703
23	Darrell Road Roundabout at Case Rd/ Neville Road	2023	\$1,966,474	B-00141a
24	Darrell Road Roundabouts at Fisher Road and at Dowell Road	2024	\$10,740,000	B-00141b
25	Deep Lake Rd at Depot Street Roundabout	2024	\$4,145,204	B-01547b
27	Deep Lake Road at North Roundabout and Resurfacing IL173 to WI Line	2027	\$10,158,501	B-01547
28	Deerfield Parkway at Barclay Boulevard New Traffic Signal	2025	\$772,866	22-03
30	Deerfield Road Improvement (IL21/US45 to Saunders)	2024	\$39,703,788	B-01266a
31	Dilley's Road Bike Path (Gurnee Project)	2023	\$693,965	23-34
34	Ela Road at Long Grove Road Intersection Improvement	2022	\$3,108,126	B-01120
36	Fairfield Road Corridor PEL Study (IL134 to Gilmer Road)	2022	\$4,715,909	B-01667
40	Gages Lake Road Improvements	Post-2029	\$4,950,000	24-30
43	Hainesville Road Advanced Drainage Improvements	2024	\$3,024,017	B-01482b
44	Hainesville Road Improvement (Washington to Rollins)	2025	\$19,767,723	B-01482
45	Hunt Club Road at Stearns School Road Intersection Improvement	2029	\$13,966,014	B-01707
46	Hunt Club Road at Washington Street Intersection Improvement	2024	\$17,621,259	B-01437
48	IL59 at Grand Avenue Intersection Improvement	2023	\$12,927,646	B-00738
50	Kenosha Road at 21st Street Roundabout	2025	\$5,786,724	B-01548
51	Lake-Cook Road Bike Path (Skokie Valley Bike Path to Chicago Botanic Garden)	2028	\$6,362,090	B-01616
55	Lewis Avenue Building Demolition	2024	\$231,900	B-01452c
56	Lewis Avenue North Reconstruction and Safety Improvement (PEL Study)	Post-2029	\$2,750,000	23-44
59	Miller Road at US12 Intersection Improvement	2023	\$2,886,982	B-01263
64	Patriot Path (Segment 1)	2026	\$10,090,000	B-01181a
65	Patriot Path (Segment 2)	2028	\$8,306,400	B-01181b
66	Patriot Path (Segment 3)	2028	\$1,289,100	B-01181c
67	Patriot Path (Segment 4)	2027	\$6,800,800	B-01181d
69	Prairie Road Improvement (IL22 to Aptakisic)	2025	\$5,520,000	B-01500
74	River Road @ Roberts Road Roundabout Modernization	2026	\$750,000	24-28
77	Robert McClory Bike Path Enhancements	2025	\$9,213,639	B-01702
78	Rollins Road at Wilson Road Intersection Improvement	Post-2029	\$3,750,000	24-31
79	Rollins Road Improvement (Grand to Washington)	2026	\$21,064,136	B-01705
82	Russell Road Roundabouts (Kenosha and Lewis)	2025	\$8,981,000	B-01445b
84	Skokie Valley Bike Trail Extension (Cook County Project)	2025	\$1,398,800	B-01150
86	Stearns School Road at US41	2024	\$4,098,714	B-01361
88	Sunset Ave at Northern Ave New Traffic Signal	2025	\$500,000	B-01701
90	Wadsworth Road at Lewis Avenue Intersection Improvement	2024	\$4,403,983	B-01119
91	Wadsworth Road Improvement (IL131 to Sheridan)	2027	\$30,066,525	B-01402a
92	Washington Street at IL21 Intersection Improvement	2025	\$6,406,117	B-01700
93	Washington Street Bike Path (Sextant Court to Almond Road)	2024	\$4,503,574	B-01419a
95	Winchester Road at IL83 Intersection Improvement	2024	\$3,856,821	B-01365
97	York House Road Improvement (IL131 to Sheridan)	2028	\$18,115,912	B-01509

Note: Project Cost shown reflects cost in 2024 - 2029 years only. Detailed funding information for all projects is available in ProjectTracker.



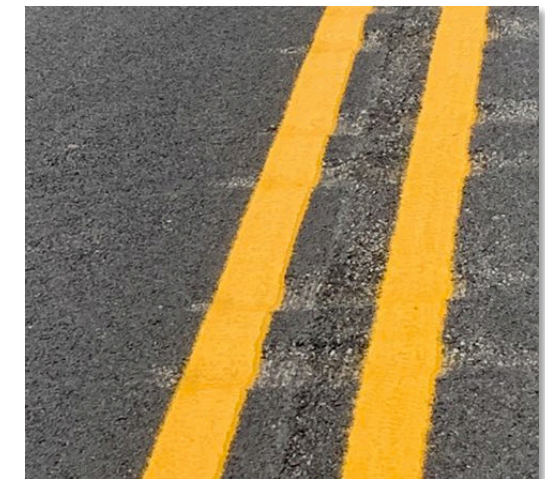
# What's New in Modernization?

---

- **Corridor Improvement Projects:**
  - Bonner Road (Darrell Road to Fairfield Road)
  - Gages Lake Road (US45 to IL21)
  - Cedar Lake Road (IL120 to IL60)
- **Intersection Improvement Projects:**
  - Rollins Road at Wilson Road
  - Center Street at Atkinson Street
  - River Road at Roberts Road (roundabout modification)
  - Hunt Club Road at Stearns School Road (construction funding)
- **Non-Motorized Feasibility Study**
  - Remaining Gaps
  - Fairfield Rd shared-use path

# Project Highlight: Safety Projects

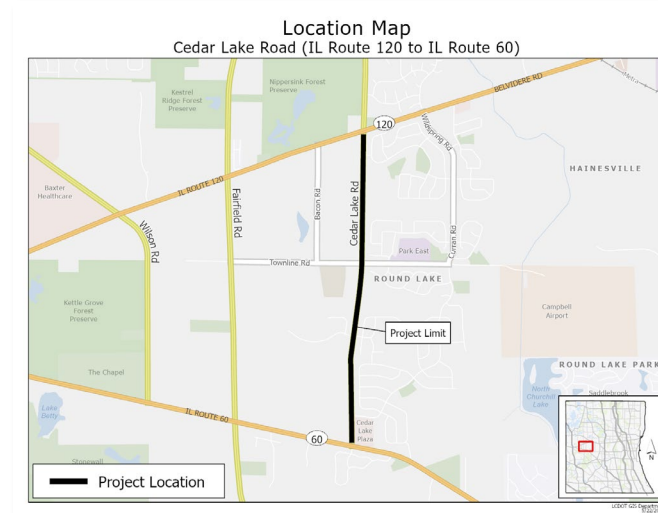
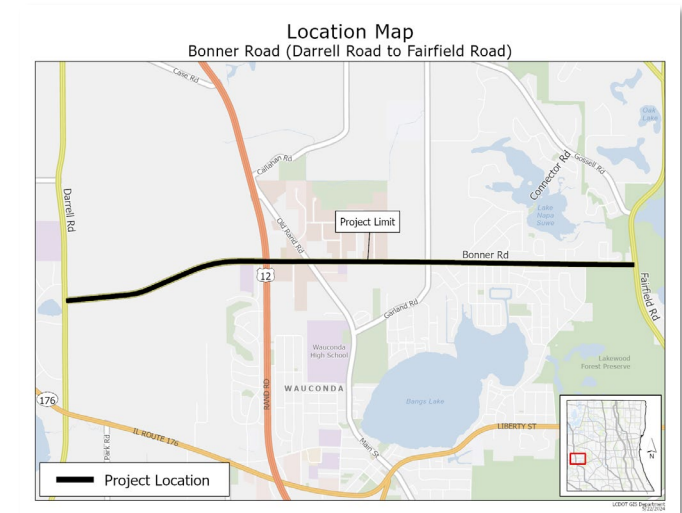
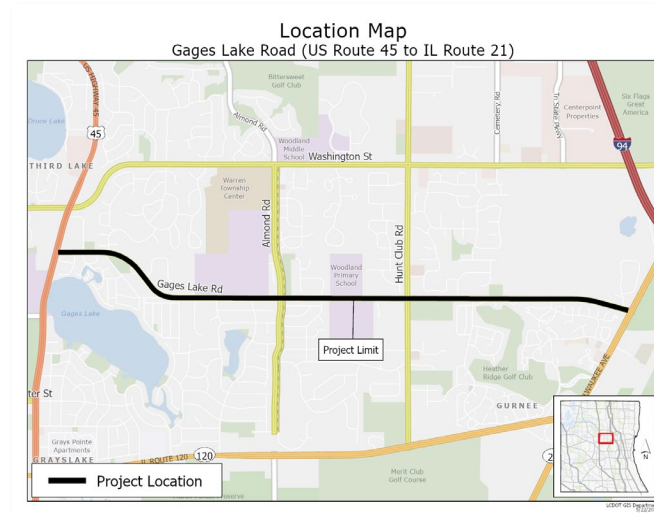
- **Rumble Strips**
  - Reduce run-off-road and head-on crashes
  - Installed along two-lane county highways with posted speed limits of 40 mph and over
- **Accessible Pedestrian Signals**
  - Audible communication of WALK and DON'T WALK intervals
  - Installed at signalized crosswalk locations



The **Safe System Approach** is USDOT's National Roadway Safety Strategy working towards a future with zero fatalities and serious injuries for all users.

# Project Highlight: Gages Lake Rd, Bonner Rd & Cedar Lake Rd

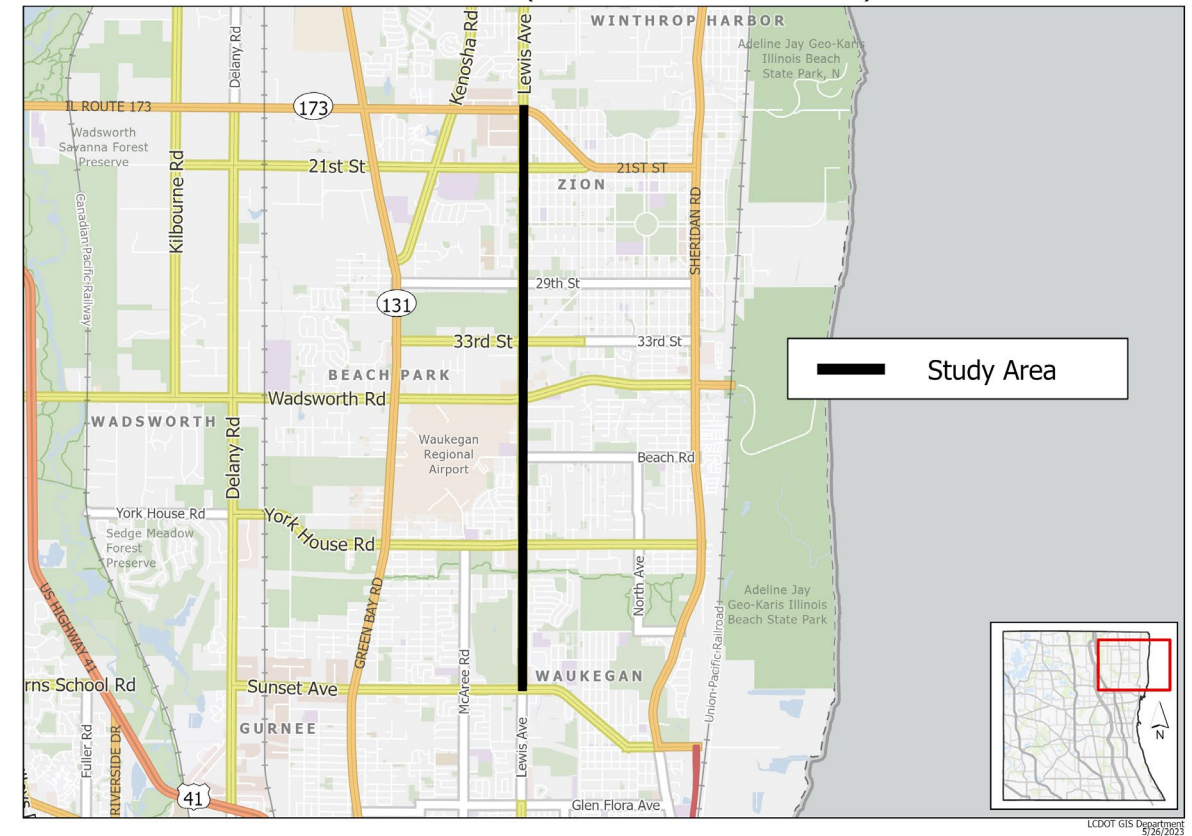
- **Corridor Modernization Improvements:**
  - Enhance safety
  - Intersection improvements
  - Possible center turn lanes
  - Add/Improve non-motorized facilities



# Project Highlight: Lewis Ave: Sunset Ave to IL 173

- Initial engineering study to investigate crashes and potential range of alternatives
- 5-mile corridor with over 20,000 vehicles per day
- 1029 crashes (353 injury crashes) over 5-year study period
- Plan to submit future *Safe Streets for All* implementation grant (federal funds)

Location Map  
Lewis Avenue (Sunset Avenue to IL-173)



# Project Highlight: Roundabouts

## Potential New Locations

1. Center Street at Atkinson Road\*
2. Darrell Road at Dowell Road
3. Darrell Road at Fisher Road
4. Darrell Road at Roberts Road\*
5. Deep Lake at Depot Street
6. Deep Lake Road at North Avenue
7. Hunt Club Road at Stearns School Road\*
8. Kenosha Road at 21st Street
9. River Road at Roberts Road\*\*
10. Rollins Road at Wilson Road\*
11. Russell Road at Kenosha Road
12. Russell Road at Lewis Avenue

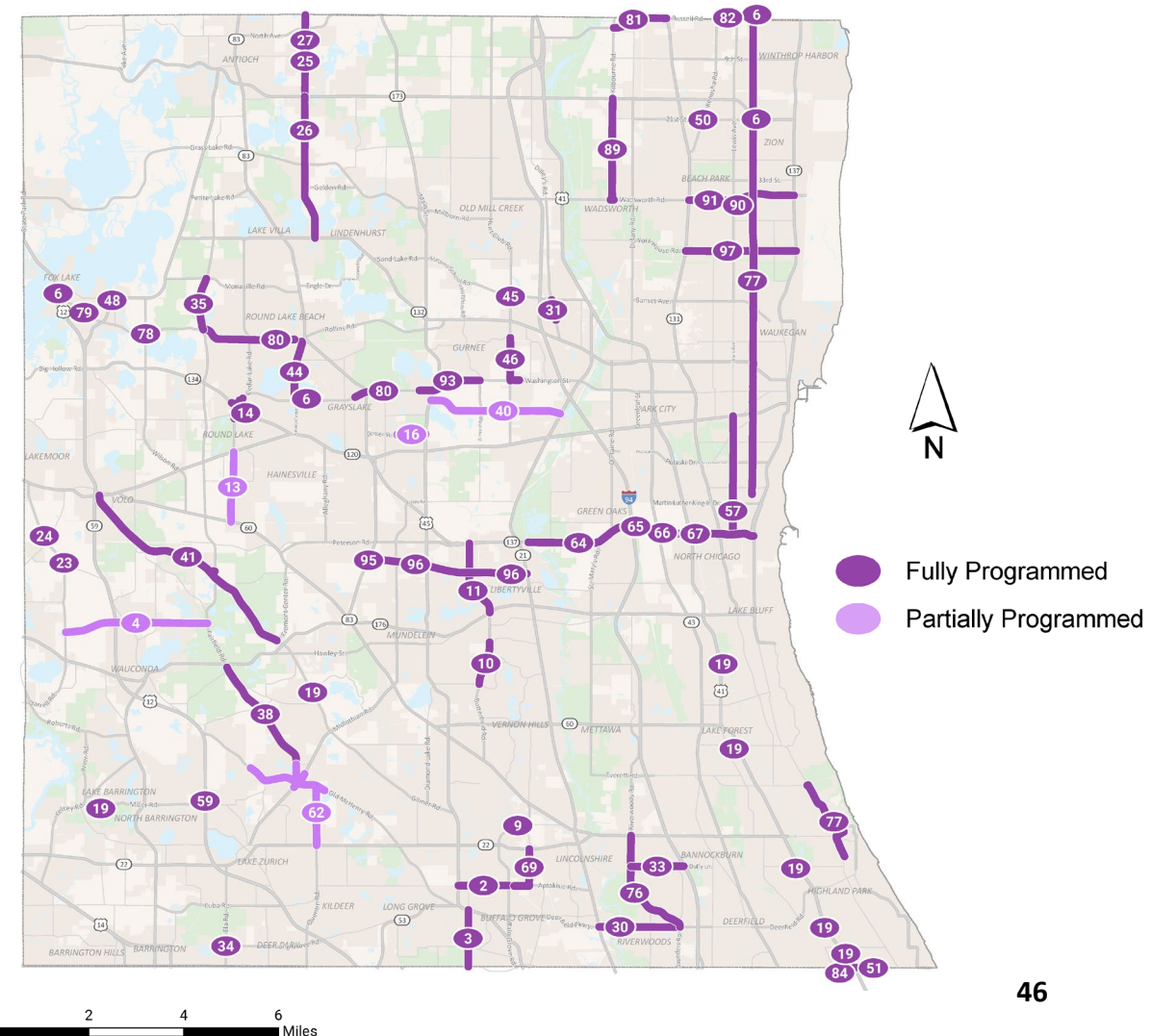
*\*Under evaluation \*\*Modification of existing RAB*



# Non-motorized Projects | 2024-2029

## \$110 Million Investment 13% of total program

- Paved shoulder:
  - 8.7 miles improved
  - 19.3 miles new
- Shared-use path:
  - 16.3 miles improved
  - 41.3 miles new
- Sidewalk:
  - 2.9 miles improved
  - 24.3 miles new



# Non-motorized projects

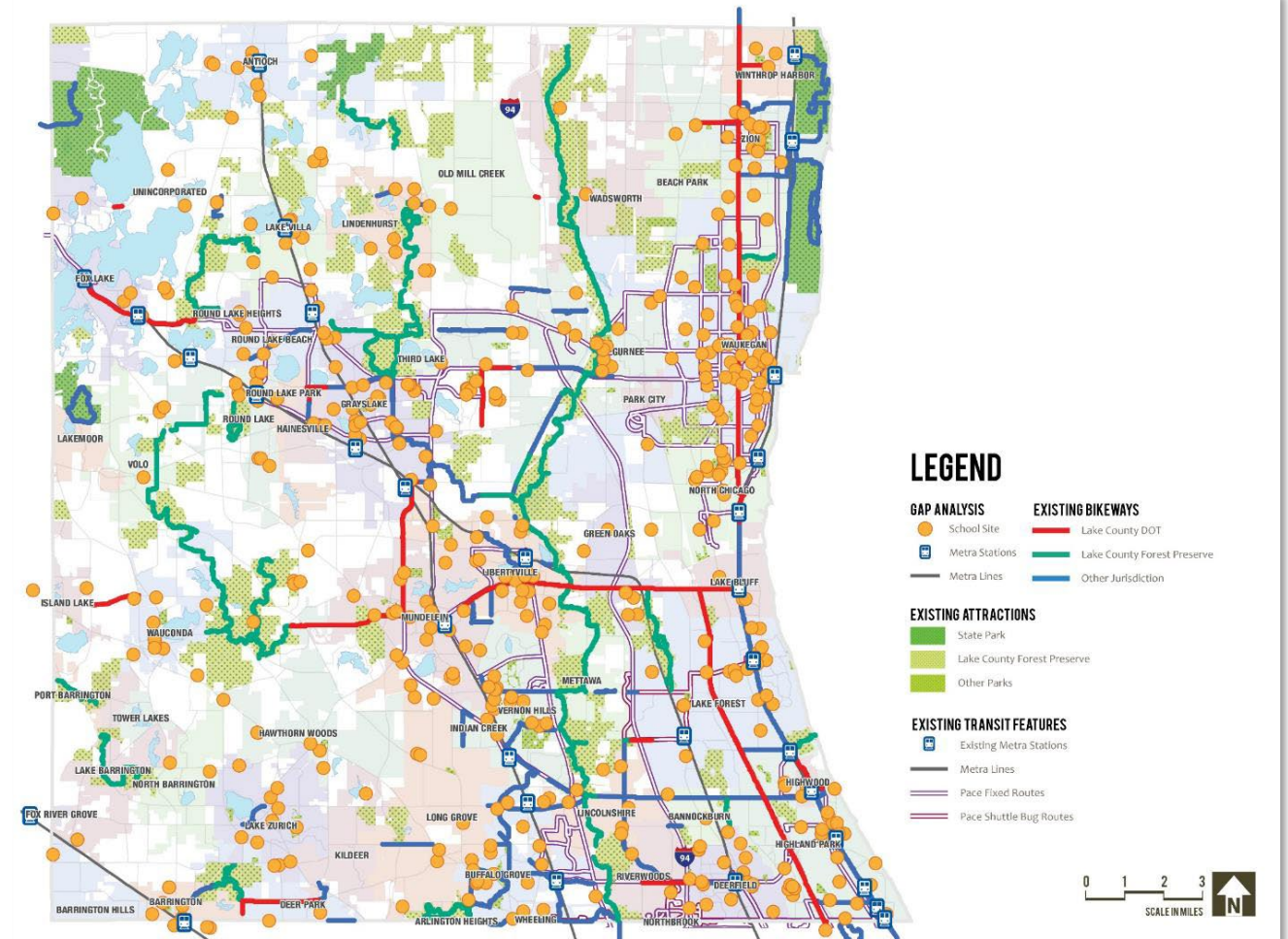


Non-Motorized Accommodations Projects					
Map ID	Title	Program Year	Total Cost	ID	NonMotorizedImprovements
2	Aptakistic Road Improvement (IL83 to Buffalo Grove Rd)	2023	\$8,110,372	B-00739a	Bike Path, Paved Shoulder, Sidewalk
3	Arlington Heights Road Reconstruction	2024	\$18,226,203	B-01182	Paved Shoulder, Sidewalk
4	Bonner Road Improvements	Post-2029	\$5,728,421	24-32	Bike Path, Paved Shoulder
6	Bridge Repairs 2024-Pedestrian Bridge Decks	2024	\$300,000	23-42	Bike Path
9	Buffalo Grove Road Widening (IL22 to US45)	2029	\$20,493,151	B-01358	Bike Path, Paved Shoulder, Sidewalk
10	Butterfield Road Bike Path (Greggs Parkway to Golf)	2024	\$2,569,008	B-01617b	Bike Path
11	Butterfield Road Resurfacing (IL137 to IL176)	2024	\$2,959,000	B-01636a	Paved Shoulder, Sidewalk
13	Cedar Lake Road Improvements (IL120 to IL60)	Post-2029	\$5,500,000	24-23	Bike Path, Paved Shoulder
14	Cedar Lake Road Reliignment	2025	\$50,620,293	B-00752	Bike Path, Paved Shoulder, Sidewalk
16	Center Street at Atkinson Road Intersection Improvement and New Bike Path	Post-2029	\$3,750,000	24-33	Bike Path, Paved Shoulder
19	Culvert Replacement 2024 (Skokie Valley Bike Path, Miller Road and Gilmer Road)	2025	\$1,307,949	B-01517	Bike Path
23	Darrell Road Roundabout at Case Rd/ Neville Road	2023	\$1,966,474	B-00141a	Bike Path, Paved Shoulder
24	Darrell Road Roundabouts at Fisher Road and at Dowell Road	2024	\$10,740,000	B-00141b	Bike Path, Paved Shoulder
25	Deep Lake Rd at Depot Street Roundabout	2024	\$4,145,204	B-01547b	Bike Path, Paved Shoulder
26	Deep Lake Road 3R and Resurfacing (IL132 to IL173)	2024	\$8,592,944	B-00913a	Paved Shoulder
27	Deep Lake Road at North Roundabout and Resurfacing IL173 to WI Line	2027	\$10,158,501	B-01547	Bike Path, Paved Shoulder
30	Deerfield Road Improvement (IL21/US45 to Saunders)	2024	\$39,703,788	B-01266a	Bike Path, Paved Shoulder, Sidewalk
31	Dilley's Road Bike Path (Gurnee Project)	2023	\$693,965	23-34	Bike Path
33	Duffy Lane 3R	2028	\$5,626,500	23-36	Bike Path, Paved Shoulder
34	Ela Road at Long Grove Road Intersection Improvement	2022	\$3,108,126	B-01120	Bike Path
35	Fairfield Road 3R (Monaville to Rollins)	2026	\$4,750,000	23-25	Bike Path, Paved Shoulder
38	Fairfield Road Resurfacing (IL176 to Old McHenry)	2024	\$4,880,000	B-01706	Paved Shoulder
40	Gages Lake Road Improvements	Post-2029	\$4,950,000	24-30	Bike Path, Paved Shoulder
41	Gilmer Road Resurfacing (IL120 to IL176)	2024	\$5,669,858	B-01631a	Paved Shoulder
44	Hainesville Road Improvement (Washington to Rollins)	2025	\$19,767,723	B-01482	Bike Path, Paved Shoulder, Sidewalk
45	Hunt Club Road at Stearns School Road Intersection Improvement	2029	\$13,966,014	B-01707	Bike Path, Paved Shoulder
46	Hunt Club Road at Washington Street Intersection Improvement	2024	\$17,621,259	B-01437	Bike Path, Sidewalk
48	IL59 at Grand Avenue Intersection Improvement	2023	\$12,927,646	B-00738	Bike Path, Sidewalk
50	Kenosha Road at 21st Street Roundabout	2025	\$5,786,724	B-01548	Bike Path, Paved Shoulder
51	Lake-Cook Road Bike Path (Skokie Valley Bike Path to Chicago Botanic Garden)	2028	\$6,362,090	B-01616	Bike Path
57	Lewis Avenue Reconstruction and Road Diet	2027	\$17,409,409	B-01452b	Bike Path, Sidewalk
59	Miller Road at US12 Intersection Improvement	2023	\$2,886,982	B-01263	Sidewalk
62	Old McHenry Crossing (Engineering + Section 1 Construction)	Post-2029	\$50,389,068	B-01546	Bike Path, Paved Shoulder, Sidewalk
64	Patriot Path (Segment 1)	2026	\$10,090,000	B-01181a	Bike Path
65	Patriot Path (Segment 2)	2028	\$8,306,400	B-01181b	Bike Path
66	Patriot Path (Segment 3)	2028	\$1,289,100	B-01181c	Bike Path
67	Patriot Path (Segment 4)	2027	\$6,800,800	B-01181d	Bike Path
69	Prairie Road Improvement (IL22 to Aptakistic)	2025	\$5,520,000	B-01500	Bike Path, Paved Shoulder, Sidewalk
76	Riverwoods Road 3R (IL22 to Deerfield Rd)	2026	\$14,598,341	B-01494	Bike Path, Paved Shoulder, Sidewalk
77	Robert McClory Bike Path Enhancements	2025	\$9,213,639	B-01702	Bike Path
78	Rollins Road at Wilson Road Intersection Improvement	Post-2029	\$3,750,000	24-31	Bike Path, Paved Shoulder
79	Rollins Road Improvement (Grand to Washington)	2026	\$21,064,136	B-01705	Bike Path, Sidewalk
80	Rollins Road Resurfacing, Culvert and Pedestrian Improvements	2025	\$6,359,746	B-01495	Sidewalk
81	Russell Road Resurfacing (Kilbourne to IL131)	2025	\$1,100,000	B-01704	Paved Shoulder
82	Russell Road Roundabouts (Kenosha and Lewis)	2025	\$8,981,000	B-01445b	Bike Path, Paved Shoulder
84	Skokie Valley Bike Trail Extension (Cook County Project)	2025	\$1,398,800	B-01150	Bike Path
89	Wadsworth Road at Kilbourne Road Intersection Improvement and Resurfacing	2023	\$1,977,734	B-01576	Sidewalk
90	Wadsworth Road at Lewis Avenue Intersection Improvement	2024	\$4,403,983	B-01119	Bike Path, Sidewalk
91	Wadsworth Road Improvement (IL131 to Sheridan)	2027	\$30,066,525	B-01402a	Bike Path, Paved Shoulder
93	Washington Street Bike Path (Sextant Court to Almond Road)	2024	\$4,503,574	B-01419a	Bike Path, Sidewalk
95	Winchester Road at IL83 Intersection Improvement	2024	\$3,856,821	B-01365	Paved Shoulder
96	Winchester Road Resurfacing (IL83 to IL21) and Culvert Replacement at Culvert 982	2023	\$1,444,377	B-01573a	Bike Path, Sidewalk
97	York House Road Improvement (IL131 to Sheridan)	2028	\$18,115,912	B-01509	Bike Path, Paved Shoulder

Note: Project Cost shown reflects cost in 2024 - 2029 years only. Detailed funding information for all projects is available in ProjectTracker.

# Path and Sidewalk Gap Analysis

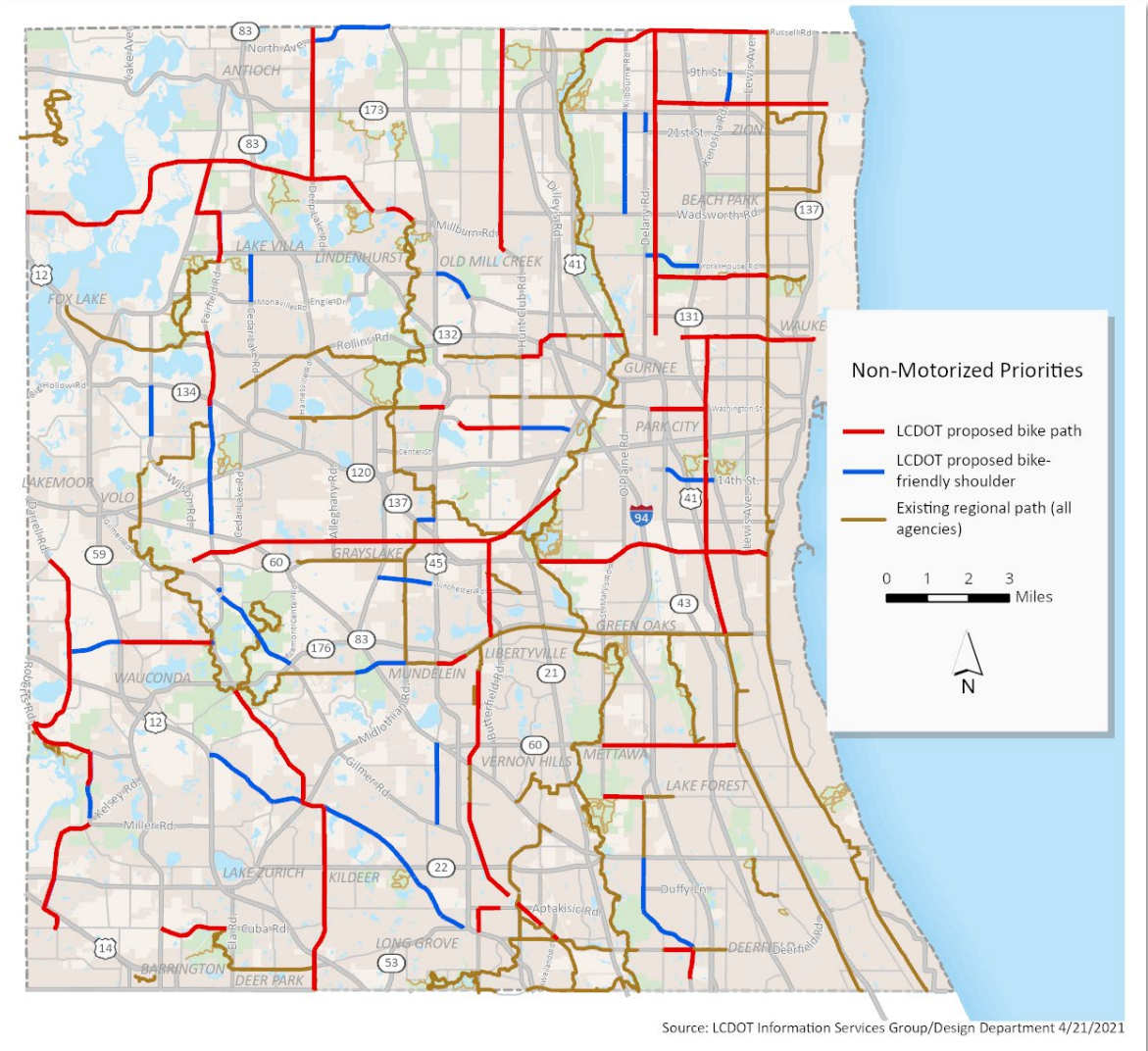
- 2010 study identified 60 priority gaps would provide regional connectivity
- County pays 100% of cost to fill gaps with local sponsor to own and maintain
- To date, 85% have been programmed or completed





# Bike and Pedestrian Priorities

- **Lake County's 2040 Non-motorized plan identifies 310 miles of proposed bike paths**
  - 107 miles under LCDOT jurisdiction
  - 43 miles under LCFPD jurisdiction
  - 160 miles under other jurisdiction, such as State, municipality, or township
- **Advance as stand-alone projects or combined with adjacent roadway project work**

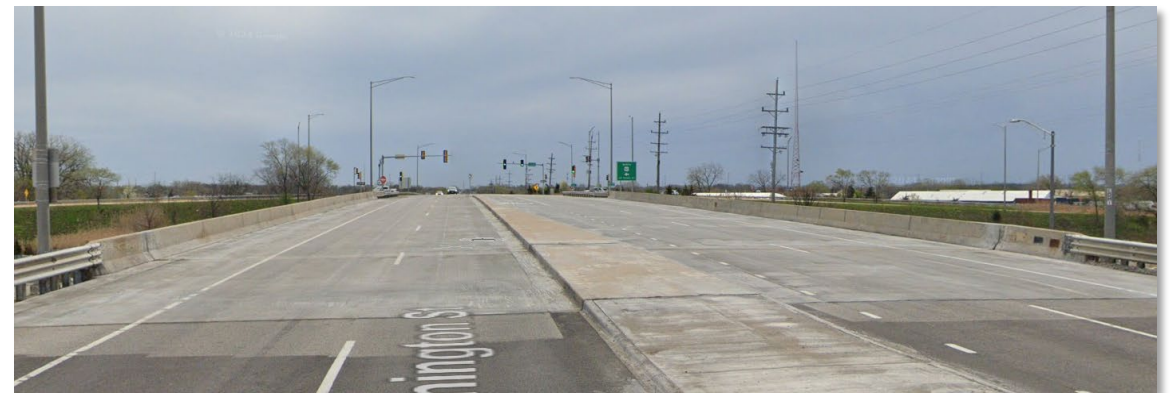


# Non-motorized Feasibility Study

- Study remaining 10 (15%)  
Priority Gaps from 2010 Gap Analysis
  - Evaluate impacts, costs, and constructability
  - Coordination with local municipalities.
  - Phase I/II engineering to follow completion of feasibility study



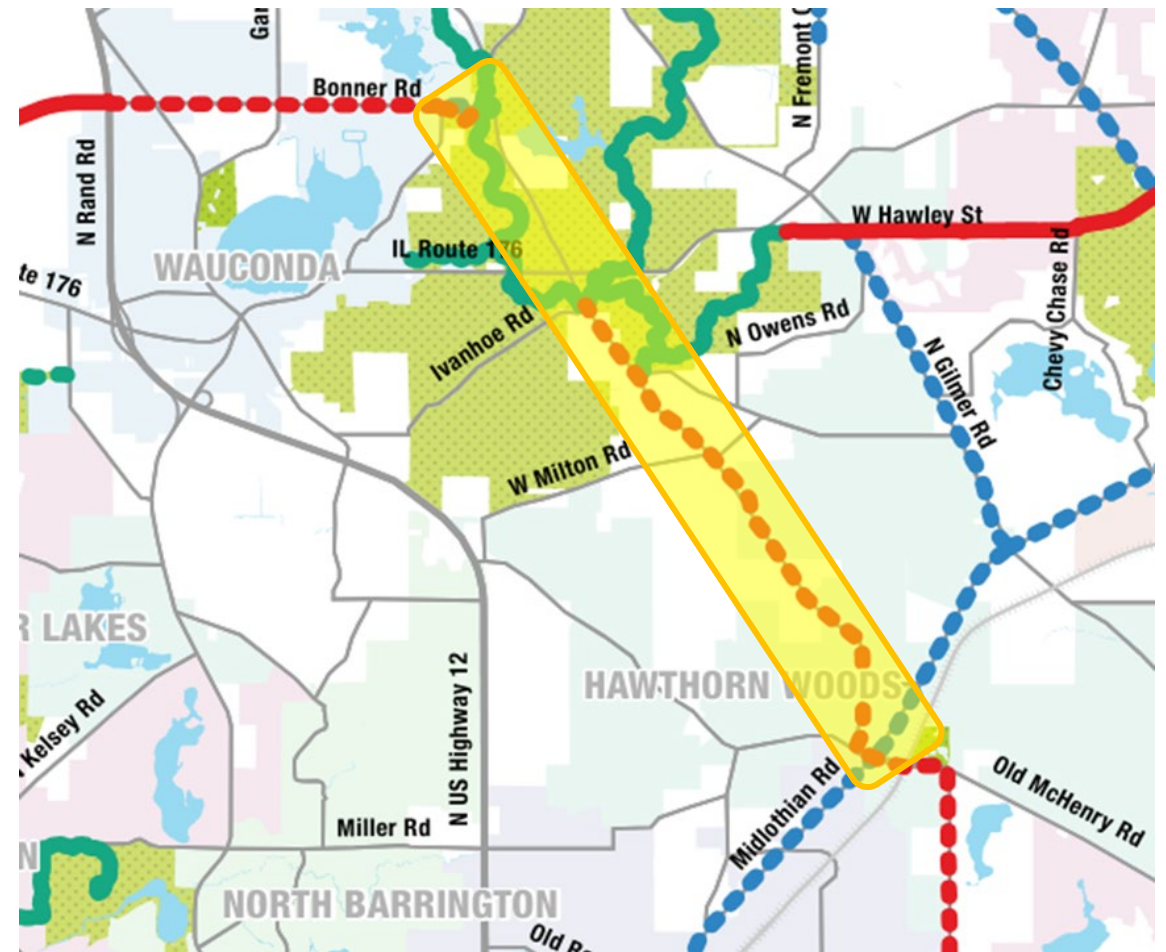
*Washington St Gap – Buckingham Dr to Greenleaf St*



*Washington St Gap – US41 to IL131*

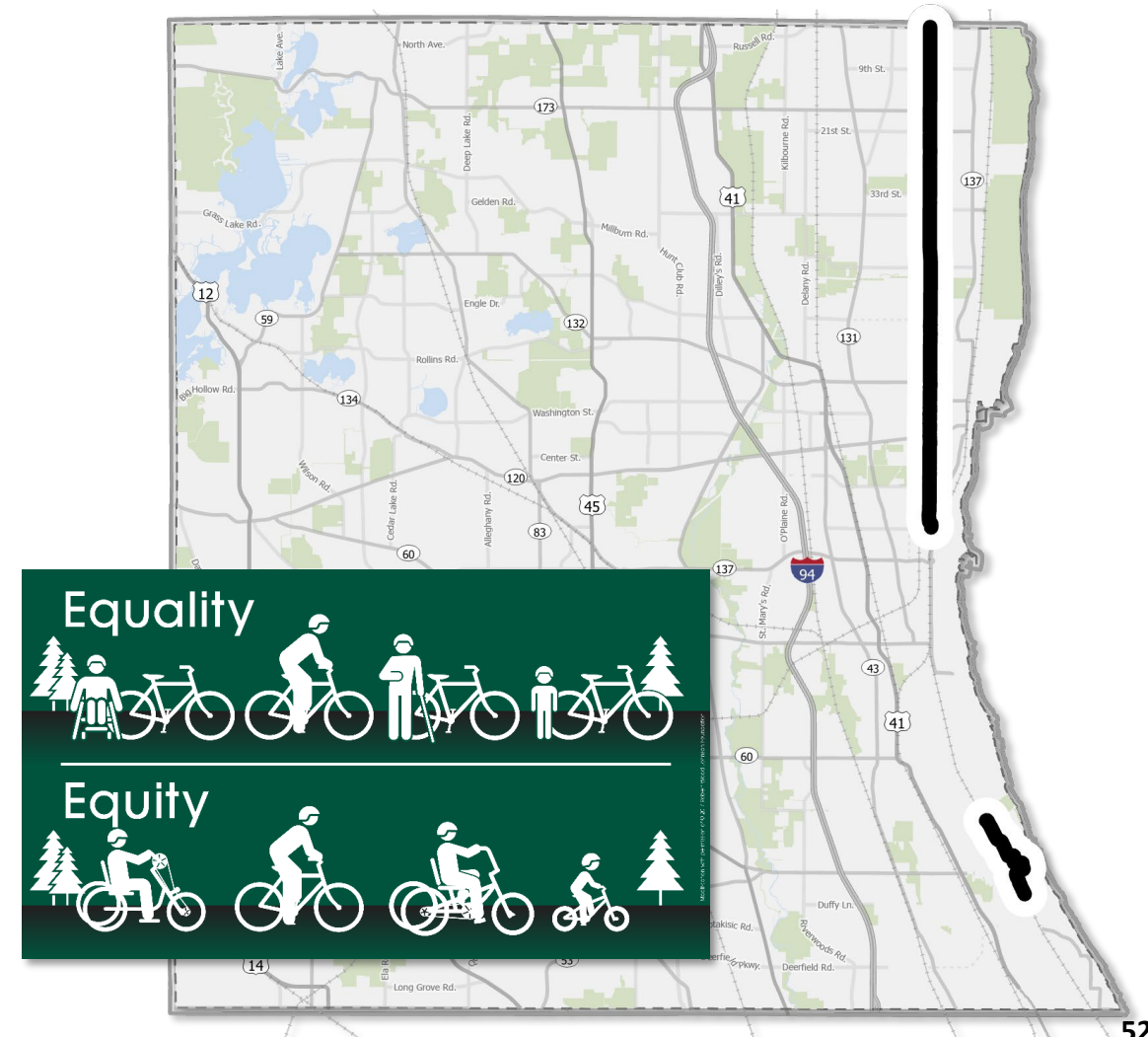
# Project Highlight: Non-motorized Feasibility Study

- **Fairfield Rd (Old McHenry Rd to Bonner Rd)**
  - Included in 2040 Non-Motorized Plan
  - Connects adjacent projects with planned shared-use paths
    - Bonner Rd Corridor to the north
    - Old McHenry Crossings project to south



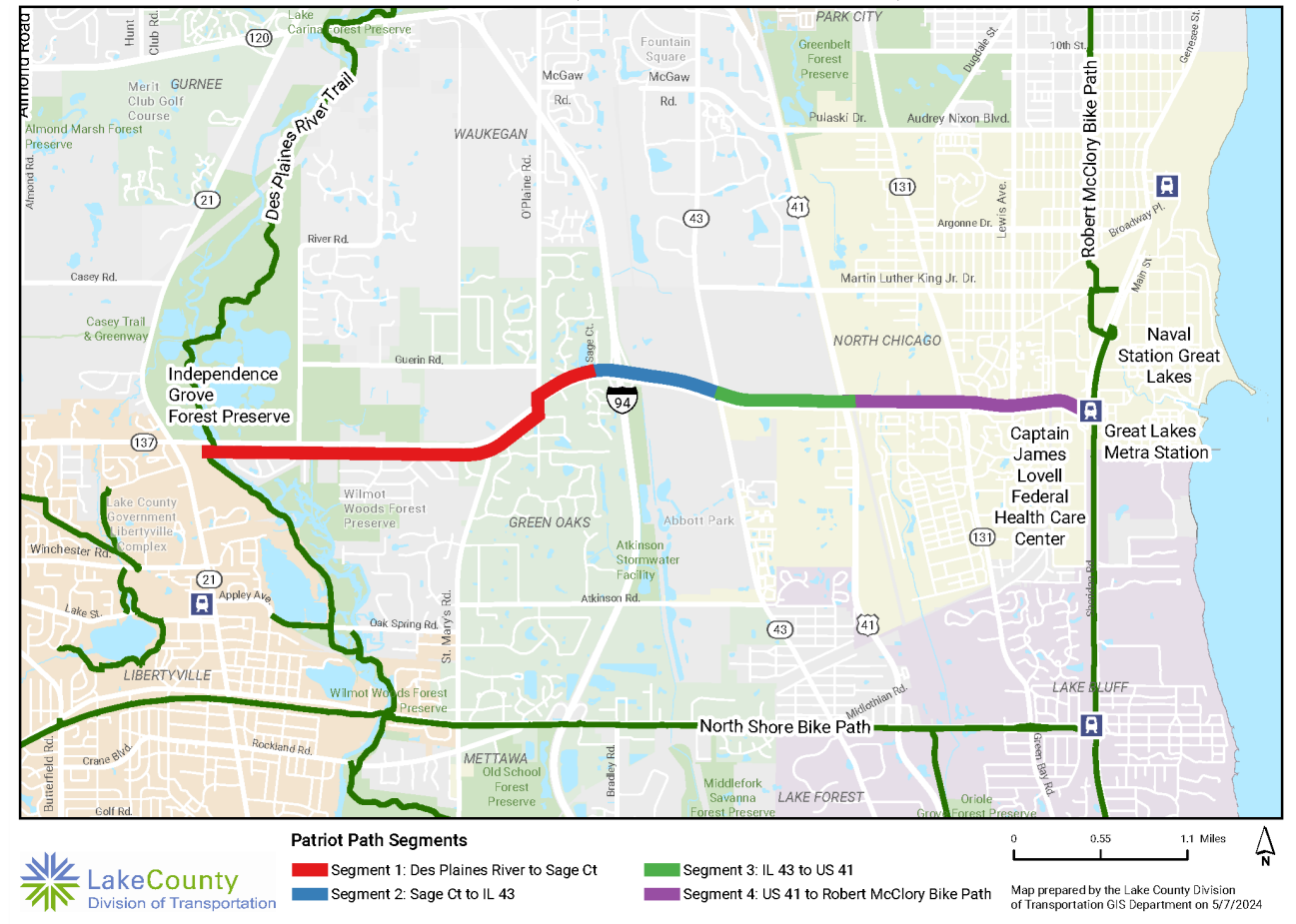
# Project Highlight: McClory Path

- Convert northern 11-mile segment from gravel to pavement for improved rideability and maintenance
- Re-pave sections of southern segment
- Drainage enhancements
- Increase safety at uncontrolled roadway crossings
- Coordinate with local communities to enhance trail amenities and provide better mode options for all users



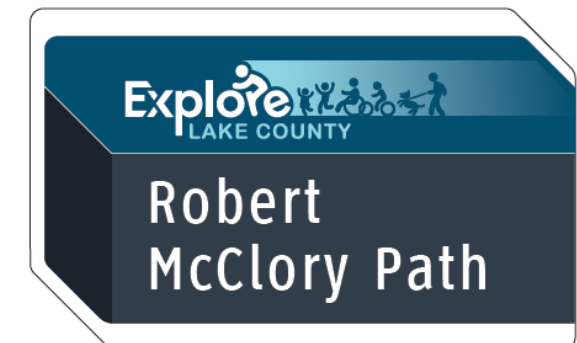
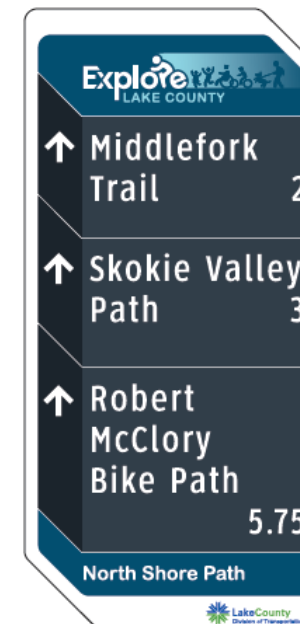
# Project Highlight: Patriot Path

- Received state/federal design approval in May 2024
- 5.5-mile path that connects the Des Plaines River Trail to the Robert McClory Path
- Connects parks, forest preserves, employment centers and transit stops
- Segments 1 and 4 in Phase 2 Design, target Construction 2026
- Segments 2 and 3 to begin Phase 2 Design in 2024



# Project Highlight: Wayfinding Signs

- Planned, Fabricated, and Installed nearly 500 Signs:
  - ✓ North Shore Path
  - ✓ Robert McClory Path
  - ✓ Skokie Valley Path
- Up Next:
  - Millennium Trail (Hawley St)
  - Fort Hill Trail
  - Prairie Crossing Path
  - Chain O' Lakes Path



# Priority Three: Expansion

- **Project selection tools:**
  - Lake County 2040 Plan
  - CMAP's ON TO 2050 Plan
  - IDOT Multi-Year Plan
  - Traffic and Safety Data
  - Demographic Trends
  - Inclusive Growth
- **Typical projects include:**
  - Add lanes
  - Grade separations
  - Realigned or extended roads
  - Paratransit



# Regional Plans

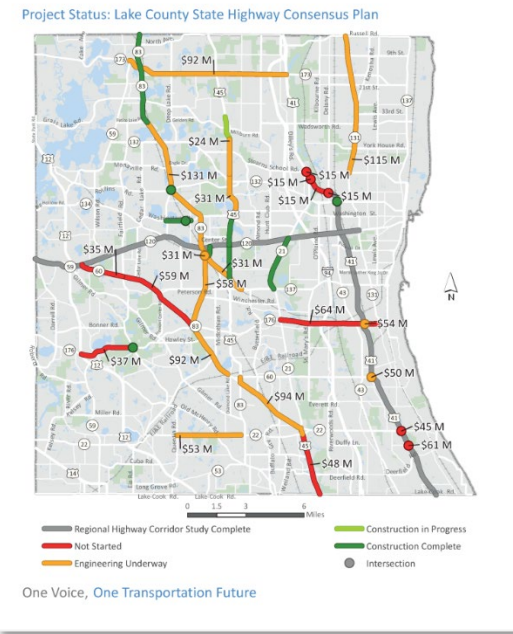
**State Highway Consensus Plan for Lake County**

Lake County Division of Transportation  
lakecountytillinois.gov/transportation

The State Highway Consensus Plan was developed in 2006 with input from local elected officials and the residents of Lake County. Everyone came together and reached consensus in support of a long-range transportation project to bring about meaningful transportation relief to the region. The plan has been viewed as a model for other counties across the state.

**LAKE COUNTY 2040 TRANSPORTATION PLAN**

The Lake County 2040 Transportation Plan is a long range plan that identifies deficiencies and recommends improvements necessary to address the future transportation needs of Lake County addressing roadway, transit, and non-motorized modes of travel.



ON TO 2050

**FY 2024-2029**

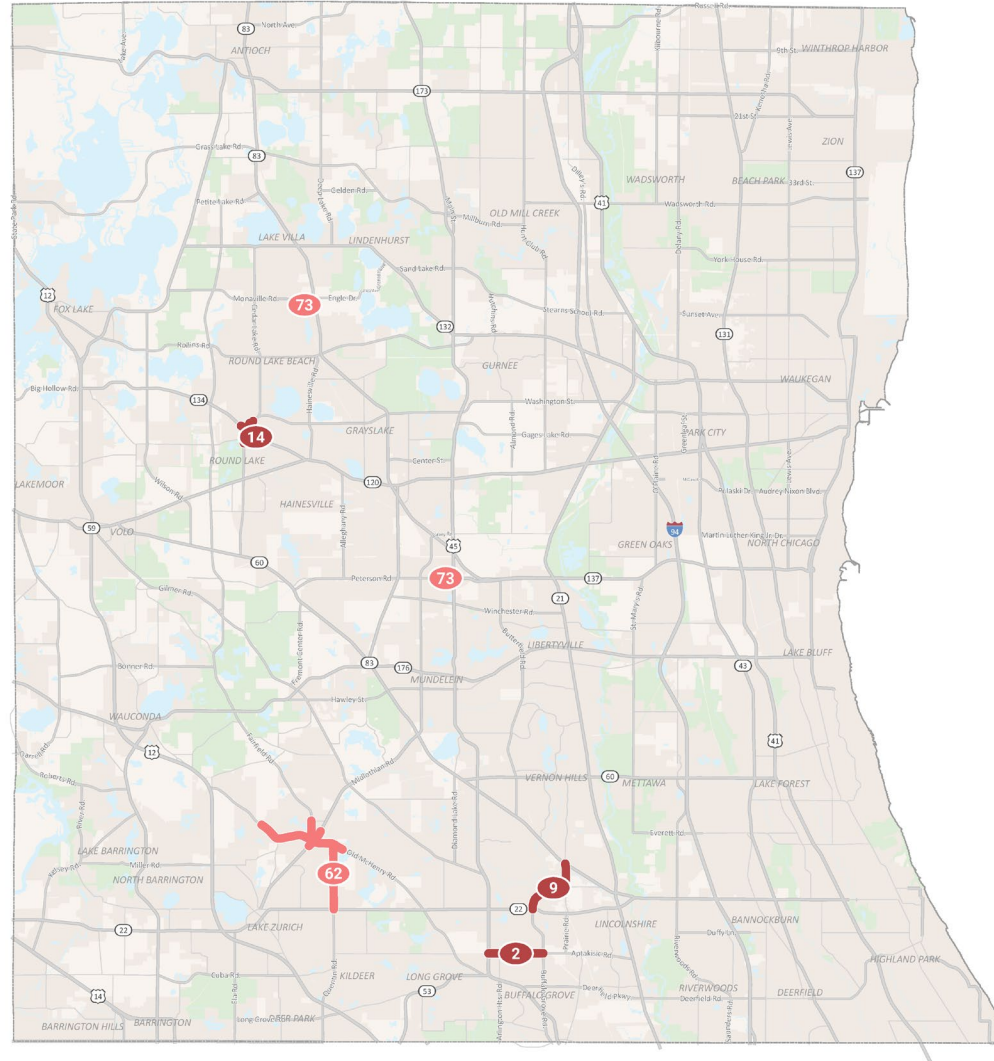
**PROPOSED HIGHWAY & MULTIMODAL IMPROVEMENT PROGRAM**



July 2023






# Expansion | 2024 - 2029



-  Fully Programmed
-  Partially Programmed



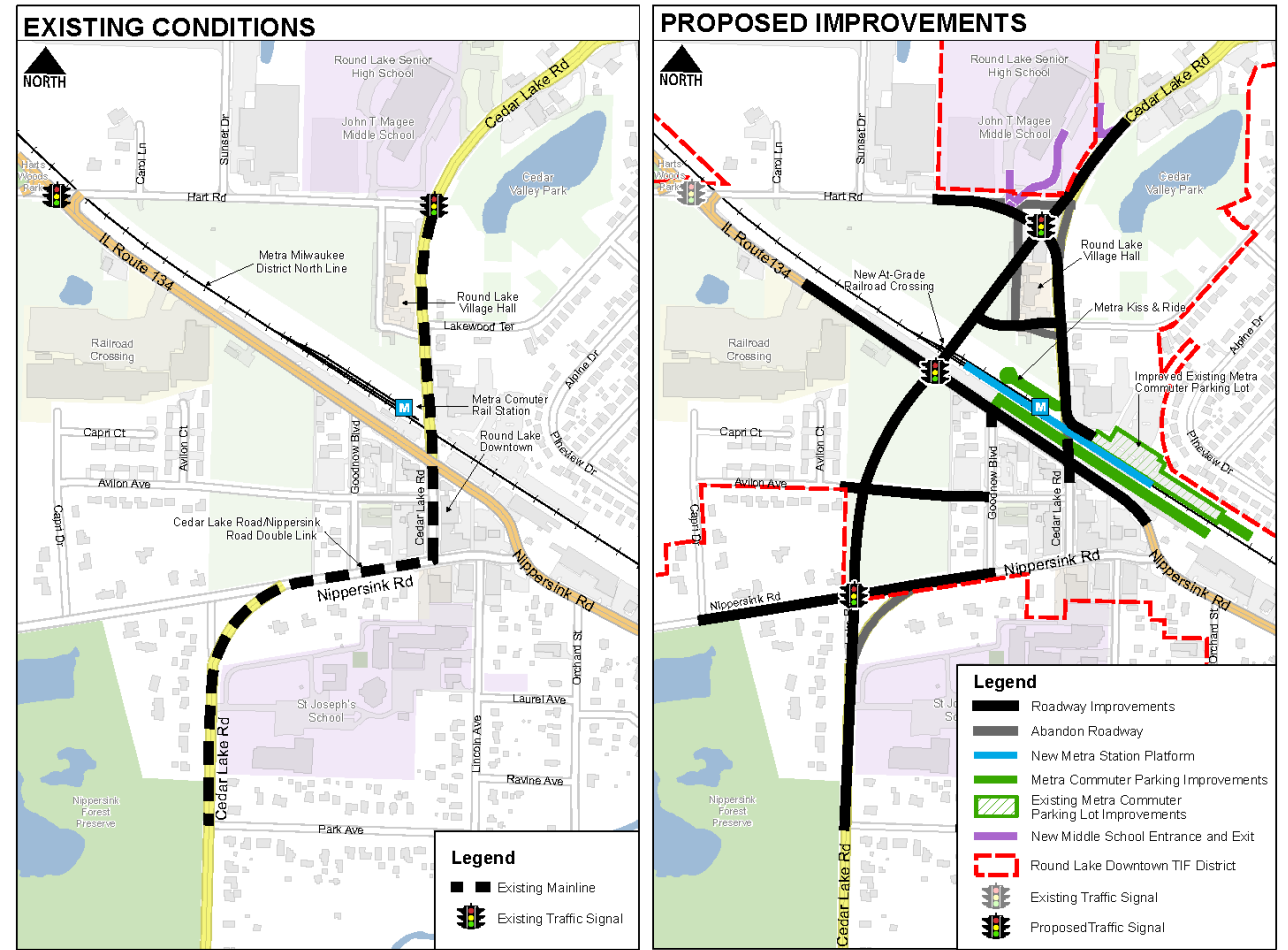
# Expansion Projects

Expansion Projects				
Map ID	Title	Program Year	Total Cost	ProjectTracker ID
2	Aptakisic Road Improvement (IL83 to Buffalo Grove Rd)	2023	\$8,110,372	B-00739a
9	Buffalo Grove Road Widening (IL22 to US45)	2029	\$20,493,151	B-01358
14	Cedar Lake Road Reliagnment	2025	\$50,620,293	B-00752
62	Old McHenry Crossing (Engineering + Section 1 Construction)	Post-2029	\$50,389,068	B-01546
73	Railroad Grade Separation Feasibility Study (Monaville and Peterson)	Post-2029	\$909,956	B-01666a

Note: Project Cost shown reflects cost in 2024 - 2029 years only. Detailed funding information for all projects is available in ProjectTracker.

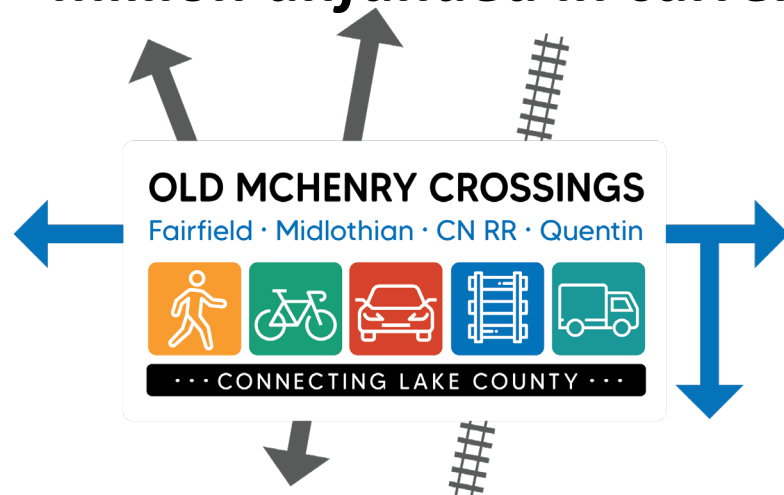
# Project Highlight: Cedar Lake Road Realignment

- Improves mobility, safety, transit, and non-motorized transportation
- Realigns roadway and replaces stop sign with traffic signal
- Expands sidewalk and bike path connections to downtown business district and fills gap on Millennium Trail
- Round Lake Metra Station modernization includes new boarding platforms, warming shelters, parking lot and bus parking
- Estimated Cost: \$52 million



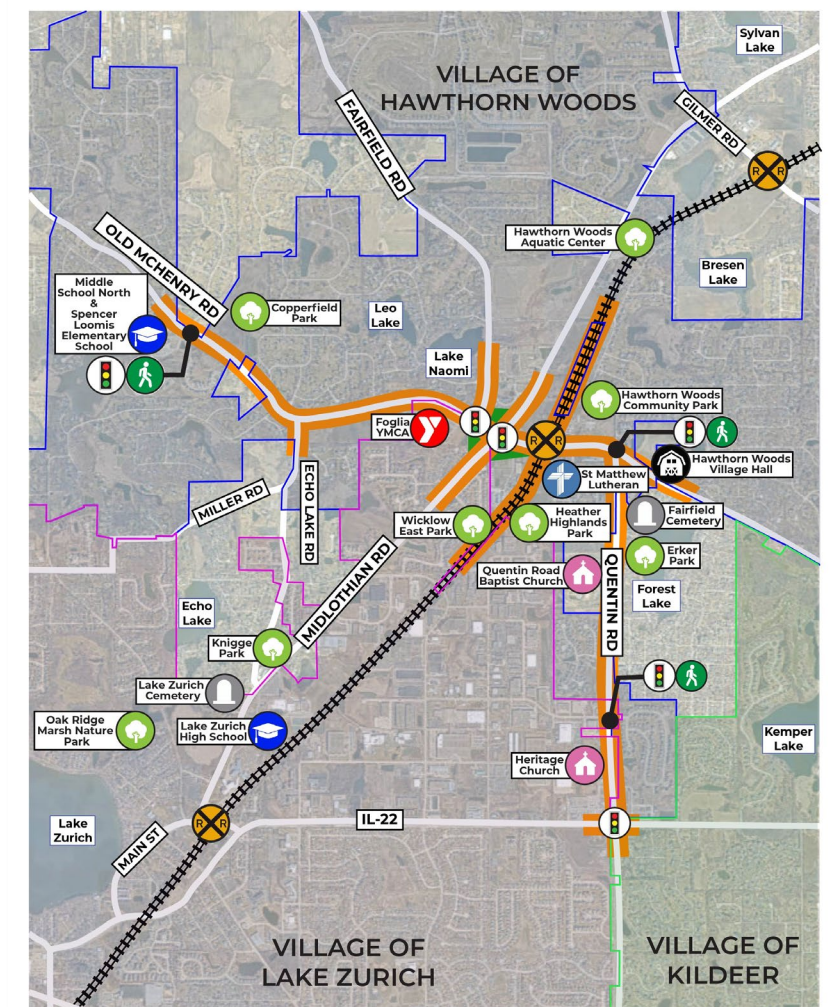
# Project Highlight: Old McHenry Crossings

- Congested corridor with 30,000 daily vehicles and 20 daily freight trains
- Final Public Informational Meetings anticipated in summer 2024
- Phase II engineering to begin later in 2024
- Estimated Cost: \$147 million  
*(\$90+ million unfunded in current TIP)*



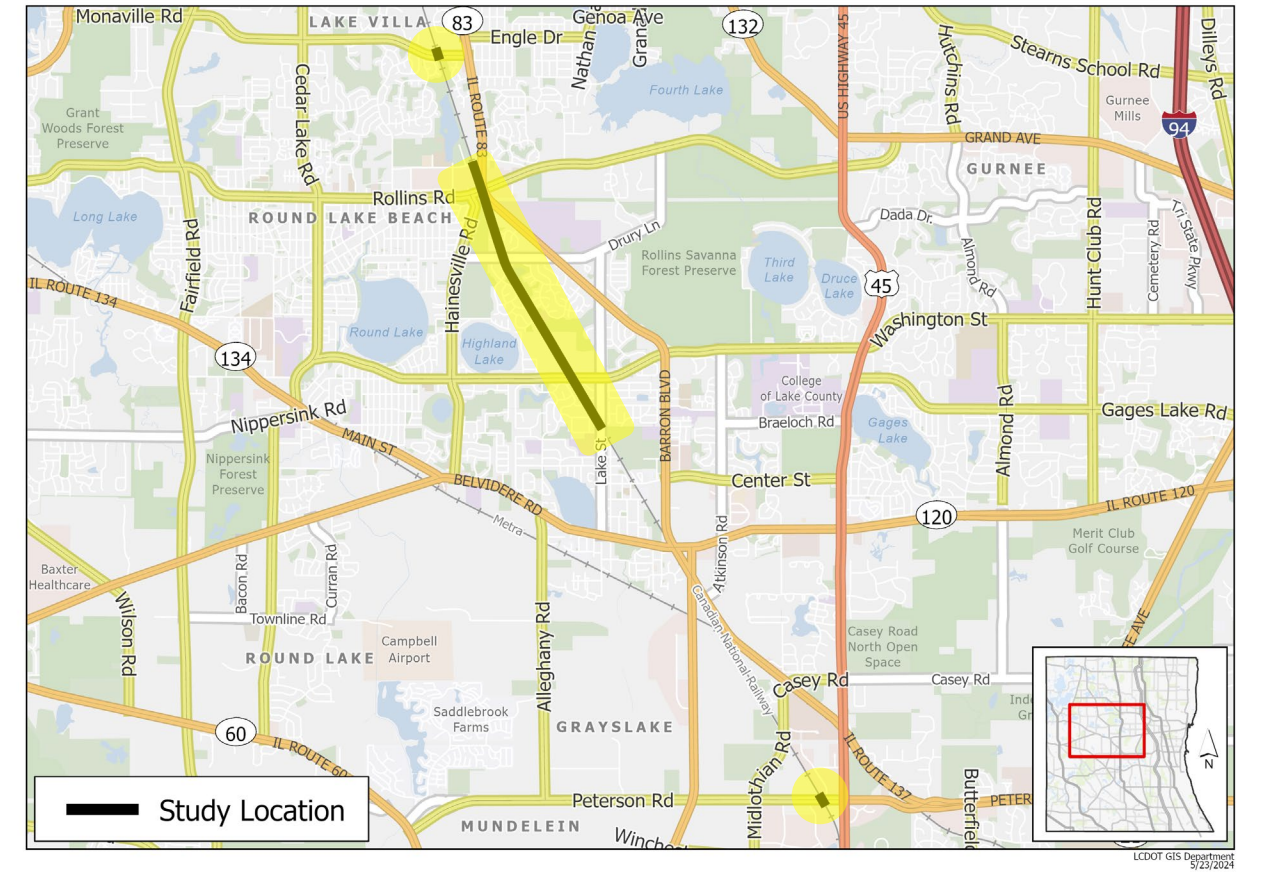
June 5, 2024

LOCATION AREA MAP



# Project Highlight: Grade Separations Feasibility Study

- Study railroad grade separations CNRR/Monaville Rd and CNRR/Peterson Rd (Metra North Central Line)
- Evaluate costs, potential impacts and constructability
- Coordinate with CNRR on double tracking from Hook Dr to Lake St (2.2 miles)
- Phase 1 study after completion of feasibility study
- Construction funding is not programmed in current TIP (\$100M+ )



# Project Highlight: Ride Lake County

- **Countywide Borderless Paratransit Service launched May 1, 2022**
- **Annual county funding covers 100% of local match**
- **Over 70,000 trips in the first two years (and growing)**
- **Nearly 1,700 individual riders**



**Ride Lake County**

Book Your Trip!  
Call Pace  
1-800-201-6646

**Celebrating Two Years of Expanded Service!**

Kenosha County

Winthrop Harbor, Zion, Beach Park, Wadsworth, Old Mill Creek, Antioch, Lake Villa, Fox Lake, Lake Forest, Lake Bluff, Green Oaks, Libertyville, Mundelein, Wauconda, Hawthorn Woods, Vernon Hills, Lake Forest, Lake Zurich, Long Grove, Buffalo Grove, Deerfield, Highland Park, Barrington, Wheeling, Fox River Grove, Barrington Hills, Cook County

Go to medical appointments, shop, attend school, and access employment...  
Get a ride with Ride Lake County!

Program Sponsors: pace LakeCounty Division of Transportation



# Project Tracker

## Public Resource to View All TIP Projects



Project Type: All | Funding Source: All | Year Programmed: 2024, 2025, 2026, 2027

123 Projects (only displaying mapped projects)

ID	Municipality	Lead Agency	Project Title	Project Type	Funding Source
B-01002a	North Chica...	LCDOT	14th Street ...	Highway/Ro...	County, Fed...
23-29	North Chica...	LCDOT	22nd St/ML...	Highway/Ro...	County
B-00739a	Buffalo Grove	LCDOT	Aptakisic Ro...	Highway/Ro...	County
B-01182	Buffalo Grov...	LCDOT	Arlington He...	Highway/Ro...	County
24-32	Wauconda	LCDOT	Bonner Roa...	Highway/Ro...	County
B-01663	Bannockbur...	LCDOT	Bridge Repa...	Bridge/Stru...	County

Rows per page: 10 | 1-10 of 123

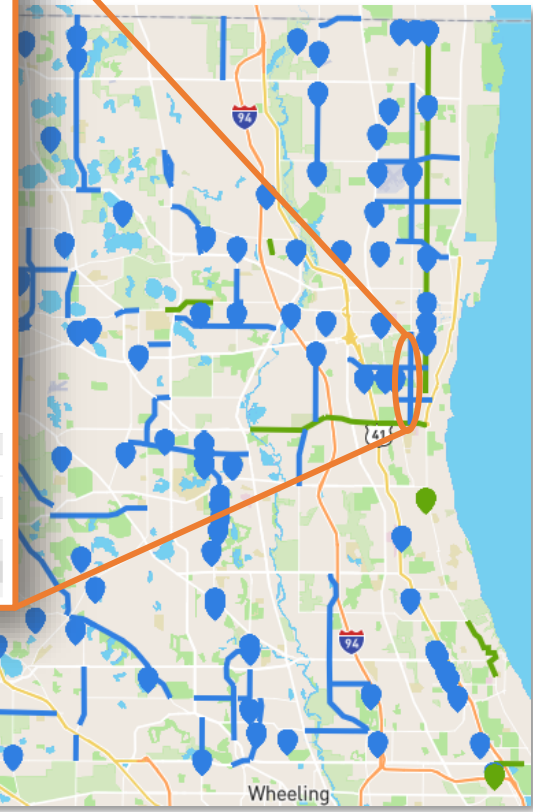
**B-01452b: Lewis Avenue Reconstruction and Road Diet**

Project Category: Preservation  
 Project Type: Highway/Road - Reconstruct with Change in Improvements, Use or Width of Lane  
 Additional Project Type: ADA - Facility, Highway/Road - Remove Lanes, Highway/Road - Bike Friendly Shoulder, New Pedestrian Facility, New Shared Use Path  
 Project Status: Preliminary Engineering

Lead Agency: LCDOT  
 Route/Road Name: Lewis Avenue  
 Municipality: North Chicago, Waukegan  
 Letting Date: 01/01/2027  
 Total Cost: \$53,535,974  
 Description: Reconstruction of Lewis Avenue with Road Diet south of Dugdale

Progress: Planning (Expected Start) - Design - Construction - Complete (Expected End)

PHASE	FUND SOURCE	PRIOR	FY2024	FY2025	FY2026	FY2027	FY2028	FY2029
Preliminary Engineering	Motor Fuel Tax - County Option	\$1,387,065	\$1,167,271	-	-	-	-	-
<b>Total Preliminary Engineering</b>		<b>\$1,387,065</b>	<b>\$1,167,271</b>	-	-	-	-	-
Total Right of Way		-	-	-	\$1,250,000	-	-	-
Construction	Motor Fuel Tax - County Option	-	-	-	-	\$12,492,138	-	-
Construction	RTA 1/4% Sales Tax	-	-	-	-	-	\$12,492,138	-
<b>Total Construction</b>		-	-	-	-	<b>\$12,492,138</b>	-	-
Inspection/Construction	RTA 1/4% Sales Tax	-	-	-	-	-	\$12,492,138	-
<b>Total Inspection/Construction</b>		-	-	-	-	-	<b>\$12,492,138</b>	-
<b>Total Programmed</b>		<b>\$245,052</b>	<b>\$2,237,243</b>	<b>\$2,400,000</b>	<b>\$1,250,000</b>	-	<b>\$12,492,138</b>	-



**lcdot.ecointeractive.com**

# Thank you!



LakeCounty  
Division of Transportation



LakeCounty

**PASSAGE**

[lakecountypassage.com](http://lakecountypassage.com)



[twitter.com/lcdot](https://twitter.com/lcdot)



[facebook.com/lcdot](https://facebook.com/lcdot)

June 5, 2024





# Questions

[lakecountyil.gov/transportation](http://lakecountyil.gov/transportation)

[dot@lakecountyil.gov](mailto:dot@lakecountyil.gov)

847.377.7400