

Public Works and Transportation Committee
May 28, 2025

#### 2025-2030 Proposed Transportation Improvement Program

#### Division of Transportation

Shane E. Schneider, P.E. Director & County Engineer

#### Agenda



- Schedule
- Statutory Requirements
- Fund Sources
- Fund Distribution
- Program Priorities
- Preservation Projects
- Modernization Projects
- Non-motorized Projects
- Expansion Projects
- Project Highlights

#### Schedule



May 28, 2025 PWT Presentation

• June 25, 2025 PWT Committee Adoption

• June 26, 2025 F&A Committee Adoption

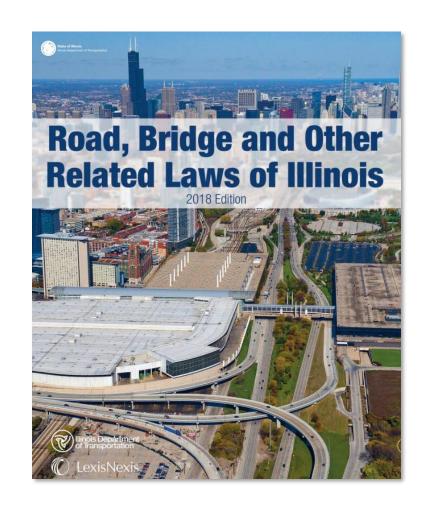
July 8, 2025 County Board Adoption

#### **Statutory Requirements**



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

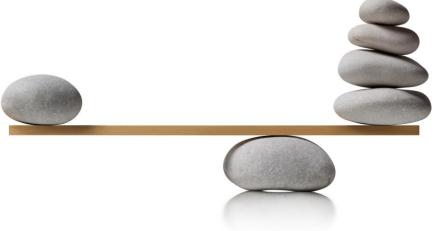
- County Engineer (in counties with populations over 185,000) shall update the 5-Year Transportation Improvement Program on an annual basis (since 1975)
  - Notify local public agencies
  - File plan with the Illinois Department of Transportation
- Maintain a Long-Range Transportation Plan (20-Year Plan)



#### **Fiscal Constraint**



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



#### **Fiscal Constraint**



- All projected revenue from 2025-2030 is programmed toward projects
- But not every project in program is fully funded through construction
- Need additional funding in future year revenues and State/Federal grants

#### Example active project shortfalls (i.e. partially programed projects):

Project Title	FY25-30 Funding	Funding Shortfall
Old McHenry Crossing	\$45.7M	\$90M
Lewis Avenue (IL120 to IL137)	\$30M	\$50M
Bonner Road (IL59 to Fairfield)	\$5.7M	\$20M
LCDOT Maintenance Building	\$24.5M	\$15M

#### **Approximate Active Project Shortfall: \$450M**

### **County Fund Sources**



#### **5** Local Revenue Streams Support Transportation Project Funding:



Property Tax Based\*



Sales Tax Based



User Fee Based

- County Bridge Tax
- Matching Tax

• RTA ¼% Sales Tax

- Motor Fuel Tax
- County Option Motor Fuel Tax

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

# **County Fund Sources**5-Year Revenue Projections



Local Fund Source	2026	2027	2028	2029	2030
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	\$12.2	\$12.2
Motor Fuel Tax	\$17.4	\$17.4	\$17.4	\$17.4	\$17.4
RTA ¼% Sales Tax	\$43.1	\$44.2	\$45.5	\$46.8	\$47.8
TOTAL	\$84.9	\$86.0	\$87.3	\$88.6	\$89.6

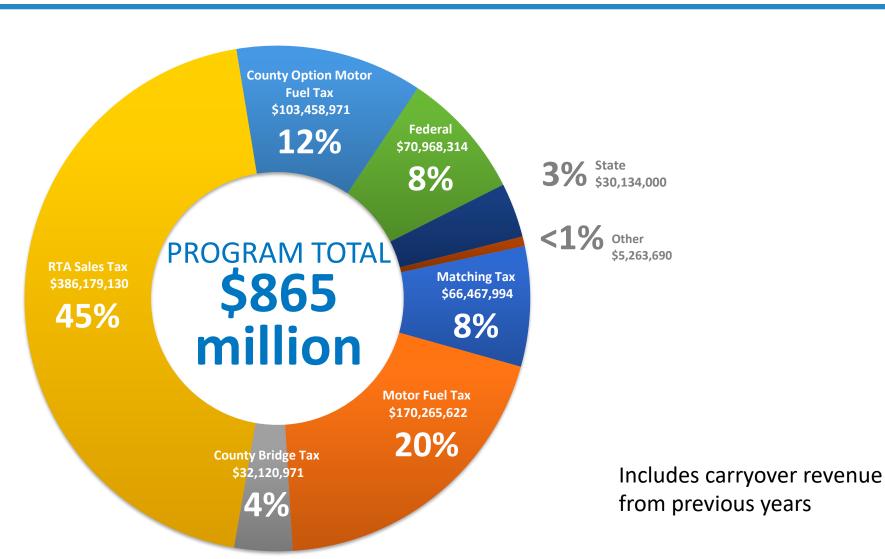
millions USD

#### **Assumptions:**

- County Bridge Tax Flat Levy
- Matching Tax Flat Levy
- County Option Motor Fuel Tax No Growth Projected
- Motor Fuel Tax No Growth Projected
- RTA Sales Tax 2.6% Annual Growth (per RTA)

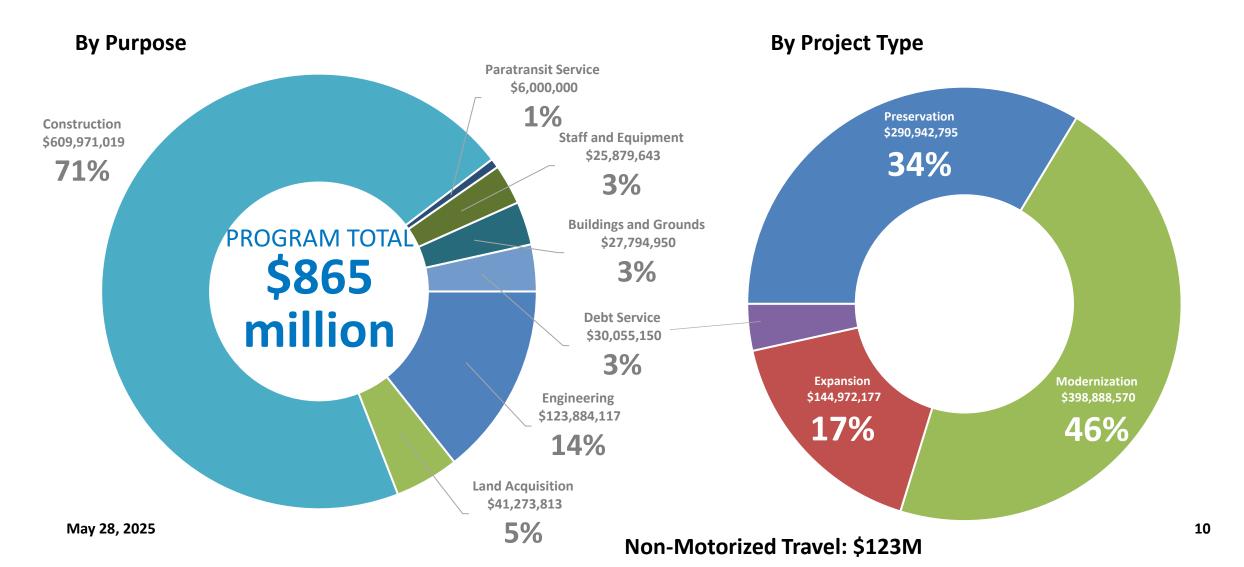
#### **Fund Sources** 2025-2030 Program Totals





# **Fund Distribution 2025-2030 Program Totals**





#### **Program Priorities**



#### 1. Preservation

 Keep roads, bridges, drainage systems, and other assets in a state of good repair

#### 2. Modernization

- Reduce delays and increase safety
- Non-motorized accommodation
- Technology enhancements

#### 3. Expansion

 Accommodate regional traffic and economic development

#### New to the 2025-2030 Program



- Annual Maintenance: \$21M
  - Roadway resurfacing, pavement patching, crack sealing, pavement markings, sign replacements, culvert repairs
- Additional Project Funding: \$30M
  - Lewis Avenue Modernization (IL137 to Belvidere Rd)
  - LCDOT Maintenance and Fleet Services Facility
- Project Cost Adjustments
  - Update estimates as projects advance in design phases



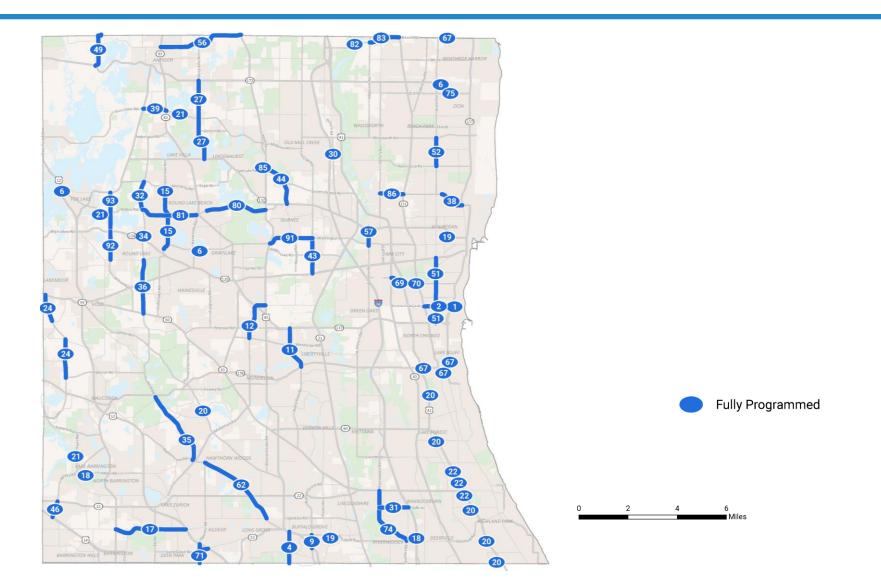






### Preservation | 2025 - 2030





### **Preservation Projects**



	Preservation Projects					
Map ID	Title	Program Year	ProjectTracker ID			
1	22nd St/MLK Jr. Dr. Culvert & Resurfacing (Commonwealth to IL137)	2027	23-29b			
2	22nd St/MLK Jr. Dr. Resurfacing (IL131 to Commonwealth)	2026	23-29			
4	Arlington Heights Road Reconstruction	2024	B-01182			
6	Bridge Repairs 2024-Pedestrian Bridge Decks	2024	23-42			
9	Buffalo Grove Road Rehabilitation (IL83 to Deerfield Pkwy)	2026	B-01359			
11	Butterfield Road Resurfacing (IL137 to IL176)	2024	B-01636a			
12	Casey Road/ Midlothian Road Resurfacing (IL137 to US45; Winchester Rd to IL137)	2027	24-22			
15	Cedar Lake Road Resurfacing (Monaville to Hart Road)	2026	B-01395			
17	Cuba Road Resurfacing (IL59 to US12)	2030	B-01678			
18	Culvert Lining 2025 (Miller Rd and Deerfield Rd)	2025	24-34			
19	Culvert Rehabilitations 2026 (Deerfield Parkway and Robert McClory Bike Path)	2026	24-46			
20	Culvert Replacement 2024 (Skokie Valley Bike Path and Gilmer Road)	2026	B-01517			
21	Culvert Replacements 2026 ( River, Grass Lake, Rollins)	2026	B-01645			
22	Culvert Replacements 2028 (Skokie Valley Bike Path)	2028	23-04			
24	Darrell Road Resurfacing (IL120 to Fischer Rd, Case Road to Bonner Road)	2030	23-27			
27	Deep Lake Road 3R and Resurfacing (IL132 to IL173)	2024	B-00913a			

### **Preservation Projects**



	Preservation Projects					
Map ID	Title Title	Program Year	ProjectTracker ID			
30	Dilley's Road Bridge Repair at Mill Creek	2025	23-62			
31	Duffy Lane 3R (Riverwoods Rd to 194)	2029	23-36			
32	Fairfield Road 3R (Monaville to Rollins)	2026	23-25			
34	Fairfield Road Culvert Replacement at Round Lake Drain (Culvert #257)	2026	B-01434			
35	Fairfield Road Resurfacing (IL176 to Old McHenry)	2024	B-01706			
36	Fairfield Road Resurfacing (Nippersink to IL60)	2025	B-01634			
38	Golf Rd/ Greenwood Ave Resurfacing (Sunset Ave to Greenwood Ave, Golf to Sheridan)	2029	25-29			
39	Grass Lake Road Resurfacing (IL59 to IL83)	2029	25-30			
43	Hunt Club Road Resurfacing (Washington to IL120)	2029	25-37			
44	Hutchins Road/ Stearns School Road Resurfacing (US45 to Hutchins and IL132 to Stearns School)	2027	B-01676			
46	Kelsey Road Resurfacing (IL22 to US14)	2027	24-24			
49	Lake Avenue Resurfacing (IL173 to WI State Line)	2027	24-25			
51	Lewis Avenue Reconstruction/Road Diet (Belvidere Rd to IL137)	2027	B-01452b			
52	Lewis Avenue Resurfacing (Wadsworth Rd to Yorkhouse Rd)	2030	25-31			
56	North Avenue 3R & Resurfacing (IL83 to US45)	2028	B-01582			
57	O'Plaine Road Resurfacing (Old Grand Ave to Elm Rd)	2028	23-31			

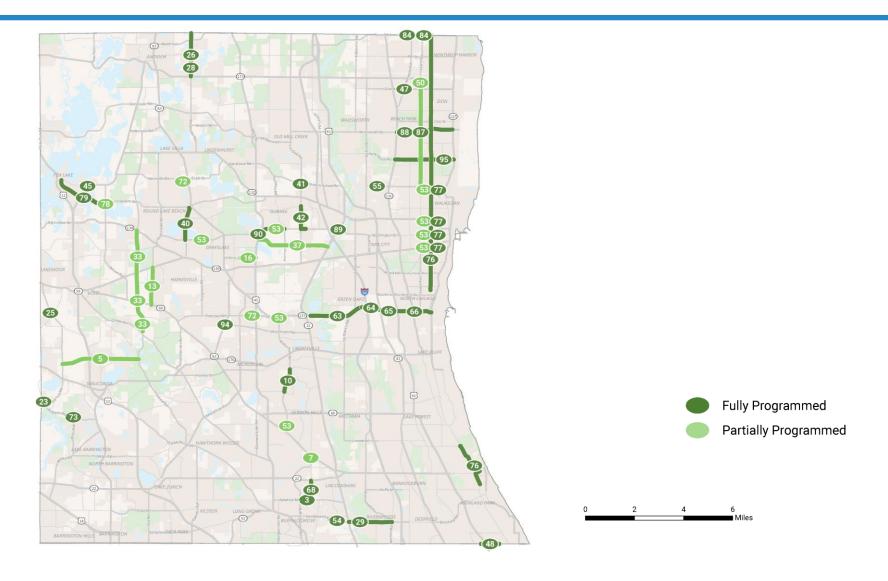
### **Preservation Projects**



Preservation Projects				
Map ID	Title Title	Program Year	ProjectTracker ID	
62	Old McHenry Road Resurfacing (Quentin to Cuba)	2025	B-01673	
67	Pedestrian Bridge Steel Repairs	2025	25-39	
69	Pulaski Drive Replacement of Bridge Deck over US41	2025	B-01577b	
70	Pulaski Drive Resurfacing (IL43 to IL131)	2026	B-01577	
71	Quentin Road/ Long Grove Road Resurfacing (Lake-Cook Rd to US12; W. of Quentin to US12)	2028	24-27	
74	Riverwoods Road 3R (IL22 to Deerfield Rd)	2029	B-01494	
75	Robert McClory Bike Path Bridge Repairs	2025	24-42	
80	Rollins Road Resurfacing (Hook to IL132)	2027	25-33	
81	Rollins Road Resurfacing and Pedestrian Improvements (Hainesville to Fairfield)	2026	B-01495	
82	Russell Road Bridge Deck Repair	2025	25-40	
83	Russell Road Resurfacing (Kilbourne to IL131)	2026	B-01704	
85	Sand Lake Road Wall Repair at Culvert #843	2025	22-05	
86	Sunset Ave Resurfacing (Delany to IL131)	2028	25-34	
91	Washington Street Resurfacing (US45 to Hunt Club Road)	2029	25-35	
92	Wilson Road Resurfacing (IL134 to Nippersink)	2025	B-01641	
93	Wilson Road Resurfacing (IL59 to IL134)	2029	25-36	

### Modernization 2025 - 2030 \*\*LakeCounty Division of Transportation





### **Modernization Projects**



	Modernization Projects					
Map ID	Title	Program Year	ProjectTracker ID			
3	Aptakisic Road at Prairie Intersection and Aptakisic Bike Path	2026	25-38			
5	Bonner Road Improvements (Darrell Road to Fairfield Road)	Post-2030	24-32			
7	Buffalo Grove Road at US45 Intersection Improvement	Post-2030	23-46			
10	Butterfield Road Bike Path (Greggs Parkway to Golf)	2025	B-01617b			
13	Cedar Lake Road Improvements (IL120 to IL60)	Post-2030	24-23			
16	Center Street at Atkinson Road Intersection Improvement + new bike path (Buckingham Drive to US45)	Post-2030	24-33			
23	Darrell Road at Roberts Road Intersection Improvement	2028	B-01703			
25	Darrell Road Roundabouts at Fisher Road and at Dowell Road	2024	B-00141b			
26	Deep Lake Rd at Depot Street Roundabout	2025	B-01547b			
28	Deep Lake Road at North Roundabout and Resurfacing (IL173 to WI Line)	2027	B-01547			
29	Deerfield Road Improvement (IL21/US45 to Saunders)	2026	B-01266a			
33	Fairfield Road Corridor PEL Study (IL134 to Gilmer Road)	Post-2030	B-01667			
37	Gages Lake Road Improvements (US45 to IL21)	Post-2030	24-30			
40	Hainesville Road Improvement (Washington Street to Rollins Road)	2026	B-01482			
41	Hunt Club Road at Stearns School Road Intersection Improvement	2029	B-01707			
42	Hunt Club Road at Washington Street Intersection improvement	2024	B-01437			

### **Modernization Projects**



Modernization Projects					
Map ID	Title	Program Year	ProjectTracker ID		
45	IL59 at Grand Avenue Intersection Improvement	2023	B-00738		
47	Kenosha Road at 21st Street Roundabout	2026	B-01548		
48	Lake-Cook Road Bike Path (Skokie Valley Bike Path to Chicago Botanic Garden)	2028	B-01616		
50	Lewis Avenue North-PEL Study (Sunset Ave to IL173)	Post-2030	23-44		
53	Mid-Block Multi-Lane Pedestrian Crossing Study	Post-2030	B-01665		
54	New Traffic Signals (Deerfield Parkway at Barclay Boulevard)	2025	22-03		
55	New Traffic Signals (Sunset at Northern Ave)	2025	B-01701		
63	Patriot Path (Segment 1: Des Plaines River Trail to Sage Ct)	2027	B-01181a		
64	Patriot Path (Segment 2: Sage Ct to IL43)	2028	B-01181b		
65	Patriot Path (Segment 3: IL43 to US41)	2028	B-01181c		
66	Patriot Path (Segment 4: US41 to Robert McClory Trail)	2027	B-01181d		
68	Prairie Road Resurfacing (IL22 to Aptakisic)	2025	B-01500		
72	Railroad Grade Separation Feasibility Study (Monaville and Peterson)	Post-2030	B-01666a		
73	River Road @ Roberts Road Roundabout Modernization	2026	24-28		
76	Robert McClory Bike Path Paving (WI State Line to Broadway Ave)	2025	B-01702		
77	Robert McClory Bike Path Road Crossing Improvements	2026	B-01702b		

### **Modernization Projects**

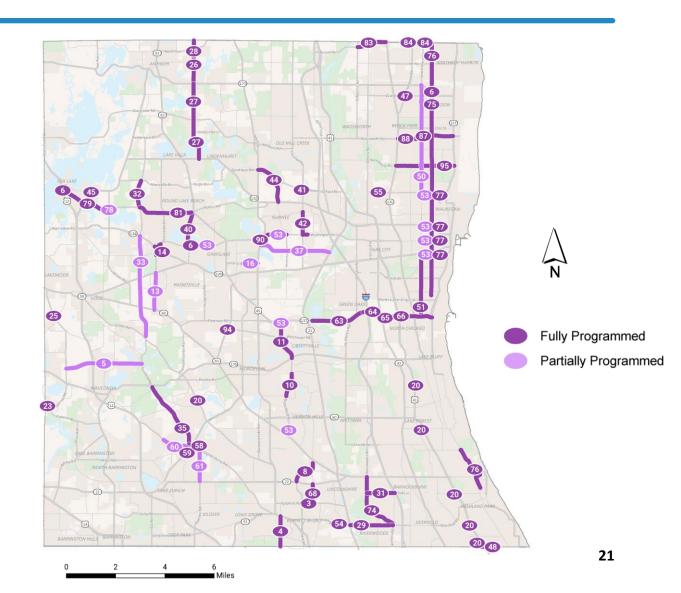


Modernization Projects					
Map ID	Title	Program Year	ProjectTracker ID		
78	Rollins Road at Wilson Road Intersection Improvement	Post-2030	24-31		
79	Rollins Road Improvement (Grand Ave to Washington Street)	2029	B-01705		
84	Russell Road Roundabouts (Kenosha and Lewis)	2025	B-01445b		
87	Wadsworth Road at Lewis Avenue Intersection Improvement	2024	B-01119		
88	Wadsworth Road Improvement (IL131 to Sheridan)	2027	B-01402a		
89	Washington Street at IL21 Intersection Improvement	2025	B-01700		
90	Washington Street Bike Path (Sextant Court to Almond Road)	2025	B-01419a		
94	Winchester Road at IL83 Intersection Improvement	2024	B-01365		
95	York House Road Improvement (IL131 to Sheridan)	2028	B-01509		

### Non-motorized Projects | 2025-2030 \*\* Lake County



- Paved shoulder:
  - 20.9 miles improved
  - 29.9 miles new
- Path:
  - 17.1 miles improved
  - 45.3 miles new
- Sidewalk:
  - 3.2 miles improved
  - 24.7 miles new



### Non-motorized projects



Non-Motorized Accommodations Projects					
Map ID	Title	Program Year	ProjectTracker ID	Non-Motorized Improvements	
3	Aptakisic Road at Prairie Intersection and Aptakisic Bike Path	2026	25-38	Bike Path	
4	Arlington Heights Road Reconstruction	2024	B-01182	Paved Shoulder, Sidewalk	
5	Bonner Road Improvements (Darrell Road to Fairfield Road)	Post-2030	24-32	Bike Path, Paved Shoulder, Sidewalk	
6	Bridge Repairs 2024-Pedestrian Bridge Decks	2024	23-42	Bike Path	
8	Buffalo Grove Road Improvements (IL22 to US45)	2030	B-01358	Bike Path, Sidewalk	
10	Butterfield Road Bike Path (Greggs Parkway to Golf)	2025	B-01617b	Bike Path	
11	Butterfield Road Resurfacing (IL137 to IL176)	2024	B-01636a	Sidewalk	
13	Cedar Lake Road Improvements (IL120 to IL60)	Post-2030	24-23	Bike Path	
14	Cedar Lake Road Reliagnment (Hart Rd to Nippersink Rd)	2027	B-00752	Bike Path, Paved Shoulder, Sidewalk	
16	Center Street at Atkinson Road Intersection Improvement + new bike path (Buckingham Drive to US45)	Post-2030	24-33	Bike Path	
20	Culvert Replacement 2024 (Skokie Valley Bike Path and Gilmer Road)	2026	B-01517	Bike Path	
23	Darrell Road at Roberts Road Intersection Improvement	2028	B-01703	Bike Path, Paved Shoulder	
25	Darrell Road Roundabouts at Fisher Road and at Dowell Road	2024	B-00141b	Bike Path, Paved Shoulder	
26	Deep Lake Rd at Depot Street Roundabout	2025	B-01547b	Bike Path, Paved Shoulder	
27	Deep Lake Road 3R and Resurfacing (IL132 to IL173)	2024	B-00913a	Paved Shoulder	
28	Deep Lake Road at North Roundabout and Resurfacing (IL173 to WI Line)	2027	B-01547	Bike Path, Paved Shoulder	
29	Deerfield Road Improvement (IL21/US45 to Saunders)	2026	B-01266a	Bike Path, Paved Shoulder, Sidewalk	
31	Duffy Lane 3R (Riverwoods Rd to 194)	2029	23-36	Bike Path, Paved Shoulder	
32	Fairfield Road 3R (Monaville to Rollins)	2026	23-25	Bike Path, Paved Shoulder	
33	Fairfield Road Corridor PEL Study (IL134 to Gilmer Road)	Post-2030	B-01667	Bike Path, Paved Shoulder, Sidewalk	
35	Fairfield Road Resurfacing (IL176 to Old McHenry)	2024	B-01706	Paved Shoulder	
37	Gages Lake Road Improvements (US45 to IL21)	Post-2030	24-30	Bike Path, Paved Shoulder, Sidewalk	

### Non-motorized projects



Non-Motorized Accommodations Projects					
Map ID	Title	Program Year	ProjectTracker ID	Non-Motorized Improvements	
40	Hainesville Road Improvement (Washington Street to Rollins Road)	2026	B-01482	Bike Path, Paved Shoulder, Sidewalk	
41	Hunt Club Road at Stearns School Road Intersection Improvement	2029	B-01707	Bike Path	
42	Hunt Club Road at Washington Street Intersection improvement	2024	B-01437	Bike Path, Paved Shoulder, Sidewalk	
44	Hutchins Road/ Stearns School Road Resurfacing (US45 to Hutchins and IL132 to Stearns School)	2027	B-01676	Paved Shoulder, Sidewalk	
45	IL59 at Grand Avenue Intersection Improvement	2023	B-00738	Bike Path, Sidewalk	
47	Kenosha Road at 21st Street Roundabout	2026	B-01548	Bike Path, Paved Shoulder, Sidewalk	
48	Lake-Cook Road Bike Path (Skokie Valley Bike Path to Chicago Botanic Garden)	2028	B-01616	Bike Path	
50	Lewis Avenue North-PEL Study (Sunset Ave to IL173)	Post-2030	23-44	Bike Path, Paved Shoulder, Sidewalk	
51	Lewis Avenue Reconstruction/Road Diet (Belvidere Rd to IL137)	2027	B-01452b	Bike Path, Sidewalk	
53	Mid-Block Multi-Lane Pedestrian Crossing Study	Post-2030	B-01665	Bike Path	
54	New Traffic Signals (Deerfield Parkway at Barclay Boulevard)	2025	22-03	Bike Path, Sidewalk	
55	New Traffic Signals (Sunset at Northern Ave)	2025	B-01701	Sidewalk	
58	Old McHenry Crossing (Engineering + Section 1 Construction)	2027	B-01546	Bike Path, Paved Shoulder, Sidewalk	
59	Old McHenry Crossing (Section 2- Midlothian to Fairfield)	2027	B-01546b	Bike Path, Paved Shoulder, Sidewalk	
60	Old McHenry Crossing (Section 3-Fairfield Road to Abbey Glenn)	Post-2030	B-01546c	Bike Path, Paved Shoulder, Sidewalk	
61	Old McHenry Crossing (Section 4-Quentin Rd from Old McHenry to IL22)	Post-2030	B-01546d	Bike Path, Paved Shoulder, Sidewalk	
63	Patriot Path (Segment 1: Des Plaines River Trail to Sage Ct)	2027	B-01181a	Bike Path	
64	Patriot Path (Segment 2: Sage Ct to IL43)	2028	B-01181b	Bike Path	
65	Patriot Path (Segment 3: IL43 to US41)	2028	B-01181c	Bike Path	
66	Patriot Path (Segment 4: US41 to Robert McClory Trail)	2027	B-01181d	Bike Path	

### Non-motorized projects



Non-Motorized Accommodations Projects					
Map ID	Title	Program Year	ProjectTracker ID	Non-Motorized Improvements	
68	Prairie Road Resurfacing (IL22 to Aptakisic)	2025	B-01500	Bike Path, Paved Shoulder, Sidewalk	
74	Riverwoods Road 3R (IL22 to Deerfield Rd)	2029	B-01494	Bike Path, Paved Shoulder, Sidewalk	
75	Robert McClory Bike Path Bridge Repairs	2025	24-42	Bike Path	
76	Robert McClory Bike Path Paving (WI State Line to Broadway Ave)	2025	B-01702	Bike Path	
77	Robert McClory Bike Path Road Crossing Improvements	2026	B-01702b	Bike Path	
78	Rollins Road at Wilson Road Intersection Improvement	Post-2030	24-31	Bike Path, Paved Shoulder	
79	Rollins Road Improvement (Grand Ave to Washington Street)	2029	B-01705	Bike Path, Sidewalk	
81	Rollins Road Resurfacing and Pedestrian Improvements (Hainesville to Fairfield)	2026	B-01495	Sidewalk	
83	Russell Road Resurfacing (Kilbourne to IL131)	2026	B-01704	Paved Shoulder	
84	Russell Road Roundabouts (Kenosha and Lewis)	2025	B-01445b	Bike Path, Paved Shoulder	
87	Wadsworth Road at Lewis Avenue Intersection Improvement	2024	B-01119	Bike Path, Sidewalk	
88	Wadsworth Road Improvement (IL131 to Sheridan)	2027	B-01402a	Bike Path, Paved Shoulder	
90	Washington Street Bike Path (Sextant Court to Almond Road)	2025	B-01419a	Bike Path, Sidewalk	
94	Winchester Road at IL83 Intersection Improvement	2024	B-01365	Paved Shoulder	
95	York House Road Improvement (IL131 to Sheridan)	2028	B-01509	Bike Path, Paved Shoulder, Sidewalk	

## Expansion | 2025 - 2030





### **Expansion Projects**

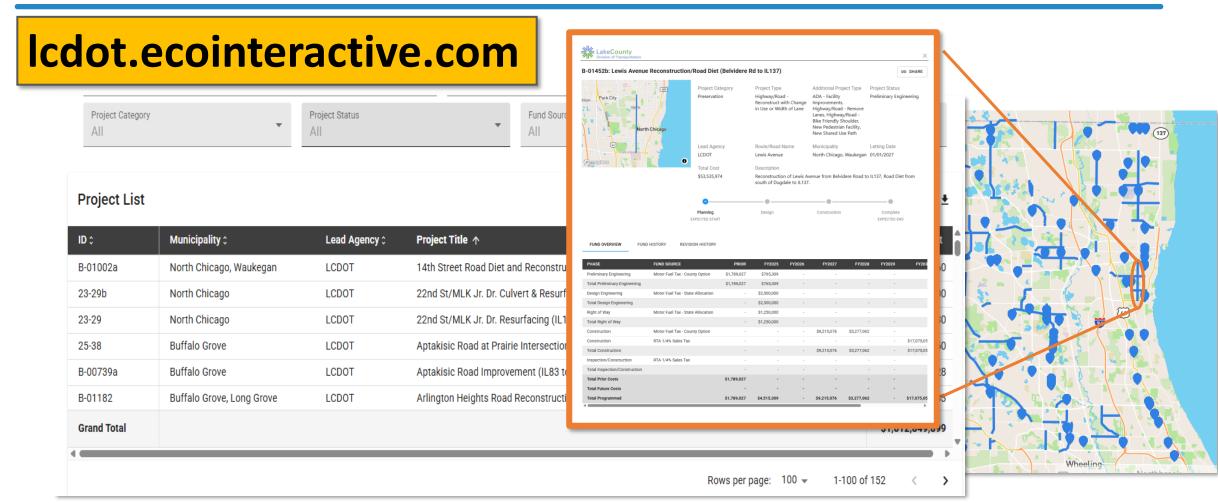


Expansion Projects					
Map ID	Title	Program Year	ProjectTracker ID		
8	Buffalo Grove Road Improvements (IL22 to US45)	2030	B-01358		
14	Cedar Lake Road Reliagnment (Hart Rd to Nippersink Rd)	2027	B-00752		
58	Old McHenry Crossing (Engineering + Section 1 Construction)	2027	B-01546		
59	Old McHenry Crossing (Section 2- Midlothian to Fairfield)	2027	B-01546b		
60	Old McHenry Crossing (Section 3-Fairfield Road to Abbey Glenn)	Post-2030	B-01546c		
61	Old McHenry Crossing (Section 4-Quentin Rd from Old McHenry to IL22)	Post-2030	B-01546d		

#### **Online Project Tracker**





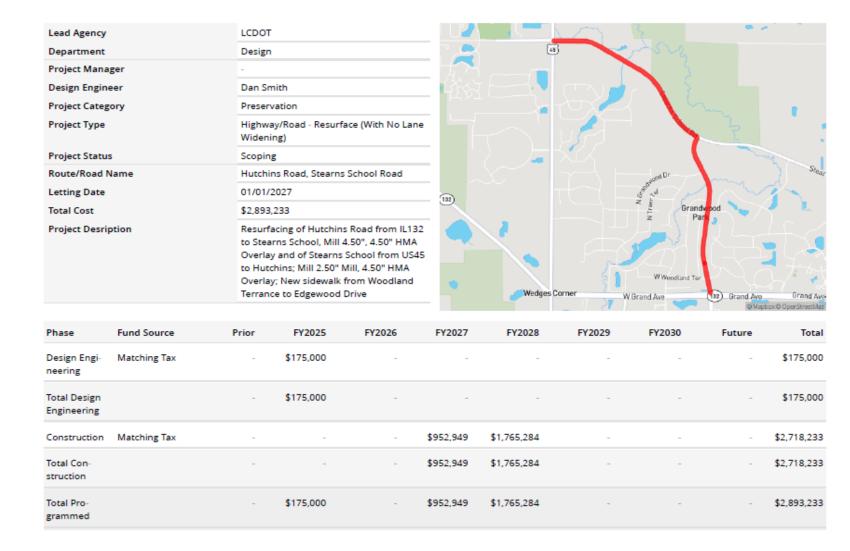


#### **Example:**

#### **Project Programming Details**



#### B-01676 - Hutchins Road/ Stearns School Road Resurfacing (US45 to Hutchins and IL132 to Stearns School)





### **Project Highlights**

# Project Highlight: Metal Culvert Replacement Program



- Started in 2017
- Includes metal culverts 36" or greater
- 35 culverts have been upgraded
- 5 culverts remaining (all in program)
  - Deerfield Parkway (66"x132")
  - Fairfield Road (96"x162")
  - Grass Lake Road (79"x117")
  - River Road (144")
  - Rollins Road (96")



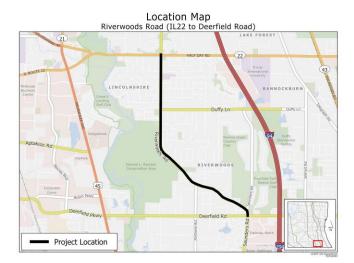


#### **Project Highlight:**

### 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







## Project Highlight: Maintenance and Fleet Services Facility



- Underway: Feasibility and Space Study
- Next Step: Building Design
- Goals:
  - Modern space that meets current and future 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









# Project Highlight: Lewis Avenue (Belvidere Rd to IL137)



- Additional construction funding programmed in 2025-2030 TIP
  - \$60M construction cost (\$30M in TIP)
- Reconstruction and Road Diet
  - Replace aged pavement
  - Enhance safety
  - Install shared use path and sidewalk
  - Expand access to regional destinations such as schools, parks, forest preserve, McClory Path and future Patriot Path, VA Hospital and

#### Road Diet Example: Audrey Nixon Boulevard



Before (2018)



After (2021)

# Project Highlight: Roundabouts



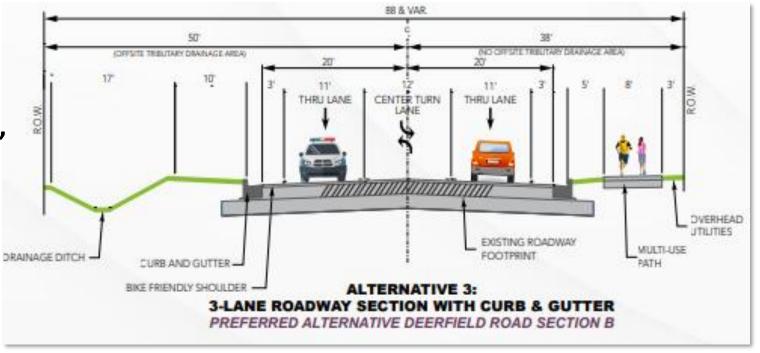
#### **Potential New Locations**

- 1. Cedar Lake Road at Townline Road\*
- 2. Center Street at Atkinson Road\*
- 3. Darrell Road at Case Rd/Neville Rd (Open to Traffic)
- 4. Darrell Road at Dowell Road
- 5. Darrell Road at Fisher Road
- 6. Darrell Road at Roberts Road\*
- 7. Deep Lake Road at Depot Street
- 8. Deep Lake Road at North Avenue
- 9. Hunt Club Road at Stearns School Road
- 10. Kenosha Road at 21st Street
- 11. River Road at Roberts Road\*\*
- 12. Rollins Road at Wilson Road\*
- 13. Russell Road at Kenosha Road
- 14. Russell Road at Lewis Avenue



# Project Highlight: Deerfield Rd Corridor (IL 21 to Saunders Rd) Lake County Division of Transportation

- \$26M in Federal Funding Awarded
- Reconstructed roadway with new center turn lane and shared-use path along the corridor
- Intersection improvements at IL21,
   Portwine Rd and Saunders Rd for increased mobility
- Drainage improvements include expanded/upgraded ditches and storm sewer
- New stormwater detention
- Estimated Cost: \$41 million

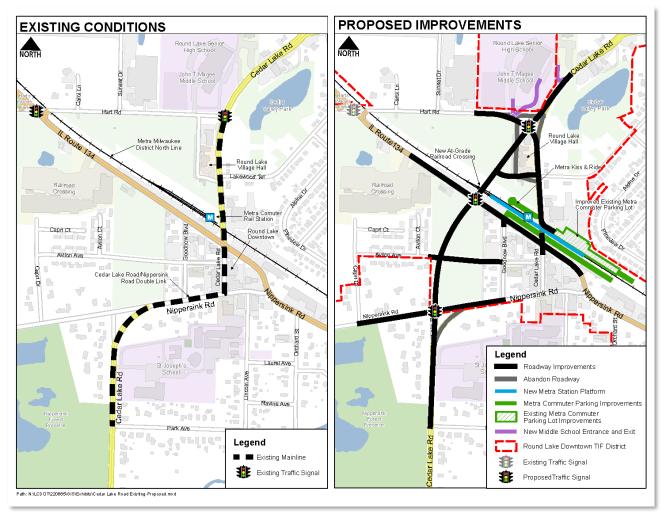


#### **Project Highlight:**

#### **Cedar Lake Road Realignment**



- \$18.8 million RAISE Grant from USDOT; \$32.3M in Federal Funding Awarded
- 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



## **Old McHenry Crossings**



- Congested corridor with 30,000 daily vehicles and 20 daily freight trains
- Phase II engineering began in 2024
- Design approval anticipated in late 2025
- Land Acquisition anticipated to begin in 2026
- Estimated Cost: \$147 million (\$90+ million unfunded in current TIP)







## Questions

#### **Contact us!**

Office: 847.377.7400

PASSAGE: 847.377.7000

Email: dot@lakecountyil.gov

Web: lakecountyil.gov/transportation

### **Reference Information**



# Additional Details Developing the 5-Year Program

## **Consider Other Fund Sources Federal, State, Local Partners**



#### **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)
- **BUILD** Better Utilizing Investments to Leverage Development
- **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...* 

## **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



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## 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

May 28, 2025

## Pavement Management Summary



- 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

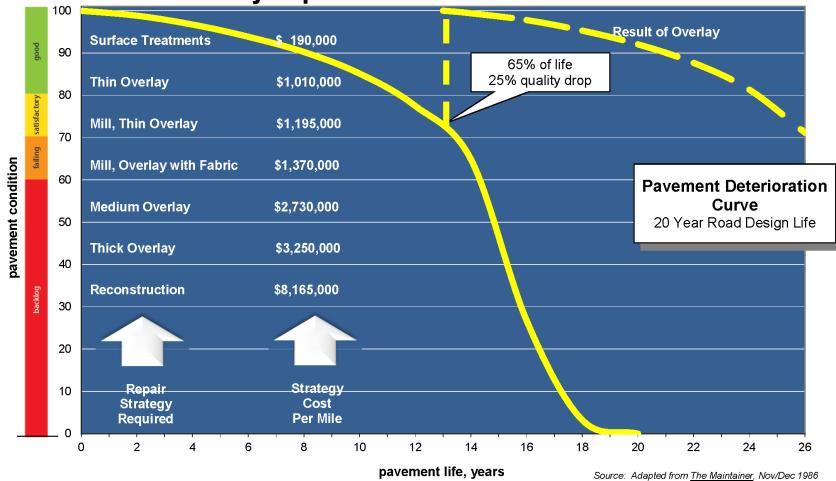


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GOAL:
Make the
Right
Investment
at the
Right Time

Early repairs are most cost effective



## **Resurfacing Projects**



## Pavement Management Program Recommends:

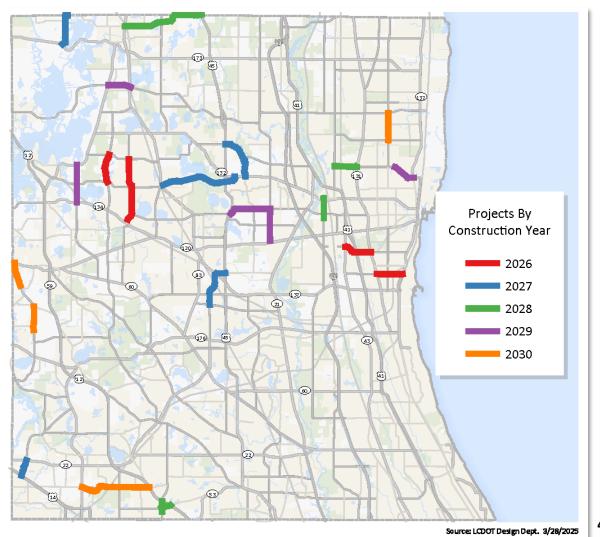
• 2026: 6.7 miles

• 2027: 9.9 miles

• 2028: 6.7 miles

• 2029: 7.1 miles

• 2030: 6.7 miles



### **Asset Inventories**



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







## **Assets: Pavement**



• Lane miles	920
<ul> <li>Centerline miles</li> </ul>	303
<ul> <li>Miles paved shoulder</li> </ul>	257
<ul> <li>Average age of roadway (years)</li> </ul>	<b>52</b>
<ul> <li>Average age of surface (years)</li> </ul>	10



### **Assets: Culverts**



- A variety of culvert materials:
  - Concrete
  - Corrugated metal pipe (CMP)
  - Composite
  - PVC
- More than 680 individual culverts, totaling almost 52,000 feet
- Ranging in size from 12 inches to 12 feet in diameter



## **Assets: Signs**



- 8,225 Regulatory
- 10,634 Guide/Destination
- 6,132 Warning/Object Marker
- 2,227 Information
- 523 School

• 27,741 Total Signs

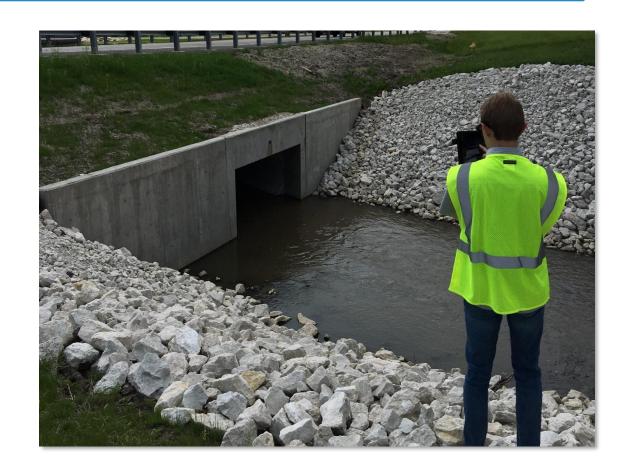


Signs installed/maintained by LCDOT Source: LCDOT sign inventory, May 2025

### **Assets: Other**



- 18,264 storm sewer structures
- 203 miles of storm sewer pipe
- 683 culverts
- 60 stormwater basins
- 59,330 feet of fencing
- 26,002 feet of retaining wall
- 21 miles of guardrail
- 43 landscape areas (101 acres)



LCDOT GIS / May 2025

## Lake County's Bridges

National Bridge Inventory System (NBIS)

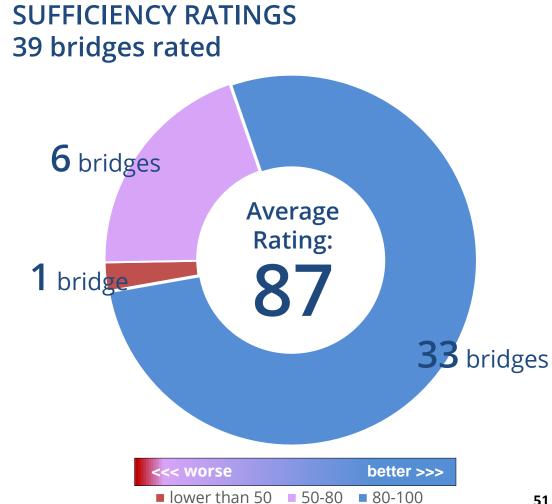


#### **NBIS Criteria**

- 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
- Russell Rd over Des Plaines River



## What's New in Preservation?



- 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)
  - Russell Road over Des Plaines River (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 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









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## **Priority Two: Modernization**



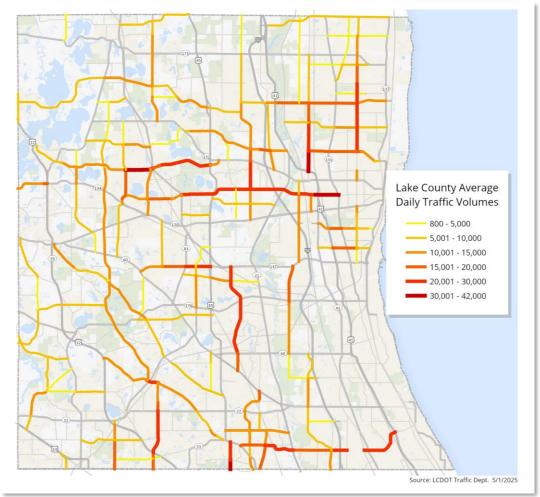
- Project selection tools:
  - Traffic and safety analysis
  - Level of Service (LOS) data
  - PASSAGE data
  - 2040 bike and pedestrian priorities
  - Non-motorized policy
  - Bike/Pedestrian gap analysis
  - Shared-use path usage data
- Typical projects include:
  - Intersection and safety improvements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



### **Traffic Volumes**



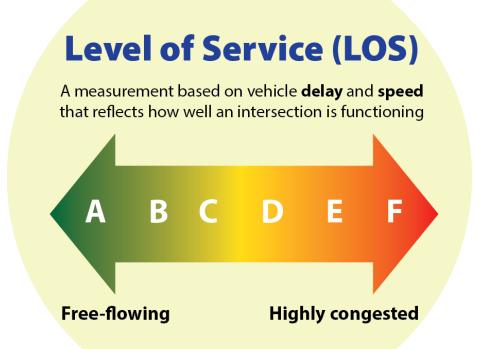
- County highway network of 300+ center line miles
- Carries average of 3.5 million daily vehicle miles



### **Level of Service Data**



County involved signalized intersections and roundabouts



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

• Roundabouts (9 total)						
	Level of Service	AM Peak Hour	PM Peak Hour			
(best)	Α	6	5			
	В	0	1			
	С	0	0			
	D	0	0			
	Е	0	0			
(worst)	F	0	0			
N/A		3	3			

Source: LCDOT Traffic Department 4/2025

<ul> <li>Signalized intersections (320 total)</li> </ul>					
	Level of Service	AM Peak Hour	PM Peak Hour		
(best)	Α	74	53		
	В	82	75		
	С	99	106		
	D	40	44		
	E	6	18		
(worst)	F	16	21		
	N/A	3	3		

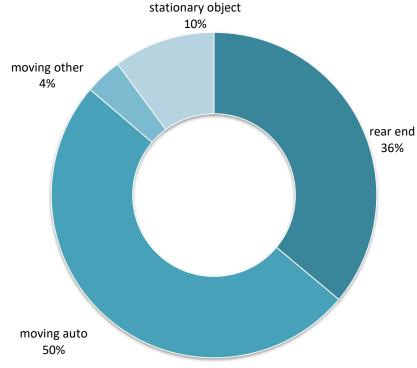
Source: LCDOT Traffic Department 4/2025

## **Crash Data 2022 Summary (most current)**

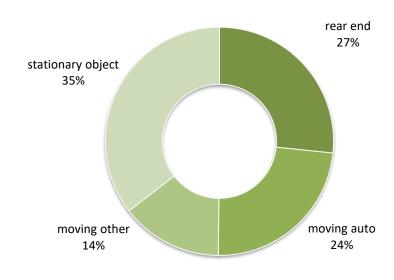


#### Crashes at intersections

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**

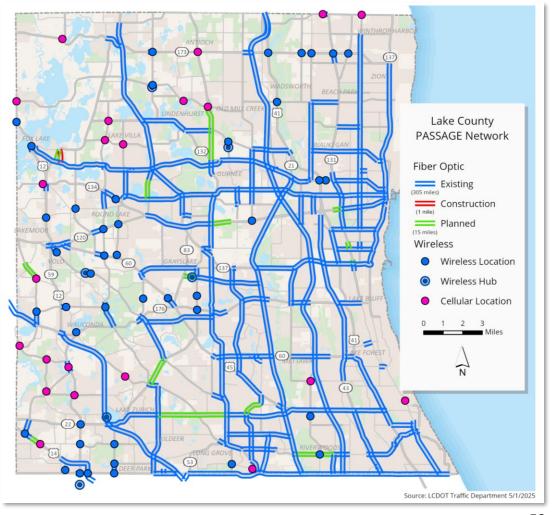


5-year averages	2010- 2014	2011- 2015	2012- 2016	2013- 2017	2014- 2018	2015- 2019	2016- 2020	2017- 2021	2018- 2022	2019- 2023
Number of crashes	3530	3671	3896	4182	4381	4465	4247	3996	3720	3475
Fatality	8	7	8	10	13	14	16	15	16	15
Crash with injury	978	1003	1116	1265	1385	1395	1406	1366	1301	1270
Property damage only	2544	2660	2743	2836	2874	2909	2749	2653	2574	2503

## Lake County's Traffic Signal and Communication Network



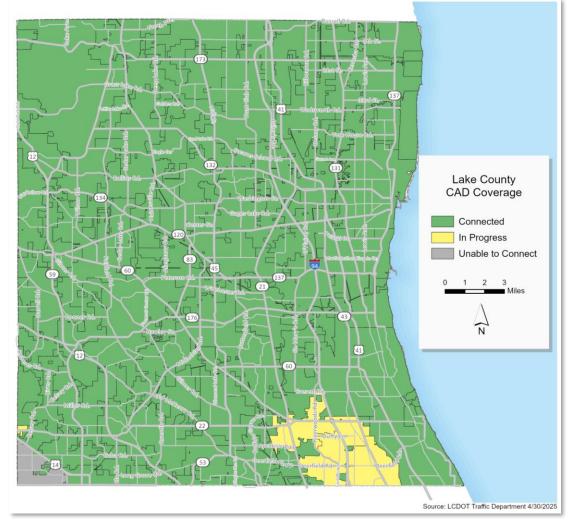
- 301 miles of fiber optic in place
- 11 miles planned
- 677 traffic signals connected
- 467 PTZ Cameras
- 1 portable PTZ (cell)
- 9 portable changeable message board signs



## 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*



### What's New in Modernization?

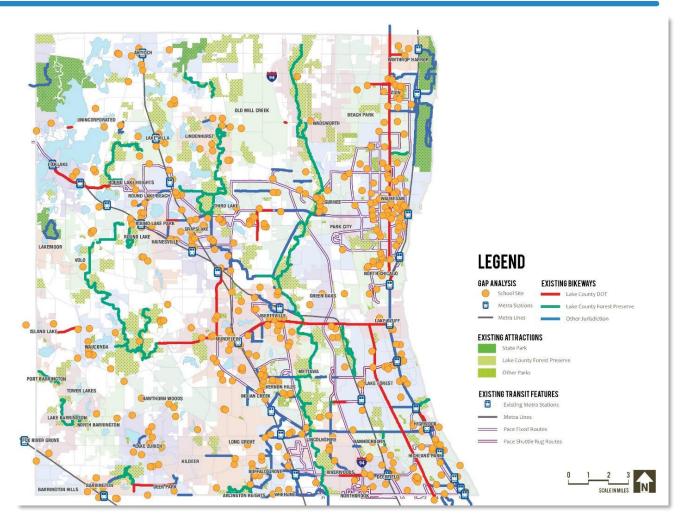


- Corridor Improvement Projects:
  - Bonner Road (Darrell Road to Fairfield Road)
  - Gages Lake Road (US45 to IL21)
  - Cedar Lake Road (IL120 to IL60)
- Intersection Improvement Projects:
  - Rollins Road at Wilson Road
  - Center Street at Atkinson Street
  - River Road at Roberts Road (roundabout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

## Path and Sidewalk Gap Analysis



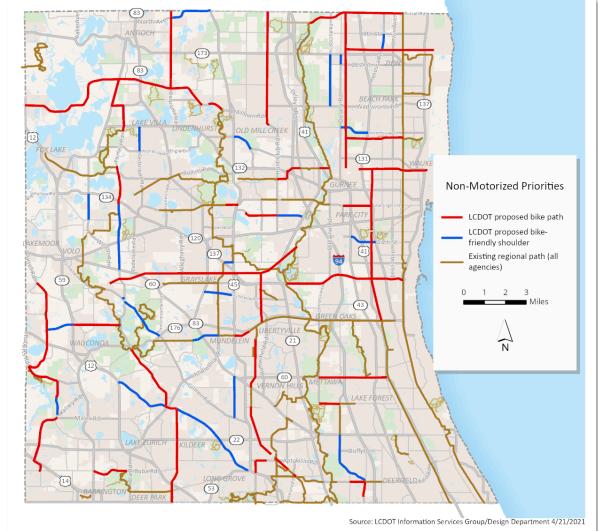
- 2010 study identified
   60 priority gaps would
   provide regional connectivity
- County pays 100% of cost to fill gaps with local sponsor to own and maintain
- To date, 85% have been programmed or completed



### **Bike and Pedestrian Priorities**



- Lake County's 2040 Nonmotorized 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



## **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
  - Countywide Paratransit





## **Regional Plans**







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## **Additional Project Highlights**

## Project Highlight: Safety Projects



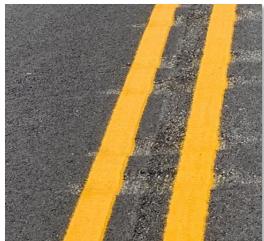
#### Rumble Strips

- 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.





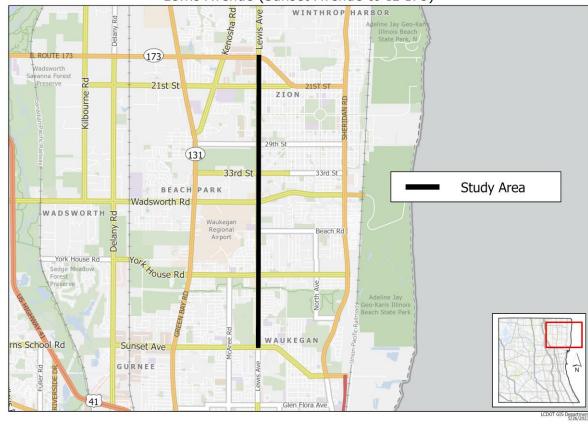


## Lewis Ave: Sunset Ave to IL 173



- 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)

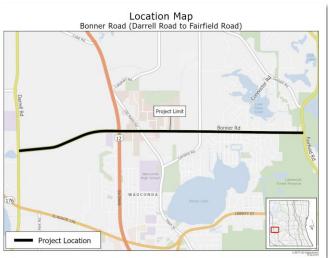


#### Project Highlight: Gages Lake Rd, Bonner Rd & Cedar Lake Rd



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



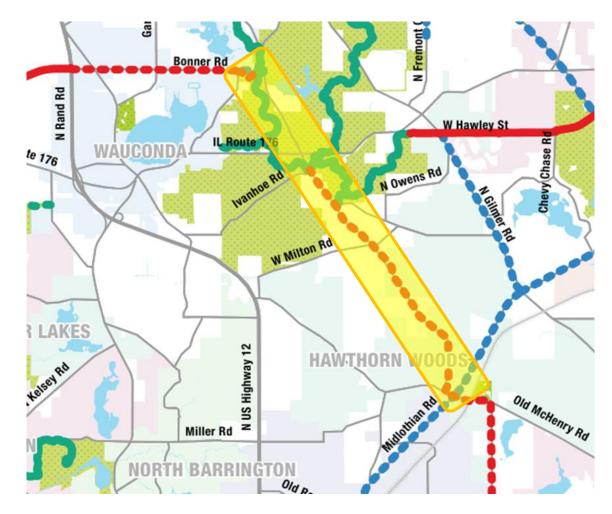




## **Non-motorized Feasibility Study**



- 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



## **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 Street Gap – Buckingham Dr to Greenleaf St

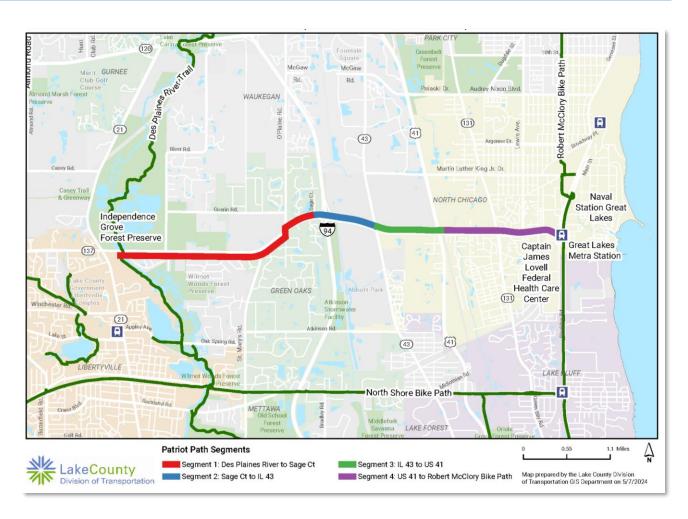


Washington Street Gap - US41 to IL131

### **Patriot Path**



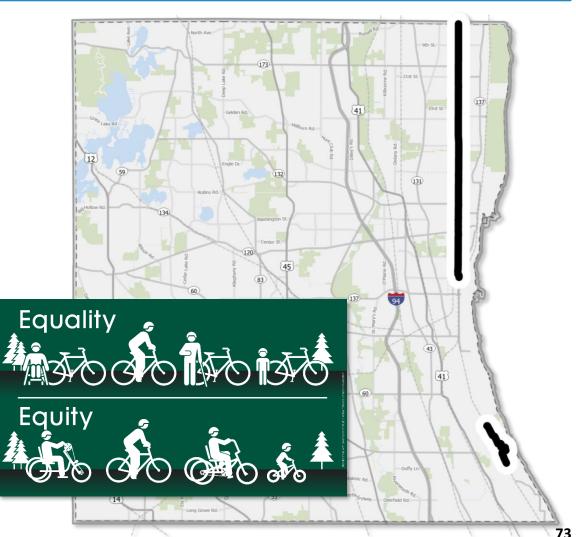
- Received state/federal design approval in May 2024
- 5.5-mile path that connects the Des Plaines River Trail to the Robert McClory Path
- Connects parks, forest preserves, employment centers and transit stops
- Segments 1 and 4 in Phase 2 Design, target Construction 2027
- Segments 2 and 3 began Phase
   Design in 2024



## **McClory Path**



- **Convert northern 11-mile segment** from gravel to pavement for improved rideability and maintenance (2025)
- Re-pave sections of southern segment
- **Drainage enhancements**
- Increase safety at uncontrolled roadway crossings (2027)
- Coordinate with local communities to enhance trail amenities and provide better mode options for all users (2027)



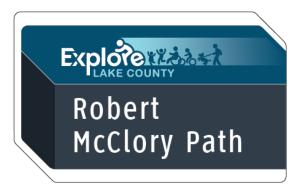
## Project Highlight: Wayfinding Signs



- 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





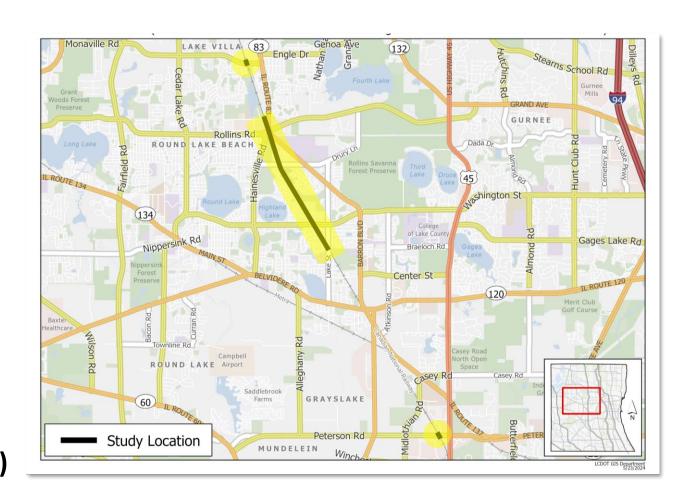


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## Project Highlight: **Grade Separations Feasibility Study**



- 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+)



## **Ride Lake County**



- Countywide Borderless Paratransit Service launched May 1, 2022
- Annual county funding covers 100% of local match
- Over 113,000 trips in the first three years (and growing)
- Nearly 2300 individual riders



**Program Sponsors:** 















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