

LCTA Annual Meeting

# Lake County Transportation Update

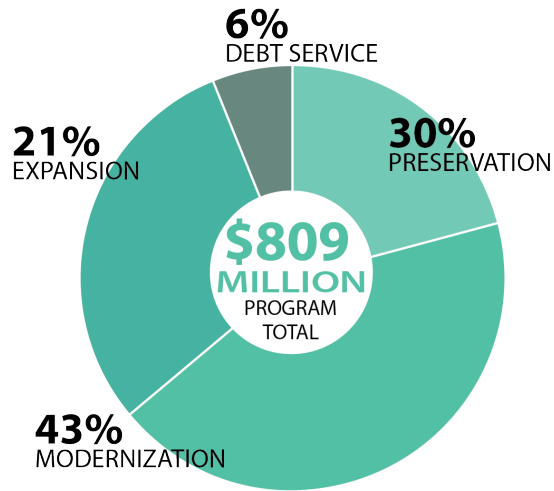
Adaptive Infrastructure: Advancing Safety,  
Technology, and  
Multi-Modal Improvements

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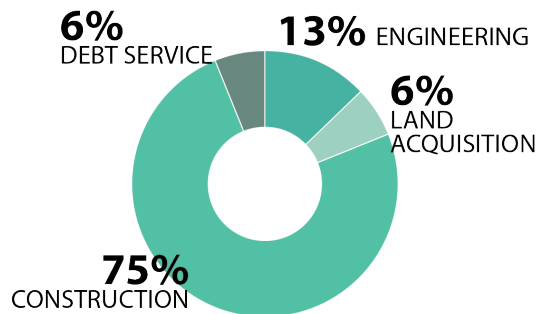
Shane E. Schneider, P.E.  
Director of Transportation | County Engineer  
Lake County Division of Transportation  
November 17, 2023

# Lake County's 2023-2028 Transportation Improvement Program

## PROGRAM BY WORK CATEGORY



## PROGRAM BY ACTIVITY



## ROADS AND BRIDGES

**\$103M**  
RESURFACING PROJECTS

48.1  
CENTERLINE  
MILES



27 INTERSECTION IMPROVEMENT  
PROJECTS

**\$96.7M**



**\$38M**  
7 NEW ROUNDABOUTS



1 RAILROAD GRADE  
SEPARATION  
2 RAILROAD GRADE  
SEPARATION  
FEASIBILITY STUDIES

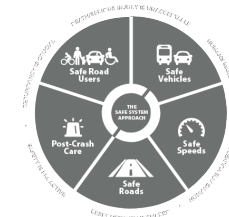


**\$8.9M**  
18 CULVERT REHAB  
OR REPLACEMENT

## TECHNOLOGY, SIGNALS, AND SAFETY INITIATIVES

**\$15.8M**  
Lake County  
**PASSAGE**  
ENHANCEMENTS

**\$1.4M**  
NEW SIGNALS AT  
2 INTERSECTIONS



**64.5 MILES**  
CENTER AND  
EDGE LINE  
RUMBLE STRIPS

## BIKE AND PEDESTRIAN ACCOMMODATIONS



**\$98M**  
(12% OF PROGRAM TOTAL)

- 14 MILES IMPROVED PATH
- 14 MILES SIDEWALK
- 32 MILES BIKE FRIENDLY SHOULDER
- 42 MILES NEW PATH



WAYFINDING  
SIGNAGE  
PROGRAM

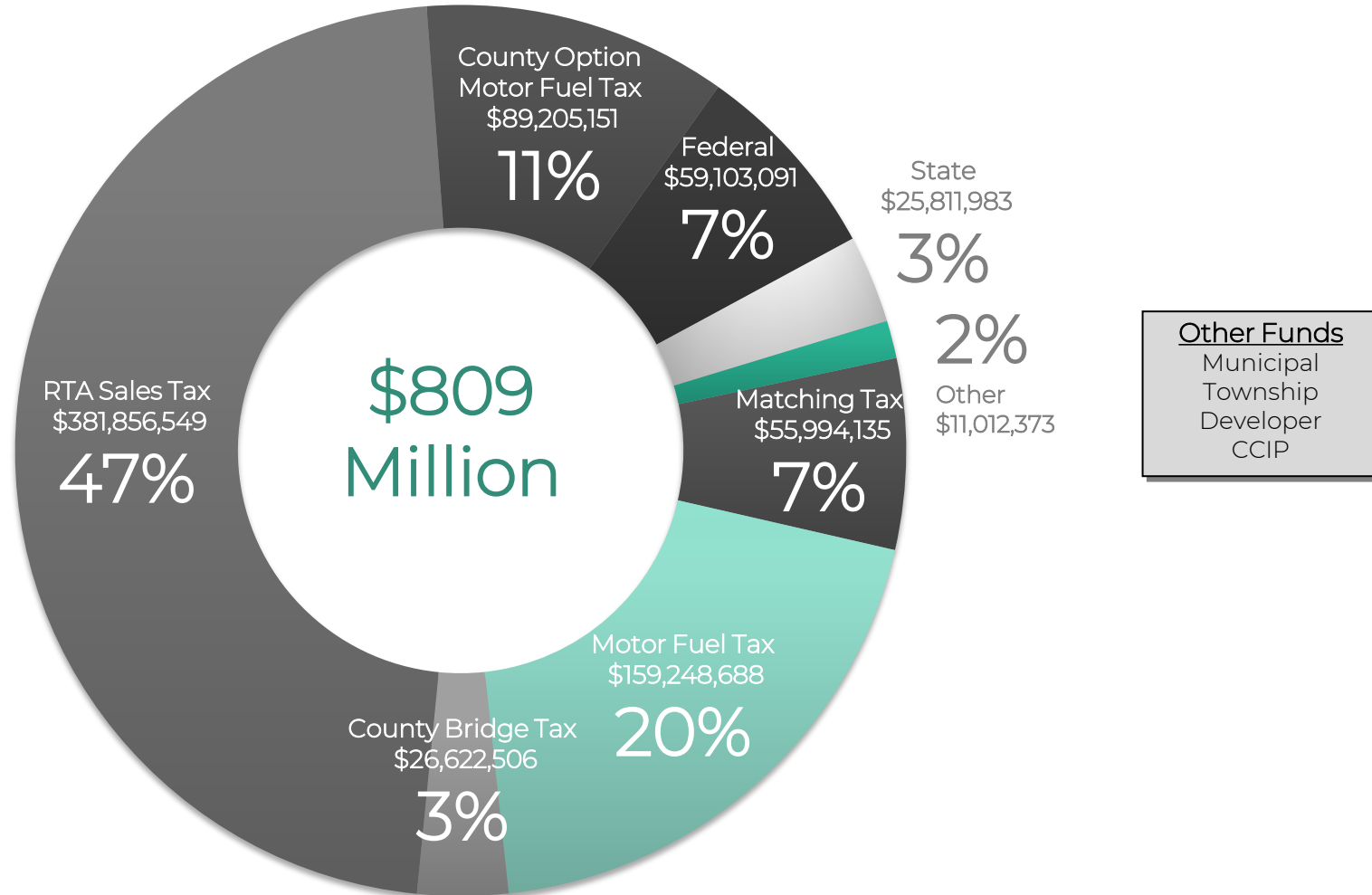
## RIDE LAKE COUNTY

EXPANDED  
COUNTYWIDE  
PARATRANSIT  
SERVICE

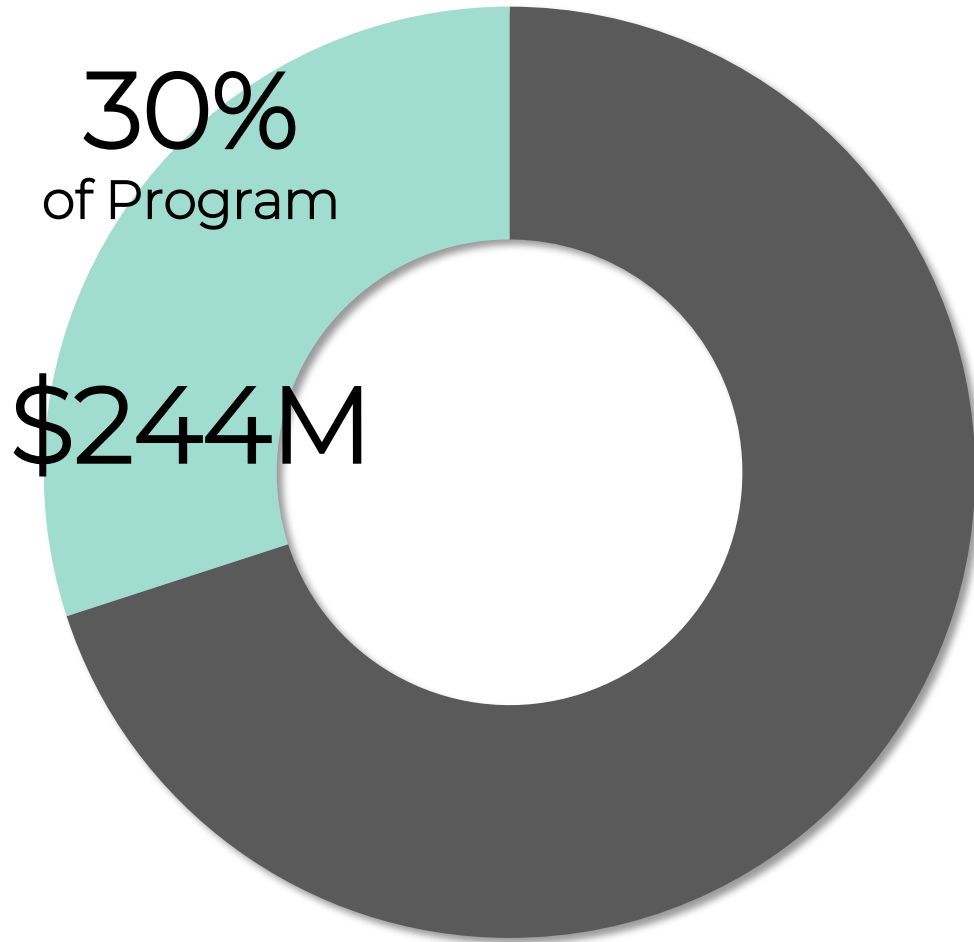


# Funding Sources | 2023-2028 Program

Lake County Division of Transportation



# Preservation

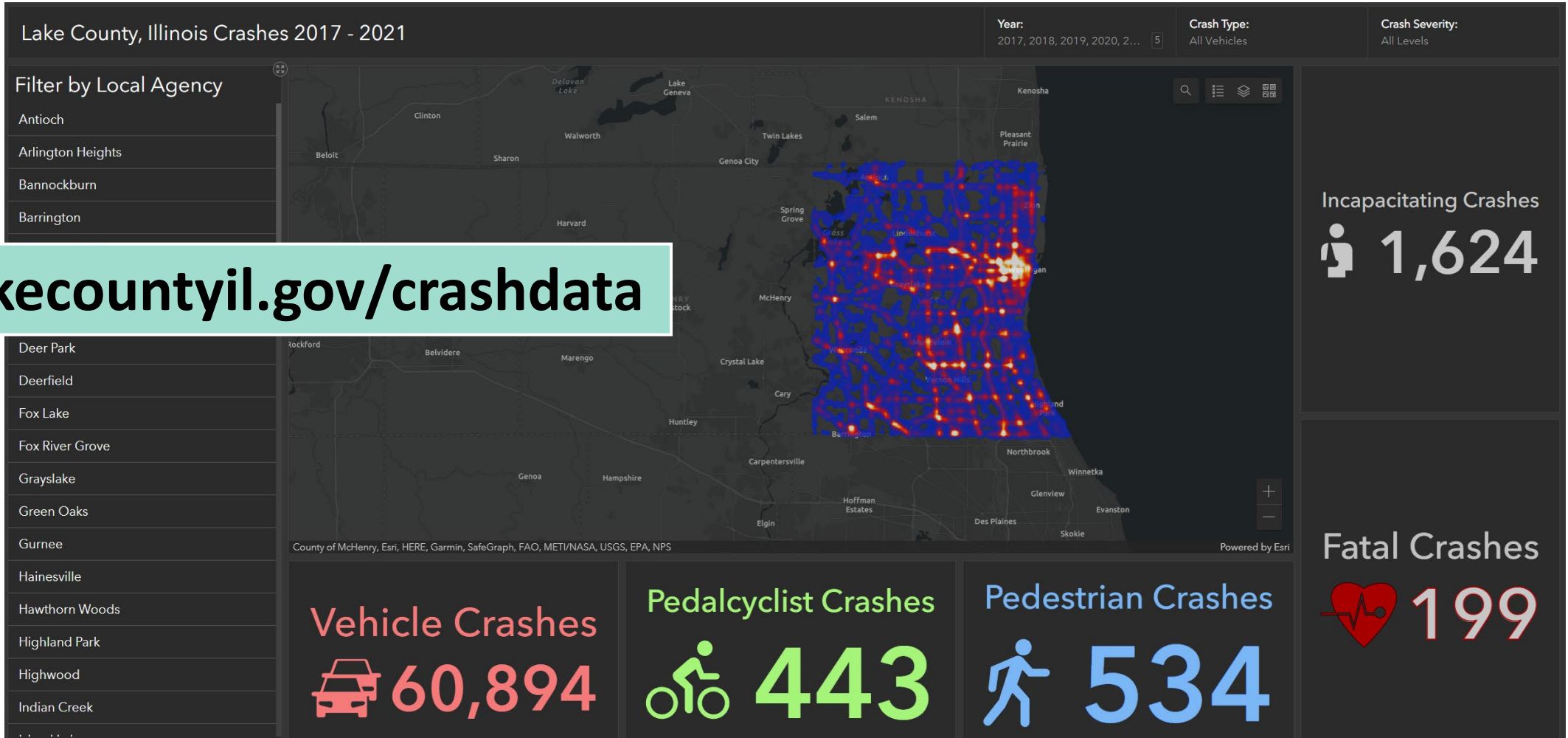


Route	Type	Program Year	Total Cost
21st Street	Highway/Road - Resurface (With No Lane Widening)	2026	\$703,000
22nd St./ MLK Jr. Dr.	Highway/Road - Resurface (With No Lane Widening)	2027	\$1,837,000
Arlington Heights Road	Highway/Road - Reconstruct in Kind	2023	\$17,957,017
Buffalo Grove Road	Highway/Road - Reconstruct in Kind	Post-2028	\$825,000
Butterfield Road	Highway/Road - Resurface (With No Lane Widening)	2024	\$2,734,000
Cedar Lake Road	Highway/Road - Resurface (With No Lane Widening)	2026	\$1,726,000
Cuba Road	Highway/Road - Resurface (With No Lane Widening)	2027	\$2,723,200
Culvert Replacements 2024	Culvert - Replacement	2024	\$860,000
Darrell Road	Highway/Road - Resurface (With No Lane Widening)	2026	\$3,993,000
Deep Lake Road	Highway/Road - Resurfacing, restoration, and rehabilitation (3R)	2023	\$8,392,944
Deerfield Parkway	Maintenance - Pavement Patching	2024	\$580,000
Delany Road	Culvert - Replacement	2026	\$7,025,000
Duffy Lane	Highway/Road - Resurfacing, restoration, and rehabilitation (3R)	2028	\$6,224,023
Fairfield Road	Highway/Road - Resurfacing, restoration, and rehabilitation (3R)	2025	\$5,100,000
Fairfield Road	Culvert - Replacement	2023	\$1,050,000
Fairfield Road	Highway/Road - Resurface (With No Lane Widening)	2023	\$3,000,000
Fairfield Road	Highway/Road - Resurface (With No Lane Widening)	2024	\$2,150,000
Gilmer Road	Highway/Road - Resurface (With No Lane Widening)	2024	\$7,871,517
Grass Lake Road	Safety - Pavement Marking	2024	\$4,250,000
Hunt Club Road	Highway/Road - Resurface (With No Lane Widening)	2023	\$3,197,839
Hutchins Road	Highway/Road - Resurface (With No Lane Widening)	2026	\$825,000
Kelsey Road	Culvert - Replacement	2022	\$390,714
Kilbourne Road	Highway/Road - Intersection Improvement and Resurfacing	2023	\$4,556,954
Lewis Avenue	Highway/Road - Reconstruct with Change in Use or Width of Lane	Post-2028	\$18,379,381
Monaville Road	Highway/Road - Resurface (With No Lane Widening)	2026	\$2,046,000
North Avenue	Highway/Road - Resurface (With No Lane Widening)	2028	\$2,121,000
O'Plaine Road	Highway/Road - Resurface (With No Lane Widening)	2028	\$3,572,809
Old McHenry Road	Highway/Road - Resurface (With No Lane Widening)	2024	\$4,200,000
Pulaski Drive	Highway/Road - Resurface (With No Lane Widening)	2025	\$1,338,000
Riverwoods Road	Highway/Road - Resurface (With No Lane Widening)	2027	\$5,300,000
Riverwoods Road	Highway/Road - Resurfacing, restoration, and rehabilitation (3R)	2026	\$12,594,800
Rollins Road	Highway/Road - Resurface (With No Lane Widening)	2025	\$6,649,620
Russell Road	Highway/Road - Resurface (With No Lane Widening)	2024	\$1,100,000
Sand Lake Road	Maintenance - Miscellaneous	2024	\$100,000
St. Mary's Road	Highway/Road - Resurface (With No Lane Widening)	2028	\$3,442,000
Stearns School Road	Bridge/Structure - New	2023	\$1,701,666
Stearns School Road	Highway/Road - Resurface (With No Lane Widening)	2026	\$1,260,000
Wilson Road	Highway/Road - Resurface (With No Lane Widening)	2024	\$1,640,000
Winchester Road	Highway/Road - Resurface (With No Lane Widening)	2023	\$6,458,313

# Crash Dashboard

2017 – 2021 crash data

[lakecountyiil.gov/crashdata](http://lakecountyiil.gov/crashdata)



# Center and Edge Line Rumble Strips

A Safe System Approach

- Low-cost systemwide safety countermeasure intended to reduce roadway departures:
  - Run-off-road crashes
  - Head-on crashes
- Installed along two-lane county highways with posted speed limits of 45 mph and over (and other corridors with safety risk factors present)



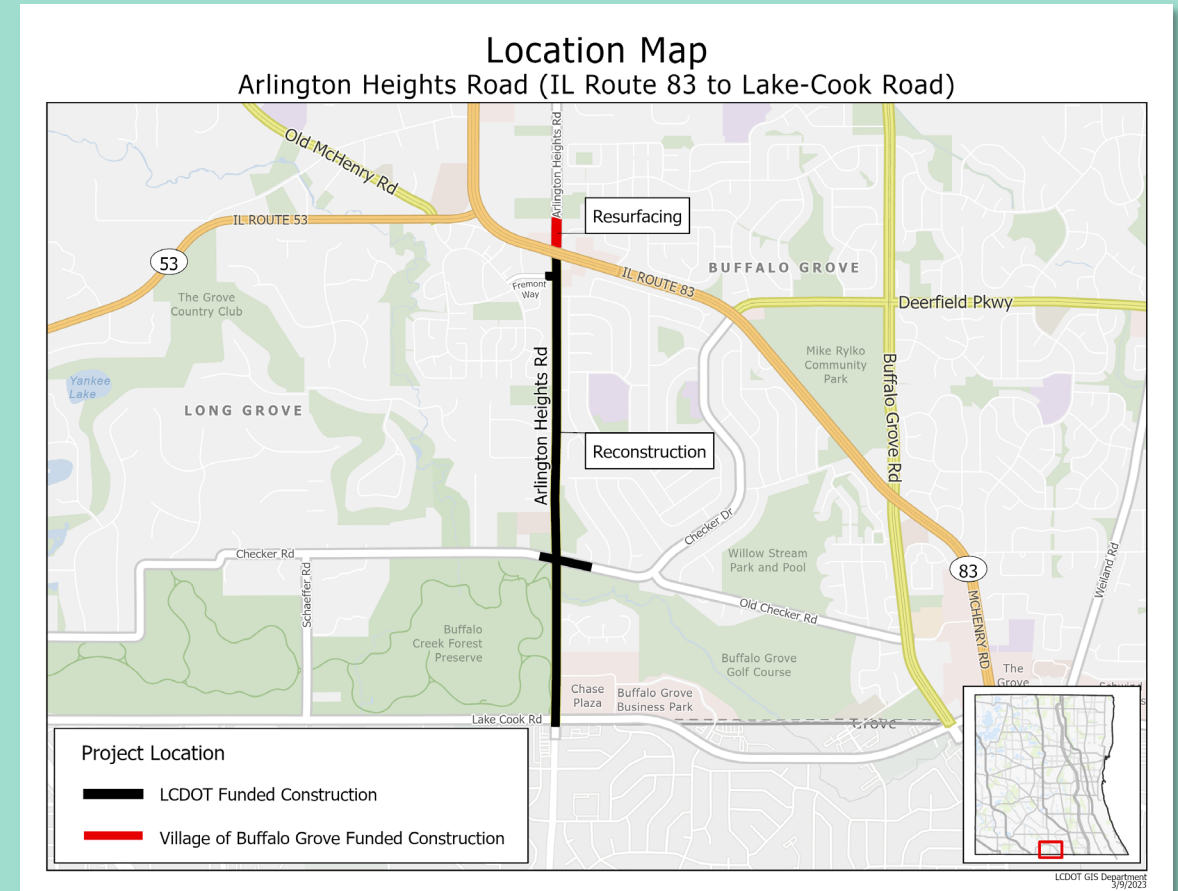
*"The sound of safety"*

*FHWA Report No. FHWA-SA-16-115*

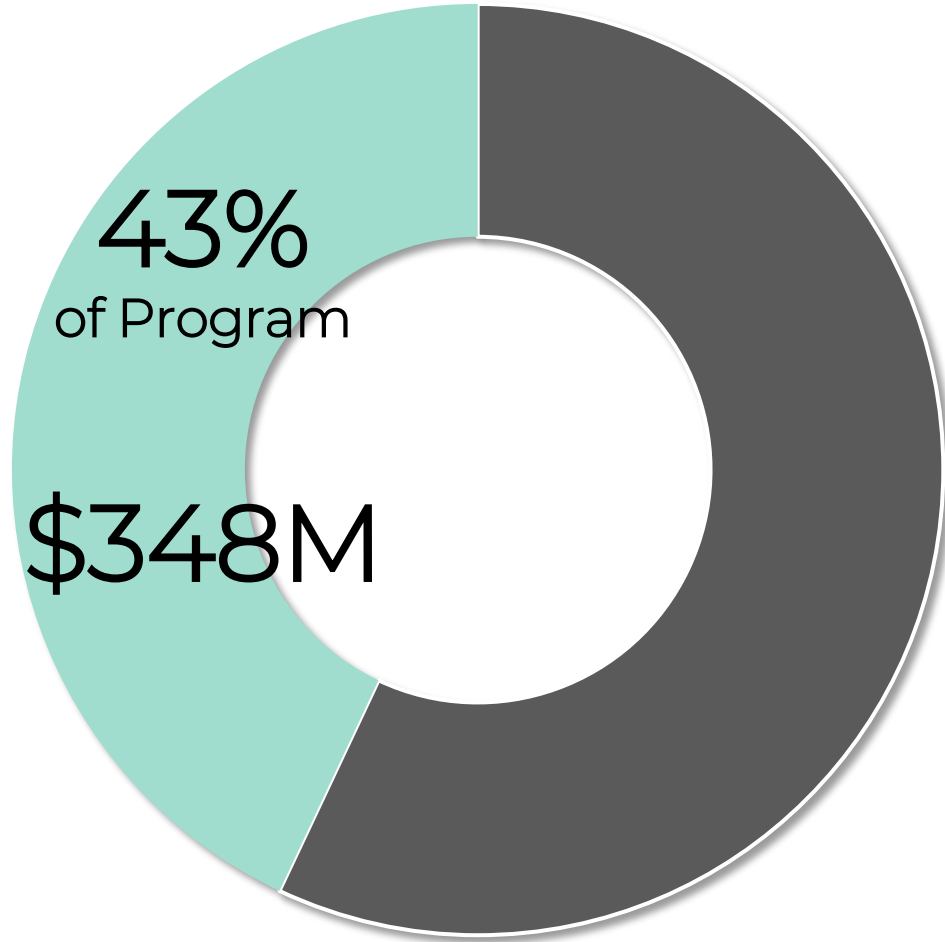
**ZERO IS OUR GOAL**  
A SAFE SYSTEM IS HOW WE GET THERE

# Arlington Heights Rd Reconstruction

- Project Cost: \$27M
- Carries nearly 30,000 vehicles per day
- Reconstructs 2-mile section of 5-lane, 40-year-old pavement and brings the roadway up to current design standards
- Fills non-motorized gaps near local schools, businesses and the Buffalo Creek Forest Preserve
- Target Construction 2024



# Modernization

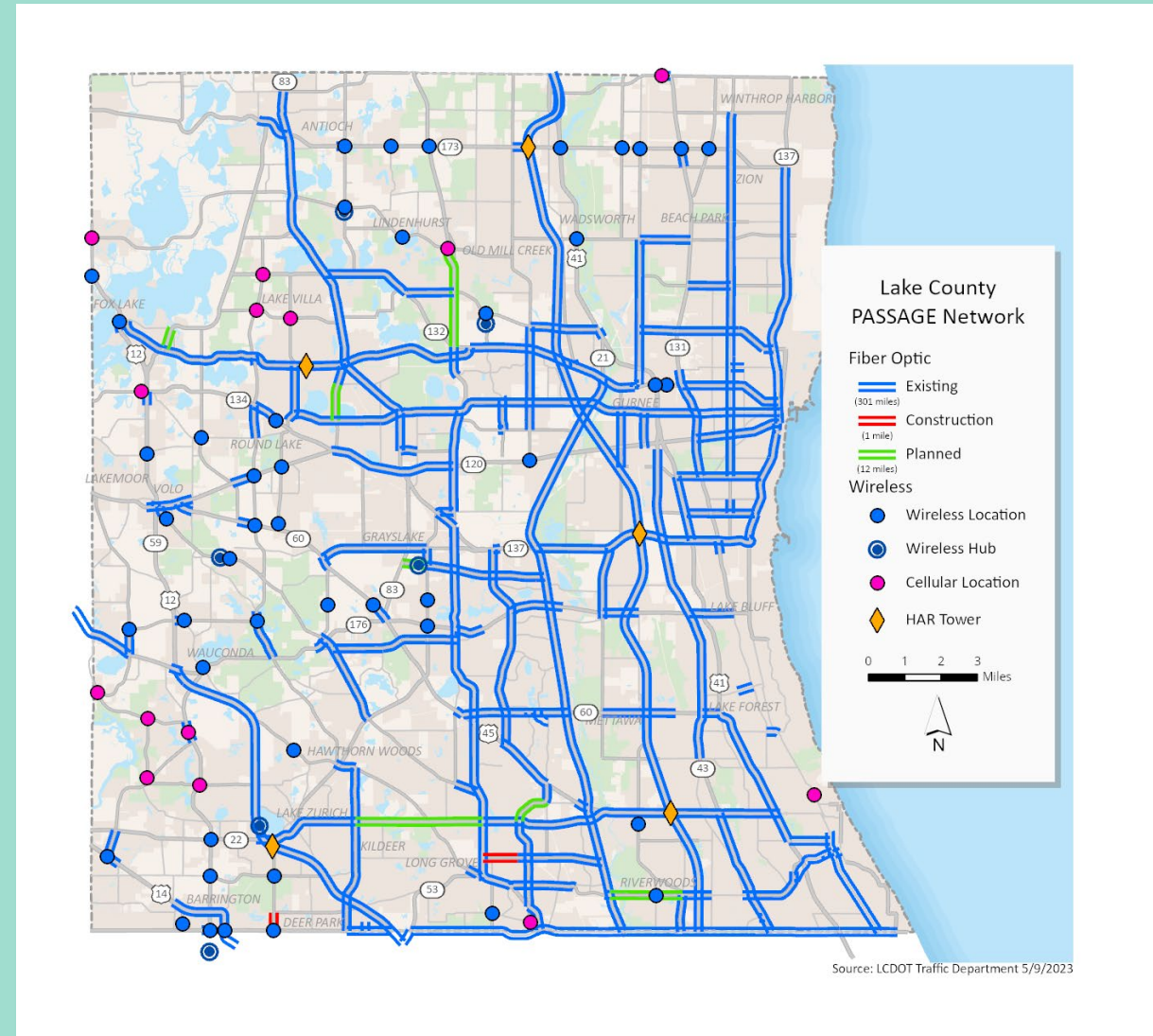


Route	Type	Program Year	Total Cost
Buffalo Grove Road	Highway/Road - Intersection Improvement	2028	\$19,000,000
Butterfield Road	New Shared Use Path	2023	\$2,904,971
Darrell Road	Highway/Road - Intersection Improvement	2026	\$3,400,000
Darrell Road	Highway/Road - New Roundabout	2023	\$7,994,239
Darrell Road	Highway/Road - New Roundabout	2023	\$10,140,000
Deep Lake Road	Highway/Road - New Roundabout	2024	\$10,732,570
Deerfield Parkway	Signals - Add Signals at Single Intersection	2025	\$860,000
Deerfield Road	Highway/Road - Continuous Bi-Directional Turn Lanes	2024	\$42,178,792
Dilley's Road	New Shared Use Path	2023	\$693,965
Ela Road	Highway/Road - Intersection Improvement	2022	\$3,397,186
Fairfield Road	Highway/Road - Corridor Improvement	Post-2028	\$6,401,400
Gilmer Road	Highway/Road - Intersection Improvement	2021	\$3,458,654
Hainesville Road	Highway/Road - Continuous Bi-Directional Turn Lanes	2024	\$26,380,248
Hunt Club	Highway/Road - Intersection Improvement	Post-2028	\$3,400,000
Hunt Club Road	Highway/Road - Intersection Improvement	2023	\$18,337,532
IL Route 59	Highway/Road - Intersection Improvement	2023	\$12,512,858
Kenosha Road	Highway/Road - New Roundabout	2025	\$3,540,526
Lake-Cook Road	New Shared Use Path	2026	\$6,517,223
Lewis Avenue	Highway/Road - Reconstruct with Change in Use or Width of Lane	Post-2028	\$2,750,000
Miller Road	Highway/Road - Intersection Improvement	2023	\$3,275,610
Monaville Road and Peterson Road	Highway/Road - Railroad Grade Separation Feasibility Study	Post-2028	\$1,123,215
Patriot Path	New Shared Use Path	2026	\$11,808,764
Patriot Path	New Shared Use Path	2028	\$8,306,400
Patriot Path	New Shared Use Path	2028	\$1,289,100
Patriot Path	New Shared Use Path	2025	\$6,800,800
Prairie Road	Highway/Road - Intersection Improvement	2025	\$6,267,000
Robert McClory Bike Path	Improve Shared Path Facility	2025	\$5,650,000
Rollins Road	Highway/Road - Continuous Bi-Directional Turn Lanes	2026	\$21,109,047
Russell Road	Highway/Road - Intersection Improvement	2025	\$2,785,141
Russell Road	Highway/Road - New Roundabout	2024	\$9,070,000
Stearns School Road	Highway/Road - Intersection Improvement	2023	\$4,148,534
Sunset Avenue	Signals - Add Signals at Single Intersection	2025	\$510,000
Wadsworth Road	Highway/Road - Intersection Improvement	2024	\$4,046,270
Wadsworth Road	Highway/Road - Continuous Bi-Directional Turn Lanes	2026	\$28,336,768
Washington Street	Highway/Road - Intersection Improvement	2028	\$6,400,000
Washington Street	New Shared Use Path	2024	\$3,184,306
Winchester Road	Highway/Road - Intersection Reconstruction	2023	\$3,823,135
York House Road	Highway/Road - Continuous Bi-Directional Turn Lanes	2027	\$18,317,281



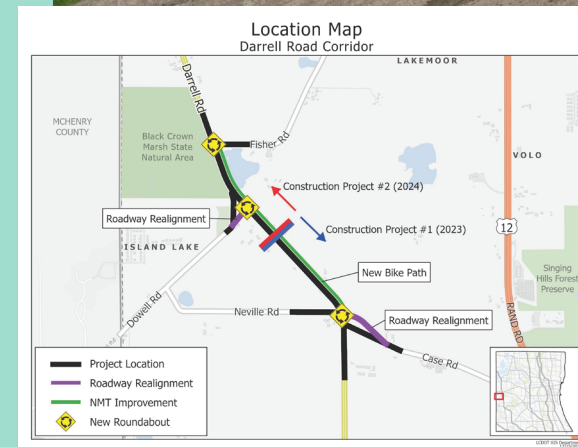
# Lake County PASSAGE

- 300+ miles of fiber optic cable
- 670+ traffic signals connected
- 460 PTZ cameras
- Monitor traffic in real-time, and make needed adjustments remotely from the Traffic Management Center
- Live video feeds to traffic engineers and dispatchers/first responders
- Regional signal timing schemes for major events
- Adaptive traffic signal corridor testing
- Connected vehicle demonstration project (in development)



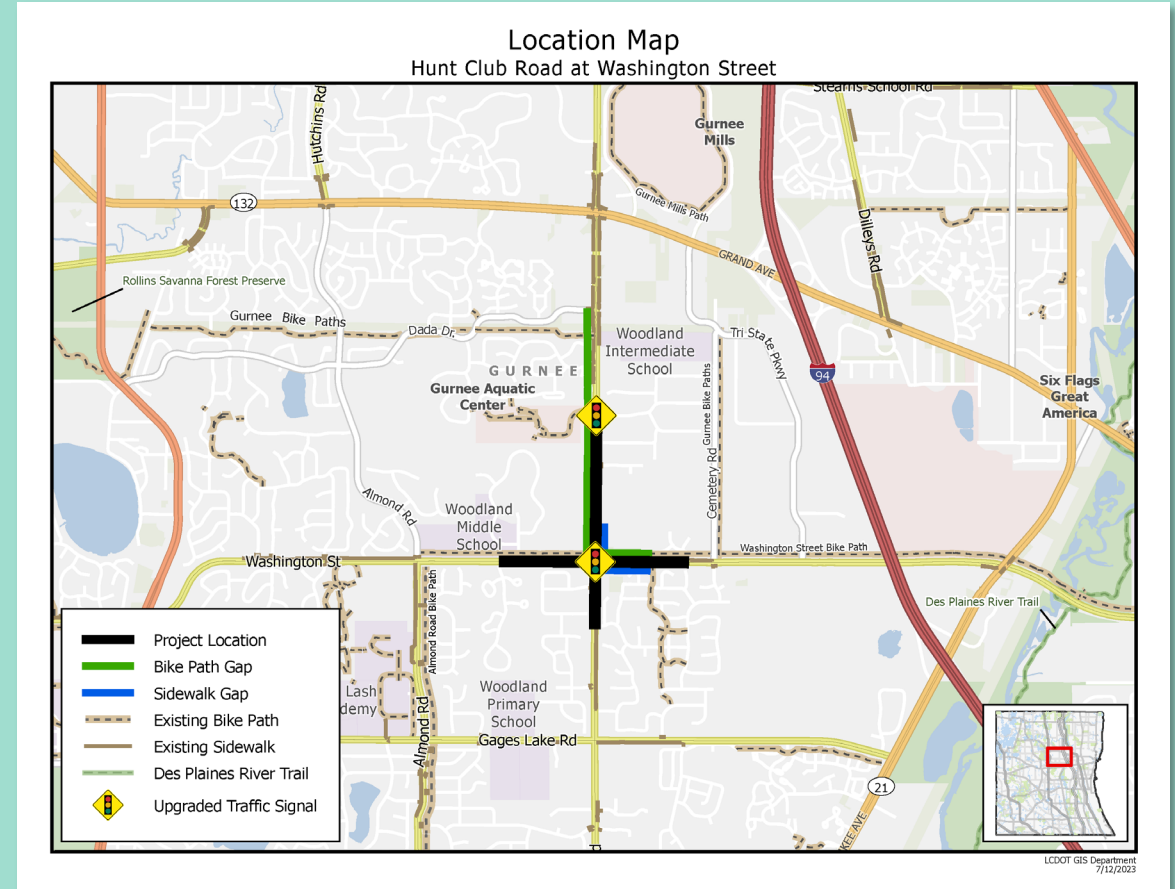
# Darrell Rd Roundabout Corridor

- Project Cost: \$21M
- The project installs 3 new roundabouts (Neville/Case, Dowell, Fisher) to improve mobility and enhance safety
- A portion of Grand Illinois Trail will be built as part of the project
- Construction of the Neville/Case roundabout is complete and the remaining two planned in 2024
- Roundabouts reduce crashes by 75% at intersections where stop signs or signals were previously used



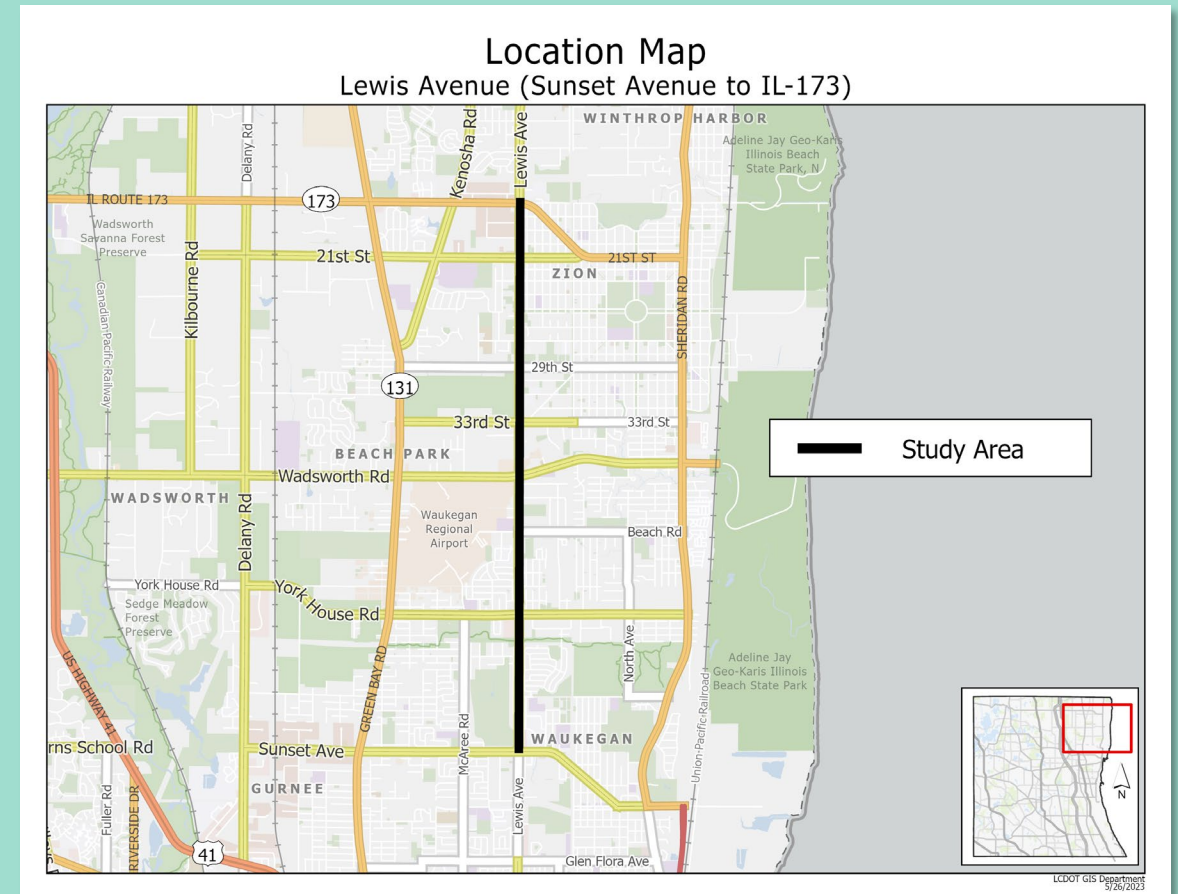
# Hunt Club Rd at Washington St Intersection

- Project Cost: \$20M
- Moves 60,000 daily vehicles (highest volume on LCDOT's system)
- 212 crashes with 91 injuries over 5-year study
- Enhances safety with protected left turn lanes, right-turn lanes, and barrier medians
- Fills non-motorized gaps to Des Plaines River Trail, Millennium Trail, Gurnee Mills, Six Flags
- Target Construction 2024/2025



# 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
- 877 crashes (322 injury crashes) over 5-year study period
- Plan to submit **Safe Streets and Roads for All (SS4A)** implementation grant (federal IIJA funds)



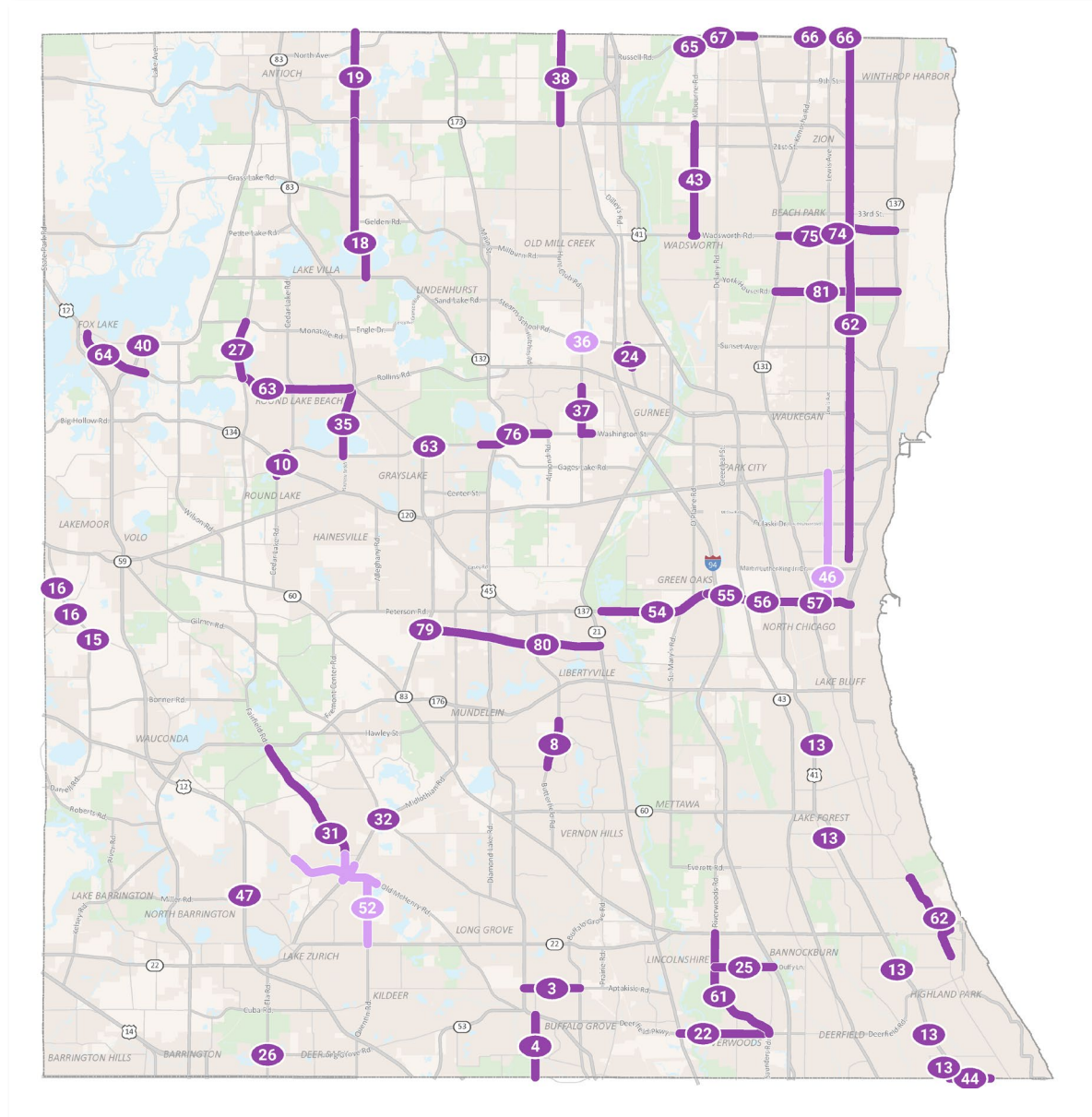
# Non-motorized / Active Transportation

## \$98 Million Planned Investment

- 31.5 miles of paved shoulder
- 55.7 miles of bike path
- 14.3 miles of sidewalk

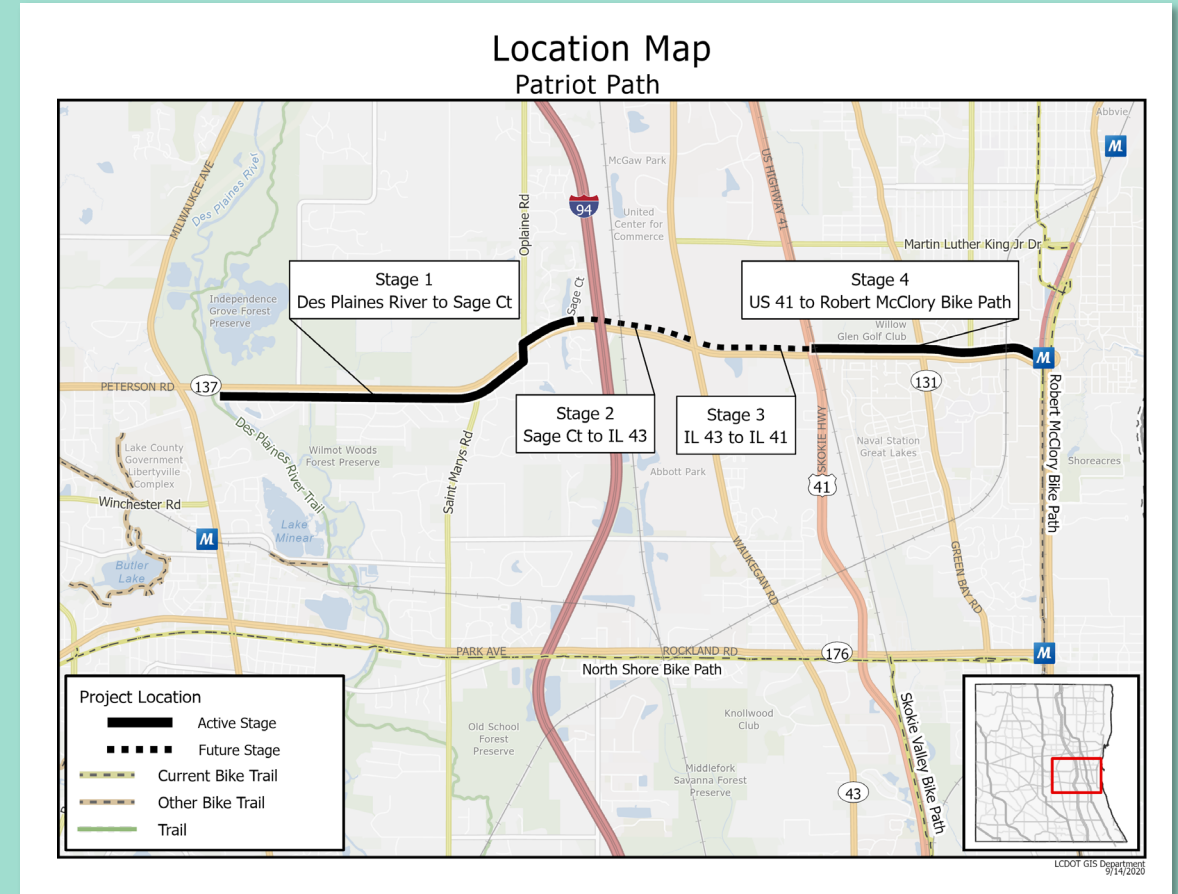
- Fully Programmed
- Partially Programmed

0 2 4 6 Miles



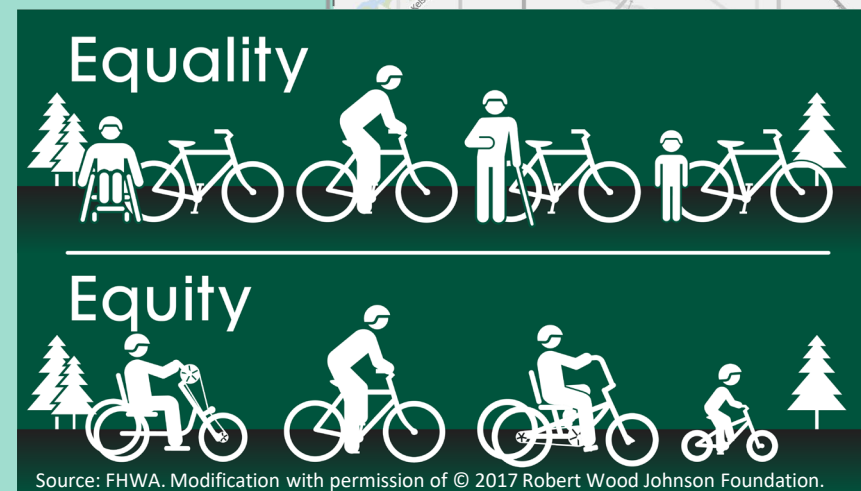
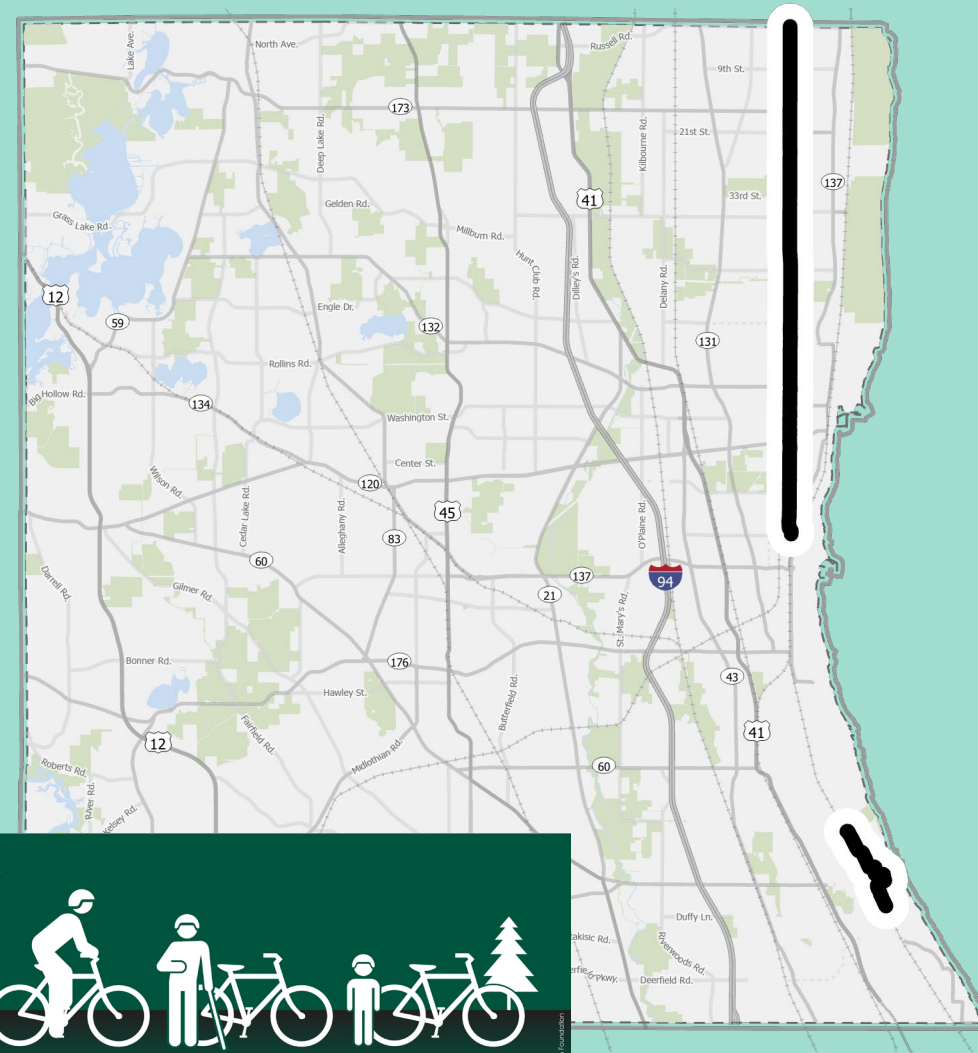
# Patriot Path

- Project Cost: \$30M
  - Secured \$4.4M ITEP; \$3M TAP
- Constructs 5.5 miles of bike path along IL137, connecting the Des Plaines River Trail (Libertyville) to the Robert McClory Bike Path (North Chicago)
- Provides new opportunities for alternate travel modes
- Enables access to key destinations including transit stops, open space, and employment centers
- Targeting 2025 construction for Stage 1 and Stage 4



# McClory Bike Path / US Bike Route 37

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



Source: FHWA. Modification with permission of © 2017 Robert Wood Johnson Foundation.

# Bike Path Wayfinding Signs

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- Installing Explore Lake County Wayfinding Signage
  - North Shore Path
  - Robert McClory Path
  - Skokie Valley Path
  - Others soon
- Route identification with key destinations, distances and mile markers
- LCDOT sign shop is completing fabrication and installation of the 870+ wayfinding signs

View Wayfinding Guide:

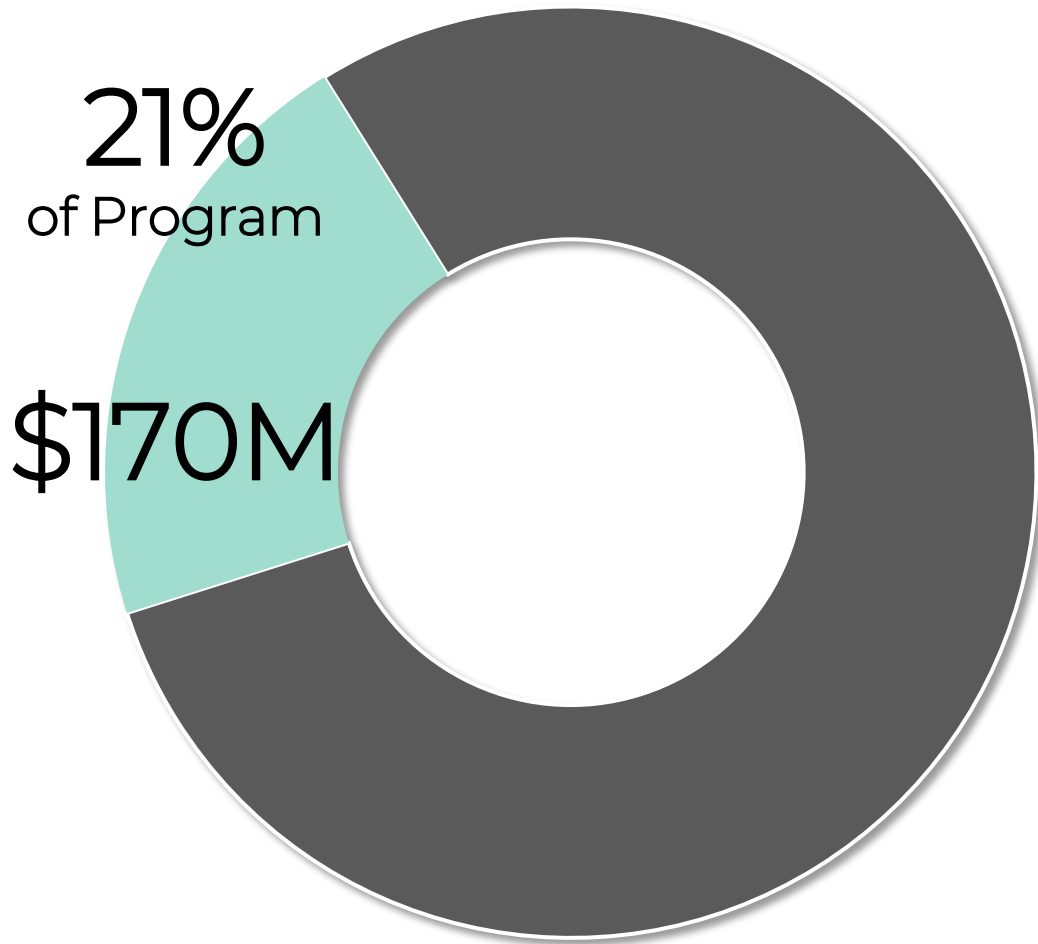
[lakecountyiil.gov/4171/Bike-Path-Wayfinding-and-Signage-Study](http://lakecountyiil.gov/4171/Bike-Path-Wayfinding-and-Signage-Study)





# Expansion

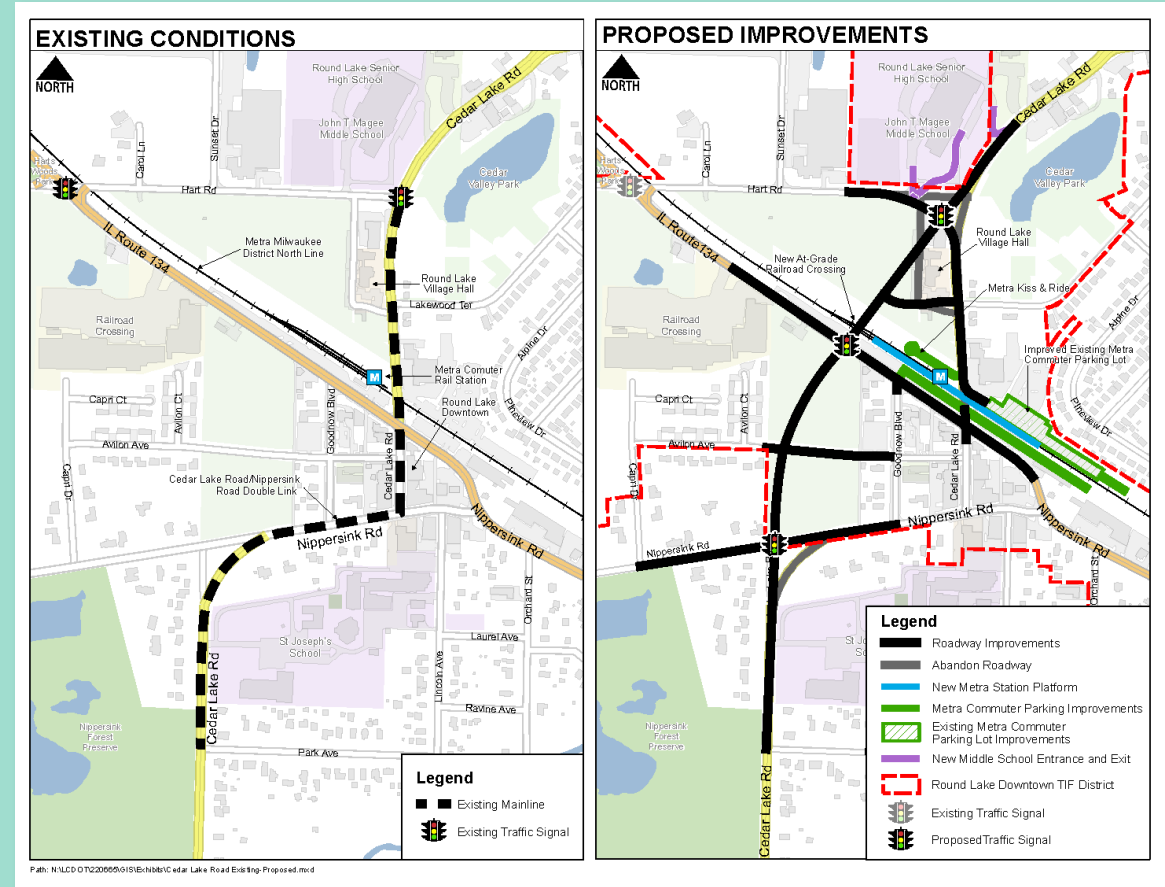
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Route	Type	Program Year	Total Cost
Aptakistic Road	Highway/Road - Add Lanes	2023	\$14,904,780
Buffalo Grove Road	Highway/Road - Add Lanes	2026	\$20,516,987
Cedar Lake Road	Highway/Road - New Road	2025	\$34,842,061
Old McHenry Road	Highway/Road - Railroad Grade Separation	2025	\$52,270,022

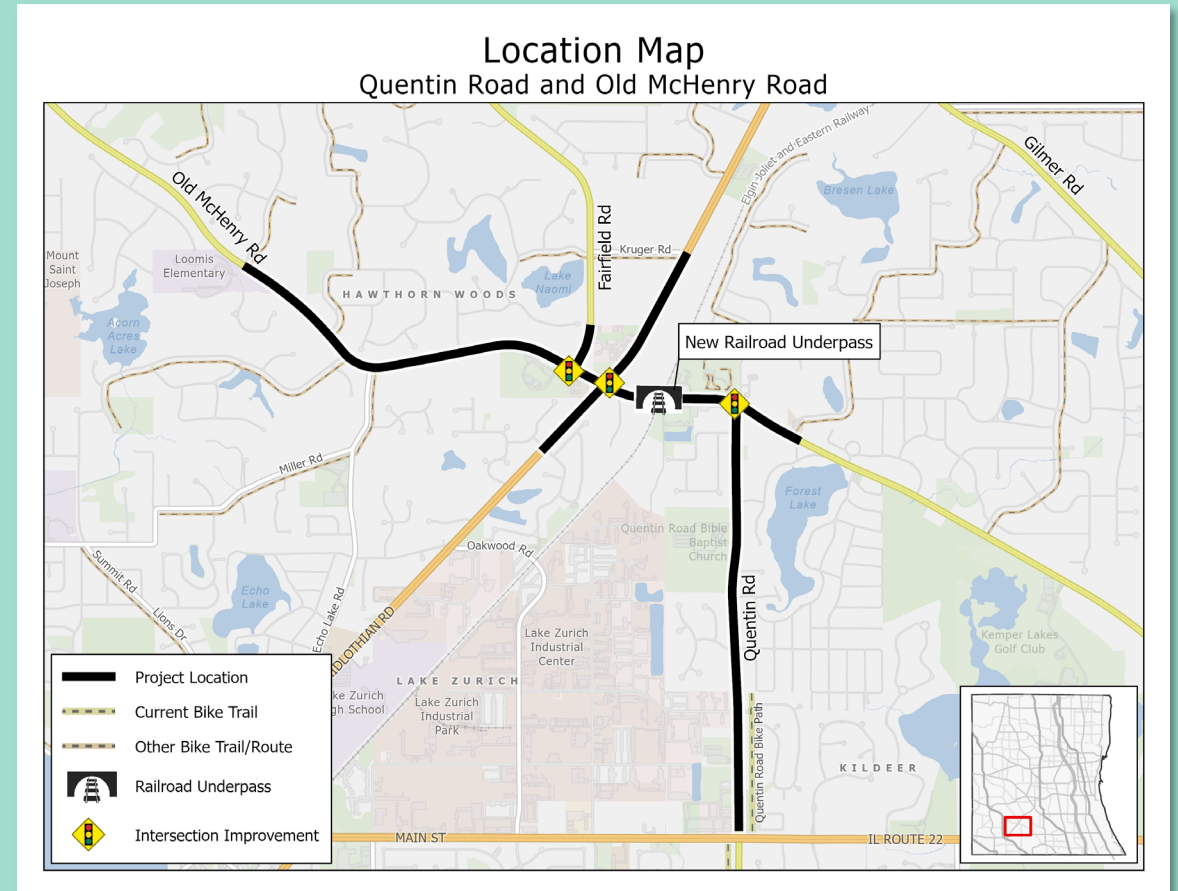
# Cedar Lake Rd Realignment

- Project Cost: \$37M
- Realigns Roadway
- Round Lake Metra Station modernization
  - Boarding platforms
  - Warming shelters
  - Parking lot/Bus parking
- Relocates railroad siding
- Expands sidewalk and bike path connections to downtown business district and fills a key gap on Millennium Trail



# Old McHenry Crossings

- Project Cost: \$148M
- Around 30,000 vehicles use corridor daily
- Over 20 daily freight trains increase congestion for motorists, school buses, and emergency responders
- Ongoing engineering study evaluates roadway, intersection and non-motorized improvements, including a road/rail grade separation



# Project Tracker

## Online Resource – 5 Year Program Details

### Project Filters

Project Type: All | Funding Source: All | Year Programmed: 2023, 2024, 2025, 2026

129 Projects

ID	Municipality	Lead Agency	Project Title	Project Type	Funding Source
B-01002a	North Chica...	LCDOT	14th Street ...	Highway/Ro...	County, Fed...
B-01548b	Wadsworth	LCDOT	21st Street ...	Culvert - Re...	County
23-26	Zion	LCDOT	21st Street ...	Highway/Ro...	County
23-29	North Chica...	LCDOT	22nd St/ML...	Highway/Ro...	County
B-00739a	Buffalo Grove	LCDOT	Aptakisis Ro...	Highway/Ro...	County
B-01182	Buffalo Grov...	LCDOT	Arlington He...	Highway/Ro...	County
B-01492	Fox Lake	LCDOT	Big Hollow ...	Highway/Ro...	County
B-0166					\$1,932,590
22-04					\$720,870
23-42					\$296,594
					\$375,000

Rows per page: 10 | 1-10 of 129

[lcdot.ecointeractive.com](http://lcdot.ecointeractive.com)

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

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

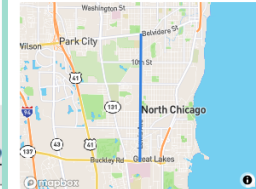
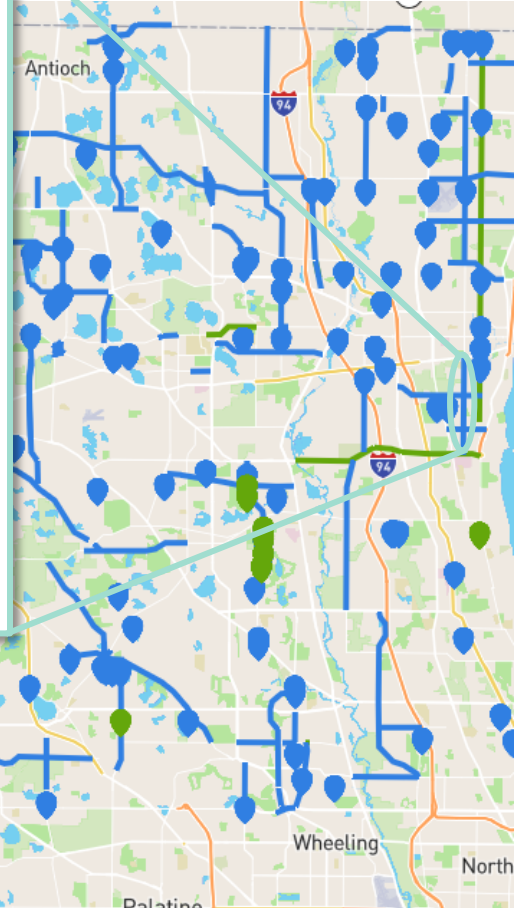
Lead Agency: LCDOT | Road/Road Name: Lewis Avenue | Municipality: North Chicago, Waukegan | Listing Date: 01/01/2027

Total Cost: \$53,363,933

Description: Reconstruction of Lewis Avenue with Road Diet south of Dugdale

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

PHASE	FUND SOURCE	PRIOR	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028
Preliminary Engineering	Motor Fuel Tax - County Option	\$245,052	\$2,237,243	-	-	-	-	-
Total Preliminary Engineering		\$245,052	\$2,237,243	-	-	-	-	-
Design Engineering	Motor Fuel Tax - County Option	-	-	\$2,400,000	-	-	-	-
Total Design Engineering		-	-	\$2,400,000	-	-	-	-
Right of Way	RTA 1/4% Sales Tax	-	-	-	\$1,250,000	-	-	-
Total Right of Way		-	-	-	\$1,250,000	-	-	-
Construction	Motor Fuel Tax - County Option	-	-	-	-	-	\$12,492,138	-
Construction	RTA 1/4% Sales Tax	-	-	-	-	-	-	-
Total Construction		-	-	-	-	-	\$12,492,138	-
Inspection/Construction	RTA 1/4% Sales Tax	-	-	-	-	-	-	-
Total Inspection/Construction		-	-	-	-	-	-	-
<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>	-

# Ride Lake County



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

- Countywide Borderless Paratransit Service
- Launched May 1, 2022
- Over 27,000 trips in the first year (and growing)
- Funding provided by Pace, Lake County, RTA (5310 grant funds)



Program Sponsors:



# Major State Projects Advancing in IDOT's Multi-Year Plan

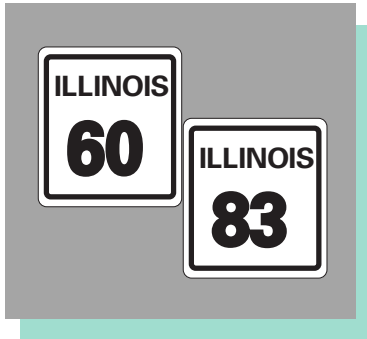


**US Route 41**

AT IL176

PHASE 2 UNDERWAY

**\$84M**



**IL Route 60/83**

IL176 to EJ&E Railroad  
(with grade separation)

PHASE 2 UNDERWAY

**\$142M**



**IL Route 131**

Sunset Ave to Wadsworth Rd

PHASE 2 UNDERWAY

**\$88M**



**US Route 45**

N of IL132 to Washington St

PHASE 2 UNDERWAY

**\$47M**



**IL Route 22**

Quentin Rd to IL83

PHASE 2 UNDERWAY

**\$82M**

LCTA Annual Meeting

**Thank you!**



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

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

847.377.7400