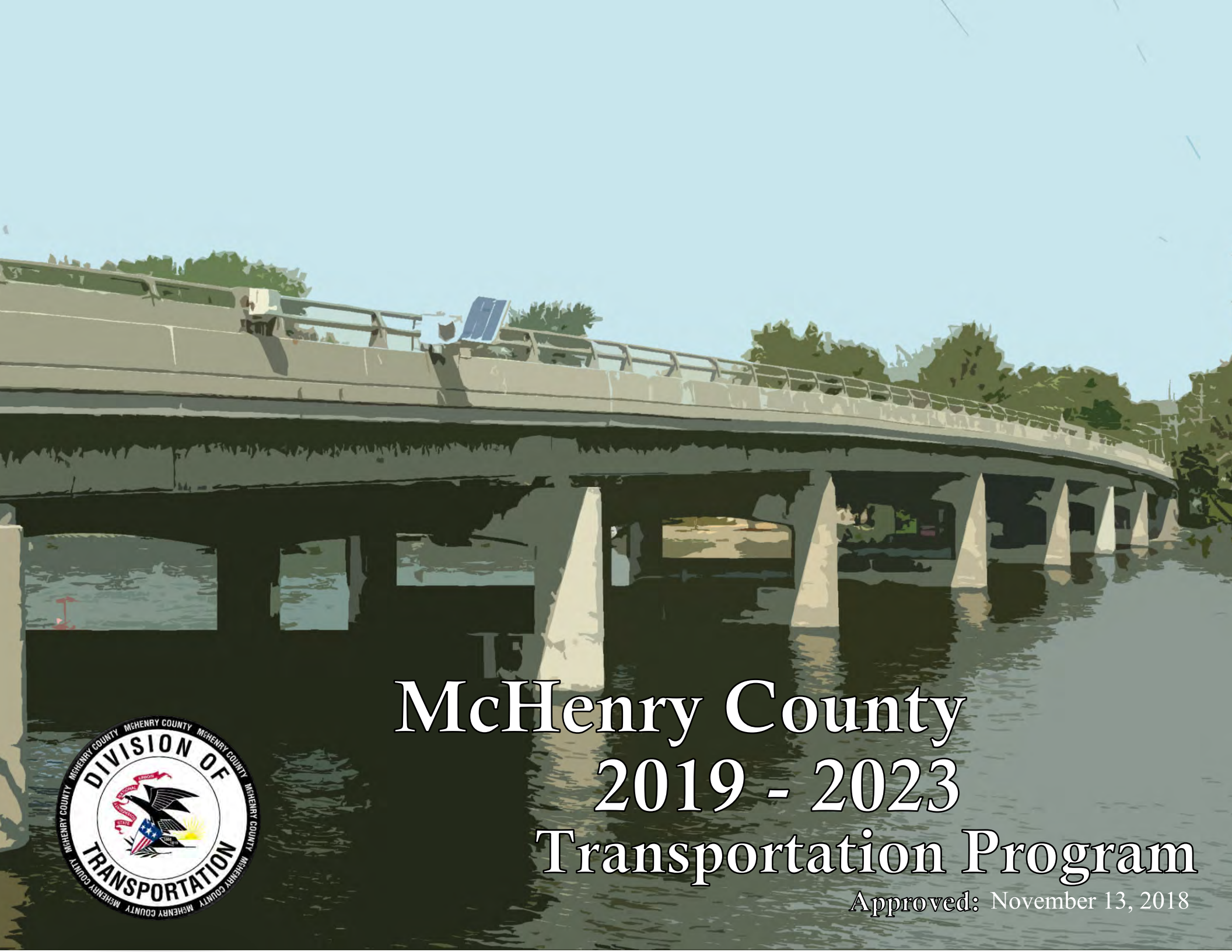

McHenry County 2019 - 2023 Transportation Program

Approved: November 13, 2018

Front Cover Photo: Chapel Hill Road Bridge in Johnsburg

Proposed

2019-2023

Transportation Program for McHenry County

prepared by

McHenry County Division of Transportation
16111 Nelson Road
Woodstock, Illinois 60098

815/ 334-4960
www.co.mchenry.il.us/county-government/departments-j-z/transportation

Mission Statement

The McHenry County Division of Transportation promotes responsible public policy, ethical and high quality services and is dedicated to providing enhanced mobility while promoting a safe and efficient transportation system.

endorsed by the

Transportation Committee

of the McHenry County Board

Thomas Wilbeck – District 1
Jeffrey Thorsen, Vice-Chair – District 2
Joseph Gottemoller, Chair – District 3
Donald Kopsell – District 3
Craig Wilcox – District 4
Michael Skala – District 5
Jim Kearns – District 6

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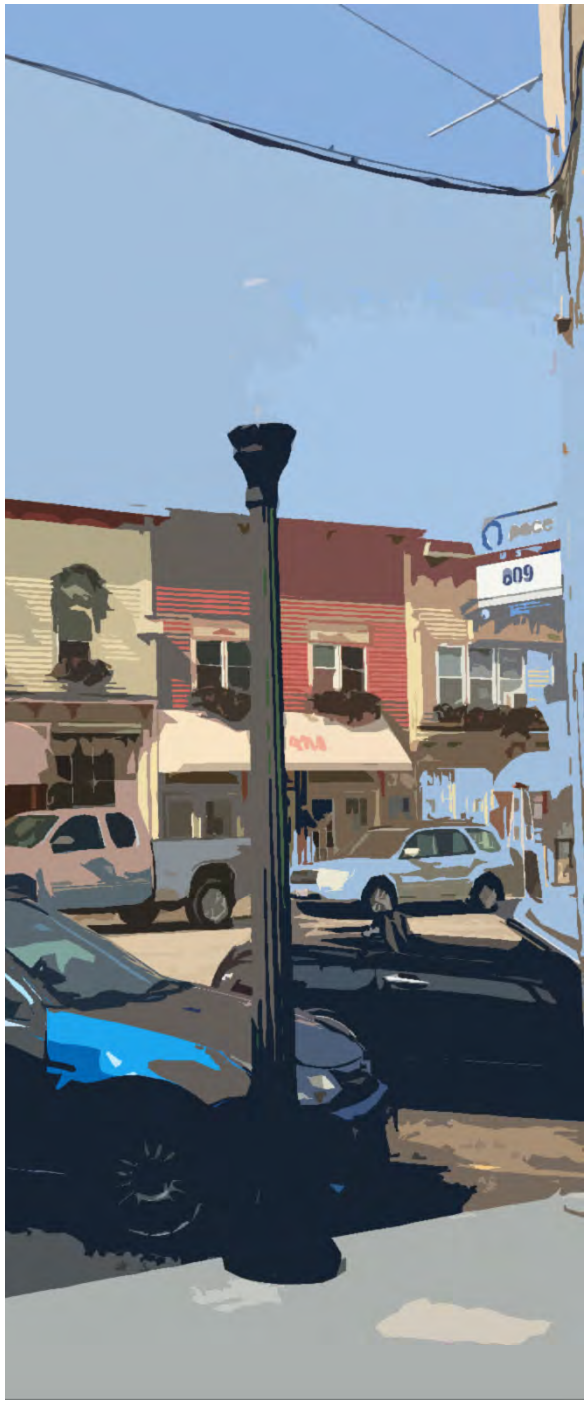

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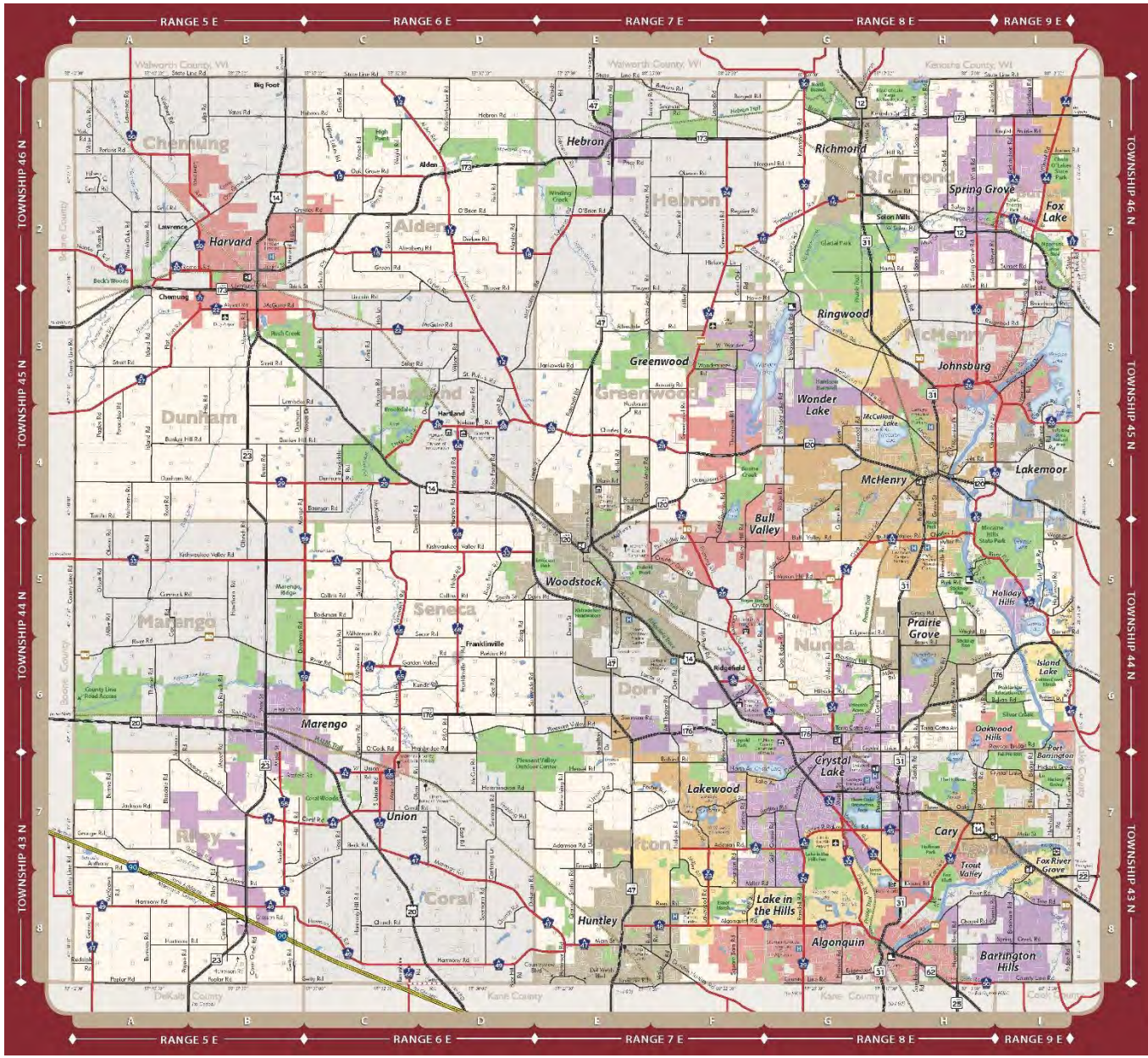
McHenry County, IL



Legend

Interstate Highway
US Highway
State Highway
County Highway
Maintained by Others
Township Road/City Street
Incorporated Area Boundaries
Unincorporated Community
Park or Conservation Area
Roundabout
Railroad
Bridge
South Elgin Trail
Township Grid
Township
Section
Section Grid
Feet
Meters
Miles
Kilometers

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Wright Rd C,3, H,1,5
Yates Rd B,1
York Rd I,1
Zimmerhill Rd H,1

County Highways are shown in red.

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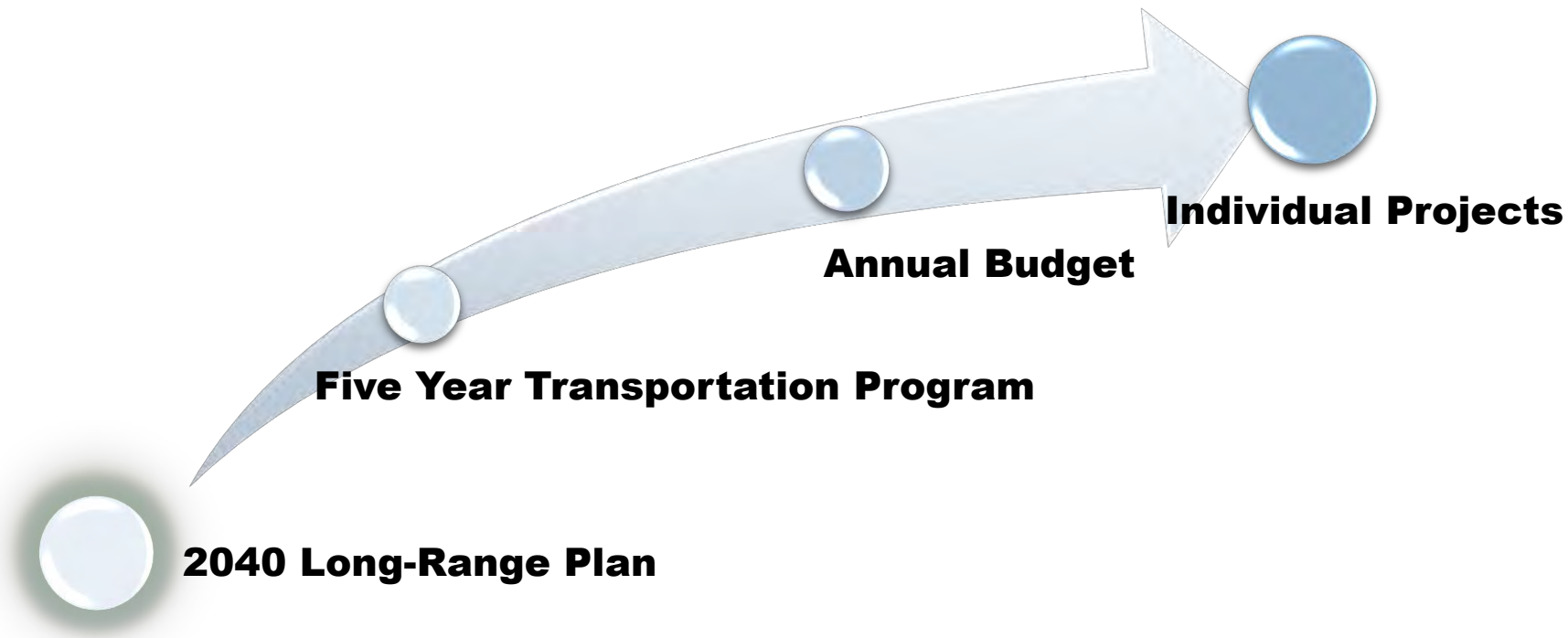
1. Executive Summary

The McHenry County 2019-2023 Transportation Program ("the 2019-2023 Program") is a financial and planning tool required by State statute to assist with the development of the annual budget and is consistent with the County's transportation and strategic plans (See Figure 1). The 2019-2023 Program includes information to better coordinate and leverage the annual appropriations of Federal and State dollars administered by the Metropolitan Planning Organization (MPO) and the State Department of Transportation (IDOT), as recommended by the County's 2014 Strategic Plan and as outlined in the County Board approved 2016 Action Plan. As required by State statute it contains a list of major improvements anticipated within the next five years, an estimate of revenues which will become available during that period, and states the work the County intends to undertake with respect to planning, design, construction, maintenance, and other related efforts. **This Five Year Program covers the time period from December 1, 2018 to November 30, 2023, and is prepared in advance of the start of the county's 2019 fiscal year.**

Figure 1: McHenry County Long Range Transportation Plan Implementation



The 2019-2023 Transportation Program is an update to the McHenry County Long-Range Transportation Plan ("the *2040 Plan*") which was approved in March of 2014. The 2019-2023 Program also conforms to Vision and Strategies for Quality Infrastructure contained in the County's Strategic Plan.

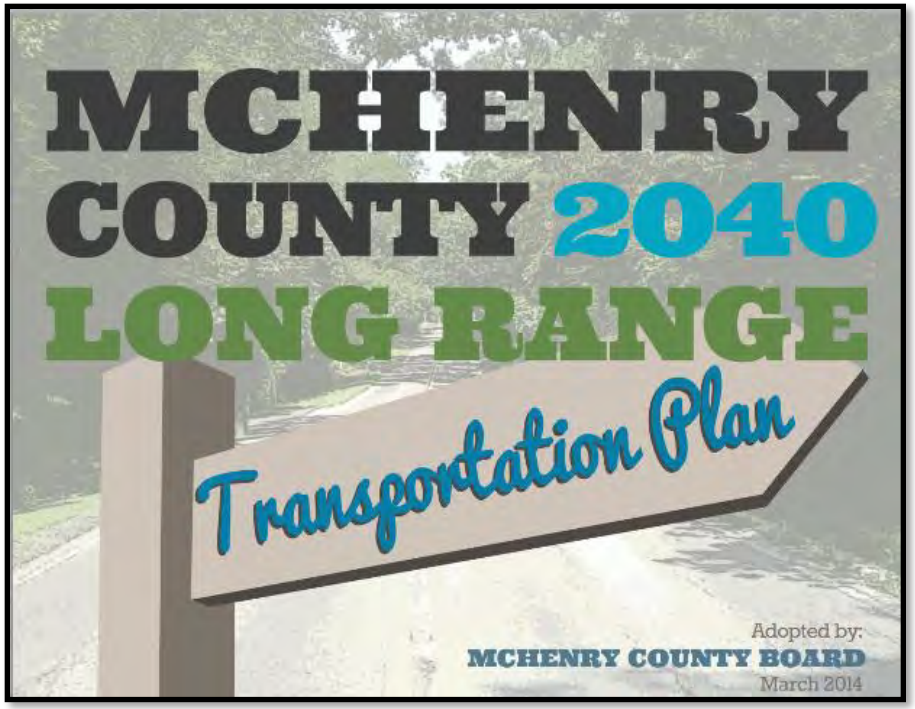
McHenry County 2040 Long-Range Transportation Plan

The six goals, and corresponding objectives (pg. 18-20 of the *2040 Plan*), were adopted by the McHenry County Board in order to guide future implementation of transportation projects:

2040 Long Range Transportation Plan Goals

1) Mitigate highway congestion,
2) Make transportation safer,
3) Promote mobility for all residents,
4) Provide transportation choices,
5) Preserve environmental quality, and
6) Link transportation and land use.

After three years of soliciting input from the public, four transportation projects were identified and consistently supported by the public, local agencies, and local businesses. The top four projects identified as part of the 2040 planning process are:



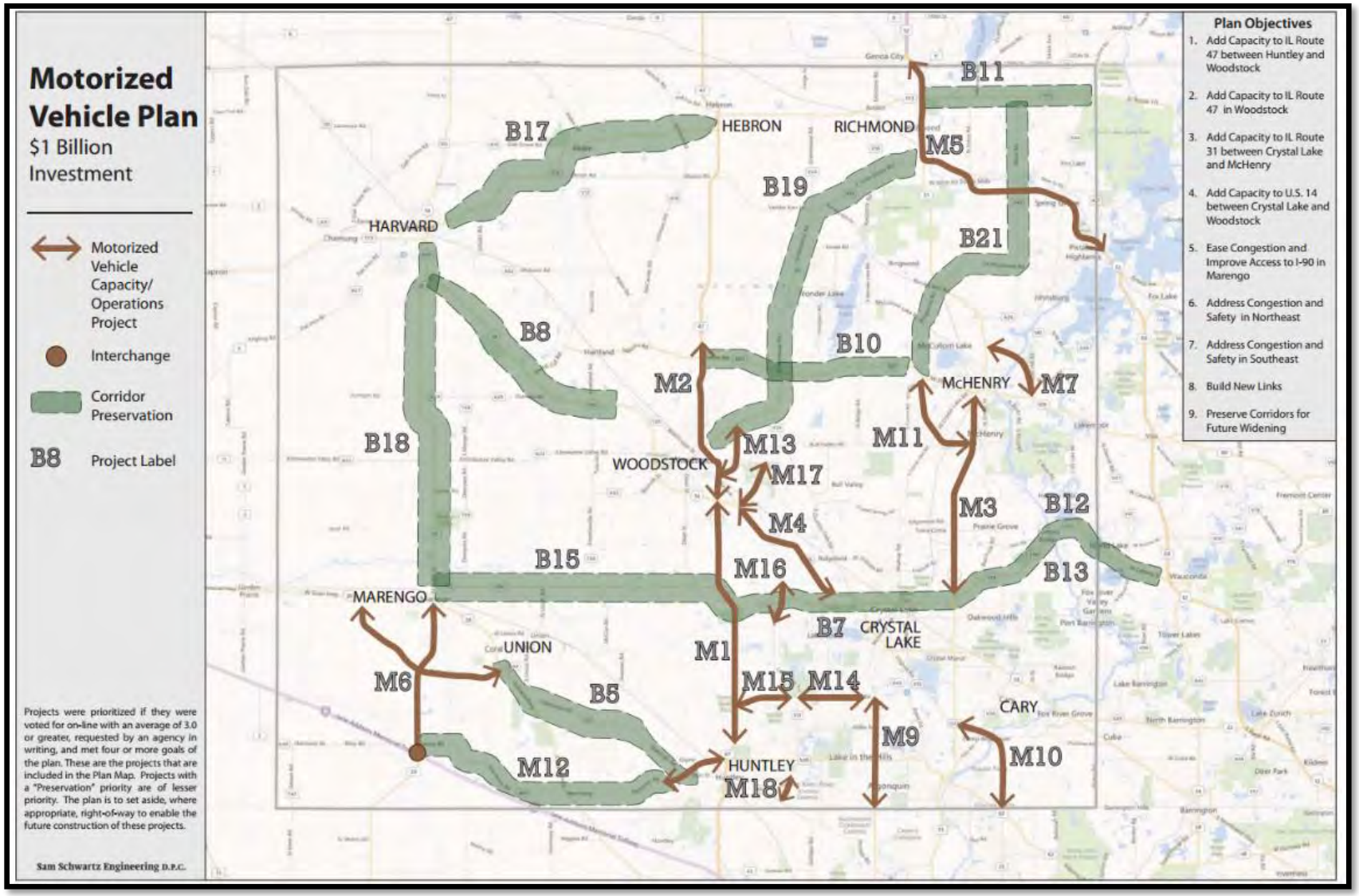
Illinois Route 47	**Between Reed Road in Huntley and U.S. 14 in Woodstock***
Illinois Route 47	**Between U.S. 14 and Charles Road in Woodstock***
Illinois Route 31	**Between IL 176 in Crystal Lake and IL 120 in McHenry***
Metra Union Pacific Northwest	**Commuter Rail Line Upgrades**

The *2040 Plan* outlines in detail the plan's project priorities by mode of travel.

Figures 2, 4 and 5 highlight the motorized vehicles, transit, and bicycle and pedestrian plans, respectively. These Figures show total investment, plan objectives, and project labels (see the *2040 Plan* Appendices for more details on specific project identified in these plans).

The Illinois Route 47 and 31 projects are led by the State of Illinois. No McHenry County funding has been included in this Transportation Program for these projects

Figure 2: Motorized Vehicle Plan, the *2040 Plan* (pg. 98)



***M4 Built – U.S. Route 14 from Crystal Lake to Woodstock**

***M6, M7, M9, M14 are included in the 2019-2023 Transportation Program**

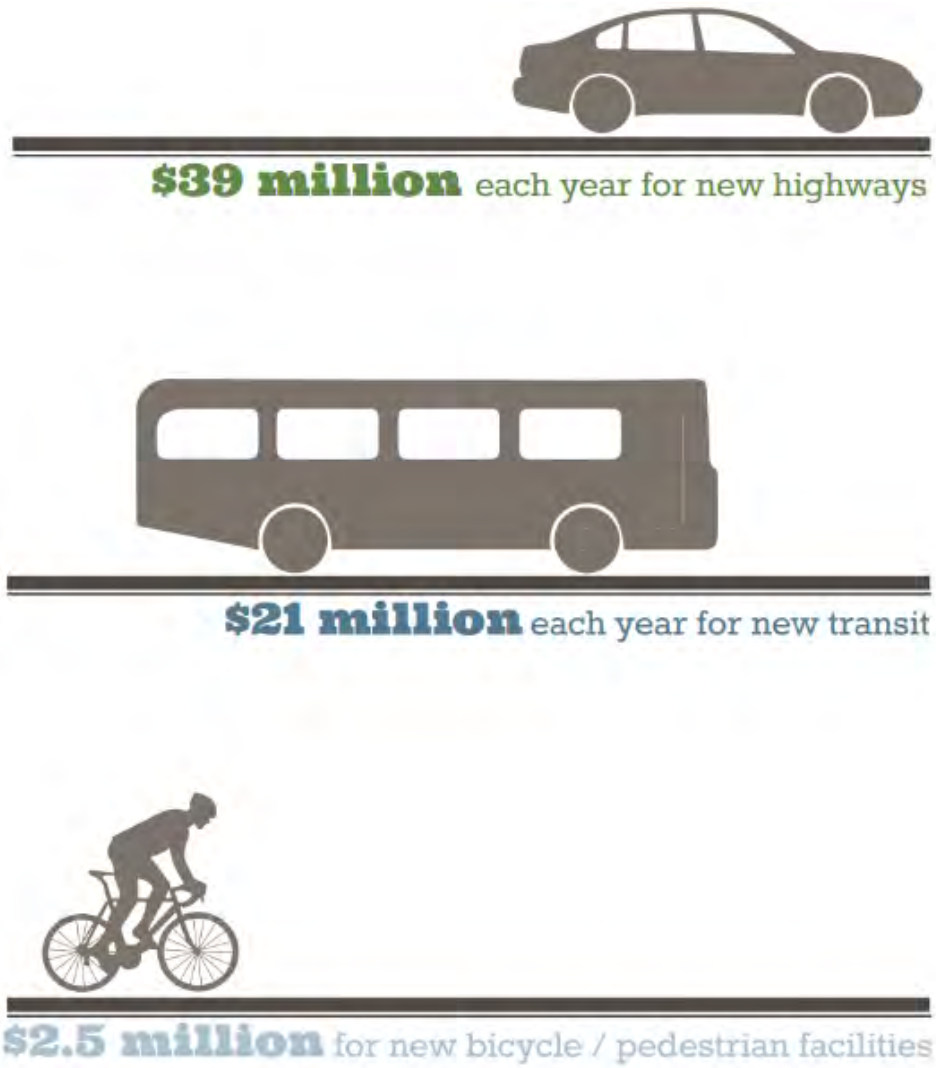


Figure 3: The *2040 Plan* Annual Average Investment

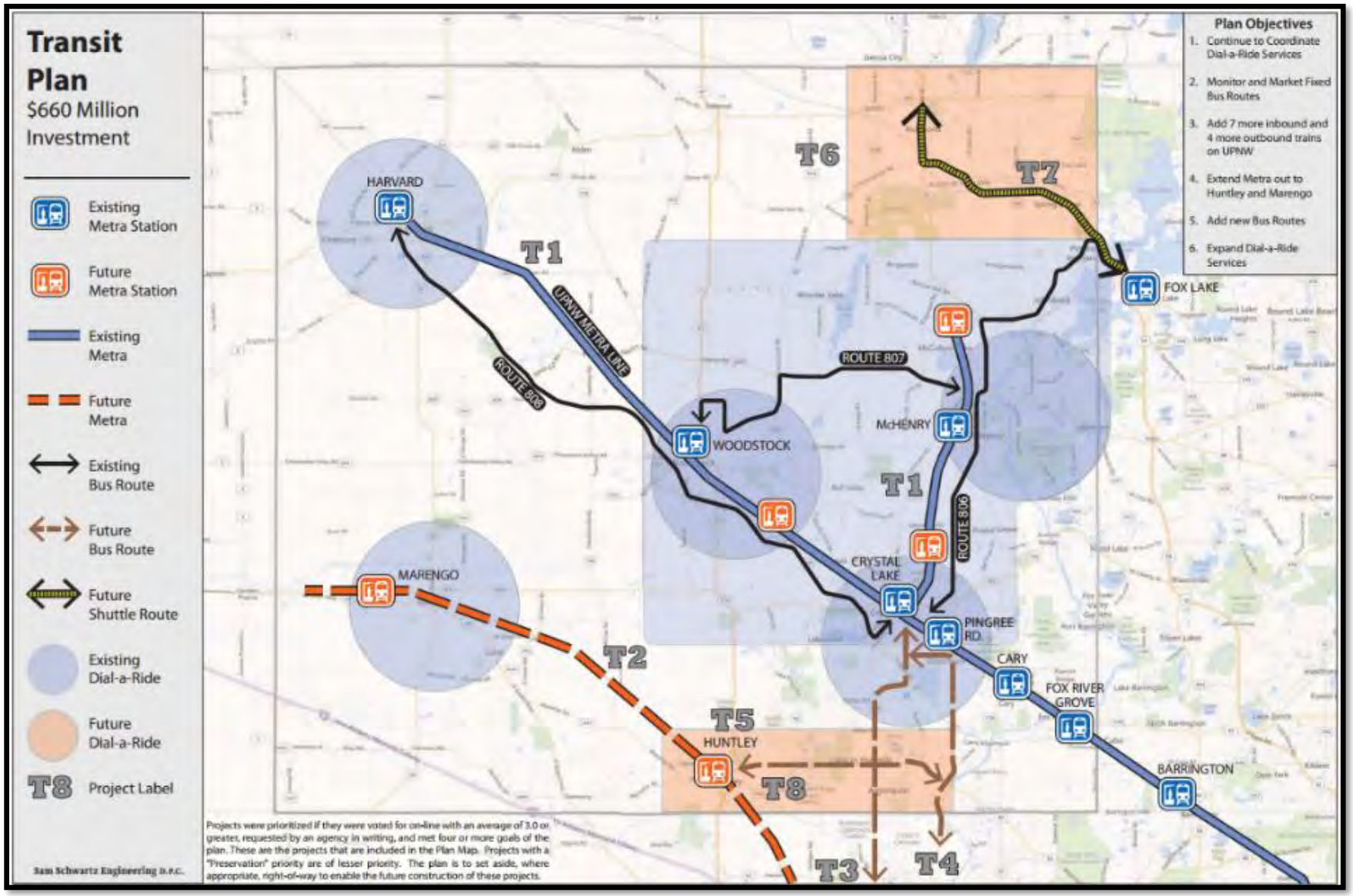
In addition to realizing these projects, the *2040 Plan* calls for a greater focus on addressing congestion on local streets. Future traffic models indicate that the local streets will likely see a more dramatic increase in congestion levels than State and County highways.

The *2040 Plan* calls for transportation infrastructure and operations to be coordinated in order to enhance free movement in our towns for all roadway users. Figure 3 shows the estimated amount of funding per year for motorized vehicles, transit, and non-motorized transportation in the *2040 Plan* based on past and current trends and future revenues and infrastructure maintenance costs. The 2040 Plan includes anticipated funding from all government agencies, not just McHenry County.

McHenry County's transportation network consists of roads, bridges, transit services and Shared-use paths under the jurisdiction of:

- The State of Illinois
- McHenry County
- 29 municipalities
- 17 township road districts
- Illinois Tollway
- Metra
- Pace
- And the McHenry County Conservation District

Figure 4: Transit Plan, *the 2040 Plan* (pg. 83)



***T3 – Pace Bus Route 550 – Elgin to Crystal Lake Operational**

***T6 – Dial-a-Ride for Richmond Township Operational**

***T7 – Pace Bus Route 809 – Richmond to Fox Lake Metra Shuttle Operational**

In total, the *2040 Long Range Transportation Plan* includes approximately $1 billion in projects for motorists, $660 million for transit projects, and $63 million for bicycle and pedestrian projects. To implement these projects and to best prepare for the future, the following strategies will be key:

1. **Build legislative support for Metra service upgrades**
2. **Prioritize preventative maintenance on roadways**
3. **Leverage State funding for bicycle and pedestrian infrastructure and corridor preservation along State and U.S. Highways**
4. **Build more robust local road networks including accommodations for all users to mitigate local traffic congestion**

Figure 5: Strategies from the 2040 Transportation Plan

Public Communication

The McHenry County Division of Transportation has started utilizing new communication channels to interact with the public. Tools like Facebook have expanded the reach of information that is communicated to the public, and has allowed residents to share information quickly and easily with Division of Transportation staff.

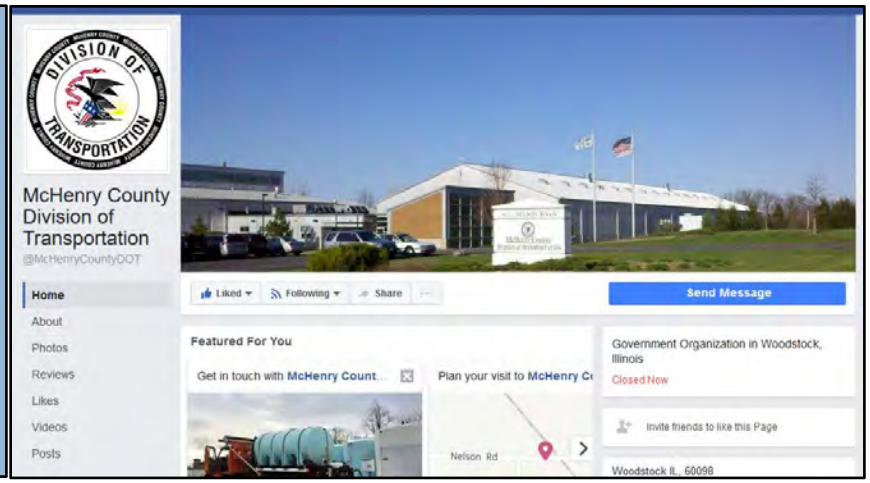
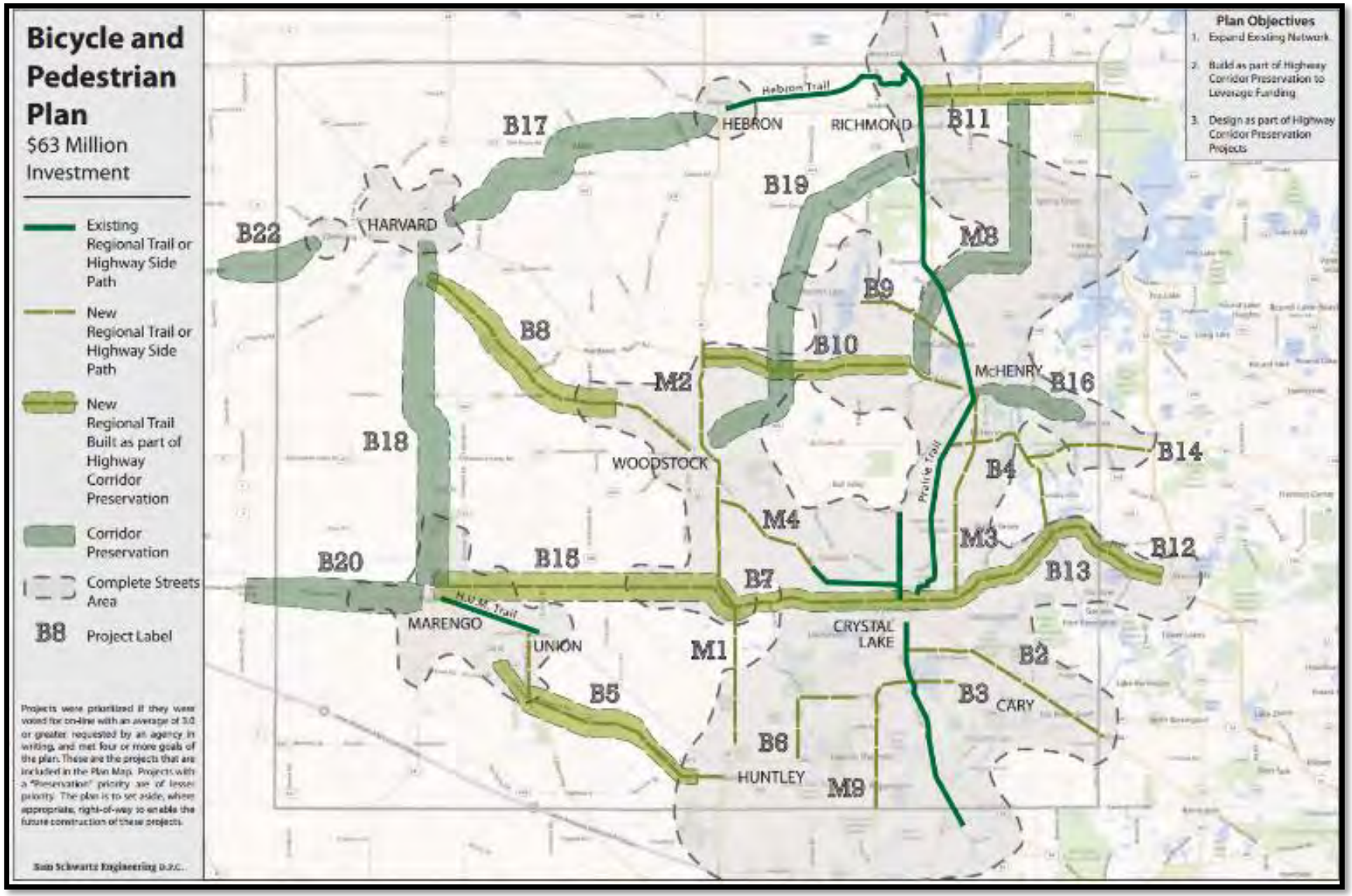


Figure 6: Bicycle and Pedestrian Plan, the *2040 Plan* (pg. 67)

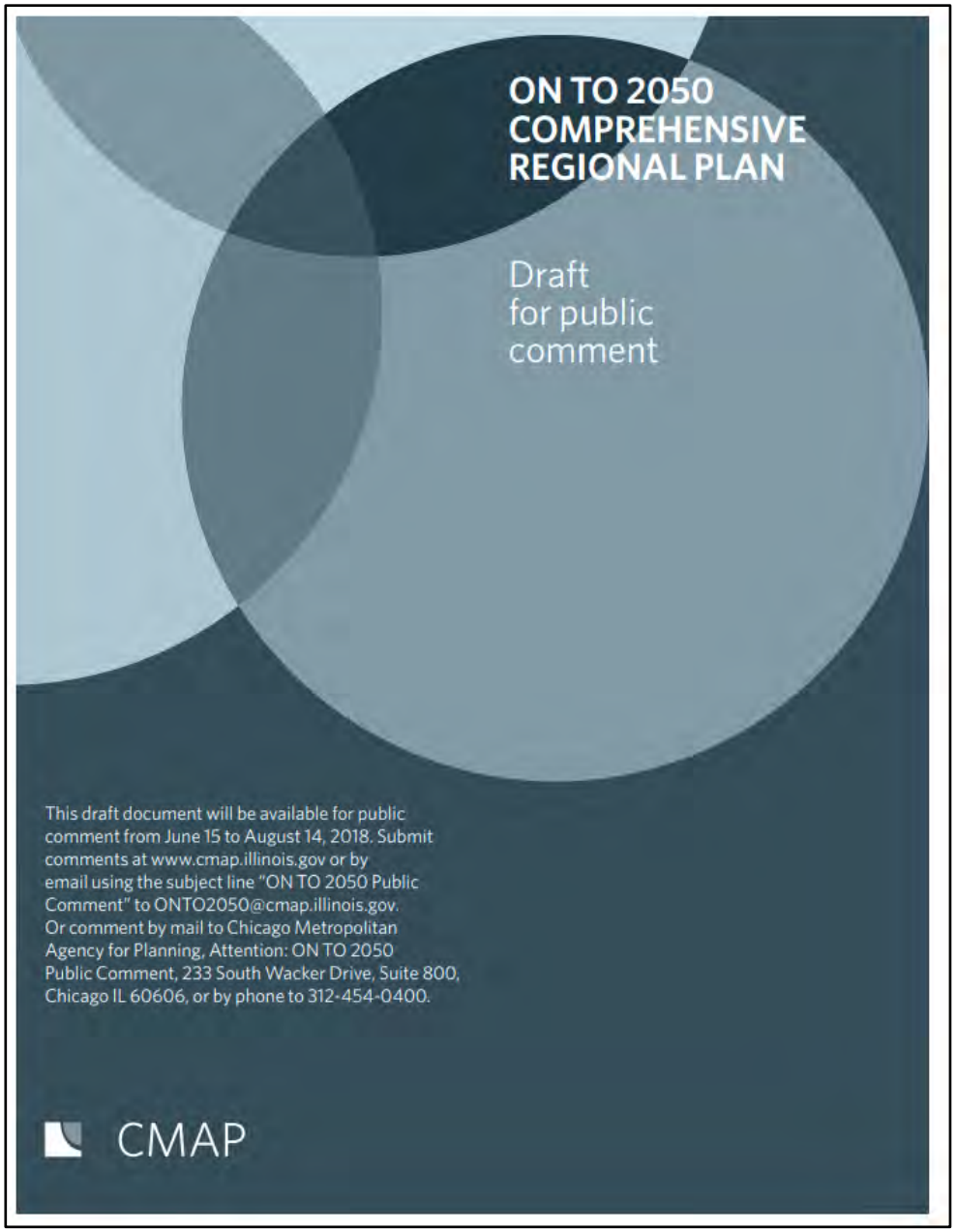


***M4 Built – Multi-use path from McHenry County College to Woodstock**

***B3, B4, B6, M9 are included in the 2018-2022 Transportation Program**

ON TO 2050

The Chicago Metropolitan Agency for Planning (CMAP) has finished developing the region's next comprehensive plan, ON TO 2050, which is schedule for adoption in October 2018. The plan was created by engaging stakeholders, including McHenry County, from across the seven county region. ON TO 2050 has three principles that can be found throughout each chapter of the Plan – Inclusive Growth, Resilience, and Prioritized Investment – which cut across the plan's goals for community, prosperity, environment, governance and mobility.



2017-2020 Strategic Plan for McHenry County

On February 17, 2017 the County Board adopted a new Strategic Plan for McHenry County. The 2017-2020 Strategic Plan sets goals for McHenry County government and provides a framework for the Division of Transportation activities and investments through implementation strategies. The Division of Transportation works to implement the goals of the Quality Infrastructure section of the Strategic Plan through its Long-Range Transportation Plan, Five Year Transportation Program, annual budget, and individual projects.

Quality Infrastructure Goals from the Strategic Plan include:

1. Facilitate the infrastructure necessary to improve access to high-speed internet throughout McHenry County
2. Improve McHenry County's access to the Interstate Highway System
3. Promote mobility for all County residents by providing choices in the transportation network including walking, biking and public transit
4. Address short-and-long term capital and facility needs

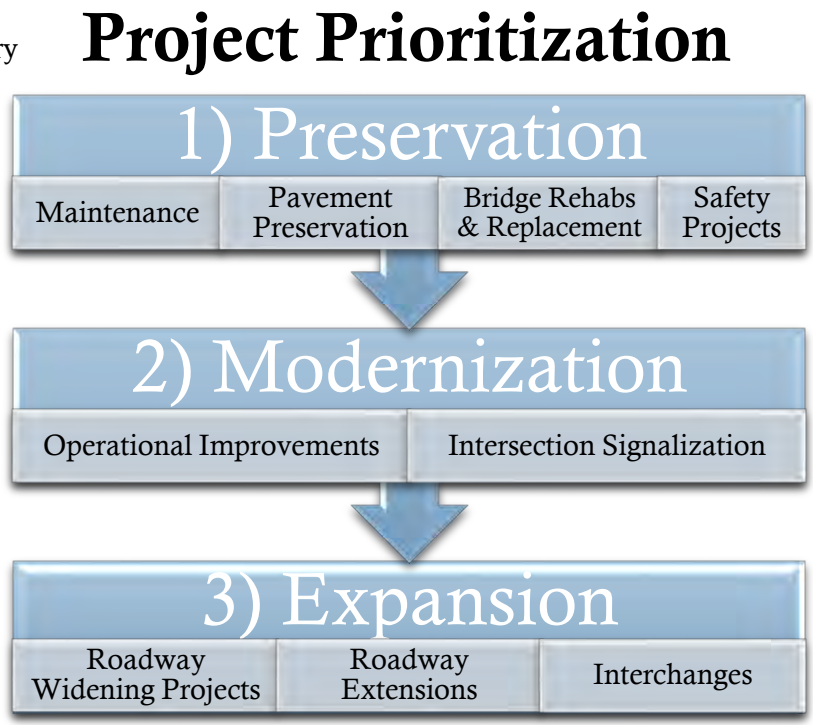


Figure 7: Project Prioritization

2018 Highlights

The McHenry County Division of Transportation budgeted $38.4 million in 2018 to maintain and improve the County's transportation network. Highlights from 2018 includes:

- ✓ 37 lane miles of pavement preservation
- ✓ 28 lane miles of resurfacing
- ✓ Completion of the Bay Road and Chapel Hill Road Bridge Projects
- ✓ Construction of a roundabout at River Road and Dowell Road

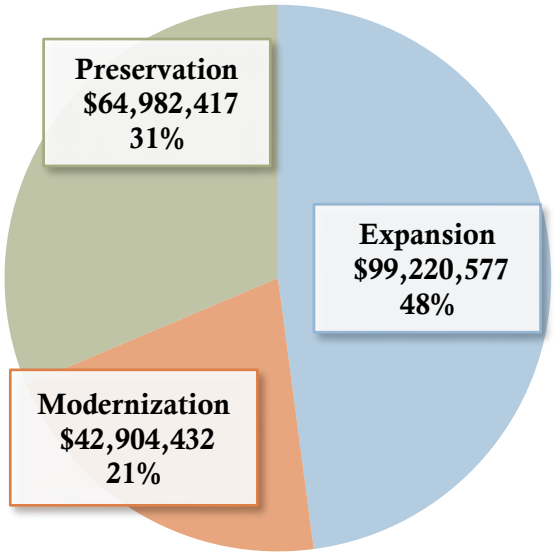


Figure 8: Total Expenditures by Project Category, 2019-2023

2019-2023 Program Highlights

The McHenry County 2019-2023 Five Year Transportation Program includes $207.1 million in project expenditures, including:

- $46.2 million for capacity and operational changes to Randall Road, from Harnish Drive to Acorn Lane/Polaris Drive ($19.7 million from the County).
- $31.3 million for an interchange at Illinois Route 23 and Interstate 90 ($6.7 million from the County)
- $28.9 million for County pavement preservation and resurfacing.
- $11.7 million for the provision of MCRide dial-a-ride service for McHenry County.
- $10.0 million for the Nondedicated Subdivision Road Construction Program.

2019-2023 Program Development

In updating the 2019-2023 Program, system preservation projects (general maintenance, bridge improvements and replacement, pavement preservation) are the highest funding priorities. System modernization (operational improvements) is a secondary priority. System expansion projects (highway capacity) are programmed after funding is designated for preservation and modernization. These priorities reflect the fact that the McHenry County Division of Transportation is a full service transportation agency. It provides planning, engineering, construction management, capital investments, and operational support to address the demands of maintaining the transportation network in McHenry County in a safe and efficient manner.

Program Type	McHenry County	State	Federal	Local/Other	Tollway	Total
County Highway Maintenance Program	$14.4	$0.0	$0.0	$0.0	$0.0	**$14.4**
County Highway Pavement Preservation	$29.8	$0.0	$0.0	$0.0	$0.0	**$29.8**
County and Township Bridge Program	$7.3	$1.0	$13.7	$0.0	$0.0	**$22.0**
Public Safety and Health	$6.0	$0.3	$1.6	$0.0	$0.0	**$7.9**
County Highway Operational and Capacity Program	$25.7	$0.0	$26.6	$2.2	$0.0	**$54.4**
State Highway Program	$6.8	$9.2	$4.9	$0.1	$16.5	**$37.4**
Bicycle, Pedestrian, and Transit Program	$14.8	$0.0	$2.6	$8.4	$0.0	**$25.8**
Miscellaneous Program	$14.8	$0.0	$0.5	$0.0	$0.0	**$15.3**
Grand Total	**$119.6**	**$10.4**	**$49.9**	**$10.6**	**$16.5**	**$207.1**

Table 1: Programmed Expenditures 2019-2023, by Program Type (in Millions)

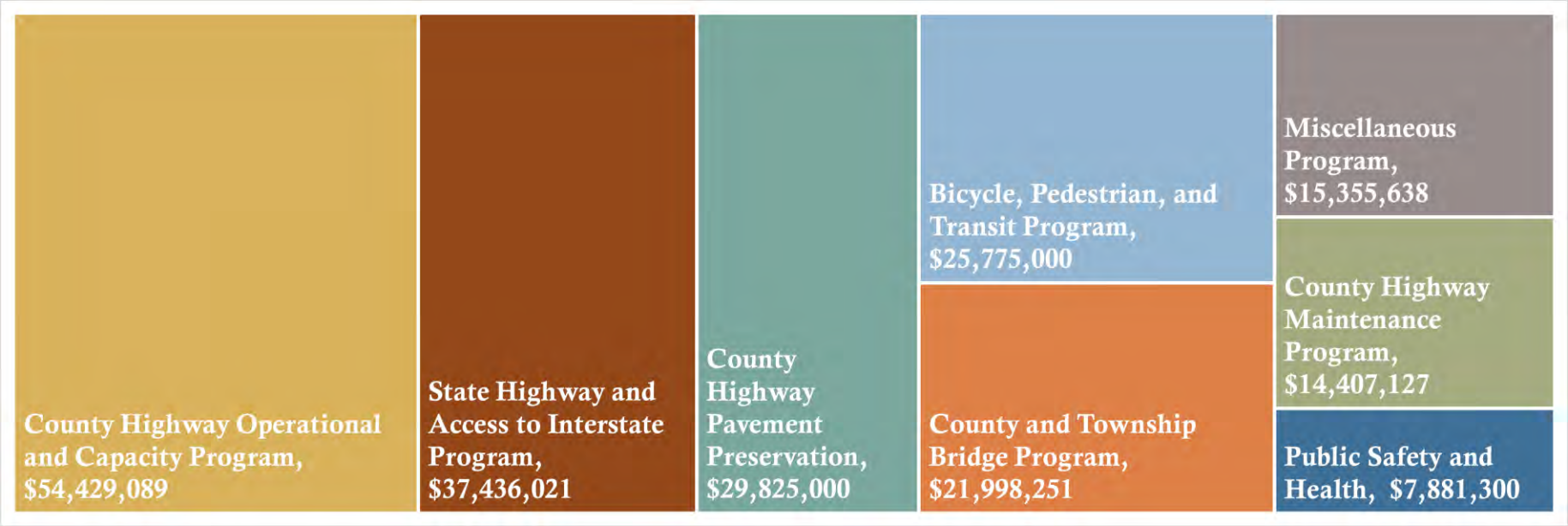


Figure 9: Programmed Expenditures 2019-2023

Funding Priorities

County Maintenance Program

The *County Maintenance Program* includes funds for materials needed to maintain County roadways including salt for snow removal, sign materials, paint for lane striping, and traffic signal maintenance. Over the next five years, the program includes $14.4 million (7% of total expenditures) for roadway maintenance.

County Pavement Preservation Program

The *County Pavement Preservation Program* includes funds for evaluating pavement condition on a regular basis and performing crack sealing, resurfacing, and roadway rehabilitation. Over the next five years, the program includes $29.8 million (14% of total expenditures) for pavement management and roadway rehabilitation projects.

County and Township Bridge Program

The *County and Township Bridge Program* includes funds for biennial bridge inspections, emergency repairs, and rehabilitation and reconstruction for bridges, drainage ways, and storm sewer systems. Consistent with the McHenry County Strategic Plan's implementation strategy to replace aging bridges, all structures with structural rating under 60 on a 100 scale are programmed to begin engineering. Over the next five years, the program includes $22.0 million (11% of total expenditures) for 19 bridge replacement or rehabilitation projects and other bridge work. Of that amount, $7.3 million are from County sources (Matching and Bridge Funds).

Public Safety and Health Program

The *Public Safety and Health Program* includes funds for projects that will improve safety for both motorists and non-motorists in McHenry County. Intersections continue to be where most crashes occur. In particular, special attention is given to what are called "critical intersections and corridors", which are identified by the State of Illinois in their safety tier analysis. In total, there are approximately 100 intersections under County jurisdiction, 70 intersections under County and IDOT jurisdiction, and 525 intersections under County and municipal and/or township jurisdiction. Over the next five years, $7.9 million (4% of total expenditures) is programmed for public safety projects.

County Roadway Operational and Capacity Program

The *County Roadway Operational and Capacity Program* includes funds for projects that improve traffic flow, widen existing County highways, or build new County roads. Add lanes projects are high cost and are only undertaken after extensive planning and engineering. Over the next five years, $54.4 million (26% of total expenditures) is programmed for operational and capacity projects. Of that amount, the County is responsible for $25.7 million.

State Highway Program

The *State Highway Program* includes funds for projects that are part of the State highway network or adjacent to the State highway network. Over the next five years, $37.4 million (18% of total expenditures) is programmed for State highway projects. The County is responsible for $6.8 million for these projects.

Bicycle, Pedestrian, and Transit Program

The *Bicycle, Pedestrian, and Transit Program* includes funds to support these modes of transportation, consistent with the *McHenry County 2040 Long-Range Transportation Plan*. Over the next five years, $25.8 million (13% of total expenditures) is programmed for bicycle, pedestrian, and transit projects. Of that amount, the County is responsible for $14.8 million.

Miscellaneous Program

The *Miscellaneous Program* includes funds for various other programs, projects, and initiatives that the Division of Transportation undertakes. Over the next five years, $15.4 million (7% of total expenditures) is programmed for miscellaneous projects.

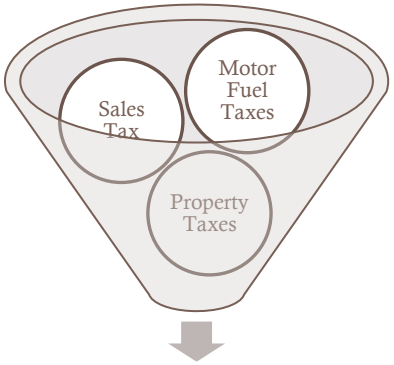
Anticipated Revenues

Transportation Revenue Sources

The 2019-2023 Transportation Program is funded primarily by a sales tax – the County Regional Transportation Authority Sales Tax (RTA Sales Tax) and two motor fuel tax funds – the State Motor Fuel Tax allotted to the County (County MFT) and County Option Motor Fuel Tax (County Option MFT). Two property tax levies – County Bridge and County Matching – are also used, as are reimbursements, state and federal grants, local municipal, township or developer contributions, bank account interest, and prior year fund balances.

The RTA Sales Tax is a 0.75% tax on all sales in the collar counties of DuPage, Kane, Lake, McHenry and Will, and a 1.25% tax on all sales in Cook County. One-third of the collar county (0.25%) proceeds are awarded back to the County where the tax is collected to be spent only on transportation and/or public safety. More details on the RTA Sales Tax can be found on the RTA's RTAMS website.

The State of Illinois Motor Fuel Tax of $0.19 per gallon, which has not been increased since 1990 and is not indexed for inflation, is allotted back to the McHenry County Division of Transportation based on the number of motor vehicle license fees received from the County. The County Option Motor Fuel Tax is a separate gas tax of $0.04 per gallon on all fuel purchased within McHenry County.



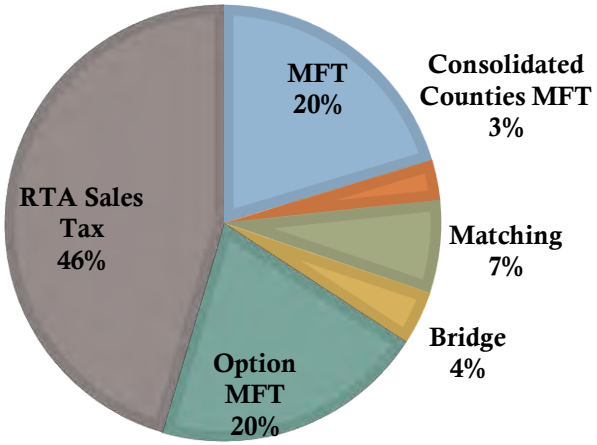
Transportation Projects

Between 2011 and 2018, total County tax receipts for dedicated transportation funds has increased by 8.3%, owing primarily to increased RTA Sales Tax collections. This trend of low growth is likely to continue into the future. The State Motor Fuel Tax allocation (MFT) and the County Option Motor Fuel Tax (Option MFT) both experienced very little growth, with a small increase occurring in 2015 and 2016 after a long period of declining MFT receipts (See Table 2, Page 13). Declining motor fuel tax revenue can be attributed to increasing vehicle fuel efficiency, a declining per-capita vehicle miles traveled (VMT), and a lack of population growth throughout the State of Illinois and in McHenry County. During this same period, inflation reduced the value of each dollar by 7%, or to 93 cents. In fiscal year 2015 a portion of revenues previously allocated to the Bridge fund were shifted to the Matching fund. Matching funds can be used for many project types including bridges. As long as federal funding is available for 80% of bridge project costs, the historical amounts being allocated to the Bridge fund should be sufficient.

Table 2: Historical Tax Receipts, by Fund; 2011-2018 (in Millions)

Tax Year	MFT	Consolidated Counties MFT	Matching	Bridge	Option MFT	RTA Sales Tax	TOTAL
2011	$4.7	$0.6	$1.1	$1.0	$4.3	$8.7	**$20.4**
2012	$4.4	$0.6	$1.1	$1.0	$4.2	$9.0	**$20.3**
2013	$4.1	$0.6	$1.3	$1.3	$4.2	$9.2	**$20.7**
2014	$4.0	$0.6	$1.2	$1.1	$4.0	$9.6	**$20.5**
2015	$4.1	$0.6	$1.8	$0.5	$4.1	$9.9	**$21.0**
2016	$4.3	$0.7	$1.8	$0.5	$4.6	$10.2	**$22.1**
2017	$4.4	$0.3	$1.8	$0.5	$4.7	$10.3	**$22.0**
2018 projected	*$4.5*	*$0.4*	*$1.7*	*$0.5*	*$4.7*	*$10.3*	***$22.1***
Eight-Year Total	**$34.5**	**$4.4**	**$11.8**	**$6.4**	**$34.8**	**$77.2**	**$169.1**
% Δ 2011 to 2018	-4.3%	-33.3%	54.6%	-50.0%	9.3%	18.4%	8.3%

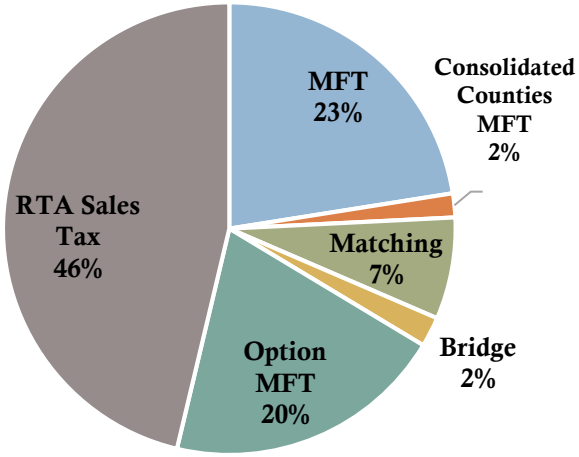
2011-2018 MCHENRY COUNTY TRANSPORTATION REVENUE



Tax Year	MFT	Consolidated Counties MFT	Matching	Bridge	Option MFT	RTA Sales Tax	TOTAL
2019	$4.6	$0.4	$1.7	$0.5	$4.7	$10.4	**$22.3**
2020	$5.6	$0.4	$1.7	$0.5	$4.7	$10.6	**$23.5**
2021	$5.5	$0.4	$1.7	$0.5	$4.7	$10.8	**$23.7**
2022	$5.4	$0.4	$1.7	$0.5	$4.7	$11.0	**$23.8**
2023	$5.2	$0.4	$1.7	$0.5	$4.7	$11.3	**$23.8**
Five-Year Total	**$26.4**	**$2.0**	**$8.5**	**$2.5**	**$23.5**	**$54.1**	**$117.0**
% Δ 2019 to 2023	13%	0%	0%	0%	0%	8.7%	6.7%

Table 3: Estimated Future Tax Receipts Allocated to Funds; 2019-2023 (in Millions)

2019-2023 MCHENRY COUNTY TRANSPORTATION REVENUE



Impacts of the FAST Act

The County relies on federal funding for bridge replacement work and for highway widening projects. In December 2015 a five-year Federal Transportation Bill called the **Fixing America's Surface Transportation (FAST) Act** was signed into law providing federal funding for transportation through federal fiscal year 2020.

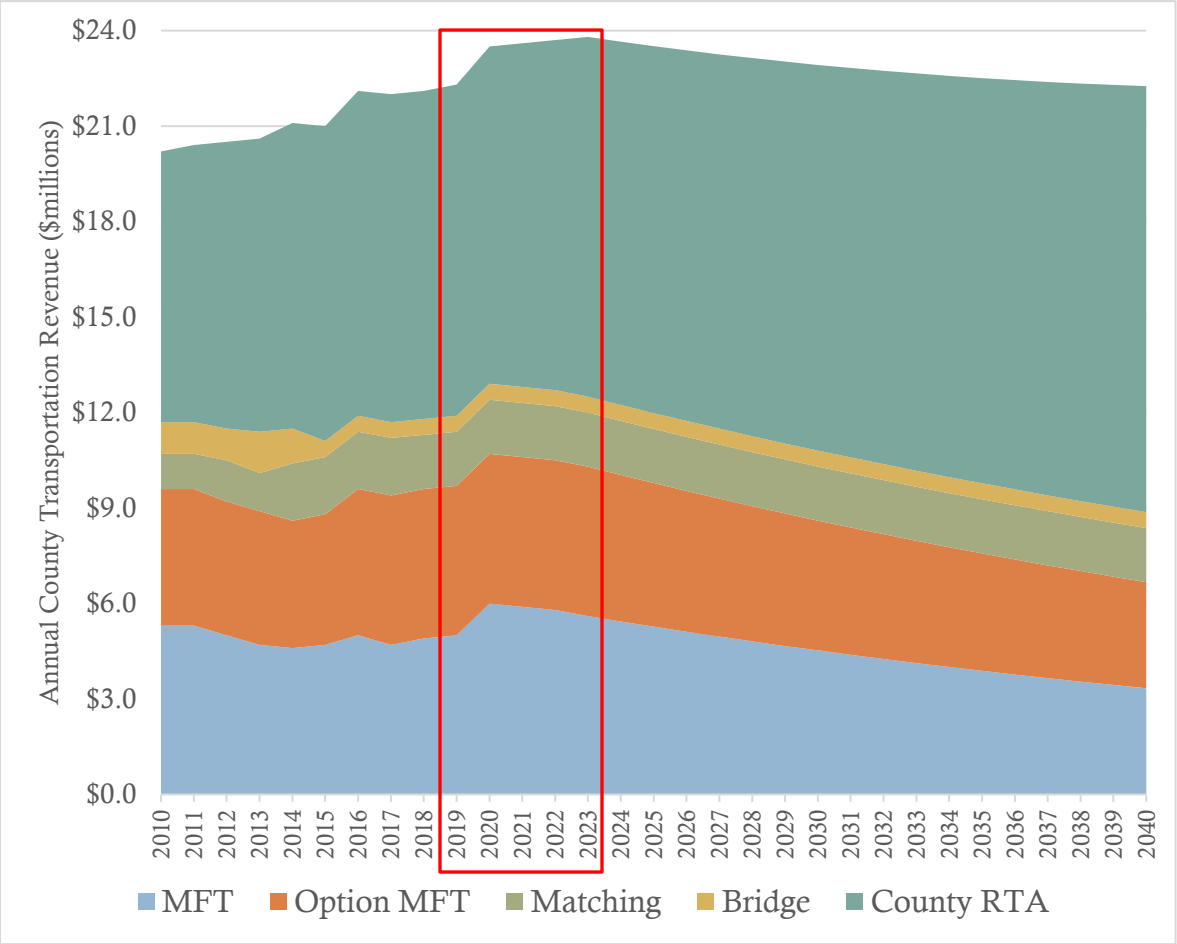
The FAST Act increases federal highway funding by 15% and transit funding by 18% over the life of the bill. The bill maintains current rates for the federal motor fuel tax (MFT) and therefore continues to rely heavily on transfers from the General Fund to support additional transportation spending. In addition, the FAST Act further streamlines the environmental review and permitting process to accelerate project approvals.

The bill also creates two new freight programs – the National Highway Freight Program and the Nationally Significant Freight and Highways Program – which will benefit the Chicago region as the hub of freight movement in the United States.

Financial Constraints

Over the next 5 years, a total of **$207.1 million** is estimated in transportation project revenue from all sources – Federal, State, County, and local (See Figure 9 on next page). Of that amount, $117.0 million, or 57%, are from County sources. It is anticipated that State MFT revenues will be increased by 20% in 2020, yet continue to decline over time (-1-3% each year). On the other hand, the County RTA sales tax receipts are estimated to increase 2.0% annually for the foreseeable future. In the meantime, the Bridge, Matching and County Option MFT funds are anticipated to remain flat during the life of this transportation program.

Historically, the transportation system has been funded by user fees, or taxes payed by the users of the system to maintain the system. However, the current program shows that only 44% of all County revenues ($51.9 million out of $117.0 million) are generated directly from roadway users through the motor fuel (gas) tax. Most of the County's funding for transportation is paid for by both drivers and non-drivers alike, primarily through the RTA Sales Tax but also from two County Property Tax funds (Matching and Bridge Funds).



Anticipated Expenditures

Over the next 5 years, an estimated $207.1 million in project work is programmed to be undertaken by the McHenry County Division of Transportation and other agencies on 78 projects and programs (See Table 4).

Figure 10: All Sources of Transportation Revenue; with breakdown showing County Transportation Revenue Sources; FY19-23 (in Millions)

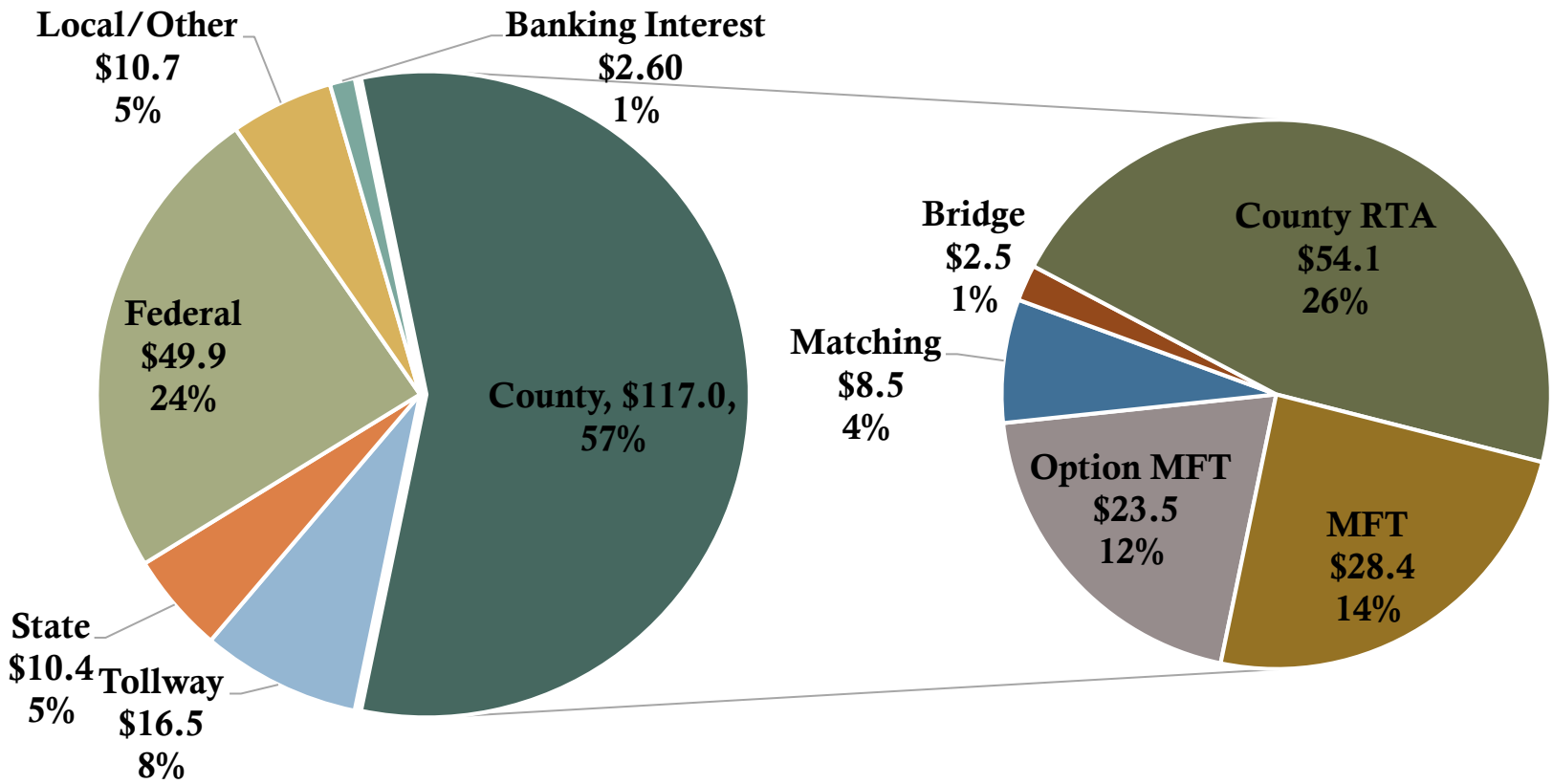


Table 4: Recent Five Year Program Comparison (in Millions)

Programmed Amounts	12-16	13-17	14-18	15-19	16-20	17-22*	18-22	19-23
Expenditures	$250.5	$224.2	$188.5	$260.9	$216.1	$250.3	$212.6	**$207.1**
Revenues	$212.0	$201.2	$161.0	$217.8	$173.0	$237.2	$204.1	**$207.1**
Expenditures - Revenues	$38.5	$23.0	$28.0	$43.1	$43.1	$13.1	$8.5	**$0**
Expenses/Revenues	1.18	1.11	1.17	1.20	1.25	1.05	1.04	**1.00**
Number of Projects/Programs	**73**	**63**	**64**	**66**	**65**	**71**	**78**	**78**

** 2017-2022 Program consisted of six years instead of five*

The 2019-2023 Program includes work in all districts of the County (See Figure 11). The 2019-2023 Program includes $46.2 million for "Add Lanes" projects, $29.8 million for "Pavement Preservation" projects, and $20.3 million for 16 bridge replacement and rehabilitation projects. (See Table 5).

Table 5: Programmed Expenditures 2019-2023; by Project Type; Sorted by Total County Costs

Project Type	Total County Costs	State	Federal	Local/Other	Total Project Cost
Pavement Preservation	$ 29,825,000	$ -	$ -	$ -	$ 29,825,000
Add Lanes	$ 19,650,258	$ -	$ 26,593,831	$ -	$ 46,244,089
NSR	$ 11,285,000	$ -	$ -	$ -	$ 11,285,000
Maintenance	$ 8,480,981	$ -	$ -	$ -	$ 8,480,981
Metra	$ 8,000,000	$ -	$ -	$ -	$ 8,000,000
Interchange	$ 6,668,750	$ 8,199,580	$ -	$ 16,474,558	$ 31,342,888
Shared-Use Path	$ 3,960,000	$ -	$ -	$ 940,000	$ 4,900,000
Operational Improvements	$ 3,850,000	$ -	$ -	$ 1,820,000	$ 5,670,000
Safety Project	$ 3,608,130	$ 255,000	$ 1,603,170	$ 15,000	$ 5,481,300
Bridge Rehabilitation	$ 3,118,655	$ 240,000	$ 4,360,000	$ -	$ 7,718,655
Other	$ 2,989,619	$ -	$ 431,019	$ -	$ 3,420,638
Bridge Replacement	$ 2,960,000	$ 320,000	$ 9,320,000	$ -	$ 12,600,000
Culverts	$ 2,783,457	$ 440,000	$ -	$ -	$ 3,223,457
Paratransit	$ 2,385,000	$ -	$ 2,020,000	$ 5,550,000	$ 9,955,000
Signals	$ 2,382,285	$ -	$ -	$ -	$ 2,382,285
Intersection	$ 2,240,834	$ 973,960	$ 4,948,505	$ 79,834	$ 8,243,133
Roadway Realignment	$ 1,500,000	$ -	$ -	$ -	$ 1,500,000
ADA	$ 1,000,000	$ -	$ -	$ -	$ 1,000,000
Planning	$ 885,000	$ -	$ 80,000	$ -	$ 965,000
Facility	$ 500,000	$ -	$ -	$ -	$ 500,000
Guardrail	$ 500,000	$ -	$ -	$ -	$ 500,000
Transit	$ 400,000	$ -	$ 530,000	$ 1,440,000	$ 2,370,000
New Roadway	$ 350,000	$ -	$ -	$ 350,000	$ 700,000
Small Safety Project	$ 250,000	$ -	$ -	$ -	$ 250,000
Bike Share	$ 40,000	$ -	$ -	$ 510,000	$ 550,000
Total	**$ 119,612,969**	**$ 10,428,540**	**$ 49,886,525**	**$ 27,179,392**	**$ 207,107,426**

Project Phases

Throughout this document, readers will notice that each project will undergo several "phases" as it transitions from planning to engineering and finally to construction. These project phases include:

Planning

Transportation Projects typically originate from an adopted Long Range Transportation Plan and are carried into the County's 5-Year Transportation Program. The current Transportation Plan is the 2040 Long Range Transportation Plan.

Preliminary Engineering/Phase I

An engineering report involving a project's geometric design, right-of-way requirements, alternatives analysis, and environmental studies. If projects involve federal funds, Phase I engineering concludes upon receipt of design approval from IDOT of the Project Development Report (PDR). This project phase is identified in the Transportation Program as "ENGR1".

Design Engineering/Phase II

Translates the Phase I engineering report into contract plans, specifications and cost estimates for land acquisition and construction as well as execution of local-state joint project agreements. This project phase is identified in the Transportation Program as "ENGR2".

ROW/Phase II

The acquisition of necessary rights-of-way and easements. In projects involving federal funds, formal negotiations with property owners may not begin until Phase I engineering approval is given by IDOT. This project phase is identified in the Transportation Program as "ROW".

Construction/Phase III

Finally the project enters the construction phase, which includes associated construction engineering activities such as surveys, staking, inspections, materials testing, checking shop drawings, supervision of contractors, field adjustments and plan revisions, record keeping and documentation, and payments to contractors. This project phase is identified in the Transportation Program as "CONST" and "CE".

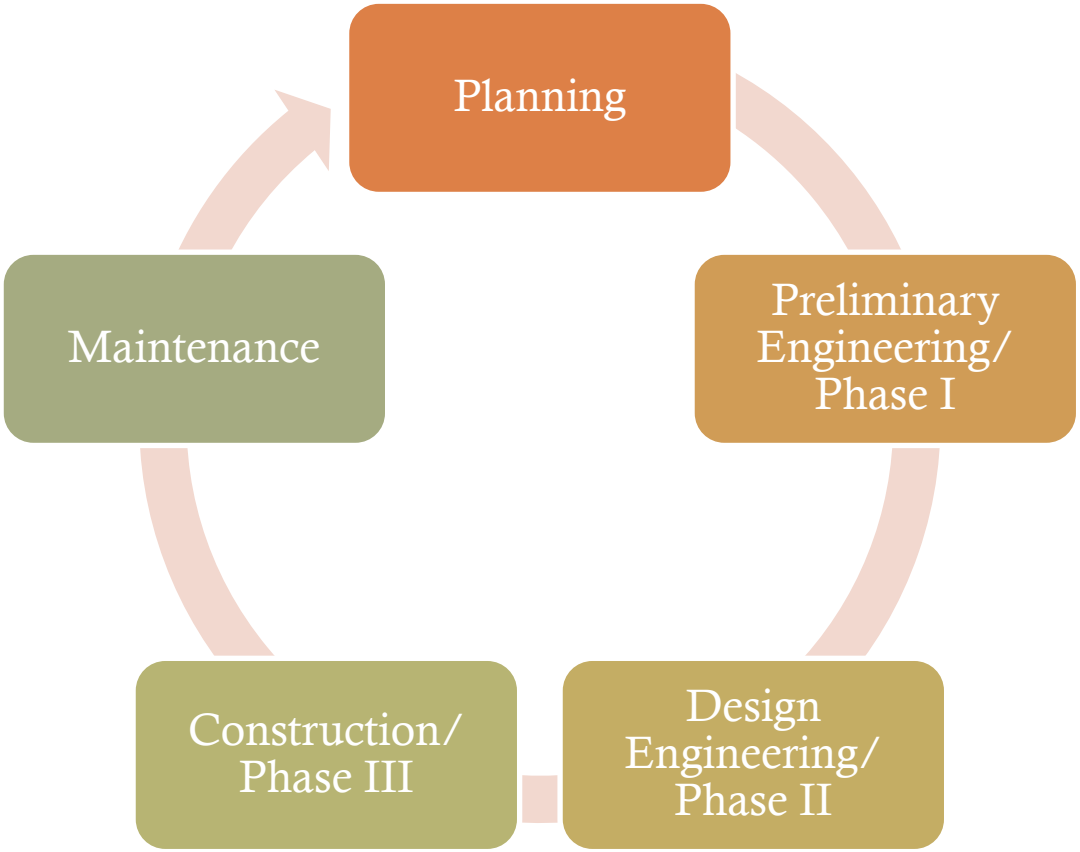


Figure 11: Transportation Project Cycle

Illinois Department of Transportation's (IDOT) Highway Improvement Program

The Illinois Department of Transportation (IDOT) releases their Highway Improvement Program on an annual basis. The most recent IDOT Program covers fiscal years 2018-2023 and identifies projects led by IDOT on State and U.S. routes throughout the State of Illinois. IDOT's 2018-2023 Highway Improvement Program totals $11.65 billion and includes an FY2018 annual program of $2.2 billion. This $11.65 billion in funding is split between improvements to the state highway system ($8.02 billion) and the local highway system ($3.63 billion). State projects located within McHenry County can be found here. Some highlights in the State 2018-2023 program include:

- Providing funding to maintain 2,463 miles of highways and replace or rehabilitate 707 bridges.
- Provide funding to maintain 743 miles and 274 bridges on the locally maintained system.
- Provide funding for railroad crossing safety improvements throughout the state.
- Provide funding for traffic and safety improvements that further enhance highway safety as part of IDOT's regular highway improvement program by targeting specific fatal and severe crash locations.
- Enhance public right-of-way accessibility as part of IDOT's regular highway improvement program by removing barriers to accessibility as identified in IDOT's Americans with Disabilities Act (ADA) Transition Plan.

FY 2018-2023 Highway Improvement Program
District 1
State Highways
MCHENRY COUNTY

Route/Street	Location	Improvements	Objectives	Est. Cost	City	MYP Years Past	MYP Years Current
US 12 MAIN ST	KENOSHA ST TO TRYON GROVE RD Miles = 2.00 System Maintenance	RESURFACING ADA IMPROVEMENTS RR FLAGGER	SAFETY PRESERVE SYSTEM TRANSPORTATION OPS	$890,000	RICHMOND	2	2019-2023
Needs Category: BACKLOG; Miles: 2.00; Roughness(IRI): ACCEPTABLE; Rutting: 0.18; AADT: 10,700; Truck Pct: 7.2; NHS: Y							
US 12	DITCHES 0.7 MI & 2.1 MI E OF ILL 31, 5.1 & 8.3 MI S OF STATE LINE & N OF OAK ST Bridge Maintenance	CULVERT REPAIR CULVERT REHABILITATION DRAINAGE	SAFETY PRESERVE SYSTEM	$600,000	RICHMOND	3	2018
US 14	DRAINAGE DITCH 3.6 MI S OF STATE LINE Bridge Maintenance	CULVERT REPLACEMENT	SAFETY PRESERVE SYSTEM	$250,000		2	2018
US 14	DITCH 0.9 MI & 2.4 MI S OF ILL 23 & 3.1 MI E OF ILL 23 Bridge Maintenance	CULVERT REPLACEMENT	SAFETY PRESERVE SYSTEM	$750,000		2	2018
US 14	BUNKER HILL RD TO ILL 47 Miles = 8.57 System Maintenance	RESURFACING	SAFETY PRESERVE SYSTEM	$2,995,000	WOODSTOCK	1	2019-2023
Needs Category: ACCRUING; Miles: 8.57; Roughness(IRI): ACCEPTABLE; Rutting: 0.12; AADT: 9,385; Truck Pct: 7.8; NHS: Y							
US 14	ILL 47 (EASTWOOD DR) TO LAKE SHORE DR Miles = 1.63 System Maintenance	RESURFACING	SAFETY PRESERVE SYSTEM	$1,110,000	WOODSTOCK	2	2019-2023
Needs Category: ACCRUING; Miles: 1.63; Roughness(IRI): ACCEPTABLE; Rutting: 0.14; AADT: 15,888; Truck Pct: 10.5; NHS: Y							
US 14 NORTHWEST HWY	PINGREE RD TO LAKE CO LINE Miles = 5.79 System Maintenance	RESURFACING ADA IMPROVEMENTS	SAFETY PRESERVE SYSTEM TRANSPORTATION OPS	$4,100,000	CRYSTAL LAKE CARY FOX RIVER GROVE	2	2019-2023
Needs Category: ACCRUING; Miles: 5.79; Roughness(IRI): ACCEPTABLE; Rutting: 0.15; AADT: 26,944; Truck Pct: 5.8; NHS: Y							

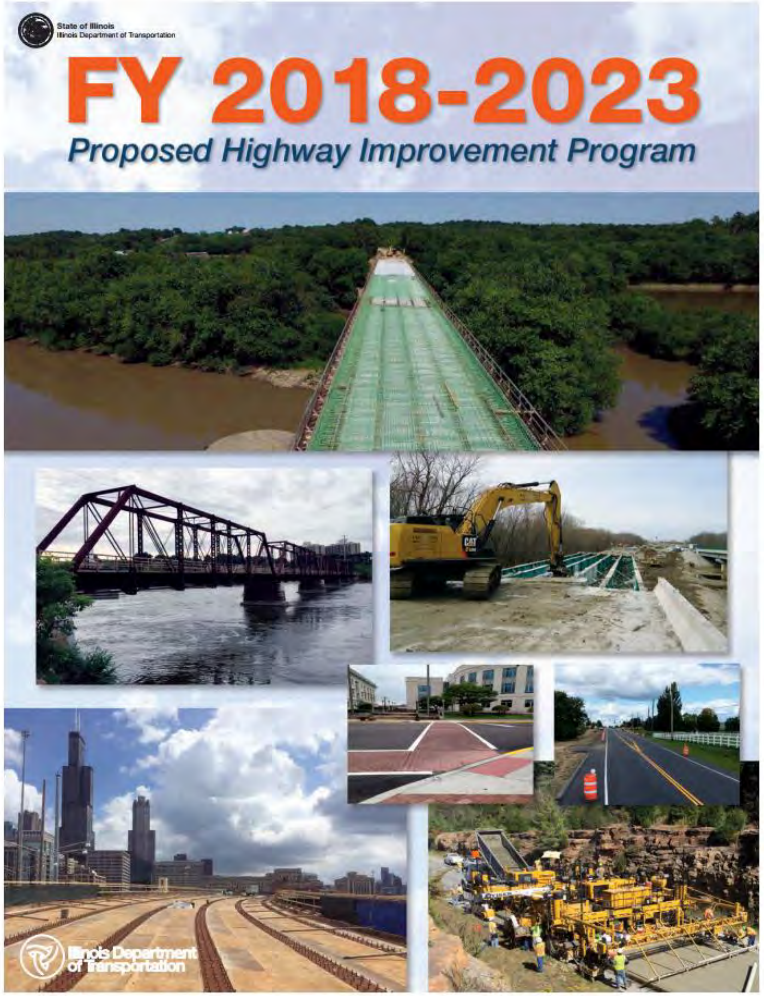
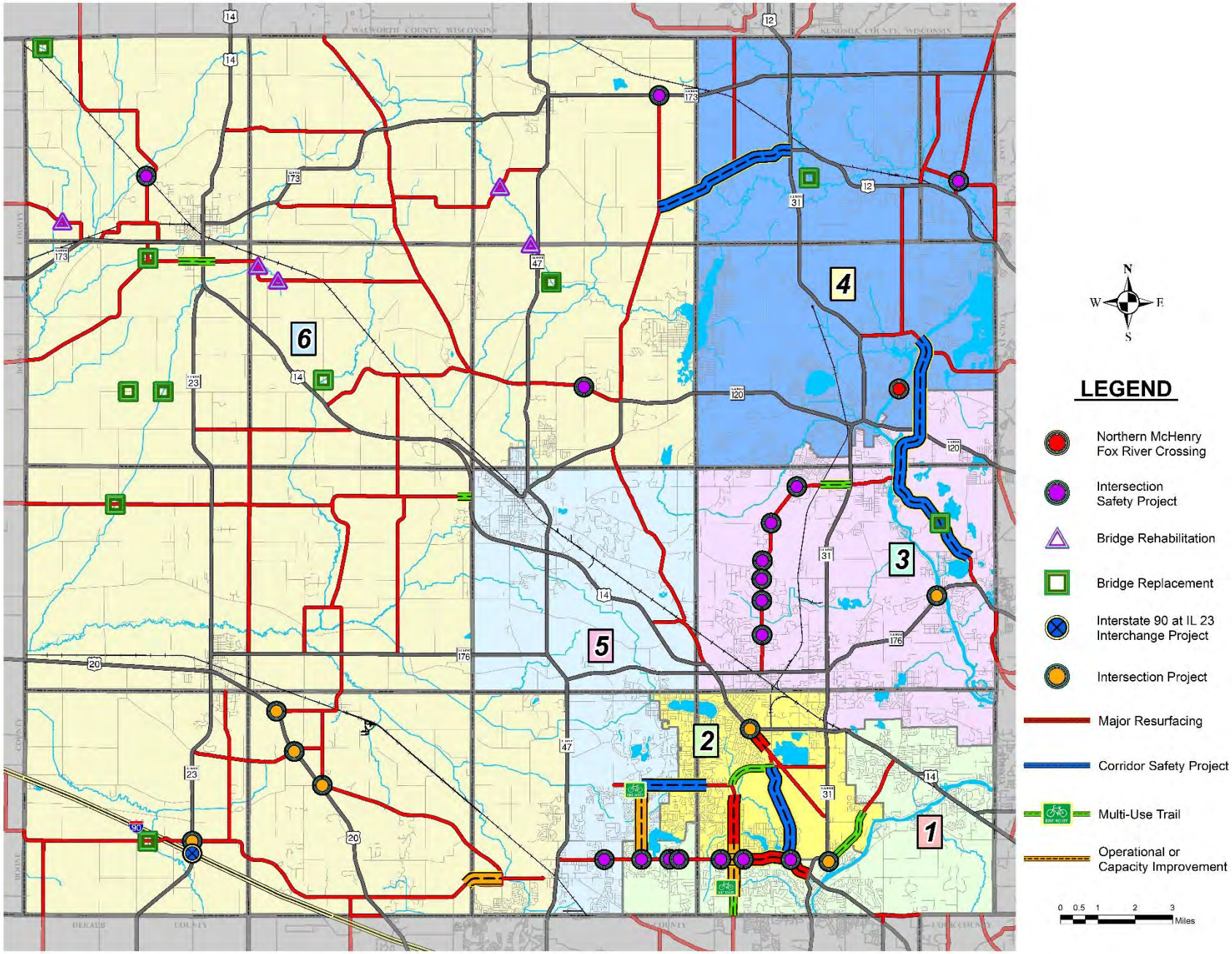


Figure 12: McHenry County 2019-2023 Programmed Projects - Locations Map



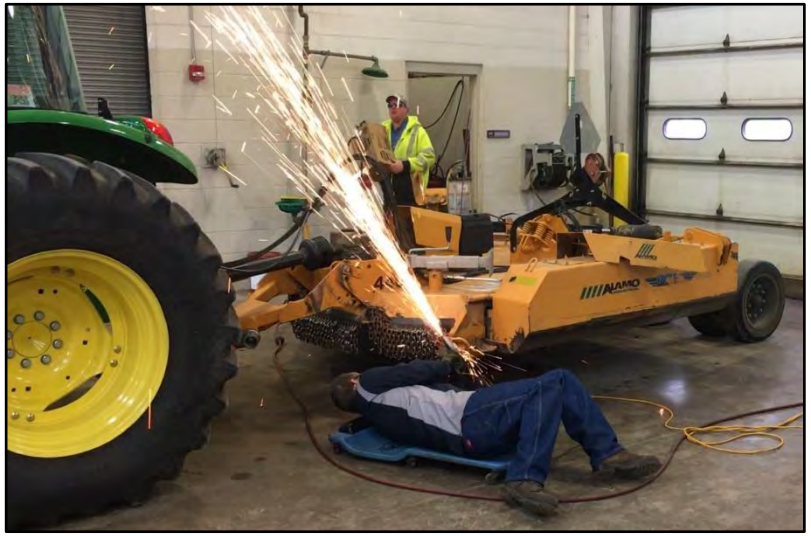
2. County Highway Maintenance Program

The McHenry County Division of Transportation is dedicated to maintaining the County Highways. In order to undertake maintenance activities more efficiently, the Division of Transportation has specialized working groups. The County has a sign shop to make and place needed signs and roadway striping. A vegetation section is dedicated to maintaining vegetation within the highway right-of-way. A mechanic shop maintains the vehicles, specialized equipment, and tools used by the Division of Transportation. The road crew oversees routine and emergency maintenance for roadway, shoulders, and drainage structures on County Highways.

Each year, the County purchases materials to replace drainage culverts, power lights and signals, paint traffic markings, replace and add new signage, and remove snow and ice from the County's Highways. Approximately $14.4 million in funding will be required over the next five years for these programs (See Table 6).

Table 6: Maintenance Program Summary

County Highway Maintenance Program	2019-2023 Programmed Costs
Bridge Preventative Maintenance	$520,404
Culvert Materials	$130,101
Finish Mowing Contract	$300,000
Guardrail Maintenance Program	$500,000
Highway Lighting Systems-Power	$487,286
Miscellaneous Culvert Projects	$893,357
Pavement Marking - Thermoplastic	$1,216,160
Pavement Marking - Paint	$1,327,030
ADA/PROWAG Maintenance Program	$1,000,000
Remote Salt Storage and Maintenance Facility	$500,000
Sign Materials	$514,357
Snow Fence	$250,000
Snow Removal Materials	$4,163,232
Street Sweeping Contract	$300,000
Traffic Signal/Lighting Maintenance	$1,894,999
Tree Planting Program	$260,202
Tree Trimming and Removal Program	$150,000
TOTAL	**$14,407,128**
Annual Average	**$2,881,426**



Bridge Preventative Maintenance

Title	Bridge Preventative Maintenance		
Scope of Work	Bridge Rehabilitation	*Municipality*	Countywide
Category	Preservation	*Board District*	All Board Districts
Lead Agency	McHenry County DOT	*Total Cost*	$520,404
Project ID	N/A	*Website*	N/A
Limits	Various bridges throughout McHenry County		
Description	This funding is to enable the MCDOT to protect its bridges from early deterioration by applying protective coating materials on concrete decks and wearing surfaces, cleaning and painting of steel bridge beams, cleaning and/or replacement of bridge bearings and repairing damaged bridge joints or damage to bridges that is in need of repair as a result of routine inspections. These items ensure that the useful life of each bridge the County maintains can be as long as possible. The funding is sufficient for 2 to 4 bridges to receive maintenance each year dependent on the activities performed. The specific bridges to be worked on are evaluated each year based on routine bridge inspections. There are currently 54 bridges under County jurisdiction.		

Location	Phase	Fund Source	2018	2019	2020	2021	2022	2023	2024	Total
Various Locations	MAINT	County Option MFT	$0	$100,000	$102,000	$104,040	$106,121	$108,243	$110,408	$520,404
		Total Maintenance	$0	$100,000	$102,000	$104,040	$106,121	$108,243	$110,408	$520,404
		Total Programmed		**$100,000**	**$102,000**	**$104,040**	**$106,121**	**$108,243**		**$520,404**

Total County Cost: $520,404

Culvert Materials

Title	Purchase of Culvert Materials		
Scope of Work	Culverts	*Municipality*	Countywide
Category	Preservation	*Board District*	All Board Districts
Lead Agency	McHenry County DOT	*Total Cost*	$130,101
Project ID	N/A	*Website*	N/A
Limits	Various culverts throughout McHenry County		
Description	This funding is for the annual purchase of roadway culverts. Culverts allow for water to flow under the roadway.		

Location	Phase	Fund Source	2018	2019	2020	2021	2022	2023	2024	Total
Various Locations	MAINT	County Option MFT	$25,500	$25,000	$25,500	$26,010	$26,530	$27,061	$27,602	$130,101
		Total Maintenance	$25,500	$25,000	$25,500	$26,010	$26,530	$27,061	$27,602	$130,101
		Total Programmed		**$25,000**	**$25,500**	**$26,010**	**$26,530**	**$27,061**		**$130,101**

Total County Costs: $130,101

Finish Mowing Contract

Title	Finish Mowing Contract		
Scope of Work	Maintenance	*Municipality*	Countywide
Category	Preservation	*Board District*	All Board Districts
Lead Agency	McHenry County DOT	*Total Cost*	$300,000
Project ID	N/A	*Website*	N/A
Limits	Various locations throughout McHenry County		
Description	Beginning in 2019, MCDOT will begin utilizing private contractors for finish mowing of landscaped medians in the southeast corner of McHenry County. The McHenry County Municipal Partnership Initiative (MC-MPI) will be utilized for this contract work.		

Location	Phase	Fund Source	2018	2019	2020	2021	2022	2023	2024	Total
Various Locations	MAINT	County Option MFT	$0	$60,000	$60,000	$60,000	$60,000	$60,000	$60,000	$300,000
		Total Maintenance	$0	$60,000	$60,000	$60,000	$60,000	$60,000	$60,000	$300,000
		Total Programmed		**$60,000**	**$60,000**	**$60,000**	**$60,000**	**$60,000**		**$300,000**

Total County Cost: $300,000

Guardrail Maintenance Program

Title	Guardrail Maintenance Program		
Scope of Work	Guardrail	*Municipality*	Countywide
Category	Preservation	*Board District*	All Board Districts
Lead Agency	McHenry County DOT	*Total Cost*	$500,000
Project ID	N/A	*Website*	N/A
Limits	Various locations throughout McHenry County		
Description	This funding is to repair damaged guardrail and upgrade portions of guardrail to meet current standards. Some costs for damaged guardrail are recouped from drivers responsible for the damage if a police report is filed. The County has a total of approximately 14 miles of guardrail in its system.		

Location	Phase	Fund Source	2018	2019	2020	2021	2022	2023	2024	Total
Various Locations	MAINT	County Option MFT	$100,000	$100,000	$100,000	$100,000	$100,000	$100,000	$100,000	$500,000
		Total Maintenance	$100,000	$100,000	$100,000	$100,000	$100,000	$100,000	$100,000	$500,000
		Total Programmed		**$100,000**	**$100,000**	**$100,000**	**$100,000**	**$100,000**		**$500,000**

Total County Cost: $500,000

Highway Lighting Systems-Power

Title	Highway Lighting Systems		
Scope of Work	Signals	*Municipality*	Various Municipalities
Category	Preservation	*Board District*	All Board Districts
Lead Agency	McHenry County DOT	*Total Cost*	$487,286
Project ID	N/A	*Website*	N/A
Limits	Various locations throughout McHenry County		
Description	This funding is for the electricity required to light all county roadway lighting and traffic signals. Over the last eight years, the number of street lights on the County roadway system has more than doubled, from 250 street lights in 2009 to 559 in 2017. During that same time period, the number of traffic signals on the County system has increased from 32 to 42 signals, or by over 30%.		

Location	Phase	Fund Source	2018	2019	2020	2021	2022	2023	2024	Total
Various Locations	MAINT	County Option MFT	$91,800	$93,636	$95,509	$97,419	$99,367	$101,355	$103,382	$487,286
		Total Maintenance	$91,800	$93,636	$95,509	$97,419	$99,367	$101,355	$103,382	$487,286
		Total Programmed		**$93,636**	**$95,509**	**$97,419**	**$99,367**	**$101,355**		**$487,286**

Total County Cost: $487,286

Miscellaneous Culvert Projects

Title	Miscellaneous Culvert Projects		
Scope of Work	Culverts	*Municipality*	Various Municipalities
Category	Preservation	*Board District*	All Board Districts
Lead Agency	McHenry County DOT	*Total Cost*	$893,357
Project ID	N/A	*Website*	N/A
Limits	Various locations throughout McHenry County		
Description	This funding is for the rehabilitation of roadway culverts under various County Highways that Division of Transportation staff are unable to repair due to the scope of the projects.		

Location	Phase	Fund Source	2018	2019	2020	2021	2022	2023	2024	Total
Various Locations	MAINT	County Option MFT	$168,300	$171,666	$175,099	$178,601	$182,173	$185,817	$189,533	$893,357
		Total Maintenance	$168,300	$171,666	$175,099	$178,601	$182,173	$185,817	$189,533	$893,357
		Total Programmed		**$171,666**	**$175,099**	**$178,601**	**$182,173**	**$185,817**		**$893,357**

Total County Costs: $893,357

Pavement Marking - Thermoplastic

Title	Pavement Marking - Thermoplastic		
Scope of Work	Maintenance	*Municipality*	Various Municipalities
Category	Preservation	*Board District*	All Board Districts
Lead Agency	McHenry County DOT	*Total Cost*	$1,216,160
Project ID	N/A	*Website*	N/A
Limits	Various locations throughout McHenry County		
Description	This funding is for thermoplastic pavement markings.		

Location	Phase	Fund Source	2018	2019	2020	2021	2022	2023	2024	Total
Various Locations	MAINT	County MFT	$120,000	$416,160	$0	$0	$0	$0	$0	$416,160
	MAINT	County Option MFT	$0	$0	$200,000	$200,000	$200,000	$200,000	$200,000	$800,000
		Total Maintenance	$120,000	$416,160	$200,000	$200,000	$200,000	$200,000	$200,000	$1,216,160
		Total Programmed		**$416,160**	**$200,000**	**$200,000**	**$200,000**	**$200,000**		**$1,216,160**

Total County Cost: $1,216,160

Pavement Marking – Paint

Title	Pavement Marking - Paint		
Scope of Work	Maintenance	*Municipality*	Various Municipalities
Category	Preservation	*Board District*	All Board Districts
Lead Agency	McHenry County DOT	*Total Cost*	$1,327,030
Project ID	N/A	*Website*	N/A
Limits	Various locations throughout McHenry County		
Description	This funding is for the purchase of paint.		

Location	Phase	Fund Source	2018	2019	2020	2021	2022	2023	2024	Total
Various Locations	MAINT	County Option MFT	$240,000	$255,000	$260,100	$265,302	$270,608	$276,020	$281,541	$1,327,030
		Total Maintenance	$240,000	$255,000	$260,100	$265,302	$270,608	$276,020	$281,541	$1,327,030
		Total Programmed		**$255,000**	**$260,100**	**$265,302**	**$270,608**	**$276,020**		**$1,327,030**

Total County Cost: $1,327,030

PROWAG / Americans with Disabilities Act (ADA) Maintenance Program

Title	Americans with Disabilities Act (ADA)/Public Right of Way Accessibility Guidelines (PROWAG) Maintenance Program		
Scope of Work	ADA	*Municipality*	Various Municipalities
Category	Modernization	*Board District*	All Board Districts
Lead Agency	McHenry County DOT	*Total Cost*	$1,000,000
Project ID	N/A	*Website*	N/A
Limits	Various locations throughout McHenry County		
Description	This funding is for updating the accessibility of the County's roadway system in accordance of the American with Disabilities Act (ADA). The County will hire a consultant in 2018 to finalize the ADA Transition Plan and work will start on construction in 2019. The County also ensures that its roadways are accessible to people with disabilities during each resurfacing and construction project.		

Location	Phase	Fund Source	2018	2019	2020	2021	2022	2023	2024	Total
ADA Transition Plan	ENGR	County MFT	$25,000	$0	$0	$0	$0	$0	$0	$0
	ENGR	Federal SPR Grant	$100,000	$0	$0	$0	$0	$0	$0	$0
		Total Engineering	$125,000	$0	$0	$0	$0	$0	$0	$0
Various Locations	MAINT	County MFT		$200,000	$0	$0	$0	$0	$0	$200,000
	MAINT	County Option MFT		$0	$200,000	$200,000	$200,000	$200,000	$200,000	$800,000
		Total Maintenance		$200,000	$200,000	$200,000	$200,000	$200,000	$200,000	$1,000,000
		Total Programmed		**$200,000**	**$200,000**	**$200,000**	**$200,000**	**$200,000**		**$1,000,000**

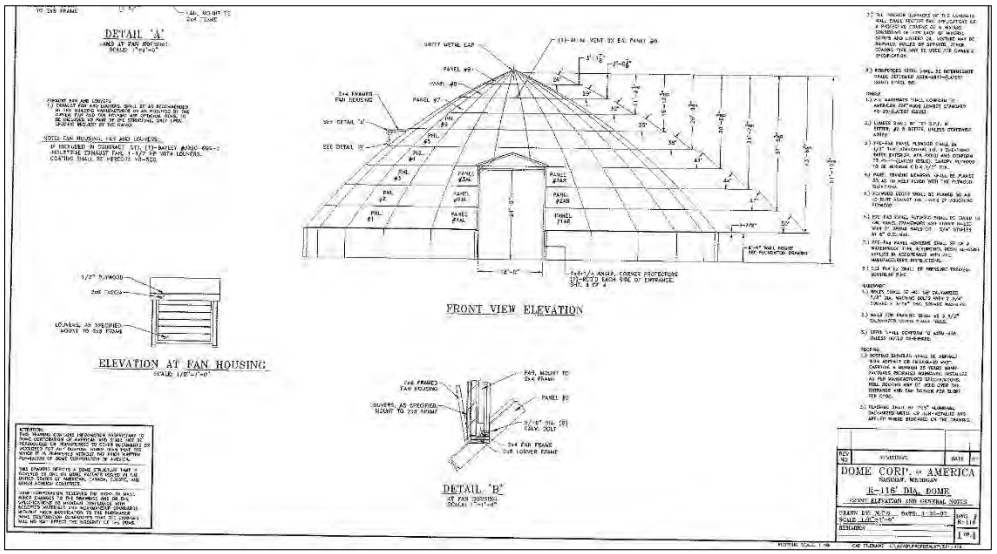
Total County Cost: $1,000,000

Remote Salt Storage and Maintenance Facility

Title	Remote Salt Storage and Maintenance Facility		
Scope of Work	Facility	*Municipality*	TBD
Category	Modernization	*Board District*	TBD
Lead Agency	McHenry County DOT	*Total Cost*	$500,000
Project ID	N/A	*Website*	N/A
Limits	Location TBD		
Description	This funding is for the land acquisition, design and construction of a remote salt storage facility for maintenance operations. The County hopes to find an area to provide additional salt storage capability in order to protect itself and possibly other agencies from dramatic swings in the price paid for salt. This would allow for the ability to take delivery of a year's worth of salt, with the added benefit of having a supply of salt available to draw from in the event that suppliers are unable to deliver salt to the County due to weather or supply chain limitations.		

Location	Phase	Fund Source	2018	2019	2020	2021	2022	2023	2024	Total
Location TBD	ENGR	County Option MFT	$0	$0	$0	$500,000	$0	$0	$0	$500,000
		Total Engineering	$0	$0	$0	$500,000	$0	$0	$0	$500,000
	CONST	County Option MFT	$0	$0	$0	$0	$0	$0	$4,000,000	$0
		Total Construction	$0	$0	$0	$0	$0	$0	$4,000,000	$0
		Total Programmed		**$0**	**$0**	**$500,000**	**$0**	**$0**		**$500,000**

Total County Cost: $500,000



Sign Materials

Title	Sign Materials		
Scope of Work	Maintenance	*Municipality*	Various Municipalities
Category	Preservation	*Board District*	All Board Districts
Lead Agency	McHenry County DOT	*Total Cost*	$514,357
Project ID	N/A	*Website*	N/A
Limits	Various locations throughout McHenry County		
Description	This funding is for the annual purchase of sign materials. These materials include sign blanks, reflective materials, and posts. The Division of Transportation has the capability to manufacture and install many of the County's signs in-house. Upgrades to the County's signage over the last ten years has greatly reduced future ongoing maintenance needs.		

Location	Phase	Fund Source	2018	2019	2020	2021	2022	2023	2024	Total
Various Locations	MAINT	County Option MFT	$96,900	$98,838	$100,815	$102,831	$104,888	$106,985	$109,125	$514,357
		Total Maintenance	$96,900	$98,838	$100,815	$102,831	$104,888	$106,985	$109,125	$514,357
		Total Programmed		**$98,838**	**$100,815**	**$102,831**	**$104,888**	**$106,985**		**$514,357**

Total County Cost: $514,357

Snow Fence Program

Title	Snow Fence Program		
Scope of Work	Maintenance	*Municipality*	Various Municipalities
Category	Preservation	*Board District*	All Board Districts
Lead Agency	McHenry County DOT	*Total Cost*	$250,000
Project ID	N/A	*Website*	*N/A*
Limits	Various locations throughout McHenry County		
Description	This funding is used to contract the use of vegetation materials on private property to minimize drifting snow in key areas of the County. Minimizing drifting snow reduces the amount of anti-icing compound used on our roadways, and it saves the County money on labor costs.		

Location	Phase	Fund Source	2018	2019	2020	2021	2022	2023	2024	Total
Various Locations	MAINT	County Option MFT	$40,800	$50,000	$50,000	$50,000	$50,000	$50,000	$50,000	$250,000
		Total Maintenance	$40,800	$50,000	$50,000	$50,000	$50,000	$50,000	$50,000	$250,000
		Total Programmed		**$50,000**	**$50,000**	**$50,000**	**$50,000**	**$50,000**		**$250,000**

Total County Cost: $250,000

Snow and Ice Control Materials

Title	Snow and Ice Control Materials		
Scope of Work	Maintenance	*Municipality*	Various Municipalities
Category	Preservation	*Board District*	All Board Districts
Lead Agency	McHenry County DOT	*Total Cost*	$4,163,232
Project ID	N/A	*Website*	N/A
Limits	All County Roadways		
Description	This funding is for the annual purchase of snow and ice control materials. During the most recent winter season, $309,000 was spent on salt and another $30,166 was spent on other snow removal materials. Over the last ten years, the Division of Transportation has averaged $900,000 per year in snow and ice control materials purchases.		

Location	Phase	Fund Source	2018	2019	2020	2021	2022	2023	2024	Total
Various Locations	MAINT	County Option MFT	$371,740	$800,000	$816,000	$832,320	$848,966	$865,946	$883,265	$4,163,232
		Total Maintenance	$371,740	$800,000	$816,000	$832,320	$848,966	$865,946	$883,265	$4,163,232
		Total Programmed		**$800,000**	**$816,000**	**$832,320**	**$848,966**	**$865,946**		**$4,163,232**

Total County Cost: $4,163,232

Street Sweeping Contract

Title	Street Sweeping Contract		
Scope of Work	Maintenance	*Municipality*	Various Municipalities
Category	Preservation	*Board District*	All Board Districts
Lead Agency	McHenry County DOT	*Total Cost*	$300,000
Project ID	N/A	*Website*	N/A
Limits	All County Roadways		
Description	Beginning in 2019, MCDOT will contract out street sweeping services through the McHenry County Municipal Partnership Initiative (MC-MPI).		

Location	Phase	Fund Source	2018	2019	2020	2021	2022	2023	2024	Total
Various Locations	MAINT	County Option MFT	$0	$60,000	$60,000	$60,000	$60,000	$60,000	$60,000	$300,000
		Total Maintenance	$0	$60,000	$60,000	$60,000	$60,000	$60,000	$60,000	$300,000
		Total Programmed		**$60,000**	**$60,000**	**$60,000**	**$60,000**	**$60,000**		**$300,000**

Total County Costs: $300,000

Traffic Signal/Lighting Maintenance

Title	Traffic Signal/Lighting Maintenance		
Scope of Work	Signals	*Municipality*	Various Municipalities
Category	Modernization	*Board District*	All Board Districts
Lead Agency	McHenry County DOT	*Total Cost*	$1,894,999
Project ID	N/A	*Website*	N/A
Limits	Various County Roadways		
Description	This funding is for a 24-hour repair and routine maintenance contract to maintain traffic signals and lighting systems on County Roadways. MCDOT staff maintains 42 traffic signals, 23 roadway lighting systems and 41 roadway flasher systems throughout the County under its jurisdiction. Due to the number of systems and the required 24-hour response time needed for adequate service, the County contracts with a private firm to maintain these systems on a daily, on-call, as-needed basis.		

Location	Phase	Fund Source	2018	2019	2020	2021	2022	2023	2024	Total
Various Locations	MAINT	County Option MFT	$357,000	$364,140	$371,423	$378,851	$386,428	$394,157	$402,040	$1,894,999
		Total Maintenance	$357,000	$364,140	$371,423	$378,851	$386,428	$394,157	$402,040	$1,894,999
		Total Programmed		**$364,140**	**$371,423**	**$378,851**	**$386,428**	**$394,157**		**$1,894,999**

Total County Cost: $1,894,999

Tree Planting Program

Title	Tree Planting Program		
Scope of Work	Maintenance	*Municipality*	Various Municipalities
Category	Preservation	*Board District*	All Board Districts
Lead Agency	McHenry County DOT	*Total Cost*	$260,202
Project ID	N/A	*Website*	N/A
Limits	Various County Roadways		
Description	This funding is for the purchase and planting of trees along County roadways. In urban environments street trees reduce stormwater runoff and harmful air pollutants, lower the surrounding air temperature, and provide shade and safety for pedestrians. In addition, trees have been shown to add value to adjacent homes and businesses, and help to reduce traffic speeds to more appropriate levels.		

Location	Phase	Fund Source	2018	2019	2020	2021	2022	2023	2024	Total
Various Locations	MAINT	County Option MFT	$0	$50,000	$51,000	$52,020	$53,060	$54,122	$55,204	$260,202
		Total Maintenance	$0	$50,000	$51,000	$52,020	$53,060	$54,122	$55,204	$260,202
		Total Programmed		**$50,000**	**$51,000**	**$52,020**	**$53,060**	**$54,122**		**$260,202**

Total County Cost: $260,202

Tree Trimming and Removal Program

Title	Tree Trimming and Removal Program		
Scope of Work	Maintenance	*Municipality*	Various Municipalities
Category	Preservation	*Board District*	All Board Districts
Lead Agency	McHenry County DOT	*Total Cost*	$150,000
Project ID	N/A	*Website*	N/A
Limits	Various County Roadways		
Description	This funding is for a contract for large and emergency tree trimming and removal.		

Location	Phase	Fund Source	2018	2019	2020	2021	2022	2023	2024	Total
Various Locations	MAINT	County Option MFT	$30,000	$30,000	$30,000	$30,000	$30,000	$30,000	$30,000	$150,000
		Total Maintenance	$30,000	$30,000	$30,000	$30,000	$30,000	$30,000	$30,000	$150,000
		Total Programmed		**$30,000**	**$30,000**	**$30,000**	**$30,000**	**$30,000**		**$150,000**

Total County Cost: $150,000

MOORE

Saddlebred Tr
STOP

3. County Highway Pavement Preservation Program

The management of the County's pavement includes constant monitoring and improvements such as resurfacing, applying rejuvenator, crack sealing and micro-surfacing to extend the useable life of the County Highways. The premise is to select the right project at the right time with the right treatment. Despite preventative maintenance, a roadway will eventually need to be completely reconstructed. Such improvements are necessary to maintain the investment the public has made in the County Highway System. Neglecting pavement management needs can result in safety hazards, serious deterioration of the infrastructure, damage to vehicles traveling on the driving surface, and increased future improvement costs. Like general maintenance activities, these pavement preservation activities are considered a first priority for funding. Between 2019 and 2023, $29.8 million in pavement preservation projects are programmed (See Table 7). The 2019 pavement preservation program is shown as Figure 12 on the following page.

County Highway Pavement Management Program	2019-2023 Programmed Costs	
Condition Evaluation/GIS Pavement Management Updates	$	265,000
County Pavement Preservation	$	22,800,000
Materials Testing	$	660,000
Randall Road and Algonquin Road Resurfacing	$	5,000,000
Virginia Road Complete Street Resurfacing Project	$	1,100,000
TOTAL	**$**	**29,825,000**
Annual Average	**$**	**5,965,000**

Table 7: 2019-2023 Pavement Preservation Program Summary

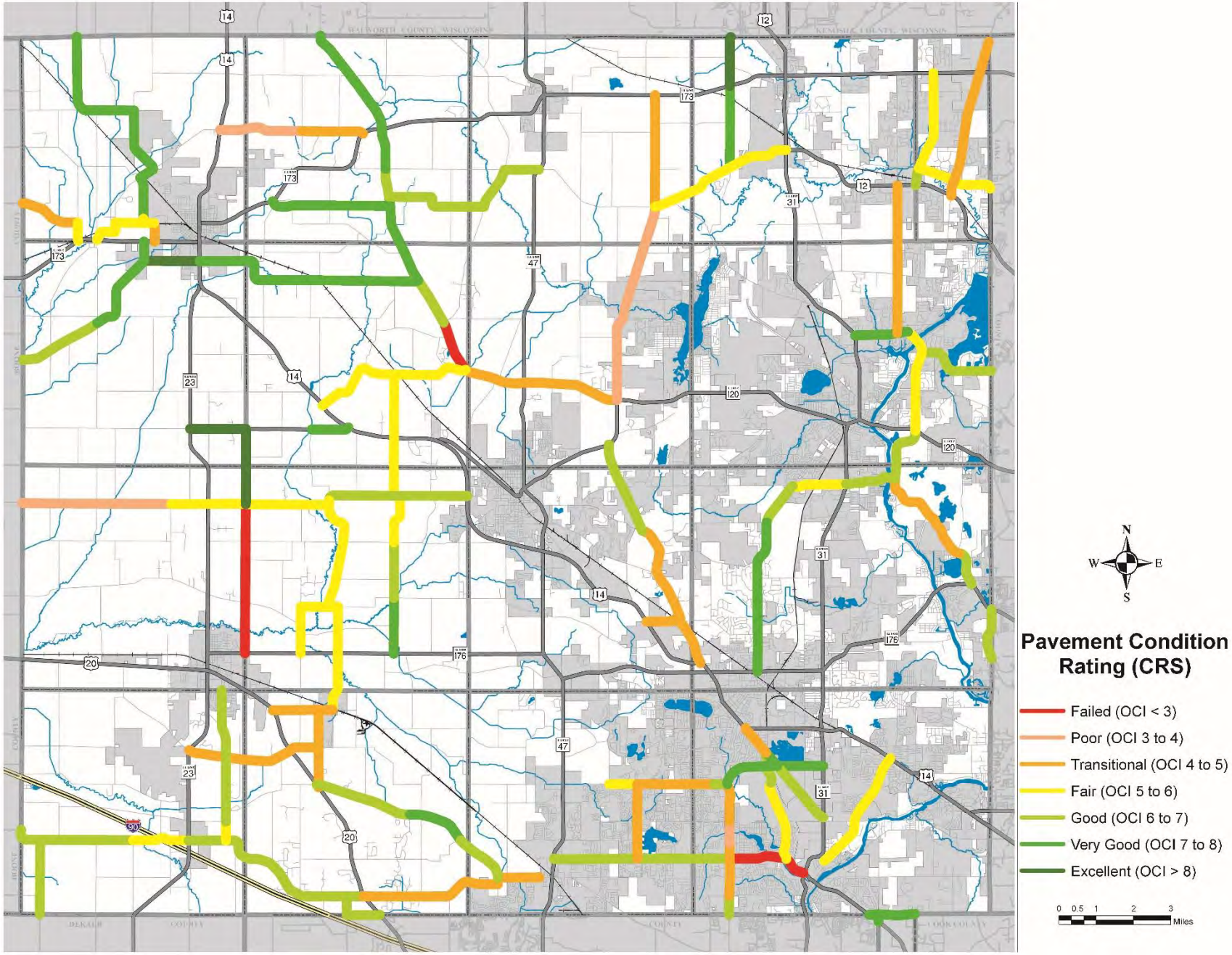


Figure 13: Pavement Condition of County Roadways Last Measured in 2015

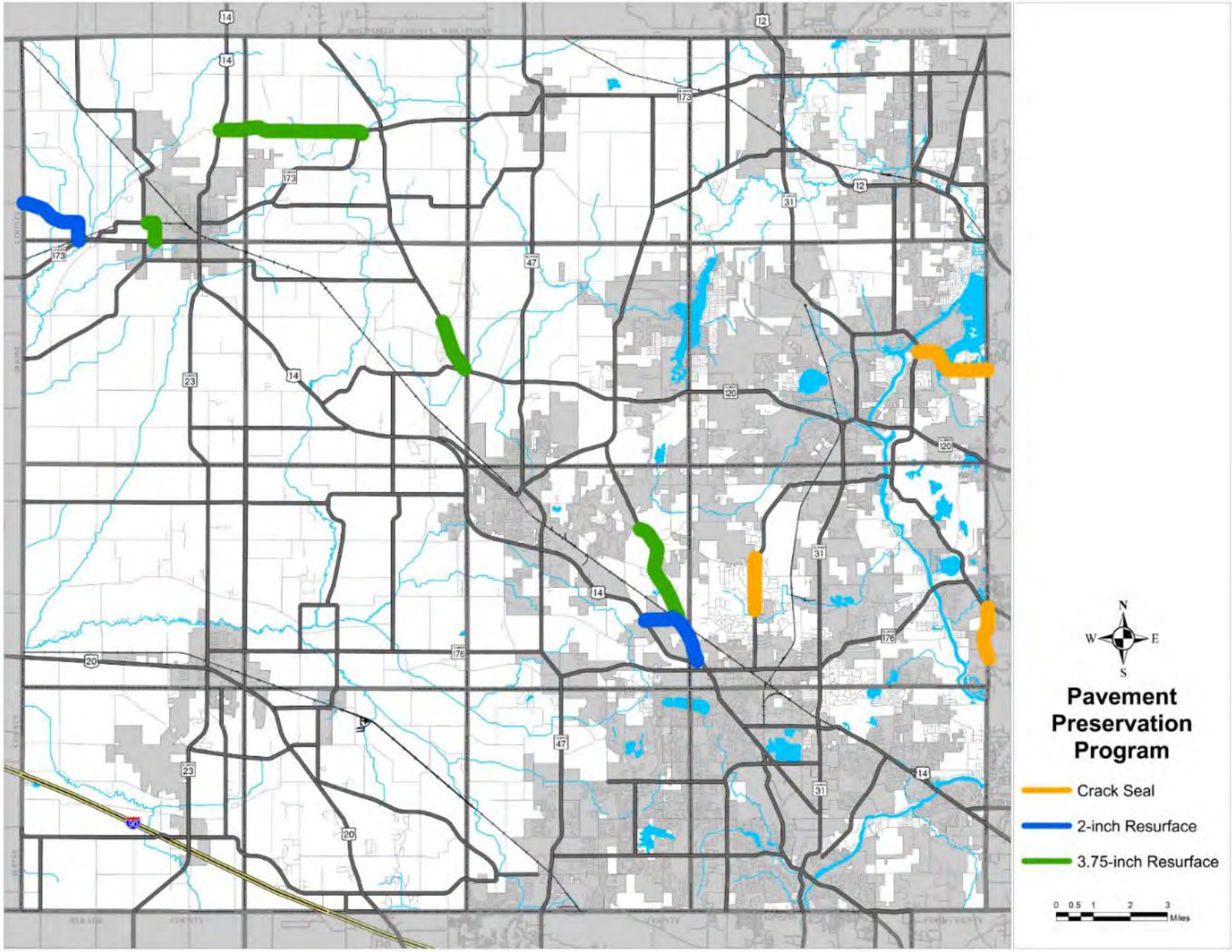


Figure 14: 2018 Pavement Preservation Program

Condition Evaluation/GIS Pavement Management Updates

Title	Condition Evaluation/GIS Pavement Management Updates		
Scope of Work	Pavement Preservation	*Municipality*	Various Municipalities
Category	Preservation	*Board District*	All Board Districts
Lead Agency	McHenry County DOT	*Total Cost*	$265,000
Project ID	N/A	*Website*	N/A
Limits	Various County Roadways		
Description	This funding is for the evaluation of pavement conditions of County roadways and data collection needed for the GIS Pavement Management updates. This provides data to determine which roads need what pavement management activity and when.		

Location	Phase	Fund Source	2018	2019	2020	2021	2022	2023	2024	Total
Various Locations	ENGR	RTA Sales Tax	$125,000	$0	$130,000	$0	$135,000	$0	$140,000	$265,000
		Total Engineering	$125,000	$0	$130,000	$0	$135,000	$0	$140,000	$265,000
		Total Programmed		**$0**	**$130,000**	**$0**	**$135,000**	**$0**		**$265,000**

Total County Cost: $265,000

County Pavement Preservation

Title	County Pavement Preservation & Resurfacing		
Scope of Work	Pavement Preservation	*Municipality*	Various Municipalities
Category	Preservation	*Board District*	All Board Districts
Lead Agency	McHenry County DOT	*Total Cost*	$22,800,000
Project ID	N/A	*Website*	mchenrycountygis.org/ConstructionProjects/#/MapView
Limits	Various County Roadways		
Description	The right road, with the right treatment, at the right time. This funding is allocated each year to preserve and resurface approximately 5% of County Highway system lane miles. Pavement preservation techniques include rejuvenator application (which slows down the oxidation process and reduces pavement surface deterioration), crack sealing (which protects the pavement structure by limiting moisture intrusion into the roadway base) and thin lift treatments (which further extends the life the riding surface). Each of these techniques are implemented at different times over the life of a resurfaced pavement with the goal of preserving pavement integrity and the useful life of the highway.		

Segment	Phase	Fund Source	2018	2019	2020	2021	2022	2023	2024	Total
Various Locations	CONST	County MFT	$2,000,000	$3,000,000	$3,200,000	$3,700,000	$3,700,000	$3,700,000	$3,700,000	$17,300,000
Various Locations	CONST	RTA Sales Tax	$2,452,300	$1,500,000	$0	$1,400,000	$1,300,000	$1,300,000	$1,300,000	$5,500,000
		Total Construction	$4,452,300	$4,500,000	$3,200,000	$5,100,000	$5,000,000	$5,000,000	$5,000,000	$22,800,000
		Total Programmed		**$4,500,000**	**$3,200,000**	**$5,100,000**	**$5,000,000**	**$5,000,000**		**$22,800,000**

Total County Cost: $22,800,000

Figure 15: 2019/2020 Pavement Preservation Program

Treatment	2019	2020
Crack Seal	**18.52 Total Lane Miles** Franklinville Road - Garden Valley Road to Collins Road Johnsburg Road - IL31 to Chapel Hill Road Walkup Road – IL176 to Live Oak Crystal Lake Road – Crystal Springs Road to Bull Valley Road	**48.58 Total Lane Miles** Airport Road – Flat Iron Road to US14 Chapel Hill Road – River Road to IL120 Dunham Road – IL23 to US14 Flat Iron Road – Island Road to IL173 Franklinville Road – IL176 to Garden Valley Road Lawrence Road – State Line Road to Oak Grove Road Lawrence Road – Ramer Road to Graf Road River Road – Charles J Miller Road to Chapel Hill Road Tryon Grove Road – Greenwood Road to US12
Mill & Resurface (2")	**27.77 Total Lane Miles** Greenwood Road – Charles Road to IL173 Deep Cut Road – US14 to Nelson Road Nelson Road – Deep Cut Road to Charles Road	**No 2" Resurfacing Planned**
Thin Lift Overlay (3/4")	**8.56 Total Lane Miles** Tryon Grove Road - Greenwood Road to US12	**No Thin Lift Overlay Planned**
Mill & Resurface (4")	**10.68 Total Lane Miles** Chapel Hill Road – Salem Avenue to Linden Avenue Deerpass Road - IL176 to Kishwaukee Valley Road Lawrence Road – IL173 to Ramer Road Ramer Road – Oak Grove Road to Lawrence Road Extension Main Street (Huntley) – Marengo Road to Lois Lane Bull Valley Road – Crystal Lake Road to UP Railroad	**21.37 Total Lane Miles** Kishwaukee Valley Road – County Line Road to IL23 Pyott Road – Algonquin Road to Oak Street

Figure 16: Quality Assurance for Pavement Preservation - Microsurfacing

Materials Testing

Title	Materials Testing		
Scope of Work	Pavement Preservation	*Municipality*	Various Municipalities
Category	Preservation	*Board District*	All Board Districts
Lead Agency	McHenry County DOT	*Total Cost*	$660,000
Project ID	N/A	*Website*	N/A
Limits	Various County Roadways		
Description	This funding is for the required engineering services to test pavement materials in accordance with IDOT requirements and investigate highway subsurface for all County paving and construction projects.		

Segment	Phase	Fund Source	2018	2019	2020	2021	2022	2023	2024	Total
Various Locations	CONST	RTA Sales Tax	$132,000	$132,000	$132,000	$132,000	$132,000	$132,000	$132,000	$660,000
		Total Construction	$132,000	$132,000	$132,000	$132,000	$132,000	$132,000	$132,000	$660,000
		Total Programmed		**$132,000**	**$132,000**	**$132,000**	**$132,000**	**$132,000**		**$660,000**

Total County Cost: $660,000

Randall Road and Algonquin Road Resurfacing

Title	Randall Road and Algonquin Road Resurfacing Projects		
Scope of Work	Pavement Preservation	*Municipality*	Crystal Lake, Lake in the Hills and Algonquin
Category	Preservation	*Board District*	District 1, District 2
Lead Agency	McHenry County DOT	*Total Cost*	$5,000,000
Project ID	N/A	*Website*	N/A
Limits	Randall Road from Alexandra Boulevard to Acorn Lane. Algonquin Road from Crystal Lake Road to Illinois Route 31 (3.2 total miles)		
Description	This resurfacing is outside the project limits of the Randall Road project which is described in detail later in this document. This resurfacing project will address the need to preserve the pavement of both Randall and Algonquin Roads and is anticipated to be constructed immediately following the Randall Road widening project. This funding is for resurfacing, barrier warrant upgrades, curb repairs, ADA improvements, and the addition of bicycle and pedestrian accommodations.		

Segment	Phase	Fund Source	2018	2019	2020	2021	2022	2023	2024	Total
Randall Road	CONST	RTA Sales Tax	$0	$0	$0	$2,500,000	$0	$0	$0	$2,500,000
		Total Construction	$0	$0	$0	$2,500,000	$0	$0	$0	$2,500,000
Algonquin Road	CONST	County Option MFT	$0	$0	$0	$0	$0	$1,200,000	$0	$1,200,000
		RTA Sales Tax	$0	$0	$0	$0	$0	$1,300,000	$0	$1,300,000
		Total Construction	$0	$0	$0	$0	$0	$2,500,000	$0	$2,500,000
		Total Programmed		**$0**	**$0**	**$2,500,000**	**$0**	**$2,500,000**		**$5,000,000**

Total County Cost: $5,000,000

Virginia Road Complete Street Resurfacing Project

Title	Virginia Road Complete Street Resurfacing Project		
Scope of Work	Pavement Preservation	*Municipality*	City of Crystal Lake
Category	Preservation	*Board District*	District 2
Lead Agency	McHenry County DOT	*Total Cost*	$1,100,000
Project ID	N/A	*Website*	N/A
Limits	Virginia Road, from U.S. 14 to Main Street		
Description	This funding is for the resurfacing and addition of bicycle and pedestrian accommodations to Virginia Road, from U.S. 14 to Main Street in Crystal Lake.		

Segment	Phase	Fund Source	2018	2019	2020	2021	2022	2023	2024	Total
Virginia Road	ENGR	County Option MFT	$0	$100,000	$0	$0	$0	$0	$0	$100,000
		Total Engineering	$0	$100,000	$0	$0	$0	$0	$0	$100,000
Virginia Road	CONST	RTA Sales Tax	$0	$0	$0	$1,000,000	$0	$0	$0	$1,000,000
		Total Construction	$0	$0	$0	$1,000,000	$0	$0	$0	$1,000,000
		Total Programmed		**$100,000**	**$0**	**$1,000,000**	**$0**	**$0**		**$1,100,000**

Total County Cost: $1,100,000

4. County and Township Bridge Program

In conjunction with biennial bridge inspections, the Division of Transportation applies a pre-emptive approach to identify bridge structures, drainage ways, and storm sewer systems requiring reconstruction and/or having the ability to be rehabilitated before further deterioration can occur. This approach allows for more cost-effective measures to protect the County's investment in bridge structures. Between 2019 and 2023, $22.0 million in bridge work is programmed including funding to replace, rehabilitate, and repair 19 bridges and culverts. Of that amount, $7.3 million will come from County funding sources.

In general, bridge replacement projects are eligible for federal bridge funds, which are now called Surface Transportation Program – Bridge (STP-Bridge), when the structure sufficiency rating is under 50 on a 100 scale. Funding is available for rehabilitation if the structure has a sufficiency rating under 80. The federal funds will pay for up to 80% of the project cost and requires a minimum 20% local match. Township bridge work is eligible for state Township Bridge Program (TBP) funds, which is currently $162,000 per year. The County funds the local share of engineering and construction work for bridges with the County Bridge fund. Since many bridges were built between 1930 and 1970 across the region, there is increasing competition for limited federal STP-Bridge and TBP funds to rehabilitate or replace deteriorating bridge infrastructure to prevent their potential closure.

County and Township Bridge Program Summary	Estimated Construction Year	2019-2023 Programmed Costs
Allendale Road Township Bridge (SN056-3126)	2023	$2,400,000
Bridge Inspections	N/A	$488,251
Bunker Hill Road Township Bridge (SN056-3107)	2023	$1,400,000
Bunker Hill Road Township Bridge (SN056-3070)	Future FY	$400,000
Deerpass Road Bridges (SN056-3029/3030) (TIP# 11-10-0003)	2018	$0
Flat Iron Road Bridge (SN056-3019)	Future FY	$400,000
Harmony Road Bridge (SN056-3138)	Future FY	$450,000
Hunter Road Bridge (SN056-3034)	2022	$2,250,000
Johnson Road Bridge (SN056-3128)	2021	$1,700,000
Kishwaukee Valley Road Culvert (SN056-3202)	2020	$1,000,000
McGuire Road Bridge (SN056-3008)	Future FY	$200,000
McGuire Road Culvert (SN056-3049)	Future FY	$100,000
Millstream Road Bridges (SN056-3022/3023)	2021	$2,300,000
O'Brien Road Township Bridge (SN056-3118) (TIP#11-14-0005)	2018	$0
Paulson Road Township Bridge (SN056-3071)	2023	$1,950,000
River Road Culvert	2019	$1,100,000
Thayer Road Township Bridge (SN056-3115)	2022	$1,750,000
Township Bridge Rehabilitation Assistance Program	N/A	$810,000
Union Road Bridge (SN056-3026) (TIP#11-14-0004)	2018	$0
West Solon Road Township Bridge (SN056-3142)	2023	$2,050,000
White Oaks Road Township Bridge (SN056-3043)	2022	$1,250,000
TOTAL*		**$21,998,251**
Annual Average		**$4,399,650**

** of that amount, the County is responsible for $7.3 million*

Allendale Road Bridge

Title	Allendale Road Township Bridge Replacement		
Scope of Work	Bridge Replacement	*Municipality*	Unincorporated Greenwood Township
Category	Preservation	*Board District*	District 6
Lead Agency	McHenry County DOT	*Total Cost*	$2,400,000
Project ID	SN056-3126	*Website*	N/A
Limits	Allendale Road Bridge		
Description	This funding is for the replacement of a Township bridge over the Nippersink Creek in Greenwood Township. It had a sufficiency rating of 65.9/100 in 2016. Construction is anticipated in 2023.		

Segment	Phase	Fund Source	Prior FY	2019	2020	2021	2022	2023	Future FY	Total
Allendale Road Bridge	ENGR1	County Bridge Fund		$30,000						$30,000
	ENGR1	Federal STP Bridge		$120,000						$120,000
		Total Engineering 1		$150,000						$150,000
	ENGR2	County Matching Fund				$30,000				$30,000
	ENGR2	Federal STP Bridge				$120,000				$120,000
		Total Engineering 2				$150,000				$150,000
	ROW	County Bridge Fund				$100,000				$100,000
		Total Right of Way				$100,000				$100,000
	CONST	County Matching Fund						$80,000		$80,000
	CONST	State TBP Funds						$320,000		$320,000
	CONST	Federal STP Bridge						$1,600,000		$1,600,000
		Total Construction						$2,000,000		$2,000,000
		Total Programmed		**$150,000**	**$0**	**$250,000**	**$0**	**$2,000,000**		**$2,400,000**

Total County Cost: $240,000 Total Federal Share: $1,840,000 State TBP Share: $320,000

Bridge Inspections

Title	Bridge Inspections		
Scope of Work	Bridge Rehabilitation	*Municipality*	Various Municipalities
Category	Preservation	*Board District*	All Board Districts
Lead Agency	McHenry County DOT	*Total Cost*	$488,251
Project ID	N/A	*Website*	N/A
Limits	Various Bridges		
Description	This funding is for the required biennial inspections of County and Township structures and special inspection such as scour analysis, underwater inspections, or emergency inspections.		

Segment	Phase	Fund Source	2018	2019	2020	2021	2022	2023	2024	Total
Various Bridges	ENGR	County Bridge Fund	$230,000	$0	$239,292	$0	$248,959	$0	$259,017	$488,251
		Total Engineering	$230,000	$0	$239,292	$0	$248,959	$0	$259,017	$488,251
		Total Programmed		**$0**	**$239,292**	**$0**	**$248,959**	**$0**		**$488,251**

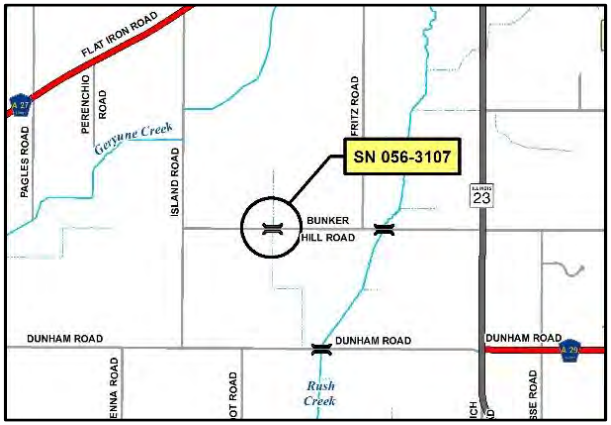
Total County Cost: $488,251

Bunker Hill Road Township Bridge (West)

Title	Bunker Hill Road Township Bridge (West)		
Scope of Work	Bridge Replacement	*Municipality*	Unincorporated Dunham Township
Category	Preservation	*Board District*	District 6
Lead Agency	McHenry County DOT	*Total Cost*	$1,400,000
Project ID	SN056-3107	*Website*	N/A
Limits	Bunker Hill Road Bridge		
Description	This funding is for the replacement of a Township bridge over a drainage ditch in Dunham Township. The existing bridge had a sufficiency rating of 51.3/100 in 2016. Construction is anticipated in 2023.		

Segment	Phase	Fund Source	Prior FY	2019	2020	2021	2022	2023	Future FY	Total
Bunker Hill Road Bridge	ENGR1	County Bridge Fund		$30,000						$30,000
	ENGR1	Federal STP Bridge		$120,000						$120,000
		Total Engineering 1		$150,000						$150,000
	ENGR2	County Matching				$30,000				$30,000
	ENGR2	Federal STP Bridge				$120,000				$120,000
		Total Engineering 2				$150,000				$150,000
	ROW	County Bridge Fund				$100,000				$100,000
		Total Right of Way				$100,000				$100,000
	CONST	County Matching						$200,000		$200,000
	CONST	Federal STP Bridge						$800,000		$800,000
		Total Construction						$1,000,000		$1,000,000
		Total Programmed		**$150,000**	**$0**	**$250,000**	**$0**	**$1,000,000**		**$1,400,000**

Total County Cost: $360,000 Total Federal Share: $1,040,000



Bunker Hill Road Township Bridge (East)

Title	Bunker Hill Road Township Bridge (East)		
Scope of Work	Bridge Replacement	*Municipality*	Unincorporated Dunham Township
Category	Preservation	*Board District*	District 6
Lead Agency	McHenry County DOT	*Total Cost*	$400,000
Project ID	SN056-3070	*Website*	N/A
Limits	Bunker Hill Road Bridge		
Description	This funding is for the replacement of a Township bridge over the Rush Creek in Dunham Township. The existing bridge had a sufficiency rating of 65.9/100 in 2016. Construction is anticipated in 2025.		

Segment	Phase	Fund Source	Prior FY	2019	2020	2021	2022	2023	Future FY	Total
Bunker Hill Road Bridge	ENGR1	County Matching Fund				$30,000				$30,000
	ENGR1	Federal STP Bridge				$120,000				$120,000
		Total Engineering 1				$150,000				$150,000
	ENGR2	County Matching Fund						$30,000		$30,000
	ENGR2	Federal STP Bridge						$120,000		$120,000
		Total Engineering 2						$150,000		$150,000
	ROW	County Bridge Fund						$100,000		$100,000
		Total Engineering 2						$100,000		$100,000
	CONST	County Bridge Fund							$200,000	$0
	CONST	Federal STP Bridge							$800,000	$0
		Total Construction							$1,000,000	$0
		Total Programmed		**$0**	**$0**	**$150,000**	**$0**	**$250,000**		**$400,000**

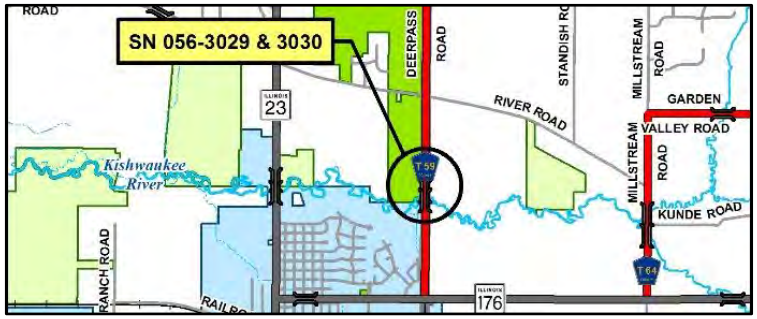
Total County Cost: $160,000 Total Federal Share: $240,000

Deerpass Road Bridges (TIP#11-10-0003)

Title	Deerpass Road Bridges		
Scope of Work	Bridge Replacement	*Municipality*	Marengo
Category	Preservation	*Board District*	District 6
Lead Agency	McHenry County DOT	*Total Cost*	$0
Project ID	TIP # 11-10-0003; SN 056-3029 & 056-3030	*Website*	N/A
Limits	Deerpass Road Bridges		
Description	This funding is for the replacement of two existing bridge structures into one structure over the Kishwaukee River and a tributary on the Marengo and Seneca Township boundary. The existing bridges were built in 1966 and have a posted limit of 15 tons. They had sufficiency ratings of 42.4/100 and 26.9/100 in 2014. The sufficiency ratings dropped to 36.9/100 and 26.9/100 in 2016. Construction is anticipated in 2018 & 2019 and funding was appropriated in 2016.		

Segment	Phase	Fund Source	Prior FY	2019	2020	2021	2022	2023	Future FY	Total
Deerpass Road Bridges	ENGR1	County Bridge Fund	$85,427							$0
	ENGR1	Federal STP Bridge	$192,170							$0
		Total Engineering 1	$277,597							$0
	ENGR2	County Matching & Option MFT	$79,488							$0
	ENGR2	Federal STP Bridge	$317,951							$0
		Total Engineering 2	$397,439							$0
	ROW	County Matching	$313,900							$0
		Total Right of Way	$313,900							$0
	CONST	County Bridge Fund	$317,505							$0
	CONST	County MFT	$800,000							$0
	CONST	Federal STP Bridge	$4,470,020							$0
		Total Construction	$5,587,525							$0
		Total Programmed								**$0**

Total County Cost: $0 Total Federal Share: $0

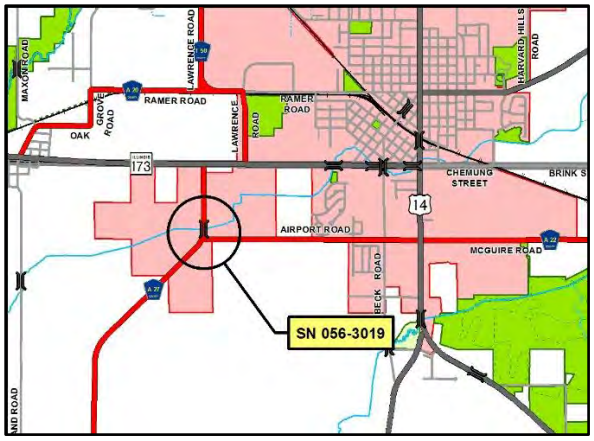


Flat Iron Road Bridge

Title	Flat Iron Road Bridge		
Scope of Work	Bridge Replacement	*Municipality*	City of Harvard
Category	Preservation	*Board District*	District 6
Lead Agency	McHenry County DOT	*Total Cost*	$400,000
Project ID	SN 056-3019	*Website*	N/A
Limits	Flat Iron Road Bridge		
Description	This funding is for the replacement of an existing bridge over Mokeler Creek. It had a sufficiency rating of 48.1/100 in 2016. Construction is anticipated in 2025.		

Segment	Phase	Fund Source	Prior FY	2019	2020	2021	2022	2023	Future FY	Total
	ENGR1	County Matching Fund				$40,000				$40,000
		Federal STP Bridge				$160,000				$160,000
		Total Engineering 1				$200,000				$200,000
	ENGR2	County Matching Fund						$30,000		$30,000
		Federal STP Bridge						$120,000		$120,000
		Total Engineering 2						$150,000		$150,000
	ROW	County Bridge Fund						$50,000		$50,000
		Total Right of Way						$50,000		$50,000
	CONST	County Matching							$300,000	$300,000
		Federal STP Bridge							$1,200,000	$1,200,000
		Total Construction							$1,500,000	$1,500,000
		Total Programmed		**$0**	**$0**	**$200,000**	**$0**	**$200,000**		**$400,000**

Total County Cost: $120,000 Total Federal Share: $280,000



Harmony Road Bridge

Title	Harmony Road Bridge		
Scope of Work	Bridge Replacement	*Municipality*	Unincorporated Riley Township
Category	Preservation	*Board District*	District 6
Lead Agency	McHenry County DOT	*Total Cost*	$450,000
Project ID	SN 056-3138	*Website*	N/A
Limits	Harmony Road Bridge		
Description	This funding is for the replacement of an existing bridge over Coon Creek. It had a sufficiency rating of 76.7/100 in 2014. Construction is anticipated in 2024.		

Segment	Phase	Fund Source	Prior FY	2019	2020	2021	2022	2023	Future FY	Total
Harmony Road Bridge	ENGR1	County Bridge Fund			$40,000					$40,000
		Federal STP Bridge			$160,000					$160,000
		Total Engineering 1			$200,000					$200,000
	ENGR2	County Matching Fund					$30,000			$30,000
		Federal STP Bridge					$120,000			$120,000
		Total Engineering 2					$150,000			$150,000
	ROW	County Bridge Fund					$100,000			$100,000
		Total Right of Way					$100,000			$100,000
	CONST	County Matching							$200,000	$200,000
		Federal STP Bridge							$800,000	$800,000
		Total Construction							$1,000,000	$1,000,000
		Total Programmed		**$0**	**$200,000**	**$0**	**$250,000**	**$0**		**$450,000**

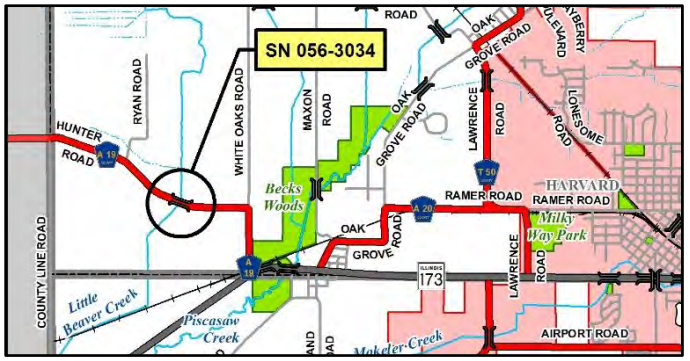
Total County Cost: $170,000 Total Federal Share: $280,000

Hunter Road Bridge

Title	Hunter Road Bridge		
Scope of Work	Bridge Rehabilitation	*Municipality*	Unincorporated Chemung Township
Category	Preservation	*Board District*	District 6
Lead Agency	McHenry County DOT	*Total Cost*	$2,250,000
Project ID	SN 056-3034	*Website*	N/A
Limits	Hunter Road Bridge		
Description	This funding is for a rehabilitation of Hunter Road Bridge over the Little Beaver Creek. It had a sufficiency rating of 73/100 in 2014 and 52.6/100 in 2016. Construction is anticipated in 2022.		

Segment	Phase	Fund Source	Prior FY	2019	2020	2021	2022	2023	Future FY	Total
Hunter Road Bridge	ENGR	County Bridge Fund	$36,825							$0
		Total Engineering	$36,825							$0
	ENGR1	County Bridge Fund	$38,000							$0
	ENGR1	Federal STP Bridge	$152,000							$0
		Total Engineering 1	$190,000							$0
	ENGR2	County Bridge Fund			$30,000					$30,000
	ENGR2	Federal STP Bridge			$120,000					$120,000
		Total Engineering 2			$150,000					$150,000
	ROW	County Bridge Fund			$100,000					$100,000
		Total Engineering 2			$100,000					$100,000
	CONST	County Matching					$400,000			$400,000
	CONST	Federal STP Bridge					$1,600,000			$1,600,000
		Total Construction					$2,000,000			$2,000,000
		Total Programmed		**$0**	**$250,000**	**$0**	**$2,000,000**	**$0**		**$2,250,000**

Total County Cost: $530,000 Total Federal Share: $1,720,000



Johnson Road Bridge

Title	Johnson Road Bridge		
Scope of Work	Bridge Rehabilitation	*Municipality*	Unincorporated Hebron Township
Category	Preservation	*Board District*	District 6
Lead Agency	McHenry County DOT	*Total Cost*	$1,700,000
Project ID	SN 056-3128	*Website*	N/A
Limits	Johnson Road Bridge		
Description	This funding is for a deck rehabilitation of Johnson Road Bridge over the Nippersink Creek. It had a sufficiency rating of 52/100 in 2016. A weight restriction of 12 tons for single unit vehicles and 19 tons for combination vehicles was placed on the bridge on April 24, 2017. Construction is anticipated in 2021.		

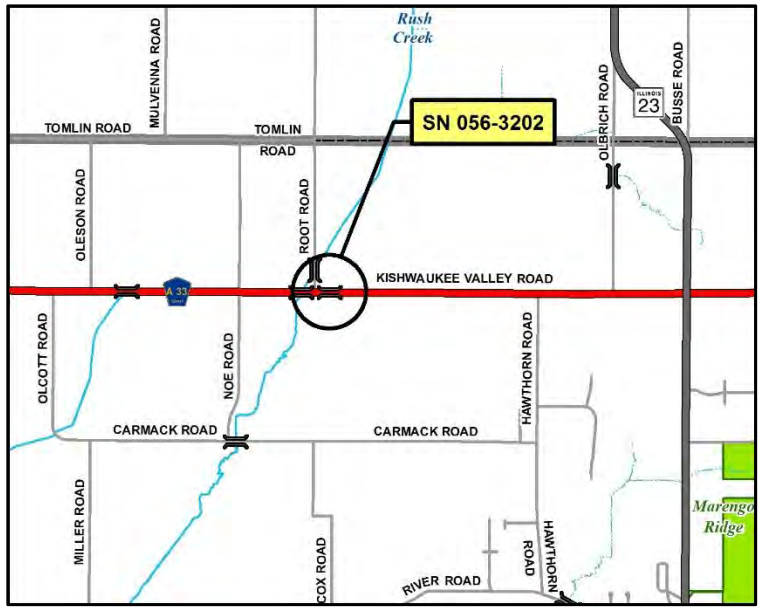
Segment	Phase	Fund Source	Prior FY	2019	2020	2021	2022	2023	Future FY	Total
Johnson Road Bridge	ENGR1	County Bridge Fund	$24,000							$0
	ENGR1	Federal STP Bridge	$96,000							$0
		Total Engineering 1	$120,000							$0
	ENGR2	County Bridge Fund			$30,000					$30,000
	ENGR2	Federal STP Bridge			$120,000					$120,000
		Total Engineering 2			$150,000					$150,000
	ROW	County Bridge Fund			$50,000					$50,000
		Total Right of Way			$50,000					$50,000
	CONST	County Matching Fund				$300,000				$300,000
	CONST	Federal STP Bridge				$1,200,000				$1,200,000
		Total Construction				$1,500,000				$1,500,000
		Total Programmed			**$200,000**	**$1,500,000**				**$1,700,000**

Total County Cost: $380,000 Total Federal Share: $1,320,000

Kishwaukee Valley Road Culvert

Title	Kishwaukee Valley Road Culvert		
Scope of Work	Culvert	*Municipality*	Unincorporated Marengo Township
Category	Preservation	*Board District*	District 6
Lead Agency	McHenry County DOT	*Total Cost*	$1,000,000
Project ID	SN 056-3202	*Website*	N/A
Limits	Kishwaukee Valley Road Culvert		
Description	This funding is to replace the concrete box culvert that carries a tributary of Rush Creek under Kishwaukee Valley Road. It had a sufficiency rating of 56.4/100 in 2016 and construction is anticipated in 2020.		

Segment	Phase	Fund Source	Prior FY	2019	2020	2021	2022	2023	Future FY	Total
Kishwaukee Valley Culvert	ENGR	County Matching	$75,000							$0
		Total Engineering	$75,000							$0
	CONST	County Option MFT			$1,000,000					$1,000,000
		Total Construction			$1,000,000					$1,000,000
		Total Programmed			**$1,000,000**					**$1,000,000**
	Total County Cost:	$1,000,000								

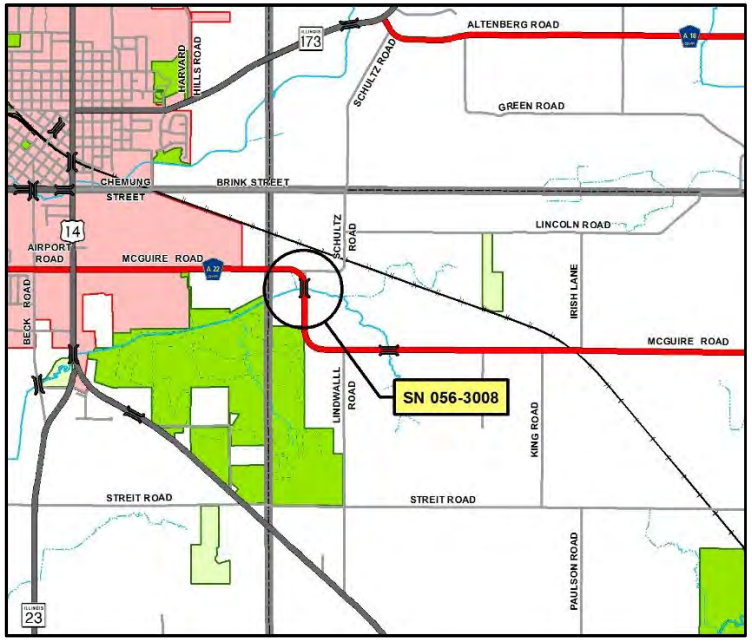


McGuire Road Bridge

Title	McGuire Road Bridge		
Scope of Work	Bridge Rehabilitation	*Municipality*	Unincorporated Hartland Township
Category	Preservation	*Board District*	District 6
Lead Agency	McHenry County DOT	*Total Cost*	$200,000
Project ID	SN 056-3008	*Website*	N/A
Limits	McGuire Road Bridge		
Description	This funding is for rehabilitation of McGuire Road Bridge over the Rush Creek. It had a sufficiency rating of 71.7/100 in 2016. Construction is anticipated in 2024.		

Segment	Phase	Fund Source	Prior FY	2019	2020	2021	2022	2023	Future FY	Total
McGuire Road Bridge	ENGR	County Bridge Fund						$200,000		$200,000
		Total Engineering						$200,000		$200,000
	ROW	County Bridge Fund							$50,000	$0
		Total Right of Way							$50,000	$0
	CONST	County Bridge Fund							$1,000,000	$0
		Total Construction							$1,000,000	$0
		Total Programmed						**$200,000**		**$200,000**

Total County Cost: $200,000

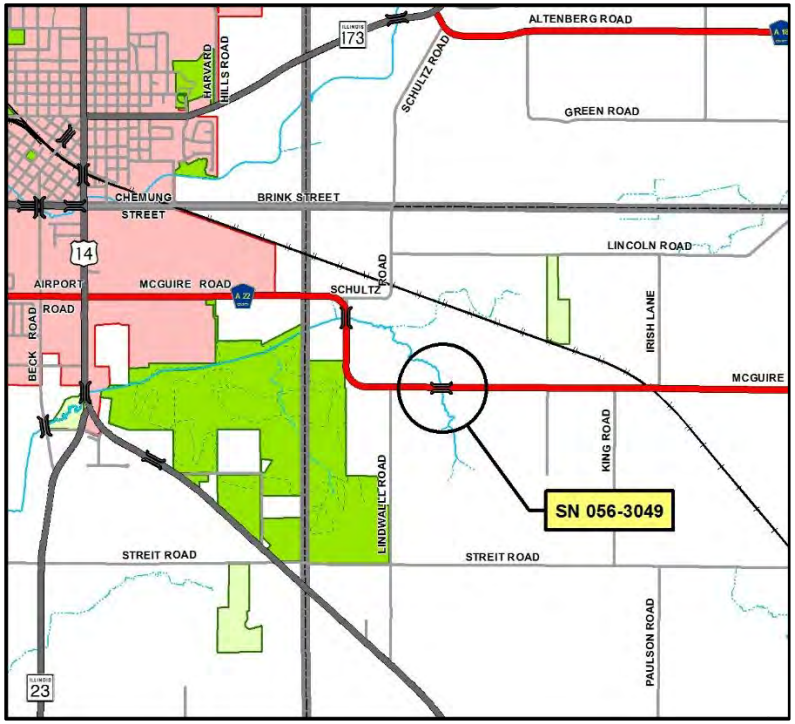


McGuire Road Culvert

Title	McGuire Road Culvert		
Scope of Work	Culvert	*Municipality*	Unincorporated Hartland Township
Category	Preservation	*Board District*	District 6
Lead Agency	McHenry County DOT	*Total Cost*	$100,000
Project ID	SN 056-3049	*Website*	N/A
Limits	McGuire Road Culvert		
Description	This funding is to replace the concrete box culvert that carries a branch of the Rush Creek under McGuire Road. It had a sufficiency rating of 97/100 in 2016 and construction is anticipated in 2026.		

Segment	Phase	Fund Source	Prior FY	2019	2020	2021	2022	2023	Future FY	Total
McGuire Road Culvert	ENGR	County Bridge Fund						$100,000		$100,000
		Total Engineering						$100,000		$100,000
	CONST	County Bridge Fund							$1,000,000	$0
		Total Construction							$1,000,000	$0
		Total Programmed						**$100,000**		**$100,000**

Total County Cost: $100,000



Millstream Road Bridges

Title	Millstream Road Bridges		
Scope of Work	Bridge Rehabilitation	*Municipality*	Unincorporated Seneca Township
Category	Preservation	*Board District*	District 6
Lead Agency	McHenry County DOT	*Total Cost*	$2,300,000
Project ID	SN 056-3022 & 056-3023	*Website*	N/A
Limits	Millstream Road Bridges		
Description	This funding is for rehabilitation of two bridges on Millstream Road over two branches of the Kishwaukee River. They had a sufficiency rating of 74.5/100 in 2014 and 53.5/100 in 2016. Construction is anticipated in 2021.		

Segment	Phase	Fund Source	Prior FY	2019	2020	2021	2022	2023	Future FY	Total
Millstream Road Bridges	ENGR	County Bridge Fund	$83,662							$0
		Total Engineering	$83,662							$0
	ENGR1	County Bridge Fund	$62,000							$0
		Federal STP Bridge	$248,000							$0
		Total Engineering 1	$310,000							$0
	ENGR2	County Matching			$40,000					$40,000
		Federal STP Bridge			$160,000					$160,000
		Total Engineering 2			$200,000					$200,000
	ROW	County Bridge Fund			$100,000					$100,000
		Total Right of Way			$100,000					$100,000
	CONST	County Matching				$400,000				$400,000
		Federal STP Bridge				$1,600,000				$1,600,000
		Total Construction				$2,000,000				$2,000,000
		Total Programmed			**$300,000**	**$2,000,000**				**$2,300,000**

Total County Cost: $540,000 Total Federal Share: $1,760,000

O'Brien Road Township Bridge (TIP#11-14-0005)

Title	O'Brien Road Township Bridge Rehabilitation		
Scope of Work	Bridge Rehabilitation	*Municipality*	Unincorporated Hebron Township
Category	Preservation	*Board District*	District 6
Lead Agency	McHenry County DOT	*Total Cost*	$0
Project ID	TIP # 11-14-0005; SN 056-3118	*Website*	N/A
Limits	O'Brien Road Township Bridge		
Description	This funding is for the rehabilitation of an existing Township bridge structure over the Nippersink Creek near Illinois Route 47 in Hebron Township. The existing bridge was built in 1975. It had a sufficiency rating of 33.1/100 in 2014 and 2016, and a posted limit of 13 tons. Construction is anticipated in 2018.		

Segment	Phase	Fund Source	Prior FY	2019	2020	2021	2022	2023	Future FY	Total
Oak Grove Road Bridge	ENGR1	County Bridge Fund	$27,424							$0
	ENGR1	Federal STP Bridge	$109,697							$0
		Total Engineering 1	$137,122							$0
	ENGR2	County Bridge Fund	$23,948							$0
	ENGR2	Federal STP Bridge	$95,791							$0
		Total Engineering 2	$119,738							$0
	ROW	County Bridge Fund	$92,300							$0
		Total Right of Way	$92,300							$0
	CONST	County Bridge Fund	$300,000							$0
	CONST	Federal STP Bridge	$1,200,000							$0
		Total Construction	$1,500,000							$0
		Total Programmed								**$0**

Total County Cost: $0 Total Federal Share: $0

Paulson Road Township Bridge

Title	Paulson Road Township Bridge		
Scope of Work	Bridge Replacement	*Municipality*	Unincorporated Hartland Township
Category	Preservation	*Board District*	District 6
Lead Agency	McHenry County DOT	*Total Cost*	$1,900,000
Project ID	SN 056-3071	*Website*	N/A
Limits	Paulson Road Bridge		
Description	This funding is for the replacement of an existing Township bridge structure over the Kishwaukee River in Hartland Township. The existing bridge was built in 1959. It has a sufficiency rating of 30.7/100 in 2016. Construction is anticipated in 2023.		

Segment	Phase	Fund Source	Prior FY	2019	2020	2021	2022	2023	Future FY	Total
Paulson Road Bridge	ENGR1	County Bridge Fund		$40,000						$40,000
	ENGR1	Federal STP Bridge		$160,000						$160,000
		Total Engineering 1		$200,000						$200,000
	ENGR2	County Bridge Fund				$30,000				$30,000
	ENGR2	Federal STP Bridge				$120,000				$120,000
		Total Engineering 2				$150,000				$150,000
	ROW	County Bridge Fund				100,000				$50,000
		Total Right of Way				100,000				$50,000
	CONST	County Matching						$300,000		$300,000
	CONST	Federal STP Bridge						$1,200,000		$1,200,000
		Total Construction						$1,500,000		$1,500,000
		Total Programmed		**$200,000**	**$0**	**$250,000**	**$0**	**$1,500,000**		**$1,950,000**

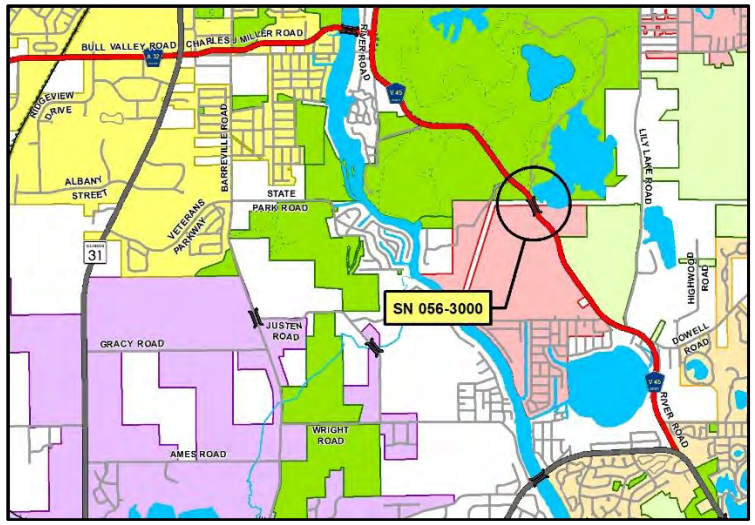
Total County Cost: $470,000 Total Federal Share: $1,480,000

River Road Culvert

Title	River Road Culvert		
Scope of Work	Culvert	*Municipality*	Unincorporated Nunda Township
Category	Preservation	*Board District*	District 3
Lead Agency	McHenry County DOT	*Total Cost*	$1,100,000
Project ID	SN 056-3000	*Website*	N/A
Limits	River Road, 895 feet northwest of Fernview Lane		
Description	A letter of intent was approved by the McHenry County Transportation Committee on 8/1/2018 to enter into an intergovernmental agreement with the Illinois Department of Natural Resources (IDNR) for a culvert replacement project in Unincorporated McHenry County. This project would replace multiple existing culverts with a single box culvert under River Road. Construction is anticipated in 2019.		

Segment	Phase	Fund Source	Prior FY	2019	2020	2021	2022	2023	Future FY	Total
River Road Culvert	ENGR	County Option MFT		$35,000						$35,000
	ENGR	IDNR Share		$55,000						$55,000
		Total Design Engineering		$90,000						$90,000
	CONST	County Option MFT		$600,000						$600,000
	CONST	IDNR Share		$350,000						$350,000
		Total Construction		$950,000						$950,000
	CE	County Option MFT		$25,000						$25,000
	CE	IDNR Share		$35,000						$35,000
		Total Construction Engineering		$60,000						$60,000
		Total Programmed		**$1,100,000**	**$0**	**$0**	**$0**	**$0**		**$1,100,000**

Total County Cost: $660,000 Total IDNR Share: $440,000



Thayer Road Township Bridge

Title	Thayer Road Township Bridge Rehabilitation		
Scope of Work	Bridge Rehabilitation	*Municipality*	Unincorporated Hebron Township
Category	Preservation	*Board District*	District 6
Lead Agency	McHenry County DOT	*Total Cost*	$1,750,000
Project ID	SN056-3115	*Website*	N/A
Limits	Thayer Road Township Bridge		
Description	This funding is for the rehabilitation of an existing Township bridge structure over the Nippersink Creek near Illinois Route 47 in Hebron Township. The existing bridge was built in 1975. It had a sufficiency rating of 29.8/100 in 2014 and 31.4/100 in 2016. Construction is anticipated in 2022.		

Segment	Phase	Fund Source	Prior FY	2019	2020	2021	2022	2023	Future FY	Total
Thayer Road Bridge	ENGR1	County Bridge Fund	$30,000							$0
	ENGR1	Federal STP Bridge	$120,000							$0
		Total Engineering 1	$150,000							$0
	ENGR2	County Bridge Fund			$30,000					$30,000
	ENGR2	Federal STP Bridge			$120,000					$120,000
		Total Engineering 2			$150,000					$150,000
	ROW	County Bridge Fund			$100,000					$100,000
		Total Right of Way			$100,000					$100,000
	CONST	County Matching Fund					$60,000			$60,000
	CONST	State TBP Funds					$240,000			$240,000
	CONST	Federal STP Bridge					$1,200,000			$1,200,000
		Total Construction					$1,500,000			$1,500,000
		Total Programmed		**$0**	**$250,000**	**$0**	**$1,500,000**	**$0**		**$1,750,000**

Total County Cost: $190,000 Total Federal Share: $1,320,000

Township Bridge Rehabilitation Assistance Program

Title	Township Bridge Rehabilitation Assistance Program		
Scope of Work	Bridge Rehabilitation	*Municipality*	Various Municipalities
Category	Preservation	*Board District*	Various Board Districts
Lead Agency	Townships	*Total Cost*	$810,000
Project ID	N/A	*Website*	N/A
Limits	McHenry County		
Description	This program is designed to provide financial assistance to Township Road Districts that desire to rehabilitate structures on their own, without the use of Federal funds. Currently the County receives $162,000 per year from the State of Illinois as part of the Township Bridge Program. These funds are currently programmed to offset the local match on projects where a township bridge is being replaced by the County with Federal funds. This program matches State funds with the goal of extending the life of our existing Township bridges, which is a more sustainable practice and often avoids land acquisition and wetland, and/or floodplain impacts that are often associated with large scale bridge replacement projects.		

Segment	Phase	Fund Source	Prior FY	2019	2020	2021	2022	2023	Future FY	Total
Carls Rd & Seeman Rd		County Option MFT	$162,000							$0
			$162,000							$0
TBD		County Option MFT		$162,000						$162,000
				$162,000						$162,000
TBD		County Option MFT			$162,000					$162,000
					$162,000					$162,000
TBD		County Option MFT				$162,000				$162,000
						$162,000				$162,000
TBD		County Option MFT					$162,000			$162,000
							$162,000			$162,000
TBD		County Option MFT						$162,000		$162,000
								$162,000		$162,000
		Total Programmed		**$162,000**	**$162,000**	**$162,000**	**$162,000**	**$162,000**		**$810,000**

Total County Cost: $810,000

Union Road Bridge (TIP#11-14-0004)

Title	Union Road Bridge Replacement		
Scope of Work	Bridge Replacement	*Municipality*	Unincorporated Seneca Township
Category	Preservation	*Board District*	District 6
Lead Agency	McHenry County DOT	*Total Cost*	$1,710,000
Project ID	TIP # 11-14-0004; SN 056-3026	*Website*	N/A
Limits	Union Road Bridge		
Description	This funding is for the replacement of an existing bridge structure over Kishwaukee River in Seneca Township. The existing bridge was built in 1966. It had a sufficiency rating of 36.4/100 in 2014 and 36.5/100 in 2016. It has a posted limit of 12 tons. Construction began in 2018.		

Segment	Phase	Fund Source	Prior FY	2019	2020	2021	2022	2023	Future FY	Total
Union Road Bridge	ENGR1	County Bridge Fund	$38,266							$0
	ENGR1	Federal STP Bridge	$153,065							$0
		Total Engineering 1	$191,331							$0
	ENGR2	County Bridge Fund	$28,287							$0
	ENGR2	Federal STP Bridge	$113,150							$0
		Total Engineering 2	$141,437							$0
	ROW	County Bridge Fund	$256,200							$0
		Total Right of Way	$256,200							$0
	CONST	County Bridge Fund	$400,000							$0
	CONST	Federal STP Bridge	$1,200,000							$0
		Total Construction	$1,600,000							$0
		Total Programmed								**$0**

Total County Cost: $0 Total Federal Share: $0

West Solon Road Township Bridge

Title	West Solon Road Township Bridge		
Scope of Work	Bridge Replacement	*Municipality*	Unincorporated Richmond Township
Category	Preservation	*Board District*	District 4
Lead Agency	McHenry County DOT	*Total Cost*	$2,000,000
Project ID	SN 056-3142	*Website*	N/A
Limits	West Solon Road Bridge		
Description	This funding is for the replacement of an existing township bridge structure over the Nippersink in Richmond Township. The existing bridge had a sufficiency rating of 62.6/100 in 2016. Construction is anticipated in 2023.		

Segment	Phase	Fund Source	Prior FY	2019	2020	2021	2022	2023	Future FY	Total
West Solon Road Bridge	ENGR1	County Bridge Fund		$40,000						$40,000
	ENGR1	Federal STP Bridge		$160,000						$160,000
		Total Engineering 1		$200,000						$200,000
	ENGR2	County Bridge Fund				$30,000				$30,000
	ENGR2	Federal STP Bridge				$120,000				$120,000
		Total Engineering 2				$150,000				$150,000
	ROW	County Bridge Fund				$100,000				$100,000
		Total Right of Way				$100,000				$100,000
	CONST	County Matching						$400,000		$400,000
	CONST	Federal STP Bridge						$1,200,000		$1,200,000
		Total Construction						$1,600,000		$1,600,000
		Total Programmed		**$200,000**	**$0**	**$250,000**	**$0**	**$1,600,000**		**$2,050,000**

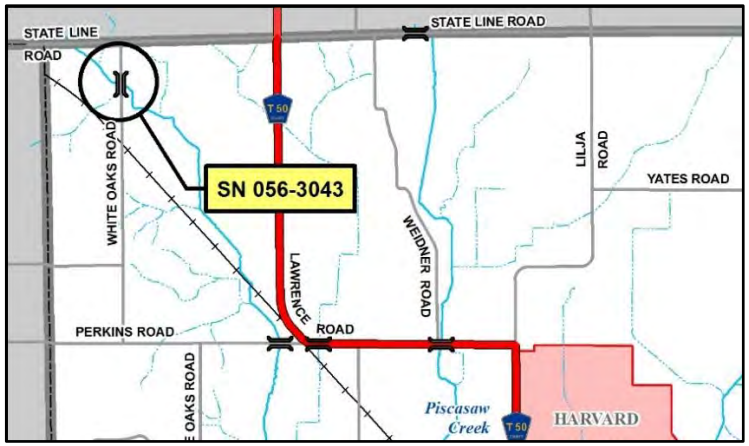
Total County Cost: $570,000 Total Federal Share: $1,480,000

White Oaks Road Township Bridge

Title	White Oaks Road Township Bridge		
Scope of Work	Bridge Replacement	*Municipality*	Unincorporated Chemung Township
Category	Preservation	*Board District*	District 6
Lead Agency	McHenry County DOT	*Total Cost*	$1,250,000
Project ID	SN056-3043	*Website*	N/A
Limits	White Oaks Road Bridge		
Description	This funding is for the replacement of an existing Township bridge structure over the west branch of the Piscasaw Creek in Chemung Township. The existing bridge was built in 1947 and had a sufficiency rating of 70.4/100 in 2016. Construction is anticipated in 2022.		

Segment	Phase	Fund Source	Prior FY	2019	2020	2021	2022	2023	Future FY	Total
White Oaks Road Bridge	ENGR1	County Bridge Fund	$40,000							$0
	ENGR1	Federal STP Bridge	$160,000							$0
		Total Engineering 1	$200,000							$0
	ENGR2	County Bridge Fund			$30,000					$30,000
	ENGR2	Federal STP Bridge			$120,000					$120,000
		Total Engineering 2			$150,000					$150,000
	ROW	County Bridge Fund			$100,000					$100,000
		Total Right of Way			$100,000					$100,000
	CONST	County Matching					$200,000			$200,000
	CONST	Federal STP Bridge					$800,000			$800,000
		Total Construction					$1,000,000			$1,000,000
		Total Programmed		**$0**	**$250,000**	**$0**	**$1,000,000**	**$0**		**$1,250,000**

Total County Cost: $330,000 Total Federal Share: $920,000

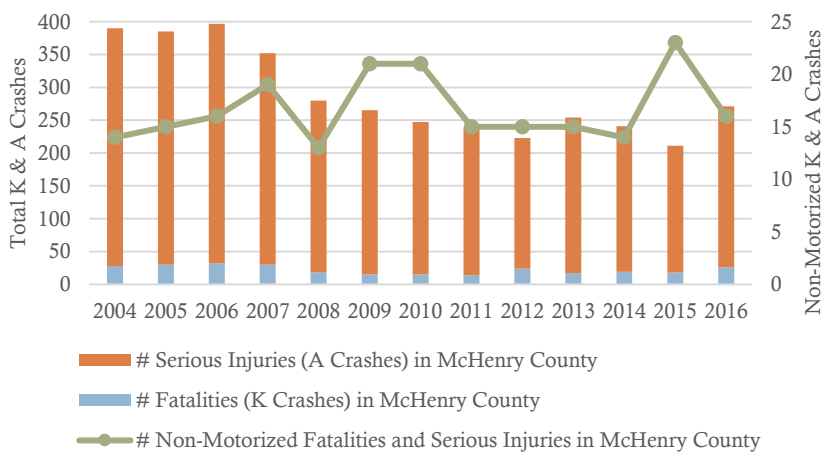


5. Public Safety and Health Program

Public safety projects are intended to reduce the number and severity of crashes at particular locations and enhance safe travel conditions throughout the County. Vehicle crashes result in higher costs to the public through personal injury, loss of worker productivity, property damage, and insurance rates. The perception of unsafe travel conditions reduces accessibility to adjacent properties. Improving sight-lines along a roadway or adding lighting are examples of safety improvements. Between 2019 and 2023, $7.9 million in public safety improvements are programmed.

Public Safety Program	2019-2023 Programmed Costs
Ackman Road Safety Project	$1,300,000
Algonquin Rd & Wilmot-Main HSIP Project	$798,900
Low-Cost Safety Improvement Program	$250,000
Oak Grove Road Railroad Crossing Project	$300,000
Pyott Road Corridor Safety Project	$600,000
Queen Anne Rd and Charles Rd Intersection Safety Project	$850,000
River Road Corridor Safety Project	$2,500,000
Tryon Grove Road Corridor Safety Project	$300,000
Walkup Road HSIP Project	$982,400
TOTAL	**$7,881,300**
Annual Average	**$1,576,260**

McHenry County has the goal of achieving zero fatalities on County roadways. Transportation engineers and planners look to the "four E's" of transportation safety to reduce the number of fatalities and serious injuries on our roadways: **Engineering, Enforcement, Education** and **Emergency Response**. Engagement of each of the four components is necessary to improve roadway safety, however the McHenry County relies heavily on other agencies for Enforcment, Education and Emergency Response.



Year:	# Fatalities (K) in McHenry County	# Serious Injuries (A Crashes) in McHenry County	# Non-Motorized Fatalities and Serious Injuries in McHenry County
2004	28	362	14
2005	30	355	15
2006	32	365	16
2007	30	322	19
2008	18	262	13
2009	15	250	21
2010	15	232	21
2011	14	225	15
2012	24	199	15
2013	17	237	15
2014	19	222	14
2015	18	193	23
2016	26	245	16

Table 8: Fatalities (K Crashes) and Serious Injury (A Crashes), by Year

The Illinois Department of Transportation (IDOT) provides McHenry County with a "**Local Jurisdiction Safety Tier Analysis**" which ranks local jurisdiction (county, municipal, and township) segments and intersections based on their demonstrated crash history. Where local jurisdiction roadways intersect a State or U.S. road, those intersections are not included in the safety analysis. This 2019-2023 Transportation Program initiates engineering on several "critical" or "high" crash locations identified by IDOT, such as the "River Road Corridor Safety Project", "Charles Rd/Queen Anne Rd Intersection Safety Project", "Pyott Road Corridor Safety Project", and "Tryon Grove Road Corridor Safety Project".

IDOT's Highway Safety Improvement Program (HSIP)

IDOT's Local Highway Safety Improvement Program (HSIP) is a Federal funding source for low-cost safety improvement projects that improve a location/feature or address a highway safety need that is contributing to severe roadway crashes. All phases of a project are eligible for HSIP funding, with a maximum Federal share of ninety percent (90%) and a ten percent (10%) local share.

McHenry County received $1,088,523 in HSIP funding in 2017 for three projects – Algonquin Rd Intersection improvements, Algonquin Rd /Crystal Lake Rd intersection improvements, and improvements to the intersection of Wilmot Rd and Main St. In 2018, McHenry County received an additional $884,160 in HSIP funding for a similar safety project along Walkup/Crystal Lake Road.

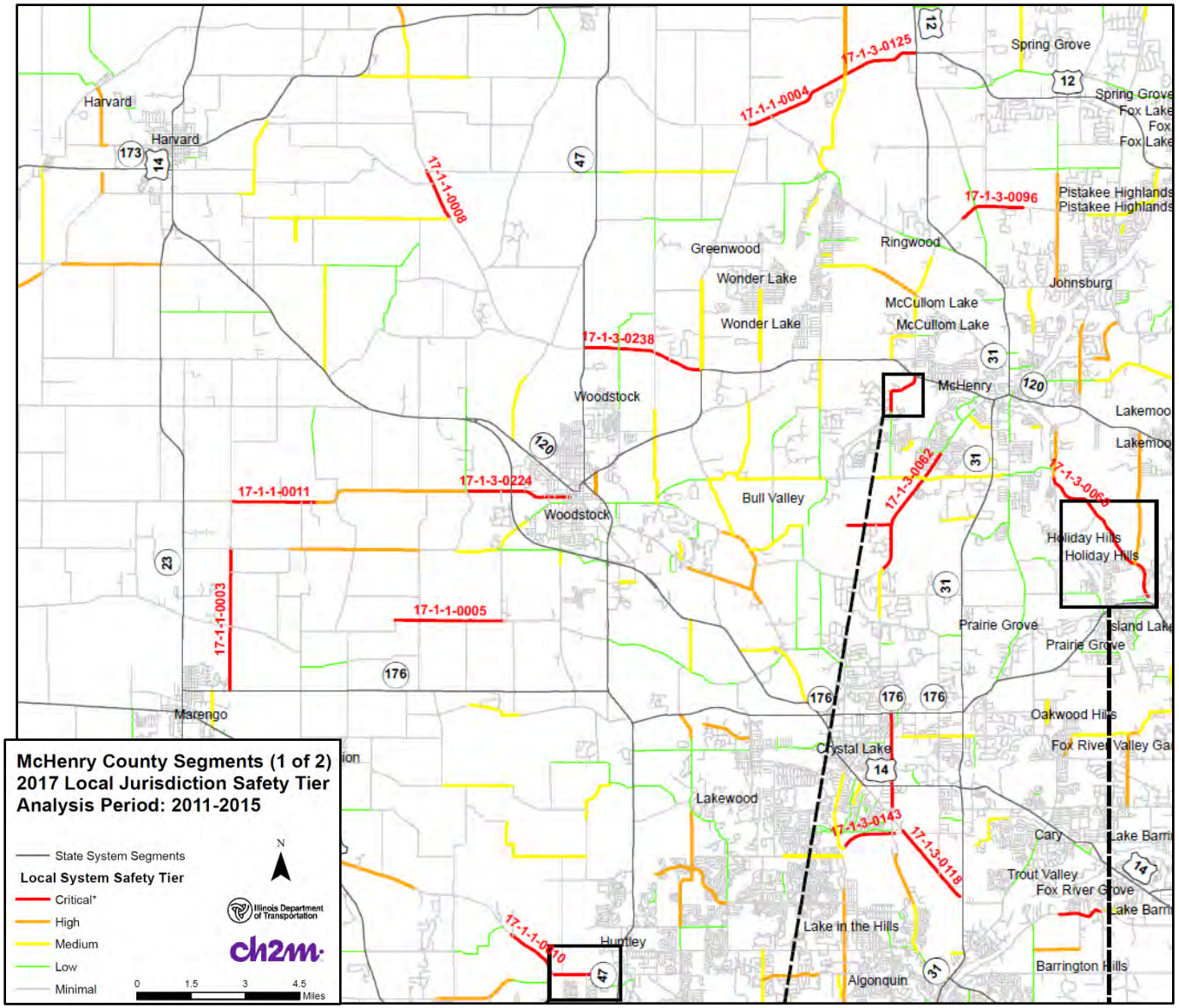


Figure 17: McHenry County Local Jurisdiction Safety Tiers (2017) for Roadway Segments

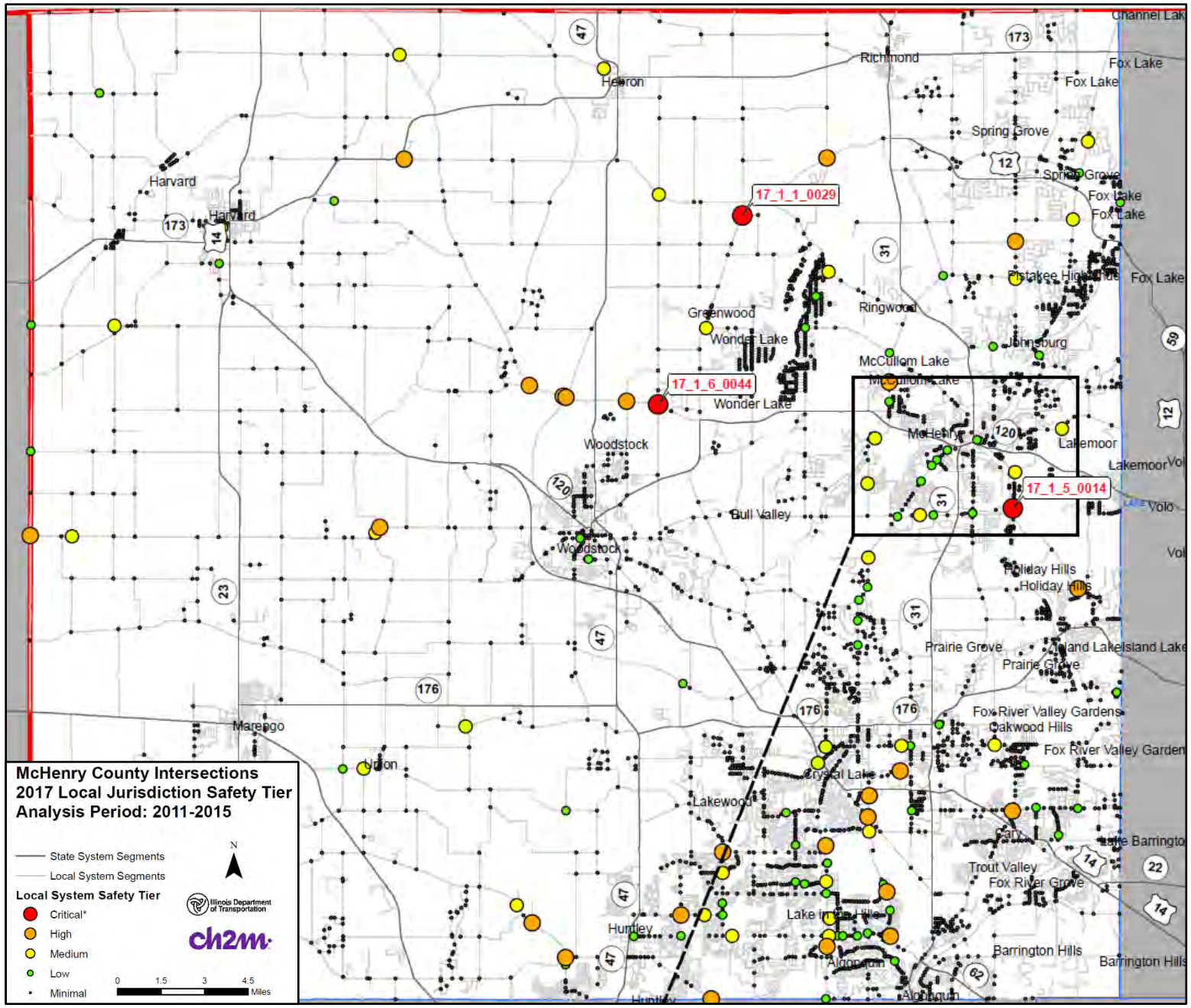


Figure 18: McHenry County Local Jurisdiction Safety Tiers (2017) for Intersections

Ackman Road Corridor Safety Project

Title	Ackman Road Corridor Safety Project		
Scope of Work	Intersection	*Municipality*	Lakewood, Lake in the Hills & Crystal Lake
Category	Modernization	*Board District*	District 2 and District 5
Lead Agency	McHenry County DOT	*Total Cost*	$1,300,000
Project ID	N/A	*Website*	N/A
Limits	West of Redtail Drive to East of Huntley Road		
Description	This project will address known safety concerns along the Ackman Road corridor. Two issues have been identified - a lack of bicycle and pedestrian infrastructure along the corridor, and vehicle turning conflicts at the Huntley, Swanson and Redtail intersections. This project will add bicycle and pedestrian accommodations and provide for safe vehicle travel along Ackman Road. The County will begin a feasibility study in 2018.		

Segment	Phase	Fund Source	Prior FY	2019	2020	2021	2022	2023	Future FY	Total
Huntley to Redtail	FEAS.	County Option MFT	$250,000							$250,000
		Total Feasibility	$250,000							$250,000
	ENGR1	RTA Sales Tax			$400,000					$400,000
		Total Engineering 1			$400,000					$400,000
	ENGR2	RTA Sales Tax					$400,000			$400,000
		Total Engineering 2					$400,000			$400,000
	ROW	County Option MFT					$500,000			$500,000
		Total Right of Way					$500,000			$500,000
	CONST	RTA Sales Tax							$5,000,000	$0
		Total Construction							$5,000,000	$0
	CE	RTA Sales Tax							$500,000	$0
		Total CE							$500,000	$0
		Total Programmed		**$0**	**$300,000**	**$0**	**$900,000**	**$0**		**$1,300,000**

Total County Cost: $1,300,000

Algonquin Road & Wilmot Road/Main Street Intersection Safety Projects

Title	Algonquin Road & Wilmot/Main Intersection Safety Projects		
Scope of Work	Intersection	*Municipality*	Huntley, Lake in the Hills, and Algonquin
Category	Modernization	*Board District*	District 1, District 2 and District 5
Lead Agency	McHenry County DOT	*Total Cost*	$798,900
Project ID	N/A	*Website*	N/A
Limits	Algonquin Road, from Haligus Road to Pyott Road. Intersection of Wilmot Road and Main Street in Burton Township.		
Description	To reduce the number of crashes, intersections along Algonquin Road will be upgraded with Flashing Yellow Arrows (FYA) and high visibility Traffic Signal Backplates with Retroreflective Borders. All of the intersections currently allow protected permissive lefts for eastbound and westbound traffic except at Hanson Road. For this reason, FYA will not be added at this intersection. Left turns will remain protected only and backplates with retroreflective borders will be added to the mast arm signals. The Randall Road and Crystal Lake Road intersections will be omitted as they are being improved as part of a separate project. The intersection of Wilmot Road and Main Street in Burton Township is also being upgraded with the same treatment.		

Segment	Phase	Fund Source	Prior FY	2018	2019	2020	2021	2022	Future FY	Total
	ENGR1/2	RTA Sales Tax	$32,550							$0
	ENGR1/2	State HSIP Funding	$292,950							$0
		Total Engineering 1	$325,500							$0
	CONST	RTA Sales Tax			$79,890					$79,890
	CONST	State HSIP Funding			$719,010					$719,010
		Total Construction			$798,900					$798,900
		Total Programmed		**$0**	**$798,900**	**$0**	**$0**	**$0**		**$798,900**

Total County Cost: $79,890 Total State HSIP Share: $719,010

Low-Cost Safety Improvement Program

Title	Low-Cost Safety Improvement Program		
Scope of Work	Small Safety Project	*Municipality*	Various Municipalities
Category	Modernization	*Board District*	Various Board Districts
Lead Agency	McHenry County DOT	*Total Cost*	$250,000
Project ID	N/A	*Website*	N/A
Limits	Various Locations		
Description	This funding is for low-cost improvements to improve safety as identified during the fiscal year. These items include but are not limited to installation of chevrons, flashers, and additional pavement markings. In 2015, Rectangular Rapid Flashing Beacons (RRFBs) were placed on Ackman Road at Westport Ridge to help facilitate safe midblock crossing for students walking to Crystal Lake South High School. In 2016, the Division of Transportation installed 24 hour warning flashers at the intersection of Pyott Road and Oak Street in Lake in the Hills at a cost of approximately $10,000. In 2018, a pedestrian crossing and RRFBs will be placed at the intersection of Ackman Road and Amberwood Drive in the City of Crystal Lake, and RRFBs were installed at the Ridgefield Road crossing of the Ridgefield Trace bike path.		

Location	Phase	Fund Source	2018	2019	2020	2021	2022	2023	2024	Total
Ackman Road Ped. Crossing		County Option MFT	$50,000							$0
			$50,000							$0
Ridgefield Trace RRFB		RTA Sales Tax	$7,000							$50,000
			$7,000							$50,000
Randall/Ackman Ped Crossings		RTA Sales Tax		$50,000						$50,000
				$50,000						$50,000
Greenwood Road & Keystone Road at IL 173		RTA Sales Tax			$50,000					$50,000
					$50,000					$50,000
TBD	CONST	RTA Sales Tax				$50,000				$50,000
						$50,000				$50,000
TBD	CONST	RTA Sales Tax					$50,000			$50,000
							$50,000			$50,000
TBD								$50,000		$50,000
								$50,000		$50,000
		Total Programmed		**$50,000**	**$50,000**	**$50,000**	**$50,000**	**$50,000**		**$250,000**

Total County Cost: $250,000

Oak Grove Road Railroad Crossing Project

Title	Oak Grove Road Railroad Crossing Safety Project		
Scope of Work	Safety Project	*Municipality*	City of Harvard
Category	Modernization	*Board District*	District 6
Lead Agency	Illinois Commerce Commission (ICC)	*Total Cost*	$300,000
Project ID	N/A	*Website*	N/A
Limits	Oak Grove Road at Union Pacific Railroad Crossing		
Description	This project will utilize funding from the Grade Crossing Protection Fund (GCPF) to reimburse the Union Pacific Railroad for 85% of the cost to install automatic warning devices at the Oak Street at-grade crossing. McHenry County will reimburse the railroad for 10% of the installation costs, and the railroad will pay all remaining installation costs, as well as all future operating and maintenance costs.		

Segment	Phase	Fund Source	Prior FY	2019	2020	2021	2022	2023	Future FY	Total
Oak Grove Rd. Crossing	CONST	GCPF				$255,000				$255,000
	CONST	RTA Sales Tax				$30,000				$30,000
	CONST	U.P. Railroad				$15,000				$15,000
		Total Construction				$300,000				$300,000
		Total Programmed		**$0**	**$0**	**$300,000**	**$0**	**$0**		**$300,000**

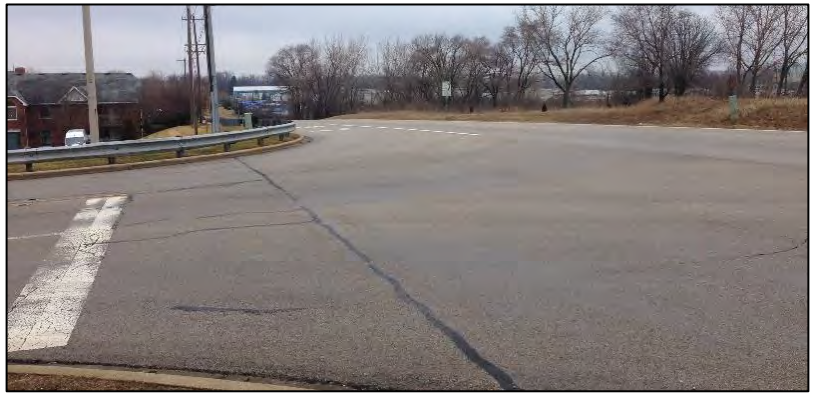
Total County Cost: $30,000

Pyott Road Corridor Safety Project

Title	Pyott Road Corridor Safety Project		
Scope of Work	Safety Project	*Municipality*	Village of Lake in the Hills
Category	Modernization	*Board District*	District 2
Lead Agency	McHenry County DOT	*Total Cost*	$600,000
Project ID	N/A	*Website*	N/A
Limits	Pyott Road from Rakow Road to Algonquin Road in the Village of Lake in the Hills		
Description	This project will address safety concerns that have been raised by the Village of Lake in the Hills and residents living along the Pyott Road corridor, and in particular near the Pyott Road and Oak Street intersection. Federal Highway Safety Improvement Program (HSIP) funding for safety projects will be pursued, which could potentially reduce the cost to McHenry County.		

Segment	Phase	Fund Source	Prior FY	2019	2020	2021	2022	2023	Future FY	Total
Pyott Road Corridor	FEAS.	RTA Sales Tax				$300,000				$300,000
		Total Feasibility				$300,000				$300,000
	ENGR1	RTA Sales Tax						$300,000		$300,000
		Total Engineering 1						$300,000		$300,000
	ENGR2	RTA Sales Tax							$400,000	$0
		Total Engineering 2							$400,000	$0
	ROW	RTA Sales Tax							$400,000	$0
		Total Right of Way							$400,000	$0
	CONST	RTA Sales Tax							$4,000,000	$0
		Total Construction							$4,000,000	$0
	CE	RTA Sales Tax							$400,000	$0
		Total Construction Engineering							$400,000	$0
		Total Programmed		**$0**	**$0**	**$300,000**	**$0**	**$300,000**		**$600,000**

Total County Cost: $600,000

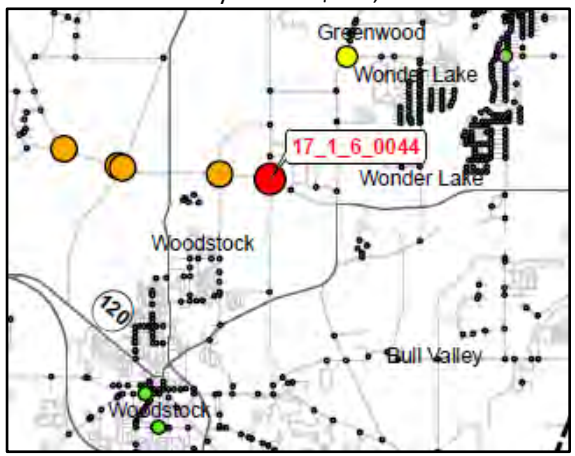


Queen Anne-Charles Road Intersection Safety Project

Title	Queen Anne Road & Charles Road Intersection Safety Project		
Scope of Work	Intersection	*Municipality*	Unincorporated Greenwood Township
Category	Modernization	*Board District*	District 6
Lead Agency	McHenry County DOT	*Total Cost*	$850,000
Project ID		*Website*	N/A
Limits	Intersection of Charles Road and Queen Anne Road north of the City of Woodstock		
Description	This project will address safety concerns at the intersection of Charles Road and Queen Anne Road northeast of the City of Woodstock. The intersection is one of three in McHenry County classified as "critical" on the IDOT 2017 Safety Tier Analysis. Phase I engineering for this project will consider the full range of safety options available – from very low cost solutions to a full-scale intersection reconstruction and reconfiguration.		

Segment	Phase	Fund Source	Prior FY	2019	2020	2021	2022	2023	Future FY	Total
Charles Road and Queen Anne Road	ENGR1	RTA Sales Tax			$250,000					$250,000
		Total Engineering 1			$250,000					$250,000
	ENGR2	RTA Sales Tax					$300,000			$250,000
		Total Engineering 2					$300,000			$250,000
	ROW	RTA Sales Tax					$300,000			$300,000
		Total Right of Way					$300,000			$300,000
	CONST	RTA Sales Tax							$3,500,000	$0
		Total Construction							$3,500,000	$0
	CE	RTA Sales Tax							$400,000	$0
		Total Construction Engineering							$400,000	$0
		Total Programmed		**$0**	**$250,000**	**$0**	**$600,000**	**$0**		**$850,000**

Total County Cost: $850,000

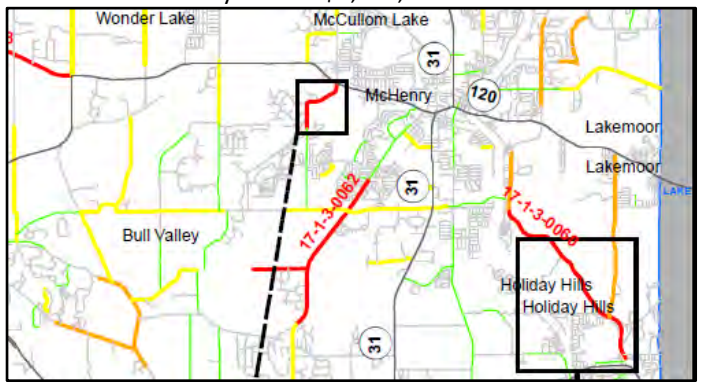


River Road – Chapel Hill Road Corridor Safety Project

Title	River Road – Chapel Hill Road Corridor Safety Project		
Scope of Work	Safety Project	*Municipality*	Various Municipalities
Category	Modernization	*Board District*	District 3 & District 4
Lead Agency	McHenry County DOT	*Total Cost*	$2,500,000
Project ID	N/A	*Website*	N/A
Limits	IL 176 to Johnsburg Road		
Description	This nine (9) mile corridor project will identify project stakeholders, funding partners, and funding sources as well as the immediate and long term corridor safety, capacity, structural, and pedestrian needs. Upon completion of the feasibility study, the locations that have been identified as immediate needs will move into the Phase I process. Long term needs will be addressed in later years. Segments along this corridor are rated as "critical" and "high" on IDOT's 2017 Local Jurisdiction Safety Tier Analysis.		

Segment	Phase	Fund Source	Prior FY	2019	2020	2021	2022	2023	Future FY	Total
River/Chapel Corridor	FEAS.	County Option MFT				$500,000				$500,000
		Total Feasibility				$500,000				$500,000
	ENGR1	*RTA Sales Tax*						$2,000,000		$2,000,000
		Total Engineering 1						$2,000,000		$2,000,000
	ENGR2	RTA Sales Tax							$3,000,000	$0
		Total Engineering 2							$3,000,000	$0
	ROW	RTA Sales Tax							$2,000,000	$0
		Total Right of Way							$2,000,000	$0
	CONST	RTA Sales Tax							$10,000,000	$0
		Total Construction							$10,000,000	$0
	CE	RTA Sales Tax							$1,500,000	$0
		Total Construction Engineering							$1,500,000	$0
		Total Programmed		**$0**	**$0**	**$500,000**	**$0**	**$2,000,000**		**$2,500,000**

Total County Cost: $2,500,000

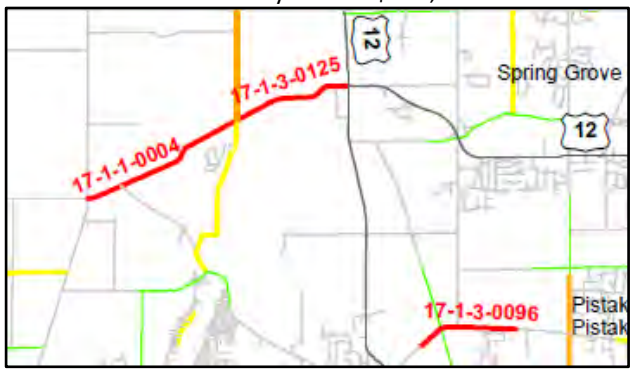


Tryon Grove Road Corridor Safety Project

Title	Tryon Grove Road Corridor Safety Project		
Scope of Work	Safety Project	*Municipality*	Hebron and Richmond Townships
Category	Modernization	*Board District*	
Lead Agency	McHenry County DOT	*Total Cost*	$300,000
Project ID	N/A	*Website*	N/A
Limits	Greenwood Road to U.S. 12		
Description	This four (4) mile corridor project will identify project stakeholders, funding partners, and funding sources as well as the immediate and long term corridor safety, capacity, structural, and pedestrian needs. Upon completion of the feasibility study, the locations that have been identified as immediate needs will move into the Phase I process. Long term needs will be addressed in later years. This entire corridor, from Greenwood Road to U.S. 12/IL 31 is rated as "critical" on IDOT's 2017 Local Jurisdiction Safety Tier Analysis.		

Segment	Phase	Fund Source	Prior FY	2019	2020	2021	2022	2023	Future FY	Total
Tryon Grove Corridor Safety Project	FEAS.	RTA Sales Tax						$300,000	$0	$300,000
		Total Feasibility						$300,000	$0	$300,000
	ENGR1	*RTA Sales Tax*							$1,000,000	$0
		Total Engineering 1							$1,000,000	$0
	ENGR2	RTA Sales Tax							$1,500,000	$0
		Total Engineering 2							$1,500,000	$0
	ROW	RTA Sales Tax							$500,000	$0
		Total Right of Way							$500,000	$0
	CONST	RTA Sales Tax							$4,000,000	$0
		Total Construction							$4,000,000	$0
	CE	RTA Sales Tax							$400,000	$0
		Total Construction Engineering							$400,000	$0
		Total Programmed		**$0**	**$0**	**$0**	**$0**	**$300,000**		**$300,000**

Total County Cost: $300,000



Walkup Road/Crystal Lake Road HSIP Project

Title	Walkup Road/Crystal Lake Road HSIP Project		
Scope of Work	Safety Project	*Municipality*	Nunda Township
Category	Modernization	*Board District*	District 3
Lead Agency	McHenry County DOT	*Total Cost*	$982,400
Project ID	N/A	*Website*	N/A
Limits	Hillside Road to Bull Valley Road		
Description	To reduce the number of crashes, intersections along Walkup Road will be upgraded with Flashing Yellow Arrows (FYA) and high visibility Traffic Signal Backplates with Retroreflective Borders. Crystal Lake Road, from Crystal Springs to Bull Valley Road is considered to be a "critical" safety segment according to IDOT's 2017 Safety Tier Analysis.		

Segment	Phase	Fund Source	2018	2019	2020	2021	2022	2023	Future FY	Total
Hillside to Bull Valley	ENGR1&2	County Option MFT		$30,000						$30,000
	ENGR1&2	State HSIP Funding		$270,000						$270,000
		Total Engineering 1/2		$300,000						$300,000
	CONST	County Matching Fund			$68,240					$68,240
	CONST	State HSIP Funding			$614,160					$614,160
		Total Construction			$682,400					$682,400
		Total Programmed		**$300,000**	**$682,400**	**$0**	**$0**	**$0**		**$982,400**

Total County Cost: $98,240 Total State HSIP Share: $884,160

6. County Highway Operational and Capacity Program

County Highway operational and capacity projects are intended to reduce "spot" delays at particular intersections and along particular roadways while better accommodating various highway users. Dedicated turn lanes, roundabouts, pedestrian crossings, and traffic signals are examples of these types of projects. If left unaddressed, operational and capacity problems may become safety problems as travelers adopt more aggressive behaviors. Capacity projects typically are large in scale and involve the construction of additional through lanes, turn lanes, and new roadways. Such projects are primarily developed based on the result of the County's adopted Long-Range Transportation Plan. Between 2019 and 2023, $54.4 million has been programmed for operational and capacity improvements. Of that amount, $25.7 million is programmed from County funding sources.

County Highway Operational and Capacity Program	2019-2023 Programmed Costs	
Cary Road at Main Street (Algonquin) Roundabout	$	2,000,000
County-Wide Traffic Counts	$	215,000
County-Wide Signal Timing Review	$	100,000
Lakewood Road Corridor Compete Streets Project	$	3,670,000
Main Street Extension	$	1,500,000
Northern McHenry Fox River Crossing	$	700,000
Randall Road Operational and Capacity Changes	$	46,244,089
TOTAL	**$**	**54,429,089**
Annual Average	**$**	**10,885,818**

Figure 19: Randall and Algonquin Intersection

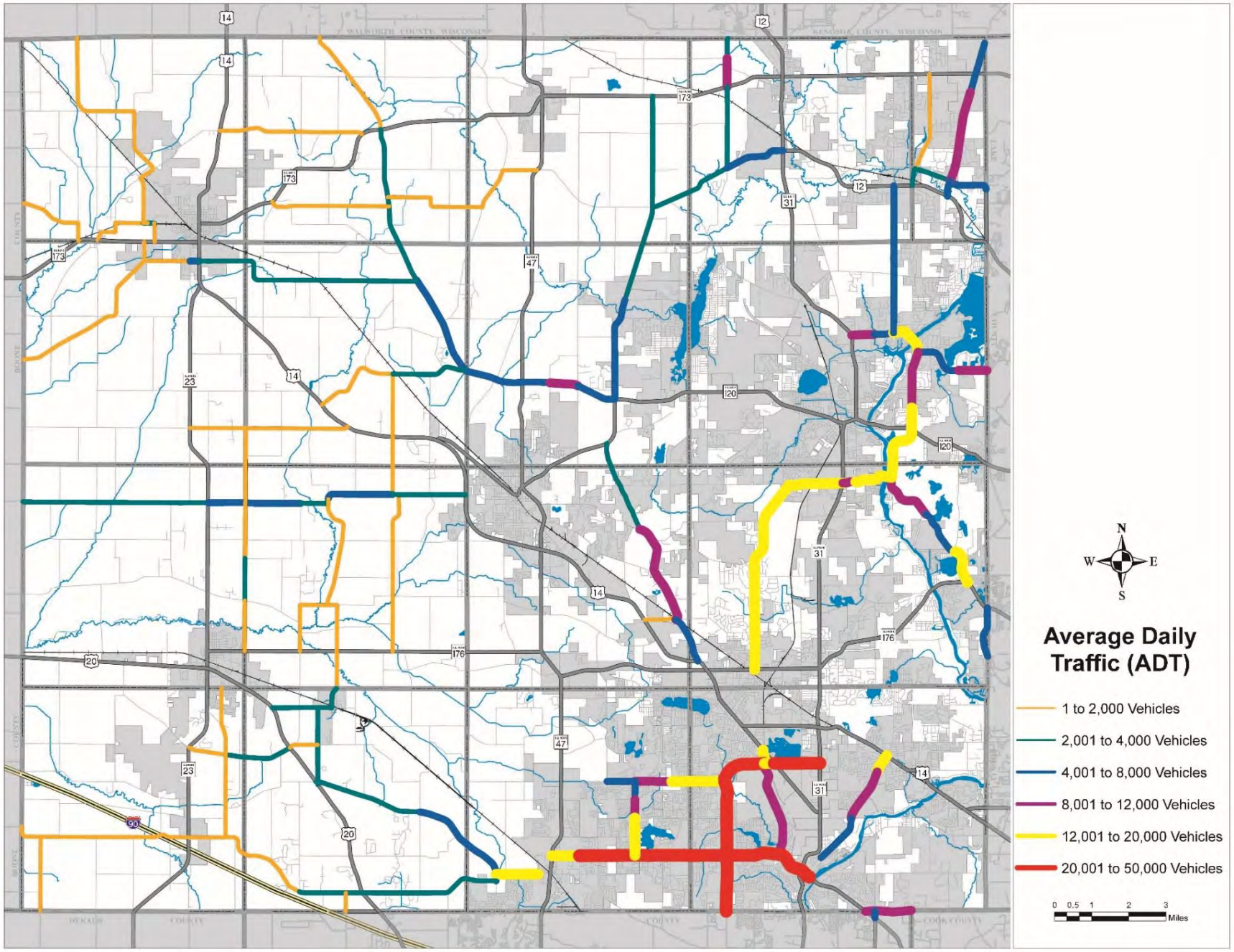


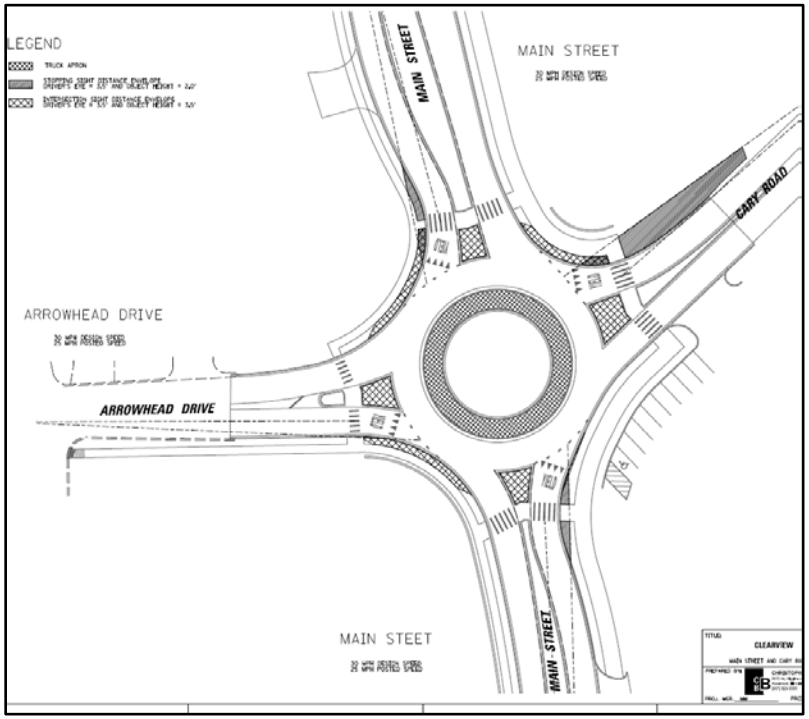
Figure 20: Average Daily Traffic of County Roadways in 2015

Cary Road at Main Street (Algonquin) Roundabout

Title	Cary Road at Main Street (Algonquin) Roundabout		
Scope of Work	Intersection	*Municipality*	Village of Algonquin
Category	Modernization	*Board District*	District 1
Lead Agency	Village of Algonquin	*Total Cost*	$2,000,000
Project ID	*N/A*	*Website*	N/A
Limits	Cary Road at Main Street		
Description	This project is being led by the Village of Algonquin. The Village intends to construct a roundabout at the intersection of Main Street and Cary Road. Three of the four legs of the intersection are under the jurisdiction of the Village, while one leg (the east leg) is under the jurisdiction of McHenry County. Roundabouts have been shown to improve vehicle throughput while increasing safety.		

Segment	Phase	Fund Source	Prior FY	2019	2020	2021	2022	2023	Future FY	Total
Roundabout	CONST	RTA Sales Tax			$500,000					$500,000
	CONST	Village of Algonquin			$1,500,000					$1,500,000
		Total Construction			$2,000,000					$2,000,000
		Total Programmed		**$0**	**$2,000,000**	**$0**	**$0**	**$0**		**$2,000,000**

Total County Cost: $500,000



County-Wide Traffic Counts

Title	County-Wide Traffic Counts		
Scope of Work	Planning	*Municipality*	Various Municipalities
Category	Modernization	*Board District*	All Districts
Lead Agency	McHenry County DOT	*Total Cost*	$215,000
Project ID	N/A	*Website*	www.co.mchenry.il.us/county-government/departments-j-z/transportation/resources/traffic-counts
Limits	McHenry County		
Description	This funding is for traffic counts to be taken on County Highways every two years. These traffic counts are posted on the County website at www.co.mchenry.il.us/county-government/departments-j-/transportation/resources/traffic-counts.		

Segment	Phase	Fund Source	2018	2019	2020	2021	2022	2023	2024	Total
County-wide	ENGR	County Option MFT	$100,000	$0	$105,000	$0	$110,000	$0	$115,000	$215,000
		Total Engineering	$100,000	$0	$105,000	$0	$110,000	$0	$115,000	$215,000
		Total Programmed		**$0**	**$105,000**	**$0**	**$100,000**	**$0**		**$215,000**

Total County Cost: $215,000

County-Wide Signal Timing Study

Title	County-Wide Signal Timing Review		
Scope of Work	Planning	*Municipality*	Various Municipalities
Category	Modernization	*Board District*	All Districts
Lead Agency	McHenry County DOT	*Total Cost*	$100,000
Project ID	N/A	*Website*	
Limits	McHenry County		
Description	This funding is for a study of the County's traffic signal timing in an effort to optimize the performance of the transportation network.		

Segment	Phase	Fund Source	2018	2019	2020	2021	2022	2023	2024	Total
County-wide	ENGR	County Option MFT	$100,000	$0	$0	$100,000	$0	$0	$100,000	$100,000
		Total Engineering	$100,000	$0	$0	$100,000	$0	$0	$100,000	$100,000
		Total Programmed		**$0**	**$0**	**$100,000**	**$0**	**$0**		**$100,000**

Total County Cost: $100,000

Lakewood Road Corridor Complete Streets Project

Title	Lakewood Road Corridor Compete Streets Project		
Scope of Work	Operational Improvements	*Municipality*	Village of Lake in the Hills
Category	Modernization	*Board District*	District 5
Lead Agency	McHenry County DOT	*Total Cost*	$3,670,000
Project ID	TIP # 11-18-0007	*Website*	N/A
Limits	Lakewood Road, from Algonquin Road to Ackman Road		
Description	This project will provide motor vehicle operational improvements to the Lakewood Road corridor and address safety issues for bicyclists and pedestrians. This project combines two projects from the 2018-2022 Transportation Program – the Lakewood Road and Miller Road Intersection Project and the Lakewood Road Shared Use Path Project. The Village of Lake in the Hills has committed to funding 20% of the cost of adding a shared use path.		

Segment	Phase	Fund Source	Prior FY	2019	2020	2021	2022	2023	Future FY	Total
Lakewood Road Corridor	ENGR1	County Option MFT	$200,000							$0
		County Matching	$500,000							$0
		Lake in the Hills	$50,000							$0
		Total Engineering 1	$750,000							$0
	ENGR2	RTA Sales Tax			$400,000					$400,000
		Lake in the Hills			$50,000					$50,000
		Total Engineering 2			$450,000					$450,000
	ROW	RTA Sales Tax				$200,000				$200,000
		Lake in the Hills				$50,000				$50,000
		Total Right of Way				$250,000				$250,000
	CONST	County Option MFT					$800,000	$0		$800,000
		Lake in the Hills					$200,000	$0		$200,000
		RTA Sales Tax					$0	$1,700,000		$1,700,000
		Total Construction					$1,000,000	$1,700,000		$2,700,000
	CE	RTA Sales Tax					$80,000	$170,000		$250,000
		Lake in the Hills					$20,000	$0		$20,000
		Total Construction Engineering					$100,000	$170,000		$270,000
		Total Programmed		**$0**	**$450,000**	**$250,000**	**$1,100,000**	**$1,870,000**		**$3,670,000**

Total County Cost: $3,350,000 Local Share: $320,000

Main Street Extension (West of Huntley) (TIP#11-00-0016)

Title	Main Street (Huntley) Extension		
Scope of Work	New Roadway	*Municipality*	Village of Huntley
Category	Expansion	*Board District*	District 6
Lead Agency	McHenry County DOT	*Total Cost*	$1,500,000
Project ID	TIP # 11-00-0016	*Website*	N/A
Limits	Harmony Road to Main Street		
Description	This funding is to design and construct an extension of Main Street in Huntley west to connect with Harmony Road near the High School. Temporary traffic signals were installed in 2014 at Marengo and Harmony Road and Marengo and Hemmer Road to address traffic operation concerns in this area.		

Segment	Phase	Fund Source	Prior FY	2019	2020	2021	2022	2023	Future FY	Total
Main Street Extension	ENGR	Motor Fuel Tax	$389,174							$0
	ENGR	County Option MFT	$434,439							$0
		Total Engineering	$823,613							$0
	ENGR1	County Option MFT			$500,000					$500,000
		Total Engineering 1			$500,000					$500,000
	ENGR2	RTA Sales Tax						$500,000		$500,000
		Total Engineering 2						$500,000		$500,000
	ROW	County Option MFT						$500,000		$500,000
		Total Right of Way						$500,000		$500,000
	CONST	RTA Sales Tax							$4,000,000	$0
		Total Construction							$4,000,000	$0
	CE	RTA Sales Tax							$400,000	$0
		Total Construction Engineering							$400,000	$0
		Total Programmed		**$0**	**$500,000**	**$0**	**$0**	**$1,000,000**		**$1,500,000**

Total County Cost: $1,500,000

Northern McHenry Fox River Crossing

Title	Northern McHenry Fox River Crossing		
Scope of Work	New Roadway	*Municipality*	City of McHenry
Category	Expansion	*Board District*	District 4
Lead Agency	McHenry County DOT	*Total Cost*	$700,000
Project ID	N/A	*Website*	N/A
Limits	Illinois Route 31 to Chapel Hill Road		

Description

This funding is to begin engineering for a crossing of the Fox River north of the City of McHenry and south of the Village of Johnsburg. This was identified as a high-priority project in the McHenry County 2040 Long-Range Transportation Plan (project M7) and would accommodate the expected increase in traffic resulting from the Route 53/120 Project in Lake County. Both the County of McHenry and the McHenry County Council of Governments have passed resolutions in support of the Illinois Route 53/120 Project, declaring that the project will benefit the citizens and businesses of McHenry County and those who travel through McHenry County into Lake County. Due to the Northern McHenry Fox River Crossing's large anticipated construction cost and the County's lack of financial resources for new roadway alignments and bridges, a toll would likely be needed to help pay for the construction and ongoing maintenance of the bridge.

Segment	Phase	Fund Source	2018	2019	2020	2021	2022	2023	Future FY	Total
North McHenry Fox River Crossing	ENGR1	RTA Sales Tax					$350,000			$350,000
	ENGR1	Municipal Contribution					$350,000			$350,000
		Total Engineering 1					$700,000			$700,000
	ENGR2	RTA Sales Tax							$2,000,000	$0
		Total Engineering 2							$2,000,000	$0
	ROW	RTA Sales Tax							$500,000	$0
		Total Right of Way							$500,000	$0
	CONST	RTA Sales Tax							$50,000,000	$0
		Total Construction							$50,000,000	$0
	CE	County Option MFT							$5,000,000	$0
		Total Construction Engineering							$5,000,000	$0
		Total Programmed		**$0**	**$0**	**$0**	**$700,000**	**$0**		**$700,000**

Total County Cost: $350,000

Randall Road Operational and Capacity Changes (TIP#11-03-0018)

Title	Randall Road Operational and Capacity Changes		
Scope of Work	Add Lanes	*Municipality*	Villages of Lake in the Hills and Algonquin
Category	Expansion	*Board District*	District 1 and District 2
Lead Agency	McHenry County DOT	*Total Cost*	$46,244,089
Project ID	TIP # 11-03-0018	*Website*	http://www.randallroad.info/
Limits	Harnish Drive to Acorn Lane/Polaris Drive		

Description This project is to be constructed in two major segments (from South to North): 1) Harnish Drive to Acorn Lane/Polaris Drive, including the Randall/Algonquin intersection; and 2) Acorn Lane/Polaris Drive to Ackman Road; The total cost for the entire project (Harnish Drive to Ackman Road) is projected to be $114.4 million. As the current cost estimates are beyond the County's ability to fund the entire project, $46.2 million in funding has been identified in this program to construct the southern segment between Harnish Drive and Acorn Lane/Polaris Drive, including the Randall/Algonquin intersection. $13.9 million in Congestion Mitigation and Air Quality (CMAQ) funds from the Federal Highway Administration have been granted to fund the intersection work at Algonquin Road and $2.5 million has been granted for a pedestrian underpass. In 2017, IDOT granted the project $269,973 in Highway Safety Improvement Program (HSIP) funding for the implementation of flashing yellow arrows at the intersection of Algonquin and Crystal Lake Roads. In addition, $9.9 million in Federal STP-C funds have been directed towards this project (a total of $26.6 million from Federal sources).

Segment	Phase	Fund Source	Prior FY	2019	2020	2021	2022	2023	Future FY	Total
Randall Road	ENGR1	MFT	$1,300,470							$0
	ENGR1	Federal Funds	$1,565,723							$0
		Total Engineering 1	$2,866,193							$0
	ENGR2	County MFT	$2,500,000							$0
	ENGR2	RTA Sales Tax	$6,600,000						$1,000,000	$0
		Total Engineering 2	$9,100,000						$1,000,000	$0
	ROW	County Option MFT	$8,000,000							$0
	ROW	County Matching	$6,750,000							$0
	ROW	RTA Sales Tax	$5,750,000						$8,000,000	$0
		Total Right of Way	$20,500,000						$8,000,000	$0
	UTIL	County Matching		$2,000,000						$2,000 ,000
		Total Utility Relocation Cost		$2,000,000						$2,000,000
	CONST	RTA Sales Tax	$6,500,000	$2,114,542	$4,130,515				$18,400,000	$6,245,057
	CONST	County Option MFT		$5,000,000						$5,000,000
	CONST	County Matching			$2,000,000					$2,000,000
	CONST	Federal CMAQ		$8,219,200	$8,219,200					$16,438,400
	CONST	Federal HSIP			$269,973					$269,973
	CONST	Federal STP - C		$9,885,458						$9,885,458
		Total Construction	$6,500,000	$25,219,200	$14,619,688				$18,400,000	$39,838,888
	CE	RTA Sales Tax	$800,000	$1,735,000	$1,735,000	$935,201			$2,000,000	$4,405,201
		Total Construction Engineering	$800,000	$1,735,000	$1,735,000	$935,201			$2,000,000	$4,405,201
		Total Programmed		**$28,954,200**	**$16,354,688**	**$935,201**	**$0**	**$0**		**$46,244,089**

Total County Cost: $19,650,258 Total Federal Share: $26,593,831 *(northern segment)*

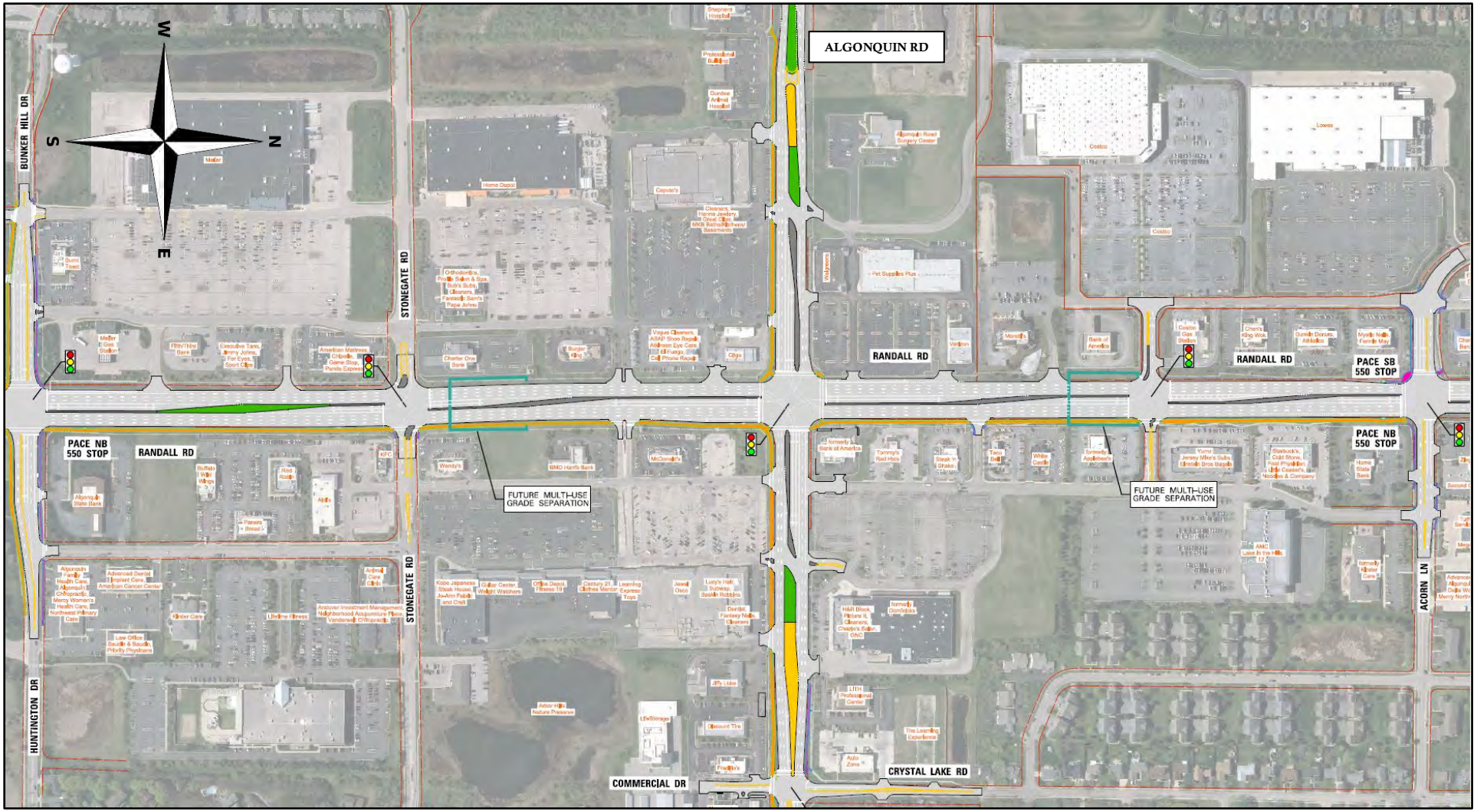


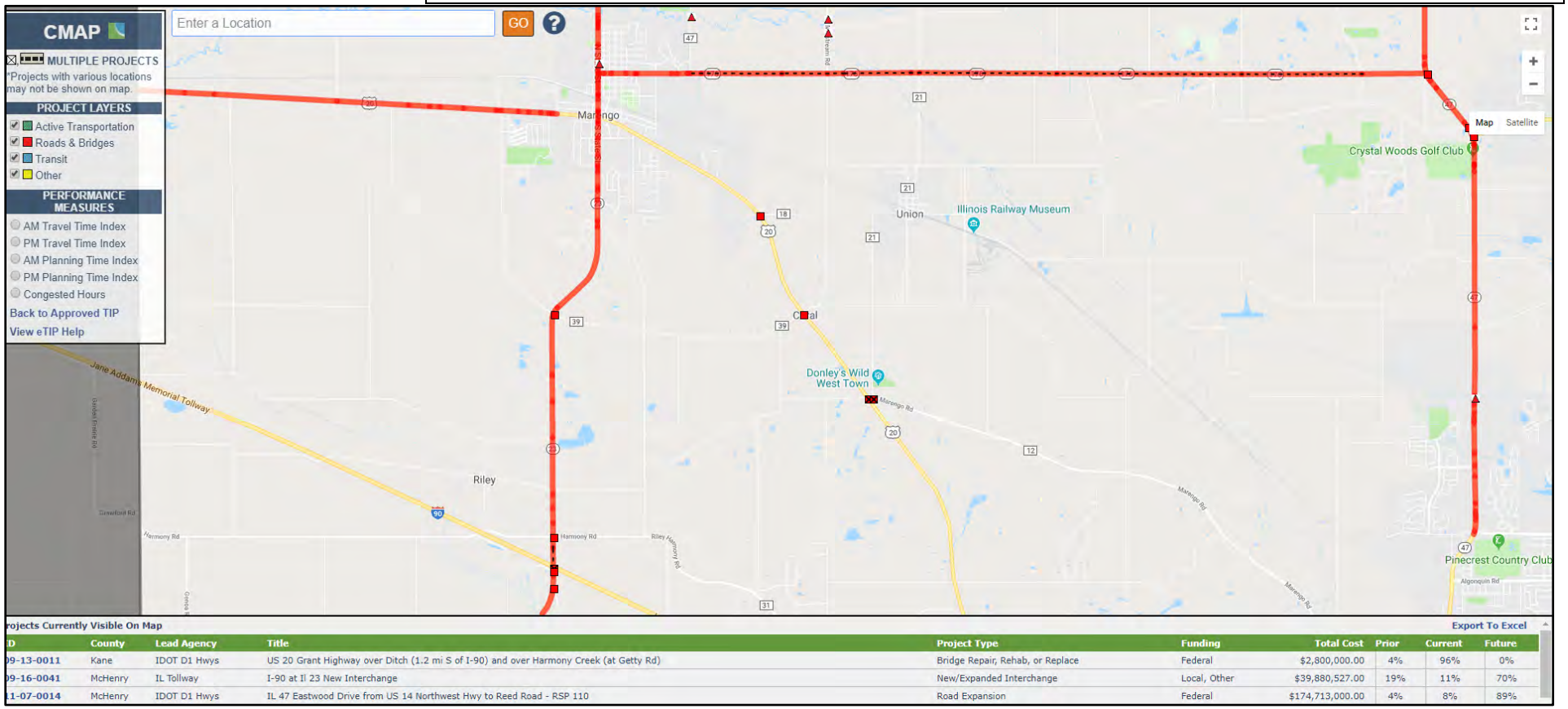
Figure 21: Randall Road Widening Project (Harnish Drive to Acorn/Polaris Drive)

7. State Highway Program

Operational and capacity changes to the County Highway system are best realized when coordinated with other improvements to the transportation network. In particular, the State Highways maintained by the Illinois Department of Transportation (IDOT) form the backbone of McHenry County's transportation network and are therefore vital to the efficient movement of goods and persons throughout the County. Between 2019 and 2023, $37.4 million has been programmed for State Highway improvements. Of that amount, $6.8 million is programmed from County sources.

State Highway Program	2019-2023 Programmed Costs
Illinois Route 23 and I-90 Jane Addams Interchange Project	$31,342,888
Illinois Route 176 at Nish Road Intersection Project	$1,580,000
U.S. Route 20 at W. Union/Coral/Marengo/Union/Beck Road Intersection Project	$2,700,000
U.S. Route 14 and Virginia Road Intersection Project	$1,813,133
TOTAL	**$37,436,021**
Annual Average	**$7,487,204**

Figure 22: State Projects in the Region's TIP



D	County	Lead Agency	Title	Project Type	Funding	Total Cost	Prior	Current	Future
09-13-0011	Kane	IDOT D1 Hwys	US 20 Grant Highway over Ditch (1.2 mi S of I-90) and over Harmony Creek (at Getty Rd)	Bridge Repair, Rehab, or Replace	Federal	$2,800,000.00	4%	96%	0%
09-16-0041	McHenry	IL Tollway	I-90 at Il 23 New Interchange	New/Expanded Interchange	Local, Other	$39,880,527.00	19%	11%	70%
11-07-0014	McHenry	IDOT D1 Hwys	IL 47 Eastwood Drive from US 14 Northwest Hwy to Reed Road - RSP 110	Road Expansion	Federal	$174,713,000.00	4%	8%	89%

Illinois Route 23 and I-90 Interchange Project

Title	Illinois Route 23 and Interstate 90 Interchange Project		
Scope of Work	Interchange	*Municipality*	City of Marengo
Category	Expansion	*Board District*	District 6
Lead Agency	McHenry County DOT	*Total Cost*	$31,342,888
Project ID	TIP # 09-16-0041	*Website*	https://www.illinoistollway.com/projects/jane-addams/illinois-route-23-bridge-project\
Limits	Harmony Road to Coon Creek Road		

Description

This funding from McHenry County is for the local portion of total costs to add an interchange at Illinois State Route 23 and the Jane Addams Memorial Tollway (I-90) in the City of Marengo. The cost share arrangement is laid out in the Illinois Tollway Interchange and Roadway Cost Share Policy. The total cost of $42.6 million includes the cost of replacing the bridge over I-90 as well as the cost of adding interchange ramps. This project will also add a roundabout at the intersection of Illinois State Route 23 and Harmony Road, just north of the interchange location. The City of Marengo has committed to repaying McHenry County for its share of the interchange costs ($9.6 million) through a value capture mechanism, which will be further defined in the upcoming construction intergovernmental agreement between the partner agencies. Once built, the interchange will increase traffic traveling along Illinois Route 23 both north and south of I-90. As identified in the McHenry County 2040 Long Range Transportation Plan, it is imperative that the Illinois Route 23 corridor is planned and developed as a regional thoroughfare, allowing for the efficient movement of people and goods throughout McHenry County. This would include a bypass of the City of Marengo (project M6 in the Plan) and preservation of right of way along the Illinois Route 23 corridor between the Cities of Marengo and Harvard (project B18 in the Plan).

Segment	Phase	Fund Source	Prior FY	2019	2020	2021	2022	2023	Future FY	Total
IL23 & I-90 Interchange	PRE ENGR	City of Marengo	$300,000							$0
	ENGR1	County Option MFT	$1,680,667							$0
		Total Engineering 1	$1,980,667							$0
	ENGR2	County Matching	$1,266,743							$0
		Total Engineering 2	$1,266,743							$0
	ROW	RTA Sales Tax	$62,500							$0
	ROW	State of Illinois	$62,500							$0
	ROW	Illinois Tollway Authority	$1,049,602							$0
		Total Right of Way	$1,174,602							$0
	CONST	RTA Sales Tax		$2,000,000	$2,000,000	$2,000,000				$6,000,000
	CONST	State of Illinois		$7,530,830						$7,530,830
	CONST	Illinois Tollway Authority	$6,873,730	$15,137,058						$15,137,058
		Total Construction	$6,873,730	$24,667,888	$2,000,000	$2,000,000				$28,667,888
	CE	County Option MFT		$668,750						$668,750
	CE	State of Illinois		$668,750						$668,750
	CE	Illinois Tollway Authority		$1,337,500						$1,337,500
		Total Construction Engineering		$2,675,000						$2,675,000
		Total Programmed		**$27,342,888**	**$2,000,000**	**$2,000,000**	**$0**	**$0**		**$31,342,888**

Total County Cost: $6,668,750 Total State of Illinois Share: $8,199,580 Total Illinois Tollway Share: $16,474,558

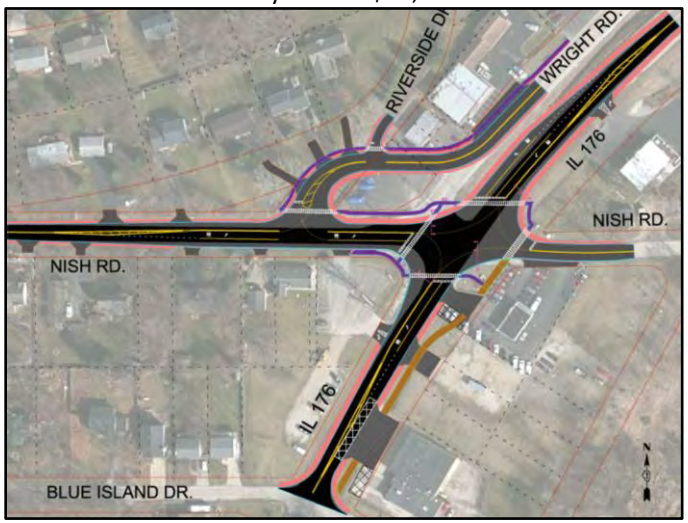
Figure 23: Proposed I-90 and IL 23 Interchange and Roundabout at IL 23 and Harmony Road

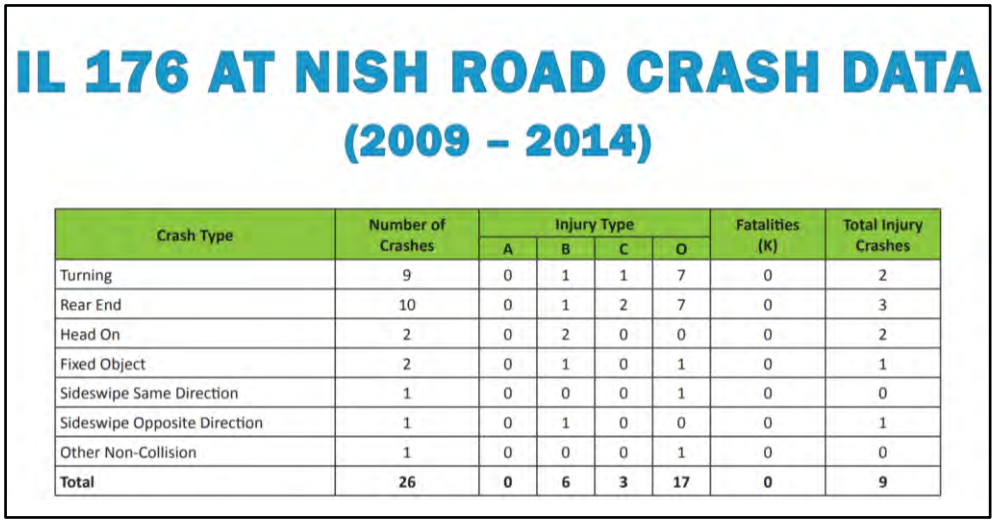
Illinois Route 176 and Nish Road Intersection Project (TIP#11-09-0058)

Title	Illinois Route 176 at Nish Road Intersection Improvements		
Scope of Work	Intersection Improvements	*Municipality*	Unincorporated Nunda Township
Category	Modernization	*Board District*	District 3
Lead Agency	Illinois Department of Transportation	*Total Cost*	$1,580,000
Project ID	TIP # 11-09-0058	*Website*	N/A
Limits	Intersection of IL 176 and Nish Road		
Description	The Illinois Department of Transportation has initiated a preliminary engineering and environmental study (Phase I) for the improvement of IL 176 at Nish Road located in unincorporated Nunda Township in McHenry County. The proposed project is anticipated to consist of the installation of a traffic signal at the intersection of IL 176 and Nish Road, and the realignment of Wright Road at Nish Road approximately 200 feet to the west. Riverside Drive is proposed to end in a "tee" intersection at Wright Road. The project will also include pedestrian and bicyclist accommodations and drainage improvements. The improvements are expected to improve traffic operations and enhance safety at the intersection.		

Segment	Phase	Fund Source	Prior FY	2019	2020	2021	2022	2023	Future FY	Total
IL 176 at Nish Road	ROW	State of Illinois		$80,000						$80,000
		Total Right-of-Way		$80,000						$80,000
	CONST	State of Illinois				$292,000				$292,000
		Federal Funds				$1,168,000				$1,168,000
		Nunda Township				$20,000				$20,000
		RTA Sales Tax Funds				$20,000				$20,000
		Total Construction				$1,500,000				$1,500,000
		Total Programmed		**$80,000**	**$0**	**$1,500,000**	**$0**	**$0**		**$1,580,000**

Total County Cost: $20,000 Total Federal Share: $1,168,000 Total State of Illinois Share: $372,000





IL 176 AT NISH ROAD CRASH DATA

(2009 – 2014)

Crash Type	Number of Crashes	Injury Type				Fatalities (K)	Total Injury Crashes
		A	B	C	O		
Turning	9	0	1	1	7	0	2
Rear End	10	0	1	2	7	0	3
Head On	2	0	2	0	0	0	2
Fixed Object	2	0	1	0	1	0	1
Sideswipe Same Direction	1	0	0	0	1	0	0
Sideswipe Opposite Direction	1	0	1	0	0	0	1
Other Non-Collision	1	0	0	0	1	0	0
Total	**26**	**0**	**6**	**3**	**17**	**0**	**9**

U.S. Route 20 at West Union Road, Coral Road, and Marengo/Union/Beck (TIP#11-13-0001)

Title	US 20 at 1)West Union Rd and at Coral Rd; 2)At Creek (0.4 MI W of Beck Rd.); 3) At Marengo-Beck/South Union Road		
Scope of Work	Intersection	*Municipality*	Unincorporated Coral Township
Category	Modernization	*Board District*	District 6
Lead Agency	Illinois Department of Transportation	*Total Cost*	$2,700,000
Project ID	TIP # 11-13-0001	*Website*	http://www.idot.illinois.gov/projects/US20-at-Marengo
Limits	Along US 20 1)at West Union Rd and 2) at Coral From Coral Rd Grant Highway Bridge and 3) Marengo/Beck/South Union		
Description	This funding is to pay for the County's portion of the improvements made to U.S. Route 20 at 1) West Union Rd and at Coral Rd 2) At Creek (0.4 MI W of Beck Rd.) 3) At Marengo-Beck/South Union Road. The Illinois Department of Transportation is looking at installing roundabouts at these intersections for safety and operational improvements.		

Segment	Phase	Fund Source	Prior FY	2019	2020	2021	2022	2023	Future FY	Total
U.S. Route 20 Intersections	ENGR2	State of Illinois	$335,000							$0
		Total Engineering 2	$335,000							$0
	ROW	Federal HSIP	$1,044,000							$0
	ROW	State of Illinois	$331,000							$0
		Total Right of Way	$1,375,000							$0
	CONST	Federal HSIP	$1,350,000		$1,790,000					$3,140,000
	CONST	State of Illinois	$150,000	$160,000	$199,000					$509,000
	CONST	County Option MFT			$11,000					$11,000
	CONST	Federal NHPP		$540,000						$540,000
		Total Construction		$700,000	$2,000,000					$2,700,000
		Total Programmed		**$700,000**	**$2,000,000**					**$2,700,000**

Total County Cost: $11,000 Total Federal Share: $2,330,000 Total State of Illinois Share: $359,000

U.S. Route 14 and Virginia Road Intersection Signalization Project

Title	U.S. 14 and Virginia Road Intersection Project		
Scope of Work	Intersection	*Municipality*	City of Crystal Lake
Category	Modernization	*Board District*	District 2
Lead Agency	City of Crystal Lake	*Total Cost*	$1,813,133
Project ID	TIP # 11-18-4287	*Website*	N/A
Limits	Intersection of U.S. 14 and Virginia Road		
Description	This project will add an additional left turn lane on Virginia Road, an additional eastbound right turn lane on Route 14, upgrade the traffic signal equipment and provide pedestrian accommodations. The City of Crystal Lake applied for and received Federal Congestion Mitigation and Air Quality (CMAQ) funding in 2017 to pay for 80% of the cost of construction. The Illinois Department of Transportation's (IDOT's) maximum financial participation is $242,960 with the remainder paid for by the City and the County.		

Segment	Phase	Fund Source	Prior FY	2019	2020	2021	2022	2023	Future FY	Total
U.S. 14 and Virginia Road	ENGR1	City of Crystal Lake	$24,000							$0
	ENGR1	RTA Sales Tax	$24,000							$0
		Total Engineering 1	$48,000							$0
	ENGR2	City of Crystal Lake	$72,000							$0
	ENGR2	RTA Sales Tax	$72,000							$0
		Total Engineering 2	$144,000							$0
	CONST	City of Crystal Lake		$54,631						$54,631
	CONST	RTA Sales Tax		$54,631						$54,631
	CONST	State of Illinois		$221,833						$221,833
	CONST	Federal CMAQ Funding		$1,324,374						$1,324,374
		Total Construction		$1,655,469						$1,655,469
	CE	City of Crystal Lake		$5,203						$5,203
	CE	RTA Sales Tax		$5,203						$5,203
	CE	State of Illinois		$21,127						$21,127
	CE	Federal CMAQ Funding		$126,131						$126,131
		Total Construction Engineering		$157,664						$157,664
		Total Programmed		**$1,813,133**						**$1,813,133**

Total County Cost: $59,834 City of Crystal Lake Share: $59,834 Federal CMAQ Funding: $1,450,505

8. Bicycle, Pedestrian, and Transit Program

Bus and commuter rail operations in McHenry County provide efficient connections to the metropolitan region. These operations also provide much needed transportation services to those living in the County. To date, many of these needs remain unmet. As indicated in the County's *2040 Plan*, the lack of sidewalks and comfortable bicycle accommodations present a great challenge for transit operations in the County. Between 2019 and 2023, $25.8 million is programmed for bicycle, pedestrian, and transit projects ($14.8 million from County sources) to improve bicycle and pedestrian accessibility and access to transit services.

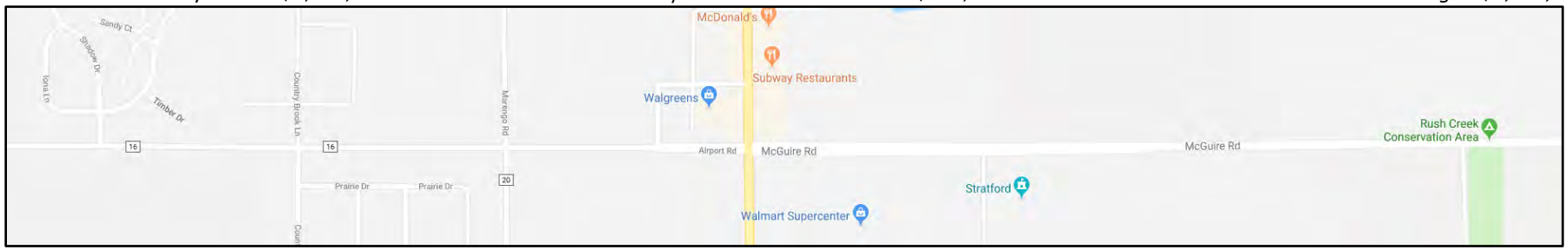
Bicycle, Pedestrian, and Transit Program Summary	2019-2023 Programmed Costs
Airport/McGuire Road Shared-Use Path	$1,707,500
Bull Valley Road Bike Path	$1,545,000
Cary-Algonquin Shared-Use Path	$350,000
Countywide Bike Share Program	$550,000
MCRide Dial-a-Ride Pace Contract	$11,700,000
Metra Service Enhancements	$8,000,000
Rakow Road Bike Path	$200,000
Randall Road Shared Use Path	$187,500
U.S. 14 and Kishwaukee Valley Road Crossing	$910,000
Volunteer Driver and Transit Enhancement Program	$625,000
TOTAL	**$25,775,000**
Annual Average	**$5,155,000**

Airport/McGuire Road Bicycle and Pedestrian Accommodations

Title	Airport/McGuire Road Bicycle and Pedestrian Accommodations		
Scope of Work	Shared-Use Path	*Municipality*	City of Harvard
Category	Modernization	*Board District*	District 6
Lead Agency	McHenry County DOT	*Total Cost*	$1,707,500
Project ID	N/A	*Website*	N/A
Limits	Shadow Drive to Rush Creek Conservation Area		
Description	This project will add bicycle and pedestrian accommodations along Airport and McGuire Roads from Shadow Drive to Rush Creek Conservation Area in the City of Harvard. This project would also install a pedestrian crossing at the intersection with U.S. 14. Federal Transportation Alternatives Program (TAP) and/or State Illinois Transportation Enhancement Program (ITEP) funding will be pursued to reduce the local cost by 80%.		

Segment	Phase	Fund Source	Prior FY	2019	2020	2021	2022	2023	Future FY	Total
Airport/McGuire Rd	ENGR1	City of Harvard			$37,500					$37,500
Shared Use Path	ENGR1	RTA Sales Tax			$150,000					$150,000
		Total Engineering 1			$187,500					$187,500
	ENGR2	City of Harvard				$30,000				$30,000
	ENGR2	RTA Sales Tax				$120,000				$120,000
		Total Engineering 2				$150,000				$150,000
	ROW	City of Harvard					$10,000			$10,000
	ROW	RTA Sales Tax					$40,000			$40,000
		Total Right of Way					$50,000			$50,000
	CONST	City of Harvard						$240,000		$240,000
	CONST	RTA Sales Tax						$960,000		$960,000
		Total Construction						$1,200,000		$1,200,000
	CE	City of Harvard						$24,000		$24,000
	CE	RTA Sales Tax						$96,000		$96,000
		Total Construction Engineering						$120,000		$120,000
		Total Programmed		**$0**	**$187,500**	**$150,000**	**$50,000**	**$1,320,000**		**$1,707,500**

Total County Cost: $1,366,000 City of Harvard - Local Share: $341,500 **Potential Federal Funding: $1,216,000*



Bull Valley Road Bicycle and Pedestrian Accommodations

Title	Bull Valley Road Bicycle and Pedestrian Accommodations		
Scope of Work	Shared-Use Path	*Municipality*	City of McHenry
Category	Modernization	*Board District*	District 3
Lead Agency	City of McHenry	*Total Cost*	$1,545,000
Project ID	TIP # 11-18-0006	*Website*	N/A
Limits	Prairie Trail to Illinois Route 31		
Description	This project will add a shared-use path along Bull Valley Road from the Prairie Trail to Illinois Route 31 in the City of McHenry. This would allow trail users to access the McHenry municipal building, Centegra Hospital, and the Moraine Hills State Park. Federal Transportation Alternatives Program (TAP) and/or State Illinois Transportation Enhancement Program (ITEP) funding will be pursued to reduce the local cost by 80%.		

Segment	Phase	Fund Source	Prior FY	2019	2020	2021	2022	2023	Future FY	Total
Bull Valley Road Bike Path	ENGR1	City of McHenry	$37,500							$0
	ENGR1	RTA Sales Tax	$150,000							$0
		Total Engineering 1	$187,500							$0
	ENGR2	City of McHenry		$30,000						$30,000
	ENGR2	RTA Sales Tax		$120,000						$120,000
		Total Engineering 2		$150,000						$150,000
	ROW	City of McHenry			$15,000					$15,000
	ROW	RTA Sales Tax			$60,000					$60,000
		Total Right of Way			$75,000					$75,000
	CONST	City of McHenry				$240,000				$240,000
	CONST	RTA Sales Tax				$960,000				$960,000
		Total Construction				$1,200,000				$1,200,000
	CE	City of McHenry				$24,000				$24,000
	CE	RTA Sales Tax				$96,000				$96,000
		Total Construction Engineering				$120,000				$120,000
		Total Programmed		**$150,000**	**$75,000**	**$1,320,000**	**$0**	**$0**		**$1,545,000**

Total County Cost: $1,236,000 City of McHenry - Local Share: $309,000 **Potential Federal Funding: $1,236,000*

Cary-Algonquin Road Bicycle and Pedestrian Accommodations

Title	Cary-Algonquin Road Bicycle and Pedestrian Accommodations		
Scope of Work	Shared-Use Path	*Municipality*	Villages of Algonquin and Cary
Category	Modernization	*Board District*	District 2
Lead Agency	McHenry County DOT	*Total Cost*	$350,000
Project ID	N/A	*Website*	N/A
Limits	North Main Street (Algonquin) to Fox Trails Drive South (Cary)		
Description	This project will add bicycle and pedestrian accommodations along Cary-Algonquin Road connecting residents in Cary and Algonquin with the McHenry County Conservation District's Fox Bluff Conservation Area. These accommodations will also enable pedestrians and bicyclists to access both Algonquin and Cary's downtown.		

Segment	Phase	Fund Source	Prior FY	2019	2020	2021	2022	2023	Future FY	Total
Cary-Algonquin Rd Shared-Use Path	ENGR1	Village of Cary				$15,000				$15,000
	ENGR1	Village of Algonquin				$15,000				$15,000
	ENGR1	County Matching Fund				$120,000				$120,000
		Total Engineering 1				$150,000				$150,000
	ENGR2	RTA Sales Tax					$150,000			$150,000
		Total Engineering 2					$150,000			$150,000
	ROW	RTA Sales Tax						$50,000		$50,000
		Total Right of Way						$50,000		$50,000
	CONST	RTA Sales Tax							$1,000,000	$0
		Total Construction							$1,000,000	$0
	CE	RTA Sales Tax							$100,000	$0
		Total Construction Engineering							$100,000	$0
		Total Programmed		**$0**	**$0**	**$150,000**	**$150,000**	**$50,000**		**$350,000**

Total County Cost: $320,000 Villages of Algonquin & Cary: $30,000 **Potential Federal Funding: $120,000*

Countywide Bike Share Program

Title	Countywide Bike Share Program Sponsored by Visit McHenry County		
Scope of Work	Bike Share Program	*Municipality*	All Municipalities
Category	Expansion	*Board District*	All Board Districts
Lead Agency	Visit McHenry County	*Total Cost*	$550,000
Project ID	*N/A*	*Website*	https://www.zagster.com/
Limits	Countywide		
Description	Visit McHenry County is leading an effort to implement a bike share program in McHenry County. Potential municipal partners will be engaged in late 2018 and the bike share program is scheduled to begin in the Spring of 2019. McHenry County is planning to assist this effort with a $10,000 per year contribution made through the Division of Transportation. This will be matched by an equal contribution by Visit McHenry County and together this funding will reduce the cost for partner municipalities. The funding shown below assumes ten bike share stations will be scattered throughout the County, focused primarily at Metra Stations, historic downtowns, and along the Prairie Trail.		

Project	Phase	Fund Source	Prior FY	2019	2020	2021	2022	2023	Future FY	Total
Countywide Bike Share	TRAN	RTA Sales Tax	$0	$10,000	$10,000	$10,000	$10,000	$0	$0	$40,000
	TRAN	Visit McHenry County	$0	$10,000	$10,000	$10,000	$10,000	$10,000	$10,000	$50,000
	TRAN	Partner Municipalities	$0	$90,000	$90,000	$90,000	$90,000	$100,000	$100,000	$460,000
		Total Transportation	$0	$110,000	$110,000	$110,000	$110,000	$110,000	$110,000	$550,000
		Total Programmed		**$110,000**	**$110,000**	**$110,000**	**$110,000**	**$110,000**		**$550,000**

Total County Cost: $40,000 Visit McHenry County Share: $50,000

MCRide Dial-a-Ride Pace Contract

Title	MCRide Dial-a-Ride Pace Contract		
Scope of Work	Paratransit	*Municipality*	Various Municipalities
Category	Expansion	*Board District*	All Board Districts
Lead Agency	Pace Suburban Bus	*Total Cost*	$11,700,000
Project ID	TIP # 13-14-0014 (Section 5310)	*Website*	www.co.mchenry.il.us/county-government/departments-j-z/transportation/transit-services/mcride-dial-a-ride
Limits	MCRide Service Area		

Description

MCRide service is a demand-response transit operation in and between the Cities of Crystal Lake, McHenry, Woodstock, Huntley, Marengo, Harvard, Ringwood, Johnsburg, Richmond and Union, as well as the townships of Dorr, Greenwood, Nunda, McHenry, Grafton, Marengo, Riley, Chemung and Richmond. In 2017, over 103,000 total trips were taken by approximately 3,000 individuals. Grants ($375,000 in federal Section 5310, and $45,000 in County Senior Services Grant funds) were used to offset operational costs. More information regarding this program can be found at www.co.mchenry.il.us/county-government/departments-j-z/transportation/transit-services/mcride-dial-a-ride.

Project	Phase	Fund Source	2018	2019	2020	2021	2022	2023	2024	Total
MCRide Dial-a-Ride	TRAN	Rider Fares	$175,000	$200,000	$205,000	$210,000	$215,000	$220,000	$225,000	$1,050,000
	TRAN	Pace Suburban Bus Subsidy	$860,000	$910,000	$920,000	$930,000	$940,000	$950,000	$960,000	$4,650,000
	TRAN	Federal Section 5310 Funding	$425,000	$490,000	$500,000	$510,000	$520,000	$530,000	$540,000	$2,550,000
	TRAN	Municipalities and Townships	$230,000	$250,000	$250,000	$260,000	$260,000	$270,000	$270,000	$1,290,000
	TRAN	RTA Sales Tax	$270,000	$460,000	$450,000	$430,000	$420,000	$400,000	$390,000	$2,160,000
		Total Public Transportation	$1,960,000	$2,310,000	$2,325,000	$2,340,000	$2,355,000	$2,370,000	$2,385,000	$11,700,000
		Total Programmed		**$2,310,000**	**$2,325,000**	**$2,340,000**	**$2,355,000**	**$2,370,000**		**$11,700,000**

Total County Cost: $2,160,000 Total Federal Share: $2,550,000 Total Pace Bus Share: $4,650,000

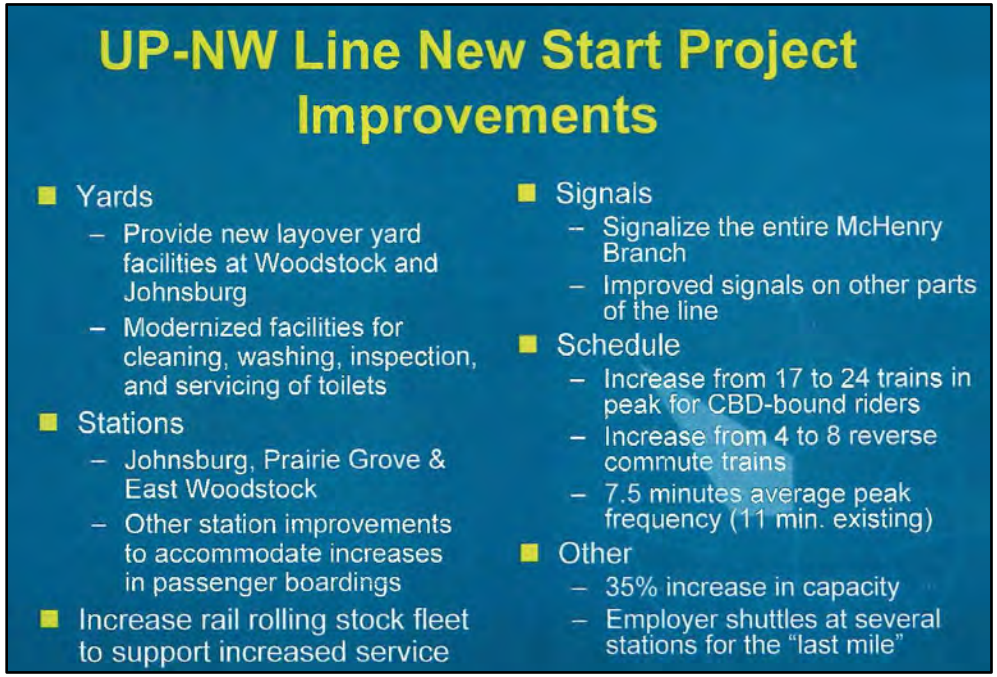
Metra Service Enhancements

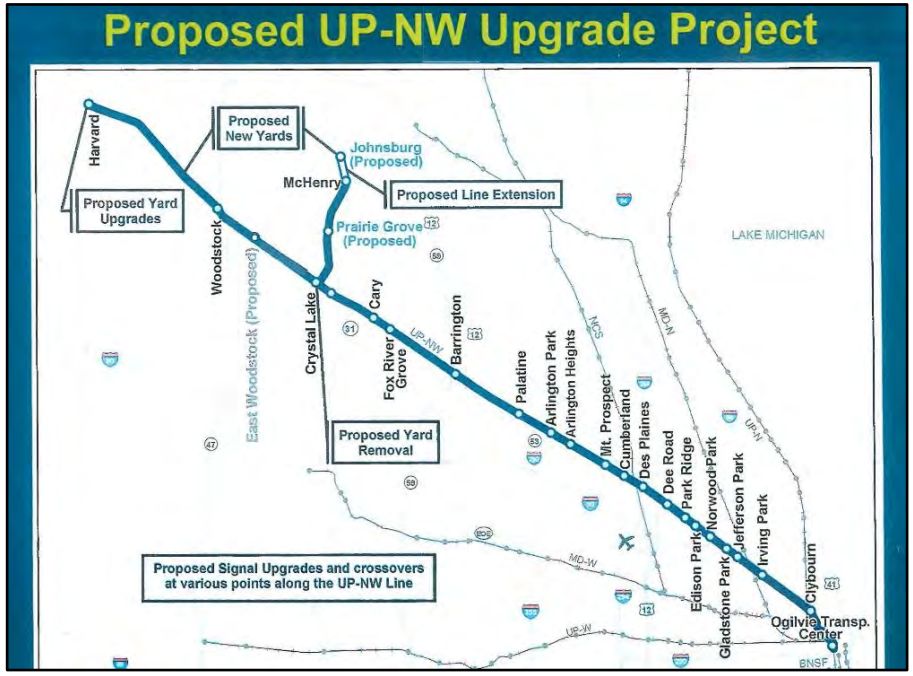
Title	Metra Service Enhancements		
Scope of Work	Public Transportation	*Municipality*	All Municipalities
Category	Expansion	*Board District*	All Board Districts
Lead Agency	McHenry County DOT	*Total Cost*	$8,000,000
Project ID	TIP # 18-07-0670	*Website*	https://metrarail.com/sites/default/files/assets/about-metra/studies/up-nw_aa_final_report_october2007.pdf
Limits	Metra Union Pacific Northwest (UP-NW) Line		

Description The McHenry County 2040 Long Range Transportation Plan identified the upgrades of the Union Pacific Northwest Metra line to be the highest priority project in the Plan. With that in mind, any eventual service expansion by Metra will require significant local (State, County, Municipal) funding to match Federal funds for the project. An investment of $4,000,000 per year, starting in 2022, represents the first annual down payment towards a total County contribution of $20,000,000. Together with additional funds from Cook County, the City of Chicago and other municipalities along the rail line, as well as a contribution from the State of Illinois, a large local match can be used to leverage the necessary Federal funds to complete the project. A description of the UP-NW Line New Starts Project is shown below.

Project	Phase	Fund Source	Prior FY	2019	2020	2021	2022	2023	Future FY	Total
Metra Service Enhancements	TRAN	RTA Sales Tax		$0	$0	$0	$4,000,000	$4,000,000	$12,000,000	$8,000,000
		Total Transportation		$0	$0	$0	$4,000,000	$4,000,000	$12,000,000	$8,000,000
		Total Programmed		**$0**	**$0**	**$0**	**$4,000,000**	**$4,000,000**		**$8,000,000**

Total County Cost: $8,000,000





Rakow Road Bicycle and Pedestrian Accommodations

Title	Rakow Road Bicycle and Pedestrian Accommodations		
Scope of Work	Shared-Use Path	*Municipality*	City of Crystal Lake and Village of Lake in the Hills
Category	Modernization	*Board District*	District 2
Lead Agency	McHenry County DOT	*Total Cost*	$200,000
Project ID	N/A	*Website*	N/A
Limits	Ackman Road to Pyott Road		
Description	This project will add bicycle and pedestrian accommodations along Rakow Road from Ackman Road to the Prairie Trail. Rakow Road currently allows bicyclists to travel in a 14 foot wide outside lane, however, high speed vehicle traffic and a lack of safe roadway crossings has prevented many residents from using this facility. Federal Transportation Alternatives Program (TAP) and/or State Illinois Transportation Enhancement Program (ITEP) funding will be pursued to reduce the local cost by 80%. This project will require collaboration with the City of Crystal Lake and the Village of Lake in the Hills, as Rakow Road divides these two municipalities.		

Segment	Phase	Fund Source	Prior FY	2019	2020	2021	2022	2023	Future FY	Total
Rakow Road Bike Path	ENGR1	City of Crystal Lake				$10,000				$10,000
	ENGR1	Village of Lake in the Hills				$10,000				$10,000
	ENGR1	RTA Sales Tax				$80,000				$80,000
		Total Engineering 1				$100,000				$100,000
	ENGR2	City of Crystal Lake					$10,000			$10,000
	ENGR2	Village of Lake in the Hills					$10,000			$10,000
	ENGR2	RTA Sales Tax					$80,000			$80,000
		Total Engineering 2					$100,000			$100,000
	CONST	City of Crystal Lake							$100,000	$0
	CONST	Village of Lake in the Hills							$100,000	$0
	CONST	RTA Sales Tax							$800,000	$0
		Total Construction							$1,000,000	$0
	CE	City of Crystal Lake							$10,000	$0
	CE	Village of Lake in the Hills							$10,000	$0
	CE	RTA Sales Tax							$80,000	$0
		Total Construction Engineering							$100,000	$0
		Total Programmed		**$0**	**$0**	**$100,000**	**$100,000**	**$0**		**$200,000**

Total County Cost: $160,000 Total Municipal Share: $40,000 **Potential Federal Funding: $960,000*

Randall Road Bicycle and Pedestrian Accommodations

Title	Randall Road Bicycle and Pedestrian Accommodations		
Scope of Work	Shared-Use Path	*Municipality*	Village of Algonquin
Category	Modernization	*Board District*	District 1
Lead Agency	Village of Algonquin	*Total Cost*	$187,500
Project ID	N/A	*Website*	N/A
Limits	County Line Road to Harnish Drive		
Description	This project will add bicycle and pedestrian accommodations along Randall Road from County Line Road to Harnish Drive in the Village of Algonquin. This project would also install pedestrian crossings at the intersection of Randall Road and County Line Road. Federal Transportation Alternatives Program (TAP) and/or State Illinois Transportation Enhancement Program (ITEP) funding will be pursued to reduce the local cost by 80%.		

Segment	Phase	Fund Source	Prior FY	2019	2020	2021	2022	2023	Future FY	Total
Randall Road Shared Use Path	ENGR1	Village of Algonquin						$37,500		$37,500
	ENGR1	RTA Sales Tax						$150,000		$150,000
		Total Engineering 1						$187,500		$187,500
	ENGR2	Village of Algonquin							$30,000	$0
	ENGR2	RTA Sales Tax							$120,000	$0
		Total Engineering 2							$150,000	$0
	ROW	RTA Sales Tax							$40,000	$0
		Total Right of Way							$40,000	$0
	CONST	Village of Algonquin							$240,000	$0
	CONST	RTA Sales Tax							$960,000	$0
		Total Construction							$1,200,000	$0
	CE	Village of Algonquin							$24,000	$0
	CE	RTA Sales Tax							$96,000	$0
		Total Construction Engineering							$120,000	$0
		Total Programmed		**$0**	**$0**	**$0**	**$0**	**$187,500**		**$187,500**

Total County Cost: $150,000 Village of Algonquin - Local Share: $37,500 **Potential Federal Funding: $0*

U.S. 14 and Kishwaukee Valley Road Bicycle and Pedestrian Accommodations

Title	U.S. 14 & Kishwaukee Valley Road Bicycle and Pedestrian Accommodations		
Scope of Work	Shared-Use Path	*Municipality*	City of Woodstock
Category	Modernization	*Board District*	District 5 and District 6
Lead Agency	City of Woodstock	*Total Cost*	$910,000
Project ID	N/A	*Website*	N/A
Limits	PADS Shelter East to U.S. 14, including the Intersection of U.S. 14 and Kishwaukee Valley Road		
Description	This project will add a safe pedestrian crossing at the intersection of U.S. 14 and Kishwaukee Valley Road in the City of Woodstock. This project will also add bicycle and pedestrian accommodations along Kishwaukee Valley Road for approximately 1/3 of a mile west of U.S. 14. Heavy pedestrian traffic crossing at U.S. 14 and Kishwaukee Valley Rd can be attributed to the Pioneer Center PADS shelter located just west of the target intersection.		

Segment	Phase	Fund Source	Prior FY	2019	2020	2021	2022	2023	Future FY	Total
U.S. 14 and Kishwaukee	ENGR1	City of Woodstock			$20,000					$20,000
	ENGR1	RTA Sales Tax			$80,000					$80,000
		Total Engineering 1			$100,000					$100,000
	ENGR2	City of Woodstock				$20,000				$20,000
	ENGR2	RTA Sales Tax				$80,000				$80,000
		Total Engineering 2				$100,000				$100,000
	ROW	City of Woodstock				$10,000				$10,000
	ROW	RTA Sales Tax				$40,000				$40,000
		Total Right of Way				$50,000				$50,000
	CONST	City of Woodstock					$120,000			$120,000
	CONST	RTA Sales Tax					$480,000			$480,000
		Total Construction					$600,000			$600,000
	CE	City of Woodstock					$12,000			$12,000
	CE	RTA Sales Tax					$48,000			$48,000
		Total Construction Engineering					$60,000			$60,000
		Total Programmed		**$0**	**$100,000**	**$150,000**	**$660,000**	**$0**		**$910,000**

Total County Cost: $728,000 City of Woodstock Share: $182,000

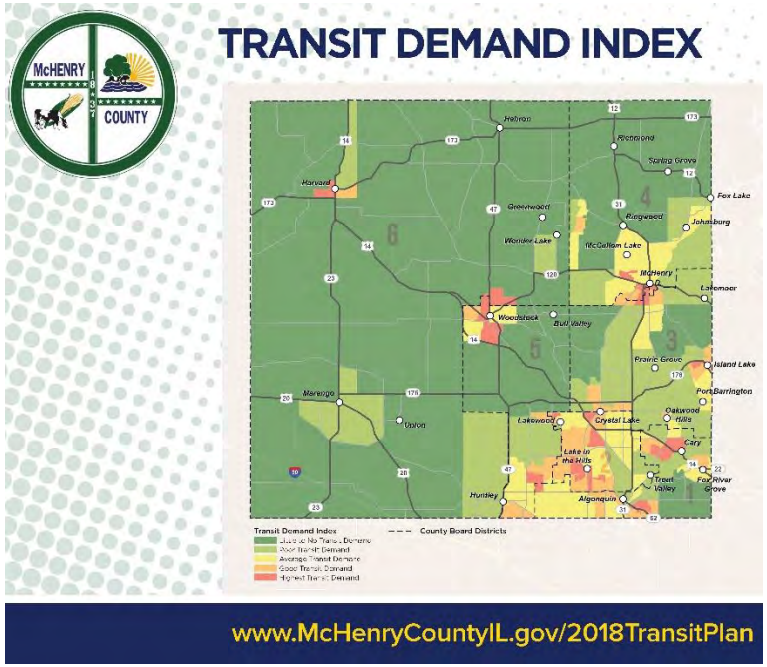
Volunteer Driver and Transit Enhancement Program

Title	Volunteer Driver and Transit Enhancement Program		
Scope of Work	Paratransit	*Municipality*	All Municipalities
Category	Expansion	*Board District*	All Board Districts
Lead Agency	McHenry County DOT	*Total Cost*	$625,000
Project ID	N/A	*Website*	N/A
Limits	McHenry County		
Description	This funding from the County RTA fund is to continue funding coordination and expansion of local transit services in the County. In 2019, $60,000 is programmed for the Senior Care Volunteer Network (SCVN), $5,000 is for the Veterans Affairs Commission (VAC), and $60,000 is to implement new service recommendations from the ongoing Transit Plan Update.		

Project	Phase	Fund Source	2018	2019	2020	2021	2022	2023	2024	Total
Senior Care Volunteer Net.	TRAN	RTA Sales Tax	$60,000	$60,000	$60,000	$60,000	$60,000	$60,000	$60,000	$300,000
VAC	TRAN	RTA Sales Tax	$5,000	$5,000	$5,000	$5,000	$5,000	$5,000	$5,000	$25,000
Transit Plan Recommendation	TRAN	RTA Sales Tax	$0	$60,000	$60,000	$60,000	$60,000	$60,000	$60,000	$300,000
		Total Transportation	$65,000	$125,000	$125,000	$125,000	$125,000	$125,000	$125,000	$625,000
		Total Programmed		**$125,000**	**$125,000**	**$125,000**	**$125,000**	**$125,000**		**$625,000**

Total County Cost: $625,000

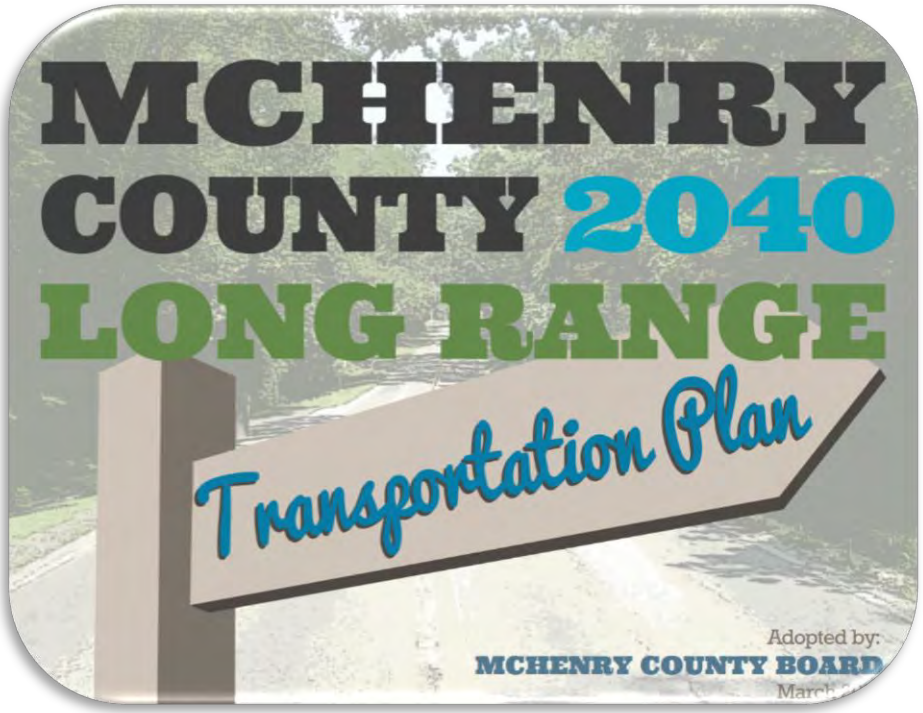
SENIOR CARE
Volunteer Network
Formerly Faith in Action



9. Miscellaneous Program

There are various programs, projects, and initiatives that support other programs of the McHenry County Division of Transportation. Between 2019 and 2023, approximately $15.4 million is programmed for these types of projects.

Miscellaneous Program Summary	2019-2023 Programmed Costs
Transportation Planning Projects	$650,000
Miller Road at IL31 Native Landscaping	$58,600
Nondedicated Subdivision Road Construction Program	$10,000,000
Nondedicated Subdivision Road Maintenance Program - Match	$910,000
Nondedicated Subdivision Road Maintenance Program - Township IGA	$375,000
RTA Sales Tax - Public Safety	$2,500,000
County Engineer Salary Program	$862,038
TOTALS	**$15,355,638**
Annual Average	**$3,071,128**



Transportation Planning Projects

Title	Transportation Planning Projects		
Scope of Work	Other	*Municipality*	All Municipalities
Category	Preservation	*Board District*	All Board Districts
Lead Agency	McHenry County DOT	*Total Cost*	$650,000
Project ID	N/A	*Website*	https://www.co.mchenry.il.us/county-government/departments-j-z/transportation/transportation-plans/long-range-transportation-plan
Limits	Transportation Planning encompasses the entire County.		
Description	In 2018, the County received $160,000 in Federal Unified Work Program (UWP) funds to update the County's Transit Plan, matched by $40,000 in County funds. In 2019, $100,000 is programmed to update the County's Transportation Programming software. In 2020, $100,000 is programmed, funded 80% by Federal STP, for an update to the County's Bicycle and Pedestrian Plan. The funding in 2021-2023 is for consultant services needed as part of the County's long-range transportation planning process. At this time, an update of the long-range transportation plan is programmed to occur every 7 years.		

Project	Phase	Fund Source	2018	2019	2020	2021	2022	2023	2024	Total
	PLAN	RTA Sales Tax	$40,000	$100,000	$20,000	$150,000	$150,000	$150,000	$100,000	$570,000
	PLAN	Federal UWP	$160,000							$0
	PLAN	Federal STP-L			$80,000					$80,000
	PLAN	RTA Planning Funds								$0
		Total Planning	$200,000	$100,000	$100,000	$150,000	$150,000	$150,000	$100,000	$650,000
		Total Programmed		**$100,000**	**$100,000**	**$150,000**	**$150,000**	**$150,000**		**$650,000**

Total County Cost: $570,000 Total Federal Share: $80,000

Charles Miller Road at Illinois 31 Native Landscaping

Title	Charles Miller Road at IL 31 Native Landscaping		
Scope of Work	Other	*Municipality*	City of McHenry
Category	Expansion	*Board District*	District 3
Lead Agency	McHenry County DOT	*Total Cost*	$58,600
Project ID	N/A	*Website*	N/A
Limits	Miller Road and IL 31 Intersection		
Description	Following the Charles Miller Road Project it was determined that native vegetation that was planted as part of the project did not fully "take". Because of this, a contract was approved in 2017 to replant vegetation at the location.		

Project	Phase	Fund Source	Prior FY	2019	2020	2021	2022	2023	Future FY	Total
Miller at IL 31 Landscaping	ENGR	County Option MFT	$128,348	$0	$0	$0	$0	$0	$0	$0
	CONST	County Option MFT	$58,700	$29,400	$24,200	$5,000	$0	$0	$0	$58,600
		Total Engineering		$29,400	$24,200	$5,000	$0	$0		$58,600
		Total Programmed		**$29,400**	**$24,200**	**$5,000**				**$58,600**

Total County Cost: $58,600

Nondedicated Subdivision Road Construction Program

Title	Nondedicated Subdivision Road Construction Program		
Scope of Work	NSR	*Municipality*	Unincorporated McHenry County
Category	Modernization	*Board District*	Various Board Districts
Lead Agency	McHenry County DOT	*Total Cost*	$10,000,000
Project ID	N/A	*Website*	https://www.co.mchenry.il.us/county-government/departments-j-z/transportation/resources/nondedicated-subdivision-roads
Limits	N/A		
Description	This funding is allocated each year for nondedicated subdivision roads to help bring them into a public jurisdiction. In 2015, $8,060,000 was allocated by the County Board for this program spread over five years.		

Segment	Phase	Fund Source	Prior FY	2019	2020	2021	2022	2023	Future FY	Total
	ENGR	County MFT		$300,000	$300,000	$300,000	$300,000	$300,000		$1,500,000
		Total Engineering		$300,000	$300,000	$300,000	$300,000	$300,000		$1,500,000
	CONST	County MFT	$762,624	$1,700,000	$1,700,000	$1,700,000	$1,700,000	$1,700,000		$8,500,000
		Total Construction	$762,624	$1,700,000	$1,700,000	$1,700,000	$1,700,000	$1,700,000		$8,500,000
		Total Programmed		**$2,000,000**	**$2,000,000**	**$2,000,000**	**$2,000,000**	**$2,000,000**		**$10,000,000**

Total County Cost: $10,000,000

Nondedicated Subdivision Road Maintenance Program – Matching Funds

Title	Nondedicated Subdivision Road Maintenance Program - Matching Funds		
Scope of Work	NSR	*Municipality*	Unincorporated McHenry County
Category	Preservation	*Board District*	Various Board Districts
Lead Agency	McHenry County DOT	*Total Cost*	$910,000
Project ID	N/A	*Website*	https://www.co.mchenry.il.us/county-government/departments-j-z/transportation/resources/nondedicated-subdivision-roads
Limits	N/A		
Description	This funding is to match private investments committed to maintain nondedicated subdivision roads in unincorporated areas of McHenry County. These efforts are coordinated with the Township Highway Commissioners. The County's contribution cannot exceed 50% of the Motor Fuel Tax funds received in the participating townships of Algonquin, Dorr, McHenry and Nunda, which for calendar year 2016 totaled $187,579.35.		

Segment	Phase	Fund Source	2018	2019	2020	2021	2022	2023	2024	Total
	CONST	County MFT	$181,620	$182,000	$182,000	$182,000	$182,000	$182,000	$182,000	$910,000
		Total Construction	$181,620	$182,000	$182,000	$182,000	$182,000	$182,000	$182,000	$910,000
		Total Programmed		**$182,000**	**$182,000**	**$182,000**	**$182,000**	**$182,000**		**$910,000**

Total County Cost: $910,000

Nondedicated Subdivision Road Maintenance Program – Township IGAs

Title	Nondedicated Subdivision Road Maintenance Program - IGA's with Townships		
Scope of Work	NSR	*Municipality*	Unincorporated McHenry County
Category	Preservation	*Board District*	Various Board Districts
Lead Agency	McHenry County DOT	*Total Cost*	$375,000
Project ID	N/A	*Website*	https://www.co.mchenry.il.us/county-government/departments-j-z/transportation/resources/nondedicated-subdivision-roads
Limits	N/A		
Description	This funding is to match private investments committed to maintain nondedicated subdivision roads in unincorporated areas of McHenry County. These efforts are coordinated with the Township Highway Commissioners.		

Segment	Phase	Fund Source	2018	2019	2020	2021	2022	2023	2024	Total
	CONST	County MFT	$82,936	$75,000	$75,000	$75,000	$75,000	$75,000	$75,000	$375,000
		Total Construction	$82,936	$75,000	$75,000	$75,000	$75,000	$75,000	$75,000	$375,000
		Total Programmed		**$75,000**	**$75,000**	**$75,000**	**$75,000**	**$75,000**		**$375,000**

Total County Cost: $375,000

RTA Sales Tax for Public Safety Purposes

Title	Use of RTA Sales Tax for Public Safety Purposes		
Scope of Work	Other	*Municipality*	N/A
Category	Modernization	*Board District*	All Board Districts
Lead Agency	McHenry County Administration Department	*Total Cost*	$2,500,000
Project ID	N/A	*Website*	N/A
Limits	N/A		

Description As authorized by the RTA Act, a portion of the County's Regional Transportation Authority (RTA) Sales Tax can be redirected away from transportation projects towards "public safety purposes". From 2008 to 2016, all proceeds from the RTA Sales Tax were used to improve the transportation system in McHenry County. Starting in 2016, a portion of the County's RTA Sales Tax was diverted to non-transportation "public safety" purposes such as jail security & door system upgrades ($2.3 million), in-car video camera systems for Sheriff's Department ($0.4 million), and two fire alarm systems for the County's government center and jail ($0.3 million). In 2019 and 2020 an additional diversion of $2.5 million will occur to replace radios for several County departments. Such diversions, when they occur, reduce funding available for transportation projects.

Phase	Fund Source	Prior FY	2019	2020	2021	2022	2023	2024	Total
CONST	RTA Sales Tax	$3,300,000	$1,250,000	$1,250,000	$0	$0	$0	$0	$2,500,000
	Total Engineering	$3,300,000	$1,250,000	$1,250,000	$0	$0	$0	$0	$2,500,000
	Total Programmed		**$1,250,000**	**$1,250,000**	**$0**	**$0**	**$0**		**$2,500,000**

Total County Cost: $2,500,000

County Engineer Salary Program

Title	County Engineer Salary Program		
Scope of Work	Other	*Municipality*	N/A
Category	Preservation	*Board District*	All Board Districts
Lead Agency	McHenry County DOT	*Total Cost*	$862,038
Project ID	N/A	*Website*	N/A
Limits	N/A		

Description This funding is for the County Engineer's position (half of this salary is funded by federal Surface Transportation Program funds allocated to the collar counties of the Chicago metropolitan area)

Phase	Fund Source	2018	2019	2020	2021	2022	2023	2024	Total
ENGR	County MFT	$79,030	$82,000	$84,050	$86,151	$88,305	$90,513	$92,775	$431,019
ENGR	Federal STP - C	$79,030	$82,000	$84,050	$86,151	$88,305	$90,513	$92,775	$431,019
	Total Engineering	$158,060	$164,000	$168,100	$172,303	$176,610	$181,025	$185,551	$862,038
	Total Programmed		**$164,000**	**$168,100**	**$172,303**	**$176,610**	**$181,025**		**$862,038**

Total County Cost: $431,019 Total Federal Share: $431,019

Appendix A: Metropolitan Planning Organization Transportation Improvement Program

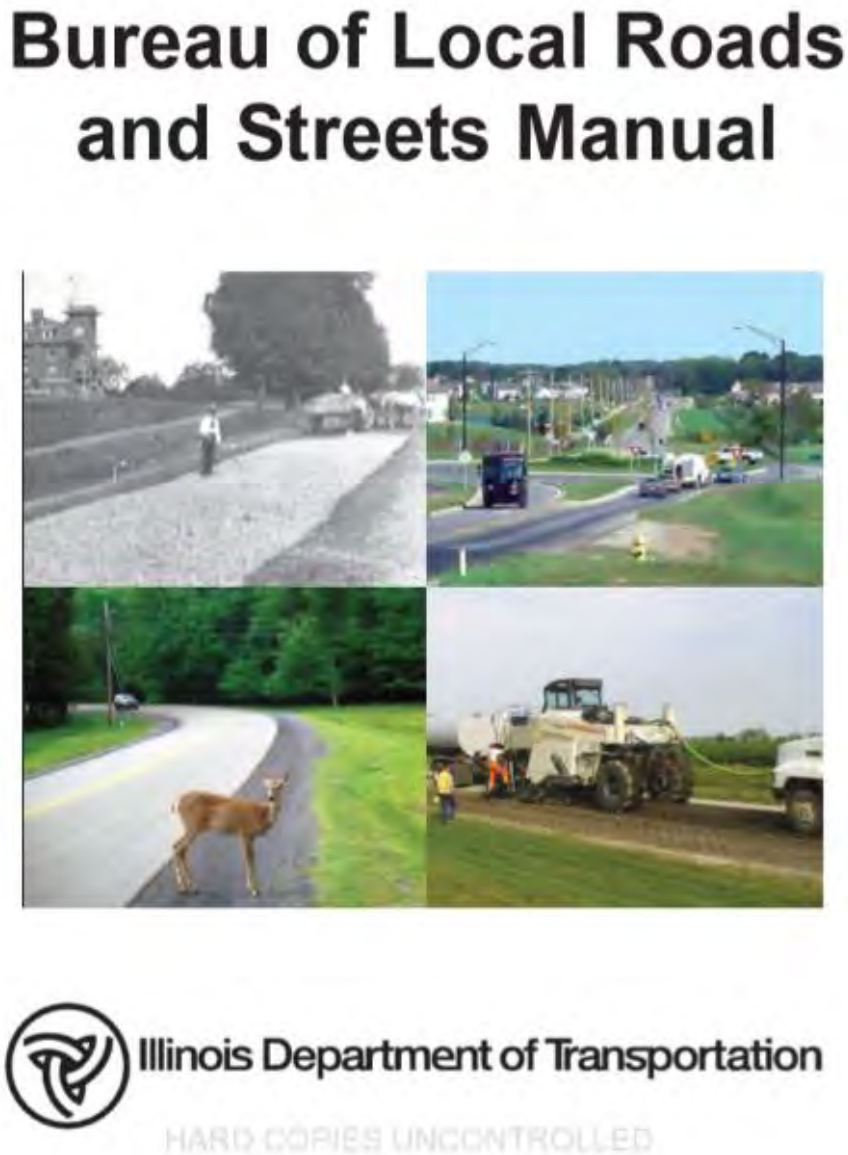
McHenry County is part of the Chicago Metropolitan Planning Organization (MPO). As part of this MPO all federal and state funded projects and projects of regional significance must be included in the MPO Transportation Improvement Program (TIP). The TIP is the official transportation plan for the MPO and is included in the State's Transportation Improvement Program. The 2018-2021 program can be viewed at www.idot.illinois.gov/transportation-system/transportation-management/transportation-improvement-programs-/stip/index. The TIP is used to track transportation projects and to inform the public of all the various agency projects in the region.

Throughout the planning, engineering, and construction process, project updates such as estimated costs, funding sources, project scope, and anticipated schedule are provided to the MPO. If administrative in nature, these changes are approved by the Transportation Committee of the MPO. If amendatory (major changes) in nature, these changes are approved by the Transportation Committee of the MPO, posted for 30 days of public review, and then approved by the Policy Committee of the MPO.

To develop the McHenry County Five Year Transportation Program, an annual review of the current TIP was undertaken and compared with the County program. Any needed changes have been made and approved by the Transportation Committee of the MPO.

The current MPO TIP can be viewed at https://etip.cmap.illinois.gov/

Appendix B: Roadway Standards



The design and construction of McHenry County Highway improvements is governed by the Illinois Department of Transportation's **"Bureau of Local Roads and Streets Manual"**.

This can be found on the Illinois Department of Transportation website at: www.idot.illinois.gov/Assets/uploads/files/Doing-Business/Manuals-Guides-&-Handbooks/Highways/Local-Roads-and-Streets/Local%20Roads%20and%20Streets%20Manual.pdf

Appendix C: Estimated Annual Expenditures by County Fund, Program, and Project

The following is a break-down of the anticipated County expenditures by funding source for each of the five program years. The projects are organized from the most expensive to the least expensive in total County Costs.

2019

Project	Phase	MFT	Matching	Bridge	Option	RTA	Total County Costs	Project Cost	State	Federal	Local/Other
Randall Road	CONST	$0	$0	$0	$5,000,000	$2,114,542	$7,114,542	$25,219,200	$0	$18,104,658	$0
General Pavement Preservation	CONST	$3,000,000	$0	$0	$0	$1,500,000	$4,500,000	$4,500,000	$0	$0	$0
Illinois Route 23 & I-90 Interchange	CONST	$0	$0	$0	$0	$2,000,000	$2,000,000	$24,667,888	$7,530,830	$0	$15,137,058
Randall Road	UTIL	$0	$2,000,000	$0	$0	$0	$2,000,000	$2,000,000	$0	$0	$0
Randall Road	ENGR3	$0	$0	$0	$0	$1,735,000	$1,735,000	$1,735,000	$0	$0	$0
Non Dedicated Subdivision Road Construction Program	CONST	$1,700,000	$0	$0	$0	$0	$1,700,000	$1,700,000	$0	$0	$0
RTA Sales Tax for Public Safety Purposes	CONST	$0	$0	$0	$0	$1,250,000	$1,250,000	$1,250,000	$0	$0	$0
Snow Removal Materials	MAINT	$0	$0	$0	$800,000	$0	$800,000	$800,000	$0	$0	$0
Illinois Route 23 & I-90 Interchange	ENGR3	$0	$0	$0	$668,750	$0	$668,750	$2,675,000	$668,750	$0	$1,337,500
River Road Culvert	CONST	$0	$0	$0	$600,000	$0	$600,000	$950,000	$350,000	$0	$0
MCRide Dial-a-Ride Service Pace Contract	TRAN	$0	$0	$0	$0	$1,200,000	$460,000	$2,310,000	$0	$490,000	$1,360,000
Pavement Marking Materials - Thermoplastic	MAINT	$416,160	$0	$0	$0	$0	$416,160	$416,160	$0	$0	$0
Traffic Signal/Lighting Maintenance	MAINT	$0	$0	$0	$364,140	$0	$364,140	$364,140	$0	$0	$0
Non Dedicated Subdivision Road Construction Program	ENGR	$300,000	$0	$0	$0	$0	$300,000	$300,000	$0	$0	$0
Pavement Marking Materials - Paint	MAINT	$0	$0	$0	$255,000	$0	$255,000	$255,000	$0	$0	$0
PROWAG Maintenance Program	MAINT	$200,000	$0	$0	$0	$0	$200,000	$200,000	$0	$0	$0
Non Dedicated Subdivision Road Maintenance Program - Matching	CONST	$182,000	$0	$0	$0	$0	$182,000	$182,000	$0	$0	$0
Miscellaneous Culverts	MAINT	$0	$0	$0	$171,666	$0	$171,666	$171,666	$0	$0	$0
Township Bridge Rehabilitation Assistance Program	CONST	$0	$0	$0	$162,000	$0	$162,000	$162,000	$0	$0	$0
Materials Testing	ENGR	$0	$0	$0	$0	$132,000	$132,000	$132,000	$0	$0	

Project	Phase	MFT	Matching	Bridge	Option	RTA	Total County Costs	Project Cost	State	Federal	Local/Other
Volunteer Driver and Transit Enhancement Program	TRAN	$0	$0	$0	$0	$125,000	$125,000	$125,000	$0	$0	$0
Bull Valley Road Bike Path	ENGR2	$0	$0	$0	$0	$120,000	$120,000	$150,000	$0	$0	$30,000
Transportation Planning Projects	ENGR	$0	$0	$0	$0	$100,000	$100,000	$100,000	$0	$0	$0
Virginia Road Complete Street Resurfacing	ENGR	$0	$0	$0	$100,000	$0	$100,000	$100,000	$0	$0	$0
Bridge Preventative Maintenance	MAINT	$0	$0	$0	$100,000	$0	$100,000	$100,000	$0	$0	$0
Guardrail Maintenance	MAINT	$0	$0	$0	$100,000	$0	$100,000	$100,000	$0	$0	$0
Sign Materials	MAINT	$0	$0	$0	$98,838	$0	$98,838	$98,838	$0	$0	$0
Highway Lighting Systems	MAINT	$0	$0	$0	$93,636	$0	$93,636	$93,636	$0	$0	$0
County Engineer Salary Program	ENGR	$164,000	$0	$0	$0	$0	$82,000	$164,000	$0	$82,000	$0
Non Dedicated Subdivision Road Maintenance Program - Township IGA	CONST	$75,000	$0	$0	$0	$0	$75,000	$75,000	$0	$0	$0
Finish Mowing Contract	MAINT	$0	$0	$0	$60,000	$0	$60,000	$60,000	$0	$0	$0
Street Sweeping Contract	MAINT	$0	$0	$0	$60,000	$0	$60,000	$60,000	$0	$0	$0
U.S. 14 & Virginia Road Intersection Project	CONST	$0	$0	$0	$0	$54,631	$54,631	$1,655,469	$221,833	$1,324,374	$54,631
Low-Cost Safety Improvement Program	CONST	$0	$0	$0	$0	$50,000	$50,000	$50,000	$0	$0	$0
Snow Fence	MAINT	$0	$0	$0	$50,000	$0	$50,000	$50,000	$0	$0	$0
Tree Planting Program	MAINT	$0	$0	$0	$50,000	$0	$50,000	$50,000	$0	$0	$0
Paulson Road Township Bridge (SN 056-3071)	ENGR1	$0	$0	$200,000	$0	$0	$40,000	$200,000	$0	$160,000	$0
West Solon Road Township Bridge	ENGR1	$0	$0	$200,000	$0	$0	$40,000	$200,000	$0	$160,000	$0
River Road Culvert	ENGR	$0	$0	$0	$35,000	$0	$35,000	$90,000	$55,000	$0	$0
Walkup Road HSIP	ENGR	$0	$0	$0	$300,000	$0	$30,000	$300,000	$0	$270,000	$0
Tree Trimming & Removal Program	MAINT	$0	$0	$0	$30,000	$0	$30,000	$30,000	$0	$0	$0
Allendale Road Bridge Replacement (SN056-3126)	ENGR1	$0	$0	$150,000	$0	$0	$30,000	$150,000	$0	$120,000	$0
Bunker Hill Road West Bridge (SN056-3107)	ENGR1	$0	$0	$150,000	$0	$0	$30,000	$150,000	$0	$120,000	$0
Miller Road at IL 31 Native Landscaping	CONST	$0	$0	$0	$29,400	$0	$29,400	$29,400	$0	$0	$0
River Road Culvert	CE	$0	$0	$0	$25,000	$0	$25,000	$60,000	$35,000	$0	$0
Culvert Materials	MAINT	$0	$0	$0	$25,000	$0	$25,000	$25,000	$0	$0	$0

Project	Phase	MFT	Matching	Bridge	Option	RTA	Total County Costs	Project Cost	State	Federal	Local/Other
Countywide Bike Share Program	TRAN	$0	$0	$0	$0	$10,000	$10,000	$110,000	$0	$0	$100,000
U.S. 14 & Virginia Road Intersection Project	ENGR3	$0	$0	$0	$0	$5,203	$5,203	$157,664	$21,127	$126,131	$5,203
IL 176 at Nish Road	ROW	$0	$0	$0	$0	$0	$0	$80,000	$80,000	$0	$0
US 20 at 1)West Union Rd and at Coral Rd2)At Creek (0.4 MI W of Beck Rd.) 3) At Marengo-Beck/South Union Rd.	CONST	$0	$0	$0	$0	$0	$0	$700,000	$160,000	$540,000	$0
TOTALS		$6,037,160	$2,000,000	$700,000	$9,178,430	$10,396,376	$26,659,966	$75,304,061	$9,122,540	$21,497,163	$18,024,392

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Project	Phase	MFT	Matching	Bridge	Option	RTA	Total County Costs	Project Cost	State	Federal	Local/Other
Randall Road	CONST	$0	$2,000,000	$0	$0	$4,130,515	$6,130,515	$14,619,688	$0	$8,489,173	$0
General Pavement Preservation	CONST	$3,200,000	$0	$0	$0	$0	$3,200,000	$3,200,000	$0	$0	$0
Illinois Route 23 & I-90 Interchange	CONST	$0	$0	$0	$0	$2,000,000	$2,000,000	$2,000,000	$0	$0	$0
Randall Road	ENGR3	$0	$0	$0	$0	$1,735,000	$1,735,000	$1,735,000	$0	$0	$0
Non Dedicated Subdivision Road Construction Program	CONST	$1,700,000	$0	$0	$0	$0	$1,700,000	$1,700,000	$0	$0	$0
RTA Sales Tax for Public Safety Purposes	CONST	$0	$0	$0	$0	$1,250,000	$1,250,000	$1,250,000	$0	$0	$0
Kishwaukee Valley Road Culvert (SN 056-3202)	CONST	$0	$0	$0	$1,000,000	$0	$1,000,000	$1,000,000	$0	$0	$0
Snow Removal Materials	MAINT	$0	$0	$0	$816,000	$0	$816,000	$816,000	$0	$0	$0
Main Street (Huntley) Extension	ENGR1	$0	$0	$0	$500,000	$0	$500,000	$500,000	$0	$0	$0
MCRide Dial-a-Ride Service Pace Contract	TRAN	$0	$0	$0	$0	$1,200,000	$450,000	$2,325,000	$0	$500,000	$1,375,000
Ackman Road Intersections (Huntley, Swanson and Red Tail)	ENGR1	$0	$0	$0	$0	$400,000	$400,000	$400,000	$0	$0	$0

Project	Phase	MFT	Matching	Bridge	Option	RTA	Total County Costs	Project Cost	State	Federal	Local/Other
Lakewood Road Corridor Complete Streets Project	ENGR2	$0	$0	$0	$0	$400,000	$400,000	$450,000	$0	$0	$50,000
Traffic Signal/Lighting Maintenance	MAINT	$0	$0	$0	$371,423	$0	$371,423	$371,423	$0	$0	$0
Non Dedicated Subdivision Road Construction Program	ENGR	$300,000	$0	$0	$0	$0	$300,000	$300,000	$0	$0	$0
Pavement Marking Materials - Paint	MAINT	$0	$0	$0	$260,100	$0	$260,100	$260,100	$0	$0	$0
Charles & Queen Anne Intersection Safety Project	ENGR1	$0	$0	$0	$0	$250,000	$250,000	$250,000	$0	$0	$0
Bridge Inspections	ENGR	$0	$0	$239,292	$0	$0	$239,292	$239,292	$0		$0
Pavement Marking Materials - Thermoplastic	MAINT	$0	$0	$0	$200,000	$0	$200,000	$200,000	$0	$0	$0
PROWAG Maintenance Program	MAINT	$0	$0	$0	$200,000	$0	$200,000	$200,000			
Non Dedicated Subdivision Road Maintenance Program - Matching	CONST	$182,000	$0	$0	$0	$0	$182,000	$182,000	$0	$0	$0
Miscellaneous Culverts	MAINT	$0	$0	$0	$175,099	$0	$175,099	$175,099	$0		$0
Township Bridge Rehabilitation Assistance Program	CONST	$0	$0	$0	$162,000	$0	$162,000	$162,000	$0		$0
Airport/McGuire Road Shared Use Path	ENGR1	$0	$0	$0	$0	$150,000	$150,000	$187,500	$0	$0	$37,500
Materials Testing	ENGR	$0	$0	$0	$0	$132,000	$132,000	$132,000	$0	$0	
Condition Evaluation/GIS Pavement Management Updates	ENGR	$0	$0	$0	$0	$130,000	$130,000	$130,000	$0	$0	$0
Volunteer Driver and Transit Enhancement Program	TRAN	$0	$0	$0	$0	$125,000	$125,000	$125,000	$0	$0	$0
County Wide Traffic Counts	ENGR	$0	$0	$0	$105,000	$0	$105,000	$105,000	$0	$0	$0
Bridge Preventative Maintenance	MAINT	$0	$0	$0	$102,000	$0	$102,000	$102,000	$0		$0
Sign Materials	MAINT	$0	$0	$0	$100,815	$0	$100,815	$100,815	$0	$0	$0
Guardrail Maintenance	MAINT	$0	$0	$0	$100,000	$0	$100,000	$100,000	$0		$0
Hunter Road Bridge (SN 056-3034)	ROW	$0	$0	$100,000	$0	$0	$100,000	$100,000	$0	$0	$0
Millstream Road Bridges (SN 056-3022) (SN 056-3023)	ROW	$0	$0	$100,000	$0	$0	$100,000	$100,000	$0	$0	$0
Thayer Road Township Bridge (SN056-3115)	ROW	$0	$0	$100,000	$0	$0	$100,000	$100,000	$0	$0	$0
White Oaks Road Township Bridge (SN056-3043)	ROW	$0	$0	$100,000	$0	$0	$100,000	$100,000	$0	$0	$0
Highway Lighting Systems	MAINT	$0	$0	$0	$95,509	$0	$95,509	$95,509	$0	$0	$0
County Engineer Salary Program	ENGR	$168,100	$0	$0	$0	$0	$84,050	$168,100	$0	$84,050	$0

Project	Phase	MFT	Matching	Bridge	Option	RTA	Total County Costs	Project Cost	State	Federal	Local/Other
U.S. 14 and Kishwaukee Valley Road Pedestrian Crossing	ENGR1	$0	$0	$0	$80,000	$0	$80,000	$100,000	$0	$0	$20,000
Algonquin Rd & Wilmot/Main HSIP Project	CONST	$0	$0	$0	$0	$798,900	$79,890	$798,900	$0	$719,010	$0
Non Dedicated Subdivision Road Maintenance Program - Township IGA	CONST	$75,000	$0	$0	$0	$0	$75,000	$75,000	$0	$0	$0
Walkup Road HSIP	CONST	$0	$682,400	$0	$0	$0	$68,240	$682,400	$0	$614,160	$0
Bull Valley Road Bike Path	ROW	$0	$0	$0	$0	$60,000	$60,000	$75,000	$0	$0	$15,000
Finish Mowing Contract	MAINT	$0	$0	$0	$60,000	$0	$60,000	$60,000	$0	$0	$0
Street Sweeping Contract	MAINT	$0	$0	$0	$60,000	$0	$60,000	$60,000	$0	$0	$0
Tree Planting Program	MAINT	$0	$0	$0	$51,000	$0	$51,000	$51,000	$0	$0	$0
Low-Cost Safety Improvement Program	CONST	$0	$0	$0	$0	$50,000	$50,000	$50,000	$0	$0	$0
Snow Fence	MAINT	$0	$0	$0	$50,000	$0	$50,000	$50,000	$0	$0	$0
Johnson Road Bridge (SN056-3128)	ROW	$0	$0	$50,000	$0	$0	$50,000	$50,000	$0	$0	$0
Millstream Road Bridges (SN 056-3022) (SN 056-3023)	ENGR2	$0	$200,000	$0	$0	$0	$40,000	$200,000	$0	$160,000	$0
Harmony Road Bridge (SN 056-3138)	ENGR 1	$0	$0	$200,000	$0	$0	$40,000	$200,000	$0	$160,000	$0
Tree Trimming & Removal Program	MAINT	$0	$0	$0	$30,000	$0	$30,000	$30,000	$0	$0	$0
Hunter Road Bridge (SN 056-3034)	ENGR2	$0	$0	$150,000	$0	$0	$30,000	$150,000	$0	$120,000	$0
Johnson Road Bridge (SN056-3128)	ENGR2	$0	$0	$150,000	$0	$0	$30,000	$150,000	$0	$120,000	$0
Thayer Road Township Bridge (SN056-3115)	ENGR2	$0	$0	$150,000	$0	$0	$30,000	$150,000	$0	$120,000	$0
White Oaks Road Township Bridge (SN056-3043)	ENGR2	$0	$0	$150,000	$0	$0	$30,000	$150,000	$0	$120,000	$0
Culvert Materials	MAINT	$0	$0	$0	$25,500	$0	$25,500	$25,500	$0	$0	$0
Miller Road at IL 31 Native Landscaping	CONST	$0	$0	$0	$24,200	$0	$24,200	$24,200	$0	$0	$0
Transportation Planning Projects	ENGR	$0	$0	$0	$0	$20,000	$20,000	$100,000	$0	$80,000	$0
US 20 at 1)West Union Rd and at Coral Rd2)At Creek (0.4 MI W of Beck Rd.) 3) At Marengo-Beck/South Union Rd.	CONST	$0	$0	$0	$11,000	$0	$11,000	$2,000,000	$199,000	$1,790,000	$0
Countywide Bike Share Program	TRAN	$0	$0	$0	$0	$10,000	$10,000	$110,000	$0	$0	$100,000
TOTALS		$5,625,100	$2,882,400	$1,489,292	$4,579,646	$12,841,415	$24,450,633	$39,323,526	$199,000	$13,076,393	$1,597,500

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Project	Phase	MFT	Matching	Bridge	Option	RTA	Total County Costs	Project Cost	State	Federal	Local/Other
General Pavement Preservation	CONST	$3,700,000	$0	$0	$0	$1,400,000	**$5,100,000**	**$5,100,000**	**$0**	**$0**	**$0**
Randall Road Resurfacing - Northern Segment	CONST	$0	$0	$0	$0	$2,500,000	**$2,500,000**	**$2,500,000**	**$0**	**$0**	**$0**
Illinois Route 23 & I-90 Interchange	CONST	$0	$0	$0	$0	$2,000,000	**$2,000,000**	**$2,000,000**	**$0**	**$0**	**$0**
Non Dedicated Subdivision Road Construction Program	CONST	$1,700,000	$0	$0	$0	$0	**$1,700,000**	**$1,700,000**	**$0**	**$0**	**$0**
Virginia Road Complete Street Resurfacing	CONST	$0	$0	$0	$0	$1,000,000	**$1,000,000**	**$1,000,000**	**$0**	**$0**	**$0**
Bull Valley Road Bike Path	CONST	$0	$0	$0	$0	$960,000	**$960,000**	**$1,200,000**	**$0**	**$0**	**$240,000**
Randall Road	ENGR3	$0	$0	$0	$0	$935,201	**$935,201**	**$935,201**	**$0**	**$0**	**$0**
Snow Removal Materials	MAINT	$0	$0	$0	$832,320	$0	**$832,320**	**$832,320**	**$0**	**$0**	**$0**
Cary Road at Main Street (Algonquin) Roundabout	CONST	$0	$0	$0	$0	$500,000	**$500,000**	**$2,000,000**	**$0**	**$0**	**$1,500,000**
Remote Salt Storage and Maintenance Facility	ENGR	$0	$0	$0	$500,000	$0	**$500,000**	**$500,000**	**$0**	**$0**	**$0**
River Road Corridor Safety Project	Feasibility	$0	$0	$0	$500,000	$0	**$500,000**	**$500,000**	**$0**	**$0**	**$0**
MCRide Dial-a-Ride Service Pace Contract	TRAN	$0	$0	$0	$0	$1,200,000	**$430,000**	**$2,340,000**	**$0**	**$510,000**	**$1,400,000**
Millstream Road Bridges (SN 056-3022) (SN 056-3023)	CONST	$0	$400,000	$0	$0	$0	**$400,000**	**$2,000,000**	**$0**	**$1,600,000**	**$0**
Traffic Signal/Lighting Maintenance	MAINT	$0	$0	$0	$378,851	$0	**$378,851**	**$378,851**	**$0**	**$0**	**$0**
Pyott Road Corridor Safety Project	Feasibility	$0	$0	$0	$0	$300,000	**$300,000**	**$300,000**	**$0**	**$0**	**$0**
Johnson Road Bridge (SN056-3128)	CONST	$0	$300,000	$0	$0	$0	**$300,000**	**$1,500,000**	**$0**	**$1,200,000**	**$0**
Non Dedicated Subdivision Road Construction Program	ENGR	$300,000	$0	$0	$0	$0	**$300,000**	**$300,000**	**$0**	**$0**	**$0**
Pavement Marking Materials - Paint	MAINT	$0	$0	$0	$265,302	$0	**$265,302**	**$265,302**	**$0**	**$0**	**$0**
Lakewood Road Corridor Complete Streets Project	ROW	$0	$0	$0	$0	$200,000	**$200,000**	**$250,000**	**$0**	**$0**	**$50,000**
Pavement Marking Materials - Thermoplastic	MAINT	$0	$0	$0	$200,000	$0	**$200,000**	**$200,000**	**$0**	**$0**	**$0**
PROWAG Maintenance Program	MAINT	$0	$0	$0	$200,000	$0	**$200,000**	**$200,000**			
Non Dedicated Subdivision Road Maintenance Program - Matching	CONST	$182,000	$0	$0	$0	$0	**$182,000**	**$182,000**	**$0**	**$0**	**$0**

Project	Phase	MFT	Matching	Bridge	Option	RTA	Total County Costs	Project Cost	State	Federal	Local/Other
Miscellaneous Culverts	MAINT	$0	$0	$0	$178,601	$0	$178,601	$178,601	$0		$0
Township Bridge Rehabilitation Assistance Program	CONST	$0	$0	$0	$162,000	$0	$162,000	$162,000	$0		$0
Transportation Planning Projects	ENGR	$0	$0	$0	$0	$150,000	$150,000	$150,000	$0	$0	$0
Materials Testing	ENGR	$0	$0	$0	$0	$132,000	$132,000	$132,000	$0	$0	
Volunteer Driver and Transit Enhancement Program	TRAN	$0	$0	$0	$0	$125,000	$125,000	$125,000	$0	$0	$0
Cary-Algonquin Shared-Use Path	ENGR1	$0	$120,000	$0	$0	$0	$120,000	$150,000	$0	$0	$30,000
Airport/McGuire Road Shared Use Path	ENGR2	$0	$0	$0	$0	$120,000	$120,000	$150,000	$0	$0	$30,000
Bridge Preventative Maintenance	MAINT	$0	$0	$0	$104,040	$0	$104,040	$104,040	$0	$0	$0
Sign Materials	MAINT	$0	$0	$0	$102,831	$0	$102,831	$102,831	$0	$0	$0
County Wide Signal Timing Review	ENGR	$0	$0	$0	$100,000	$0	$100,000	$100,000	$0	$0	$0
Guardrail Maintenance	MAINT	$0	$0	$0	$100,000	$0	$100,000	$100,000	$0		$0
Allendale Road Bridge Replacement (SN056-3126)	ROW	$0	$0	$100,000	$0	$0	$100,000	$100,000	$0	$0	$0
Bunker Hill Road West Bridge (SN056-3107)	ROW	$0	$0	$100,000	$0	$0	$100,000	$100,000	$0	$0	$0
Paulson Road Township Bridge (SN 056-3071)	ROW	$0	$0	$100,000	$0	$0	$100,000	$100,000	$0	$0	$0
West Solon Road Township Bridge	ROW	$0	$0	$100,000	$0	$0	$100,000	$100,000	$0	$0	$0
Highway Lighting Systems	MAINT	$0	$0	$0	$97,419	$0	$97,419	$97,419	$0	$0	$0
Bull Valley Road Bike Path	ENGR3	$0	$0	$0	$0	$96,000	$96,000	$120,000	$0	$0	$24,000
County Engineer Salary Program	ENGR	$172,303	$0	$0	$0	$0	$86,152	$172,303	$0	$86,152	$0
Rakow Road Bike Path	ENGR1	$0	$0	$0	$0	$80,000	$80,000	$100,000	$0	$0	$20,000
U.S. 14 and Kishwaukee Valley Road Pedestrian Crossing	ENGR2	$0	$0	$0	$80,000	$0	$80,000	$100,000	$0	$0	$20,000
Non Dedicated Subdivision Road Maintenance Program - Township IGA	CONST	$75,000	$0	$0	$0	$0	$75,000	$75,000	$0	$0	$0
Finish Mowing Contract	MAINT	$0	$0	$0	$60,000	$0	$60,000	$60,000	$0	$0	$0
Street Sweeping Contract	MAINT	$0	$0	$0	$60,000	$0	$60,000	$60,000	$0	$0	$0
Tree Planting Program	MAINT	$0	$0	$0	$52,020	$0	$52,020	$52,020	$0	$0	$0
Low-Cost Safety Improvement Program	CONST	$0	$0	$0	$0	$50,000	$50,000	$50,000	$0	$0	$0

Project	Phase	MFT	Matching	Bridge	Option	RTA	Total County Costs	Project Cost	State	Federal	Local/Other
Snow Fence	MAINT	$0	$0	$0	$50,000	$0	$50,000	$50,000	$0	$0	$0
U.S. 14 and Kishwaukee Valley Road Pedestrian Crossing	ROW	$0	$0	$0	$40,000	$0	$40,000	$50,000	$0	$0	$10,000
Flat Iron Road Bridge (SN056-3019)	ENGR1	$0	$200,000	$0	$0	$0	$40,000	$200,000	$0	$160,000	$0
Oak Grove Road Railroad Crossing Safety Project	CONST	$0	$0	$0	$0	$30,000	$30,000	$300,000	$255,000	$0	$15,000
Tree Trimming & Removal Program	MAINT	$0	$0	$0	$30,000	$0	$30,000	$30,000	$0	$0	$0
Allendale Road Bridge Replacement (SN056-3126)	ENGR2	$0	$150,000	$0	$0	$0	$30,000	$150,000	$0	$120,000	$0
Bunker Hill Road East Bridge (SN056-3070)	ENGR1	$0	$150,000	$0	$0	$0	$30,000	$150,000	$0	$120,000	$0
Bunker Hill Road West Bridge (SN056-3107)	ENGR2	$0	$150,000	$0	$0	$0	$30,000	$150,000	$0	$120,000	$0
Paulson Road Township Bridge (SN 056-3071)	ENGR2	$0	$0	$150,000	$0	$0	$30,000	$150,000	$0	$120,000	$0
West Solon Road Township Bridge	ENGR2	$0	$0	$150,000	$0	$0	$30,000	$150,000	$0	$120,000	$0
Culvert Materials	MAINT	$0	$0	$0	$26,010	$0	$26,010	$26,010	$0	$0	$0
IL 176 at Nish Road	CONST	$0	$0	$0	$0	$20,000	$20,000	$1,500,000	$292,000	$1,168,000	$20,000
Countywide Bike Share Program	TRAN	$0	$0	$0	$0	$10,000	$10,000	$110,000	$0	$0	$100,000
Miller Road at IL 31 Native Landscaping	CONST	$0	$0	$0	$5,000	$0	$5,000	$5,000	$0	$0	$0
TOTALS		$6,129,303	$1,470,000	$700,000	$4,124,394	$11,808,201	$22,615,747	$31,945,898	$547,000	$5,324,152	$3,459,000

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Project	Phase	MFT	Matching	Bridge	Option	RTA	Total County Costs	Project Cost	State	Federal	Local/Other
General Pavement Preservation	CONST	$3,700,000	$0	$0	$0	$1,300,000	$5,000,000	$5,000,000	$0	$0	$0
Metra Service Enhancements	TRAN	$0	$0	$0	$0	$4,000,000	$4,000,000	$4,000,000	$0	$0	$0
Non Dedicated Subdivision Road Construction Program	CONST	$1,700,000	$0	$0	$0	$0	$1,700,000	$1,700,000	$0	$0	$0
Snow Removal Materials	MAINT	$0	$0	$0	$848,966	$0	$848,966	$848,966	$0	$0	$0
Lakewood Road Corridor Complete Streets Project	CONST	$0	$0	$0	$800,000	$0	$800,000	$1,000,000	$0	$0	$200,000
Ackman Road Intersections (Huntley, Swanson and Red Tail)	ROW	$0	$0	$0	$500,000	$0	$500,000	$500,000	$0	$0	$0
U.S. 14 and Kishwaukee Valley Road Pedestrian Crossing	CONST	$0	$0	$0	$480,000	$0	$480,000	$600,000	$0	$0	$120,000
MCRide Dial-a-Ride Service Pace Contract	TRAN	$0	$0	$0	$0	$1,200,000	$420,000	$2,355,000	$0	$520,000	$1,415,000
Ackman Road Intersections (Huntley, Swanson and Red Tail)	ENGR2	$0	$0	$0	$0	$400,000	$400,000	$400,000	$0	$0	$0
Hunter Road Bridge (SN 056-3034)	CONST	$0	$400,000	$0	$0	$0	$400,000	$2,000,000	$0	$1,600,000	$0
Traffic Signal/Lighting Maintenance	MAINT	$0	$0	$0	$386,428	$0	$386,428	$386,428	$0	$0	$0
N. McHenry Fox River Crossing	ENGR1	$0	$0	$0	$0	$350,000	$350,000	$700,000	$0	$0	$350,000
Charles & Queen Anne Intersection Safety Project	ENGR2	$0	$0	$0	$0	$300,000	$300,000	$300,000	$0	$0	$0
Charles & Queen Anne Intersection Safety Project	ROW	$0	$0	$0	$0	$300,000	$300,000	$300,000	$0	$0	$0
Non Dedicated Subdivision Road Construction Program	ENGR	$300,000	$0	$0	$0	$0	$300,000	$300,000	$0	$0	$0
Pavement Marking Materials - Paint	MAINT	$0	$0	$0	$270,608	$0	$270,608	$270,608	$0	$0	$0
Bridge Inspections	ENGR	$0	$0	$248,959	$0	$0	$248,959	$248,959	$0	$0	$0
Pavement Marking Materials - Thermoplastic	MAINT	$0	$0	$0	$200,000	$0	$200,000	$200,000	$0	$0	$0
PROWAG Maintenance Program	MAINT	$0	$0	$0	$200,000	$0	$200,000	$200,000			
White Oaks Road Township Bridge (SN056-3043)	CONST	$0	$200,000	$0	$0	$0	$200,000	$1,000,000	$0	$800,000	$0
Miscellaneous Culverts	MAINT	$0	$0	$0	$182,173	$0	$182,173	$182,173	$0	$0	$0
Non Dedicated Subdivision Road Maintenance Program - Matching	CONST	$182,000	$0	$0	$0	$0	$182,000	$182,000	$0	$0	$0

Project	Phase	MFT	Matching	Bridge	Option	RTA	Total County Costs	Project Cost	State	Federal	Local/Other
Township Bridge Rehabilitation Assistance Program	CONST	$0	$0	$0	$162,000	$0	$162,000	$162,000	$0		$0
Transportation Planning Projects	ENGR	$0	$0	$0	$0	$150,000	$150,000	$150,000	$0	$0	$0
Cary-Algonquin Shared-Use Path	ENGR2	$0	$0	$0	$0	$150,000	$150,000	$150,000	$0	$0	$0
Condition Evaluation/GIS Pavement Management Updates	ENGR	$0	$0	$0	$0	$135,000	$135,000	$135,000	$0	$0	$0
Materials Testing	ENGR	$0	$0	$0	$0	$132,000	$132,000	$132,000	$0	$0	
Volunteer Driver and Transit Enhancement Program	TRAN	$0	$0	$0	$0	$125,000	$125,000	$125,000	$0	$0	$0
County Wide Traffic Counts	ENGR	$0	$0	$0	$110,000	$0	$110,000	$110,000	$0	$0	$0
Bridge Preventative Maintenance	MAINT	$0	$0	$0	$106,121	$0	$106,121	$106,121	$0	$0	$0
Sign Materials	MAINT	$0	$0	$0	$104,888	$0	$104,888	$104,888	$0	$0	$0
Guardrail Maintenance	MAINT	$0	$0	$0	$100,000	$0	$100,000	$100,000	$0		$0
Harmony Road Bridge (SN 056-3138)	ROW	$0	$0	$100,000	$0	$0	$100,000	$100,000	$0	$0	$0
Highway Lighting Systems	MAINT	$0	$0	$0	$99,367	$0	$99,367	$99,367	$0	$0	$0
County Engineer Salary Program	ENGR	$176,610	$0	$0	$0	$0	$88,305	$176,610	$0	$88,305	$0
Lakewood Road Corridor Complete Streets Project	CE	$0	$0	$0	$0	$80,000	$80,000	$100,000	$0	$0	$20,000
Rakow Road Bike Path	ENGR2	$0	$0	$0	$0	$80,000	$80,000	$100,000	$0	$0	$20,000
Non Dedicated Subdivision Road Maintenance Program - Township IGA	CONST	$75,000	$0	$0	$0	$0	$75,000	$75,000	$0	$0	$0
Finish Mowing Contract	MAINT	$0	$0	$0	$60,000	$0	$60,000	$60,000	$0	$0	$0
Street Sweeping Contract	MAINT	$0	$0	$0	$60,000	$0	$60,000	$60,000	$0	$0	$0
Thayer Road Township Bridge (SN056-3115)	CONST	$0	$60,000	$0	$0	$0	$60,000	$1,500,000	$240,000	$1,200,000	$0
Tree Planting Program	MAINT	$0	$0	$0	$53,060	$0	$53,060	$53,060	$0	$0	$0
Low-Cost Safety Improvement Program	CONST	$0	$0	$0	$0	$50,000	$50,000	$50,000	$0	$0	$0
Snow Fence	MAINT	$0	$0	$0	$50,000	$0	$50,000	$50,000	$0	$0	$0
U.S. 14 and Kishwaukee Valley Road Pedestrian Crossing	CE	$0	$0	$0	$48,000	$0	$48,000	$60,000	$0	$0	$12,000
Airport/McGuire Road Shared Use Path	ROW	$0	$0	$0	$0	$40,000	$40,000	$50,000	$0	$0	$10,000
Tree Trimming & Removal Program	MAINT	$0	$0	$0	$30,000	$0	$30,000	$30,000	$0	$0	$0
Harmony Road Bridge (SN 056-3138)	ENGR 2	$0	$150,000	$0	$0	$0	$30,000	$150,000	$0	$120,000	$0

Project	Phase	MFT	Matching	Bridge	Option	RTA	Total County Costs	Project Cost	State	Federal	Local/Other
Culvert Materials	MAINT	$0	$0	$0	$26,530	$0	$26,530	$26,530	$0	$0	$0
Countywide Bike Share Program	TRAN	$0	$0	$0	$0	$10,000	$10,000	$110,000	$0	$0	$100,000
TOTALS		$6,133,610	$810,000	$348,959	$4,878,141	$8,802,000	$19,984,405	$26,799,710	$240,000	$4,328,305	$2,247,000

2023

Project	Phase	MFT	Matching	Bridge	Option	RTA	Total County Costs	Project Cost	State	Federal	Local/Other
General Pavement Preservation	CONST	$3,700,000	$0	$0	$0	$1,300,000	$5,000,000	$5,000,000	$0	$0	$0
Metra Service Enhancements	TRAN	$0	$0	$0	$0	$4,000,000	$4,000,000	$4,000,000	$0	$0	$0
Algonquin Road Resurfacing - East of Randall	CONST	$0	$0	$0	$1,200,000	$1,300,000	$2,500,000	$2,500,000	$0	$0	$0
River Road Corridor Safety Project	ENGR1	$0	$0	$0	$0	$2,000,000	$2,000,000	$2,000,000	$0	$0	$0
Lakewood Road Corridor Complete Streets Project	CONST	$0	$0	$0	$0	$1,700,000	$1,700,000	$1,700,000	$0	$0	$0
Non Dedicated Subdivision Road Construction Program	CONST	$1,700,000	$0	$0	$0	$0	$1,700,000	$1,700,000	$0	$0	$0
Airport/McGuire Road Shared Use Path	CONST	$0	$0	$0	$0	$960,000	$960,000	$1,200,000	$0	$0	$240,000

Project	Phase	MFT	Matching	Bridge	Option	RTA	Total County Costs	Project Cost	State	Federal	Local/Other
Snow Removal Materials	MAINT	$0	$0	$0	$865,946	$0	$865,946	$865,946	$0	$0	$0
Main Street (Huntley) Extension	ENGR2	$0	$0	$0	$500,000	$0	$500,000	$500,000	$0	$0	$0
Main Street (Huntley) Extension	ROW	$0	$0	$0	$500,000	$0	$500,000	$500,000	$0	$0	$0
MCRide Dial-a-Ride Service Pace Contract	TRAN	$0	$0	$0	$0	$1,200,000	$400,000	$2,370,000	$0	$530,000	$1,440,000
West Solon Road Township Bridge	CONST	$0	$400,000	$0	$0	$0	$400,000	$1,600,000	$0	$1,200,000	$0
Traffic Signal/Lighting Maintenance	MAINT	$0	$0	$0	$394,157	$0	$394,157	$394,157	$0	$0	$0
Pyott Road Corridor Safety Project	ENGR1	$0	$0	$0	$0	$300,000	$300,000	$300,000	$0	$0	$0
Tryon Grove Road Corridor Safety Project	Feasibility	$0	$0	$0	$0	$300,000	$300,000	$300,000	$0	$0	$0
Paulson Road Township Bridge (SN 056-3071)	CONST	$0	$300,000	$0	$0	$0	$300,000	$1,500,000	$0	$1,200,000	$0
Non Dedicated Subdivision Road Construction Program	ENGR	$300,000	$0	$0	$0	$0	$300,000	$300,000	$0	$0	$0
Pavement Marking Materials - Paint	MAINT	$0	$0	$0	$276,020	$0	$276,020	$276,020	$0	$0	$0
Pavement Marking Materials - Thermoplastic	MAINT	$0	$0	$0	$200,000	$0	$200,000	$200,000	$0	$0	$0
PROWAG Maintenance Program	MAINT	$0	$0	$0	$200,000	$0	$200,000	$200,000	$0	$0	$0
Bunker Hill Road West Bridge (SN056-3107)	CONST	$0	$200,000	$0	$0	$0	$200,000	$1,000,000	$0	$800,000	$0
McGuire Road Bridge (SN 056-3008)	ENGR	$0	$0	$200,000	$0	$0	$200,000	$200,000	$0	$0	$0
Miscellaneous Culverts	MAINT	$0	$0	$0	$185,817	$0	$185,817	$185,817	$0	$0	$0
Non Dedicated Subdivision Road Maintenance Program - Matching	CONST	$182,000	$0	$0	$0	$0	$182,000	$182,000	$0	$0	$0
Lakewood Road Corridor Complete Streets Project	CE	$0	$0	$0	$0	$170,000	$170,000	$170,000	$0	$0	$0
Township Bridge Rehabilitation Assistance Program	CONST	$0	$0	$0	$162,000	$0	$162,000	$162,000	$0	$0	$0
Randall Road Bicycle and Pedestrian Accommodations	ENGR1	$0	$0	$0	$0	$150,000	$150,000	$187,500	$0	$0	$37,500
Transportation Planning Projects	ENGR	$0	$0	$0	$0	$150,000	$150,000	$150,000	$0	$0	$0
Materials Testing	ENGR	$0	$0	$0	$0	$132,000	$132,000	$132,000	$0	$0	$0
Volunteer Driver and Transit Enhancement Program	TRAN	$0	$0	$0	$0	$125,000	$125,000	$125,000	$0	$0	$0
Bridge Preventative Maintenance	MAINT	$0	$0	$0	$108,243	$0	$108,243	$108,243	$0	$0	$0
Sign Materials	MAINT	$0	$0	$0	$106,985	$0	$106,985	$106,985	$0	$0	$0
Highway Lighting Systems	MAINT	$0	$0	$0	$101,355	$0	$101,355	$101,355	$0	$0	$0

Project	Phase	MFT	Matching	Bridge	Option	RTA	Total County Costs	Project Cost	State	Federal	Local/Other
Guardrail Maintenance	MAINT	$0	$0	$0	$100,000	$0	$100,000	$100,000	$0	$0	$0
Bunker Hill Road East Bridge (SN056-3070)	ROW	$0	$0	$100,000	$0	$0	$100,000	$100,000	$0	$0	$0
McGuire Road Culvert (SN 056-3049)	ENGR	$0	$0	$100,000	$0	$0	$100,000	$100,000	$0	$0	$0
Airport/McGuire Road Shared Use Path	CE	$0	$0	$0	$0	$96,000	$96,000	$120,000	$0	$0	$24,000
County Engineer Salary Program	ENGR	$181,025	$0	$0	$0	$0	$90,513	$181,025	$0	$90,513	$0
Allendale Road Bridge Replacement (SN056-3126)	CONST	$0	$400,000	$0	$0	$0	$80,000	$2,000,000	$320,000	$1,600,000	$0
Non Dedicated Subdivision Road Maintenance Program - Township IGA	CONST	$75,000	$0	$0	$0	$0	$75,000	$75,000	$0	$0	$0
Finish Mowing Contract	MAINT	$0	$0	$0	$60,000	$0	$60,000	$60,000	$0	$0	$0
Street Sweeping Contract	MAINT	$0	$0	$0	$60,000	$0	$60,000	$60,000	$0	$0	$0
Tree Planting Program	MAINT	$0	$0	$0	$54,122	$0	$54,122	$54,122	$0	$0	$0
Low-Cost Safety Improvement Program	CONST	$0	$0	$0	$0	$50,000	$50,000	$50,000	$0	$0	$0
Cary-Algonquin Shared-Use Path	ROW	$0	$0	$0	$0	$50,000	$50,000	$50,000	$0	$0	$0
Snow Fence	MAINT	$0	$0	$0	$50,000	$0	$50,000	$50,000	$0	$0	$0
Flat Iron Road Bridge (SN056-3019)	ROW	$0	$0	$50,000	$0	$0	$50,000	$50,000	$0	$0	$0
Tree Trimming & Removal Program	MAINT	$0	$0	$0	$30,000	$0	$30,000	$30,000	$0	$0	$0
Bunker Hill Road East Bridge (SN056-3070)	ENGR2	$0	$150,000	$0	$0	$0	$30,000	$150,000	$0	$120,000	$0
Flat Iron Road Bridge (SN056-3019)	ENGR2	$0	$150,000	$0	$0	$0	$30,000	$150,000	$0	$120,000	$0
Culvert Materials	MAINT	$0	$0	$0	$27,061	$0	$27,061	$27,061	$0	$0	$0
Countywide Bike Share Program	TRAN	$0	$0	$0	$0	$0	$0	$110,000	$0	$0	$110,000
TOTALS		$6,138,025	$1,600,000	$450,000	$5,181,706	$13,983,000	$25,902,219	$33,734,231	$320,000	$5,660,513	$1,851,500

Appendix D: Changes from Last Year's Program

The following is a list of significant differences between the adopted McHenry County 2018-2022 Transportation Program and the proposed 2019-2023 Program:

1. Reasonably expected revenues include an increase in the State Motor Fuel Tax and pass through to McHenry County, starting in 2020. (page 13)
2. Added "Finish Mowing Contract" and "Street Sweeping Contract" to the County Maintenance Program. (pages 23 & 34)
3. Delayed construction of the "Remote Salt Storage and Maintenance Facility" by one year to 2024. (page 30)
4. Removed funding for "Striping Paint and Glass Beads" from the County Maintenance Program.
5. Reduced funding for "Pavement Preservation and Resurfacing" in 2020 and increased it in 2021-2013 to assist with cash flow. (page 41)
6. Delayed resurfacing of Randall Road (the northern segment from Alexandra to Acorn) by one year from 2020 to 2021. (page 45)
7. Removed "Bay Road Bridge", "Chapel Hill Road Bridge" and "Oak Grove Road Bridge" due to project completion.
8. Added "Flat Iron Road Bridge", "McGuire Road Bridge", "McGuire Road Culvert" and "River Rd. Culvert" to the Bridge Program. (pages 53, 58, 59 & 63)
9. Delayed the "Ackman Road Corridor Safety Project" by moving construction from 2021/2022 to after 2023. (page 72)
10. Combined the "Algonquin Road HSIP Project" and the "Wilmot & Main HSIP Project" into one project. (page 73)
11. Combined the "Algonquin & Crystal Lake Rd HSIP Project" with the "Randall Road Operational and Capacity Project". (page 88)
12. Added the "Queen Anne-Charles Road Intersection Safety Project" to the Public Safety Program, starting phase 1 engineering in 2020. (page 77)
13. Removed the "River Road at Dowell Road Intersection Project" from the Program due to project completion.
14. Delayed the "River Road – Chapel Hill Road Corridor Safety Project" by one year, starting a feasibility study in 2021. (page 78)
15. Added the "Tryon Grove Road Corridor Safety Project" to the Public Safety Program with a feasibility study in 2023. (page 79)
16. Added the "Walkup Road/Crystal Lake Road HSIP Project" to the Public Safety Program to reflect the award of HSIP funding in 2018. (page 80)
17. Combined the "Lakewood Road Shared-Use Path Project" and the "Lakewood/Miller Road Intersection Project" into a "Lakewood Road Corridor Complete Streets Project". (page 85)
18. Delayed the "Main Street Extension (West of Huntley)" project by one year, with engineering programmed in 2021. (page 86)
19. Updated the funding information for the "Randall Road Operational and Capacity Changes" project. (page 88)
20. Removed from the Transportation Program several State highway projects that are now under construction.
21. Updated the funding information for the "Illinois Route 23 and Interstate 90 Interchange Project". (page 91)
22. Added the "Illinois Route 176 at Nish Road Intersection Improvements" project to the State Highway Program. (page 93)
23. Added three bicycle and pedestrian projects to the Program – the "Airport/McGuire Rd Bicycle and Pedestrian Accommodations" project, "Cary/Algonquin Rd Bicycle and Pedestrian Accommodations" project and the "Randall Rd Bicycle and Pedestrian Accommodations" project. (pages 97, 99 & 104)
24. Included county funding towards Visit McHenry County's "Countywide Bike Share Program". (page 100)
25. Updated the funding information for the "MCRide Dial-a-Ride Pace Contract". (page 101)
26. Renamed funding in the "Volunteer Driver and Transit Enhancement Program" from "TNC Pilot Program" to "Transit Plan Recommendation" and increased funding. (page 106)
27. Added a new section to the "Miscellaneous Program" to track diversions of transportation funding for public safety, titled "RTA Sales Tax for Public Safety Purposes". (page 111)

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