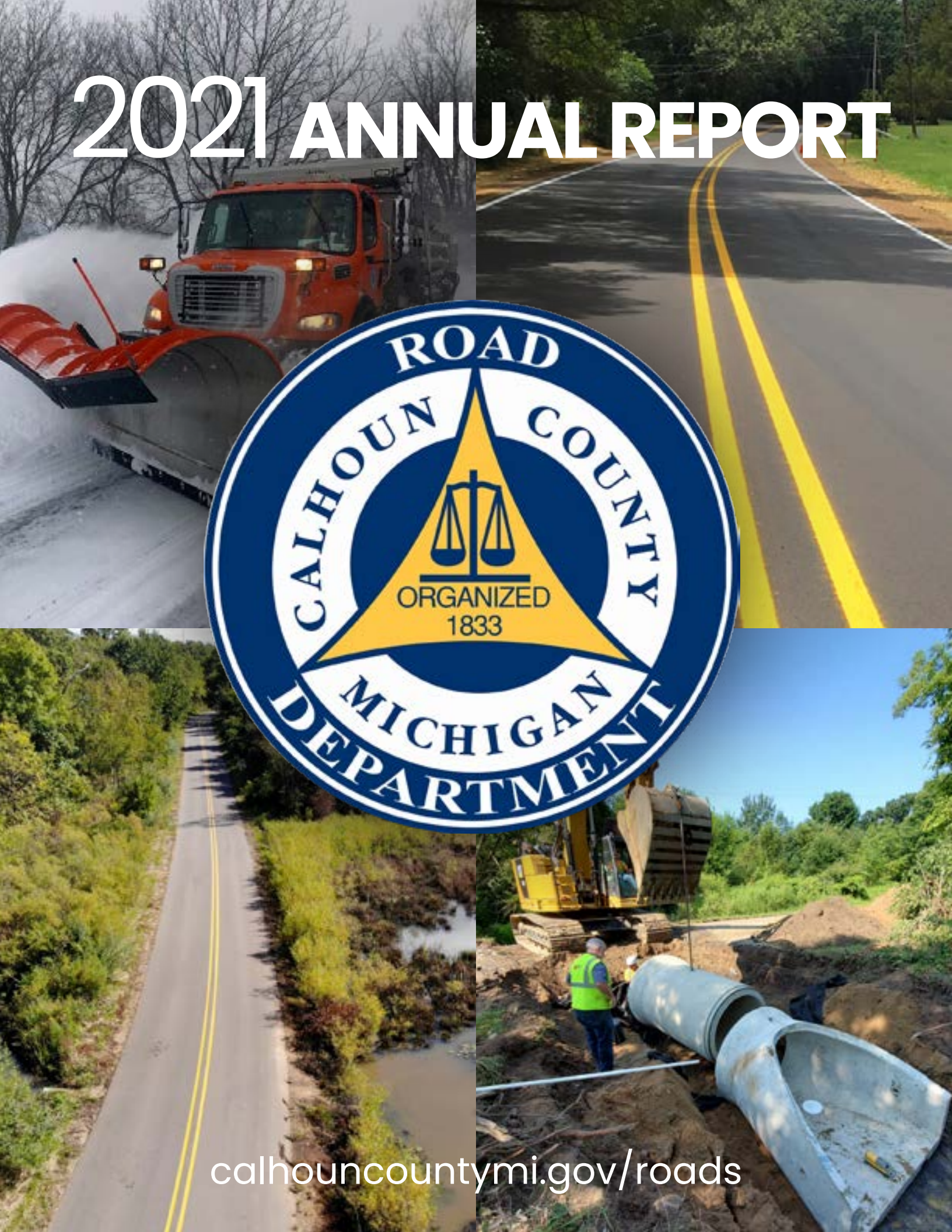


2021 ANNUAL REPORT



calhouncountymi.gov/roads



STAY CONNECTED

 13300 15 MILE ROAD
MARSHALL, MI 49068

 269-781-9841

 RDINFO@CALHOUN
COUNTYMI.GOV

 CALHOUNCOUNTYMI.
GOV/ROADS

 FACEBOOK.COM/
CALHOUNCOUNTYROADS

REPORT A PROBLEM

The Calhoun County Road Department (CCRD) will make every effort to respond to your request promptly. Please provide all the information requested and be as detailed in your explanation as possible.

CALHOUNCOUNTYMI.GOV/ROADPROBLEM



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BOARD OF COMMISSIONERS



Calhoun County Commissioners
2021-2022
Prairie Studios

KATHY-SUE VETTE (R)

District 1: Battle Creek City Precincts 3, 4, 5, 11, 20, 22 and Springfield City

ROCHELLE R. NUNLEY-HATCHER (D)

District 2: Battle Creek City Precincts 7, 10, 12, 13, 15, 17, 21

JAKE W. SMITH (D)

District 3: Battle Creek City Precincts 1, 2, 6, 8, 9, 18, 19, 23

STEVE FRISBIE (R) - BOARD CHAIR

District 4: Bedford Charter Precincts 1, 2, 3 Convis and Pennfield Charter Townships Precincts 1, 2 and 3

DEREK KING (R)

District 5: Athens, Emmett Charter Precincts 1 and 2 Leroy and Newton Townships

TOMMY MILLER (R)

District 6: Marshall City Precincts 1 and 2 Burlington, Eckford, Fredonia, Marengo, Marshall Precincts 1 Tekonsha Townships

GARY TOMPKINS (R) - BOARD VICE CHAIR

District 7: Albion City Precincts 1, 2, 3, 4, 5, 6, Albion, Clarence, Clarendon, Homer, Lee & Sheridan Townships

Board of Commissioners meetings are held in the Commissioners' Chambers, at the Calhoun County Building, 315 West Green Street, Marshall, Michigan 49068. The meeting schedule can be found on the website, calhouncountymi.gov/departments/bocmeetings



MEET THE TEAM

KELLI SCOTT, Administrator/Controller

JOHN W. MIDGLEY, P.E., Managing Director

KORI ALBRECHT, Director of Operations

KRISTINE O. PARSONS, P.E., Director of Engineering

RDINFO@CALHOUNCOUNTYMI.GOV
269-781-9841

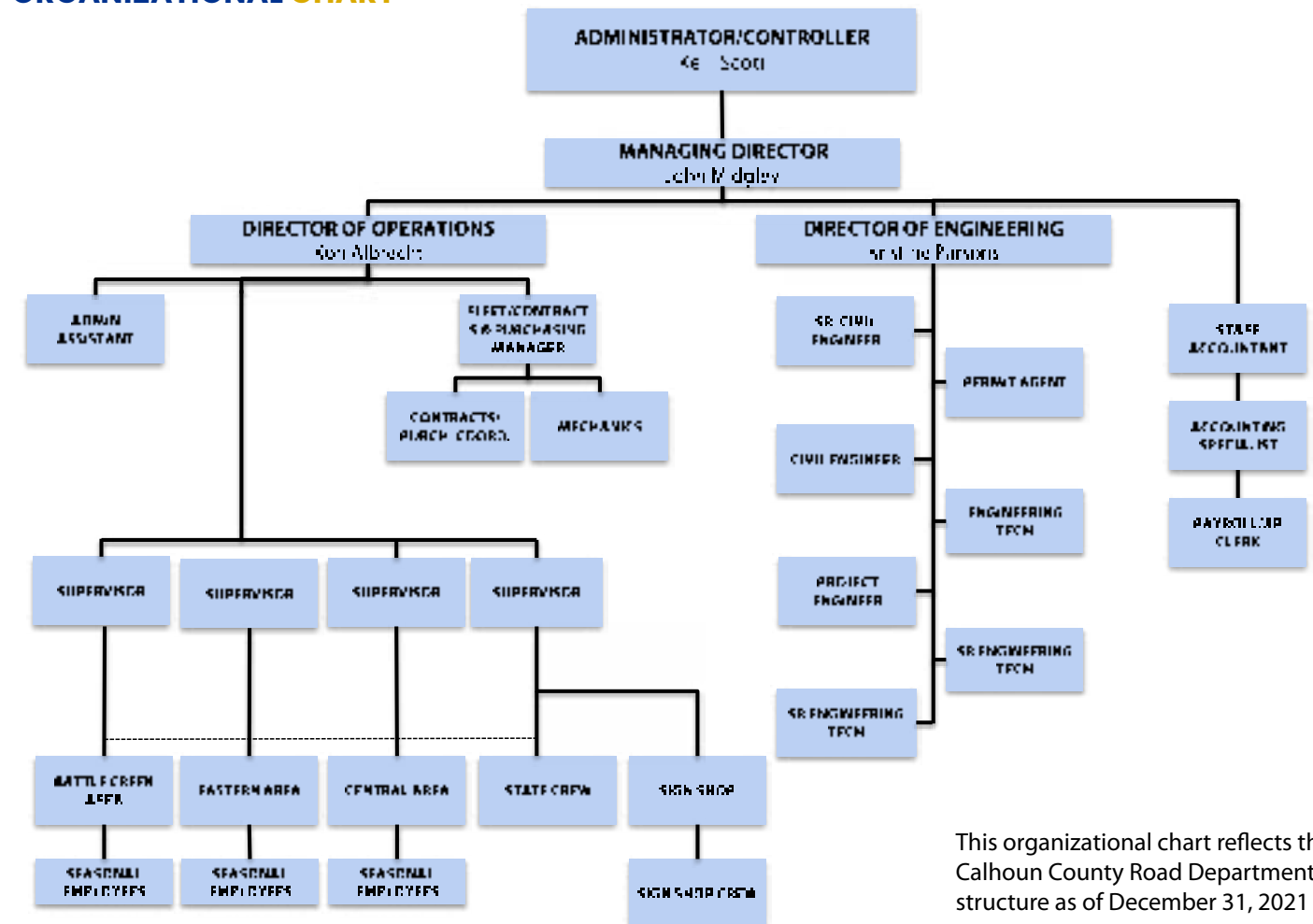
TOTAL EMPLOYEES | **67**

ADMINISTRATION & FINANCE | **6**

ENGINEERING | **7**

OPERATIONS | **54**
ROAD WORKERS, MECHANICS, SUPERVISORS, PURCHASING, & OFFICE

ORGANIZATIONAL CHART



This organizational chart reflects the Calhoun County Road Department structure as of December 31, 2021



OVERVIEW

In November 2012, the Calhoun County Road Commission was dissolved, and became a department of county government. The Managing Director of the Road Department now reports to the County Administrator/Controller, who reports to the Calhoun County Board of Commissioners. County Administration implements all employment policies and oversees hiring procedures for the department.

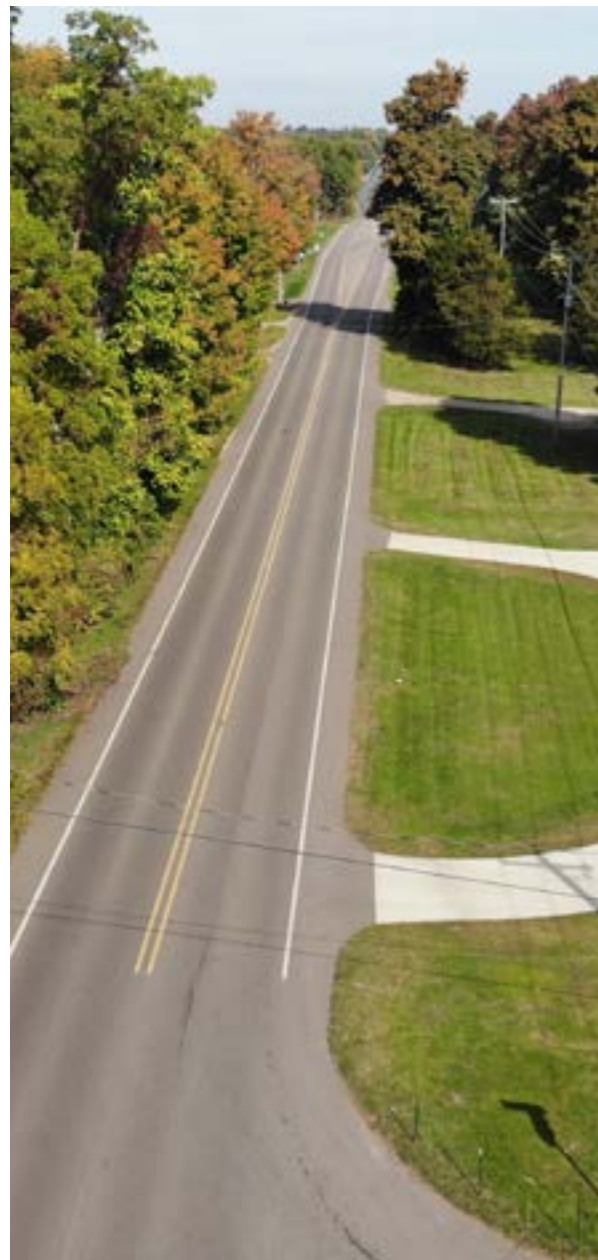
The Calhoun County Road Department's (CCRD) primary responsibility is to provide safe roads for the public. We recognize that residents and our economy depend on safe and efficient transportation as a critical factor in the quality of life in Calhoun County. Our operations include snow removal, pothole patching, seal coating, traffic signals, road signs, bridges, culverts, dust control on gravel roads, roadside mowing, pavement marking, guard rail and various other road related work. Other services include reviewing roads for plats and subdivisions, abandonments, and issuing road and soil erosion permits, as legal stewards of the right of way (ROW).

Local road construction projects are usually only possible through funding via the Michigan Transportation Fund (MTF), local township contributions, or federal and state grants that CCRD proactively applies for. Federal road funding directed by state law to local agencies for road and bridge projects is the County's main source to carry out primary road projects. These projects are prioritized within Transportation Improvement Plans (TIP) within BCATS and the regional Rural Task Force, our required metropolitan planning organizations.

BCATS is a municipal planning organization that is comprised of the 5 townships surrounding Battle Creek, the City of Springfield, and the City of Battle Creek.

CCRD owns and maintains 87 bridges and more than 1,300 miles of county roads.

We also maintain 458 miles of state highways through a contract with MDOT.



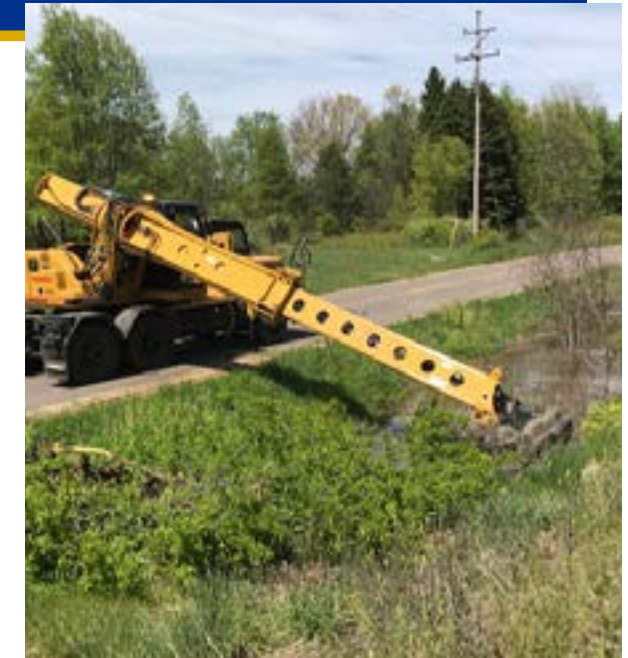
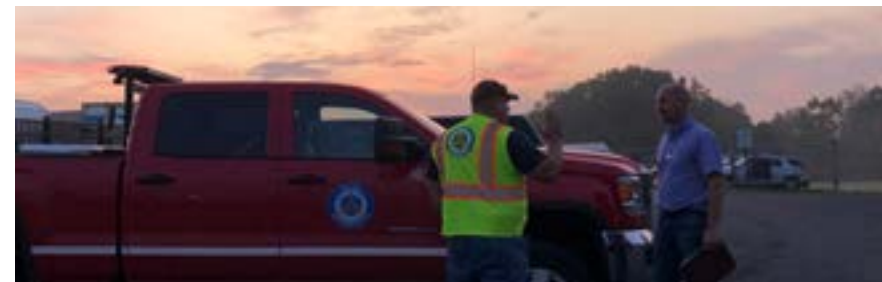
OVERVIEW CONTINUED

BCATS develops long-term transportation improvement plans (TIP) for the City of Battle Creek and the surrounding urban townships, as defined by the federal government. CCRD Engineering staff provide a list of possible projects for future years, and this group cooperatively discusses where to allocate funding given to BCATS from the state. Alternatively, the Rural Task Force decides in public meetings where to allocate a specific amount of federal and state funds to rural areas, the remaining part of Calhoun County, and CCRD engineers design plans to use those funds strategically for road improvements. The source of these funds is discussed more in the finance portion of this report.

Local roads are addressed through the Local Road Funding Program, which includes a match component from townships or other sources. Many Calhoun County townships contribute to this program, and CCRD works together with these local units of government to shape the future of roads within Calhoun County. Historical data about contributions from townships can be found in the finance portion of this report, starting on page 8.

Managing the construction and maintenance of local and primary roads in a county of our size is a balancing act of allocating money to keep potholes patched, roads clear of snow in the winter, while still having enough to match federal and state funds for road construction. This report is designed to explain how CCRD continues to improve practices to do increasingly more work while being fiscally responsible with these public funds.

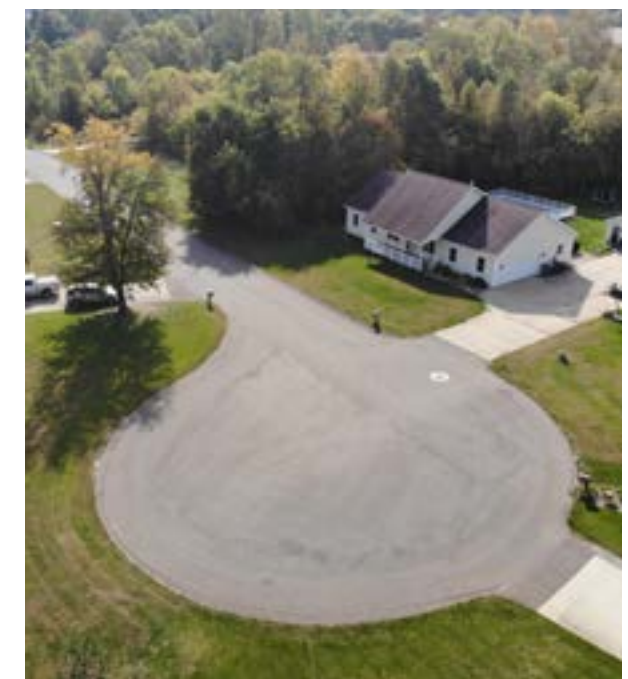
CCRD leadership conducted 2 virtual meetings with township supervisors in 2021.



Emmett Township Local Road Project

2021 MILES FINISHED | 30

Learn more about the ETLRP on page 27.





SERVICE REQUESTS ROAD MAINTENANCE

TOP REQUESTS | 5

- POTHLES
- MISSING/DAMAGED SIGNS
- TREE REMOVAL/TRIMMING
- CARCASS IN ROADWAY
- MAILBOX DAMAGE

TOTAL NUMBER OF SERVICE REQUESTS RECEIVED IN 2021 | 1246

HOW IT WORKS

In 2021, the Calhoun County Road Department received 1,246 total service requests. On the County website, and the Road Department website, there is a link where residents can submit service requests to alert the Road Department about something that needs to be addressed. With over 1,300 miles of road to maintain, receiving input from residents about what they're experiencing on the roads is an important component to efficient road maintenance.

POTHOLE STRATEGY

With Michigan's freeze and thaw cycles, potholes are an ongoing issue for drivers. In addition to service requests, CCRD has a comprehensive pothole management approach that ensures all potholes in the county are filled. This process continues to include the use of contractor crews to supplement Road Department crews in filling potholes ensuring that every township was addressed.

Road agencies in Michigan are limited on what materials are available to fill potholes. It's not until mid-April that asphalt plants begin making hot mix, so before then, a cold mix is used. Cold mix asphalt is less effective than hot mix but can at least make the pothole less of a problem for the motoring public. As such, it is used by our crews to patch potholes early in the season as we are notified of them.

Once the hot mix asphalt plants open, then the countywide process is activated. With several contractor crews, as well as numerous CCRD Road Worker crews, potholes are patched on all roads within a township, and then crews move on to the next, until the entire county is patched. The townships that are addressed first changes each year to ensure that one township is not receiving priority service over another.

TONS | 14,145

COLD MIX & HOT MIX

2021 POTHOLE MAINTENANCE COSTS	COSTS
Local	\$2,547,360
Primary	\$916,591
State	\$117,675
TOTAL AMOUNT SPENT ON POTHLES	\$3,581,626
includes cold mix, hot mix, Calhoun crews (asphalt machine patching) and contractor crews	



WINTER MAINTENANCE

STATE TRUNK LINE MILES | 458

PRIMARY MILES | 492.7

LOCAL MILES | 821.2

During a snow event, the Calhoun County Road Department is responsible for clearing roads of snow and ice, depending on weather conditions. CCRD drivers are divided into two regional units for winter operations—Battle Creek and Marshall. Each driver has assigned lane miles to maintain.

PRIORITIZING SNOW REMOVAL

CCRD's policy for prioritizing snow removal is based on traffic volume, speed limits and road surface types. Preference is given in the following order:

- State trunk lines
- Primary roads
- Major local roads
- Residential / subdivision streets

Even when road workers are working overtime, particularly during major snow events, it can take longer for road workers to reach residential roads.

For tips on winter driving, as well as how to ensure your mailbox is ready for winter, visit the Winter Maintenance page on the Road Department website at calhouncountymi.gov/roads.

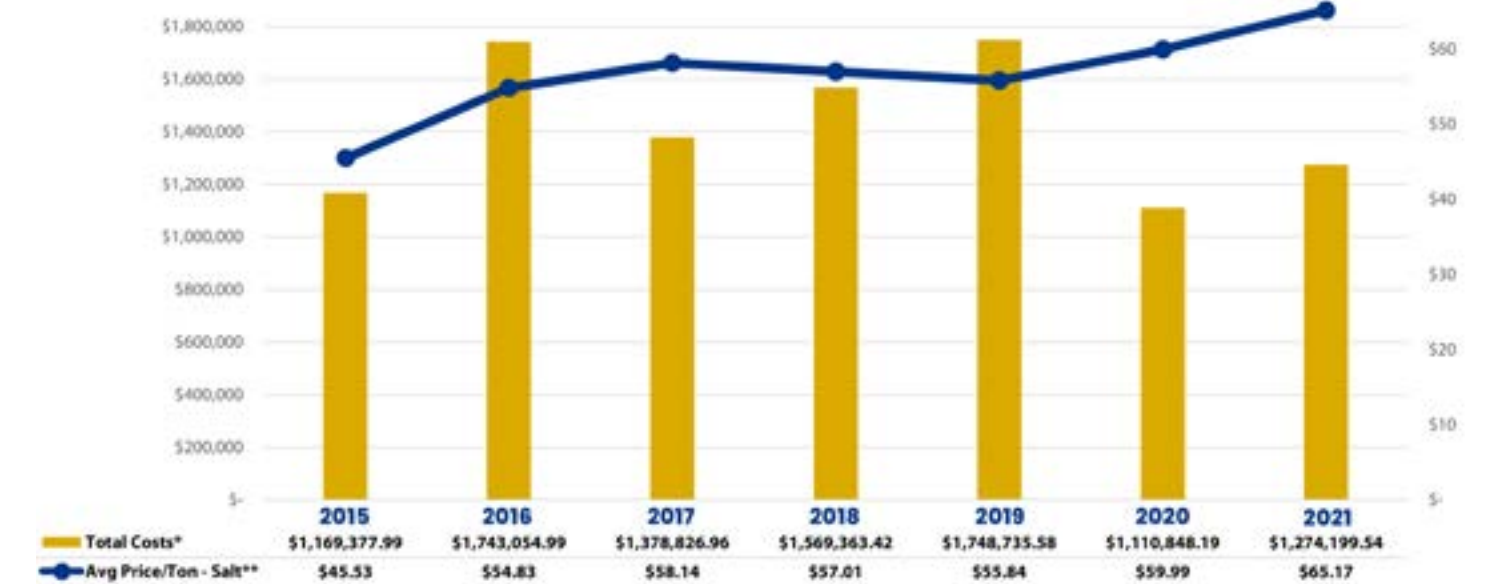


DID YOU KNOW?

In partnership with GIS, CCRD offers a snowplow tracker map that shows where snowplows have been during a snow event.

bit.ly/CalhounSnowPlowTracker

WINTER MAINTENANCE EXPENDITURES





FINANCE

The Calhoun County Road Department is a department of Calhoun County Government, unlike most road agencies within Michigan that operate as separately governed County Road Commissions. The Road Department carries out road and bridge maintenance, preservation, and construction for roads within the jurisdiction of the County of Calhoun, Michigan.

The Road Department Budget is established by department staff, overseen by County Administration and Finance, and then adopted by the Board of Commissioners. The County Board of Commissioners also approves and submits the annual required PA 51 Financial Report to the Michigan Department of Transportation (MDOT).

REVENUES

MICHIGAN TRANSPORTATION FUND

The Michigan Transportation Fund (MTF), the repository of motor fuel taxes and vehicle registration fees collected by the state, is the principal source of road commission/department funding. The collected funds are distributed to the MDOT, 276 cities and 257 villages, and 83 county road agencies, using a formula based on variables that include the density of population, road mileage by classification, and collected vehicle registration fees. Motor fuel and vehicle registration tax revenue is restricted for transportation purposes by Article IX, Section 9 of the 1963 Michigan Constitution. Motor fuel taxes are excise taxes—a per gallon tax not based on price. MTF must also be preserved to match Federal dollars.

STATE AND FEDERAL TRANSPORTATION FUNDS

CCRD also works diligently to qualify for special sources of revenue for road improvement projects from other state and federal sources.

State sources include Transportation Economic Development Fund (TEDF):

- TEDF Category A funds are competitively available for road projects related to industry development and redevelopment opportunities
- TEDF Category D funds are available for use to upgrade roads to all-season standards and to develop a network of roads that are not weight restricted during seasonal weight restriction periods
- TEDF Category F funds are competitively available for use to upgrade roads to complete broken links in the all-season-road network in the urban area



FINANCE CONTINUED

FEDERAL SURFACE TRANSPORTATION PROGRAM FUNDS

The Infrastructure Investment and Jobs Act (IIJA) was signed into law by President Joe Biden on Nov. 15, 2021, replacing the Fixing America's Surface Transportation Act, which provided funding for transportation programs through 2020. IIJA includes funding for broadband access, clean water, electric grid renewal in addition to the transportation and road programs.

The IIJA includes approximately \$1.2 trillion in spending, with \$550 billion being newly authorized spending on top of what was already authorized. Federal funding, including Surface Transportation Program (STP), is distributed to the CCRD through the Battle Creek Area Transportation Study (BCATS), the Metropolitan Planning Organization (MPO) for the Calhoun County/Battle Creek urbanized area. The Rural Task Force (RTF) Program provides STP-Rural federal dollars to rural areas.

Under the Federal Aid Highway Program, Michigan is also eligible for Local Safety Program funds which are federal funds to be used for road improvements that provide countermeasures that improve and potentially reduce crashes. The FHWA also provides funds from the Highway Safety Improvement Program (HSIP) and a portion of those funds are for the High Risk Rural Road (HRRR) program.



LOCAL ROAD FUNDING PROGRAM

The previously-mentioned sources of funding are generally intended for primary roads. According to Act 51 of 1951, a state law that governs how Michigan roads are funded, any improvements to local roads beyond routine maintenance, such as resurfacing, must be matched by a source other than Act 51 state funding. Across the state, county match sources come primarily from townships. In Calhoun county, this is covered under Policy 509. CCRD engineers and leadership work closely with all townships in Calhoun County to evaluate how much the township can afford and is willing to contribute, what roads need to be addressed, what funds the County has to match, and what the construction season looks like. In most years including 2021, when a township contributes to local road construction, CCRD has been able to accommodate that request and includes that project in its construction season.

Below is a table of how much townships have matched, in addition to grant funding and county contributions for 2021. On dedicated township pages at the end of this report, a list of local road projects is included. Those projects are funded in this manner—with contributions from the township and matching funds from CCRD.

2021 LOCAL ROAD IMPROVEMENT FUNDING

TOWNSHIP	TOWNSHIP CONTRIBUTION	COUNTY CONTRIBUTION	GRANT FUNDING	TOTAL COST
Albion	\$384,695	\$438,066	\$269,493	\$1,092,254
Athens	\$39,030	\$46,101	\$3,280	\$88,411
Bedford		\$56		\$56
Burlington		\$1,716		\$1,716
Clarence				
Clarendon				
Convis	\$141,692	\$259,375		\$401,068
Eckford	\$88,367	\$120,087		\$208,454
Emmett	\$4,627,031	\$4,670,378	\$11,605	\$9,309,013
Fredonia	\$49,092	\$67,606		\$116,699
Homer		\$(5,400)	\$4,825	\$(575)*
Lee				
Leroy	\$248,623	\$272,662	\$1,605	\$522,890
Marengo	\$11,981	\$29,086		\$41,067
Marshall	\$42,921	\$164,069	\$562	\$166,486
Newton	\$4,509	\$86,974		\$91,483
Pennfield	\$11,129	\$25,969		\$37,098
Sheridan				
Tekonsha		\$15,400		\$15,400
TOTAL	\$5,637,090	\$6,163,061	\$291,369	\$12,091,520

* As a result of the federal aide audit of a prior year's project, the county received funds back, showing a negative cost.

BRIDGE FUNDING

An amendment to Act 51 in 2004 provides financial assistance to local highway authorities for the preservation, improvement, reconstruction of existing bridges, or the construction of bridges to replace existing bridges in whole or part. Through legislation in 2004, Michigan created a Local Bridge Fund to be administered by the Local Bridge Advisory Board and seven Regional Bridge Councils.

Funding from the Local Bridge Fund is allocated to each region based on available funds and weighted ratios provided in the legislation. This funding was supplemented in 2017 with the Michigan Revenue Package, and bridges with high traffic volumes, that are structurally deficient, or do not function in a way that meets traffic needs are more likely to receive funding.

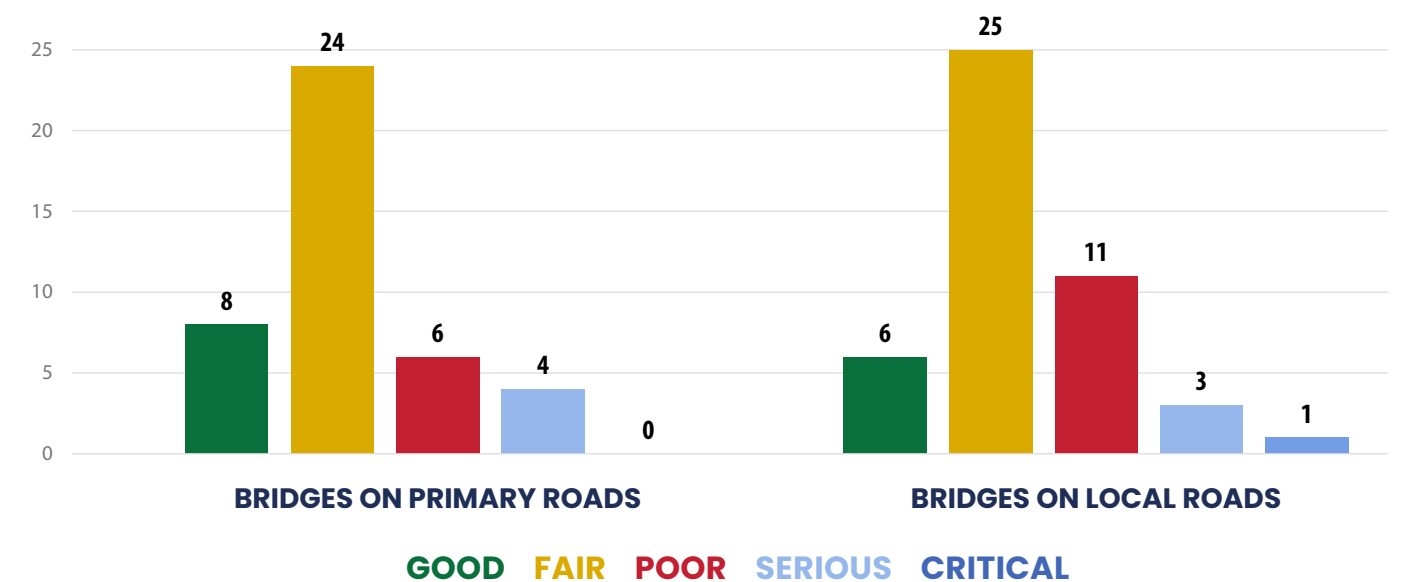
CCRD submits the maximum number of applications for the Local Bridge Program every year. In 2021, no Calhoun bridges were selected, likely due to the competitive nature of the program statewide.

BRIDGES ON LOCAL ROADS | 46

BRIDGES ON PRIMARY ROADS | 42



BRIDGE CONDITIONS

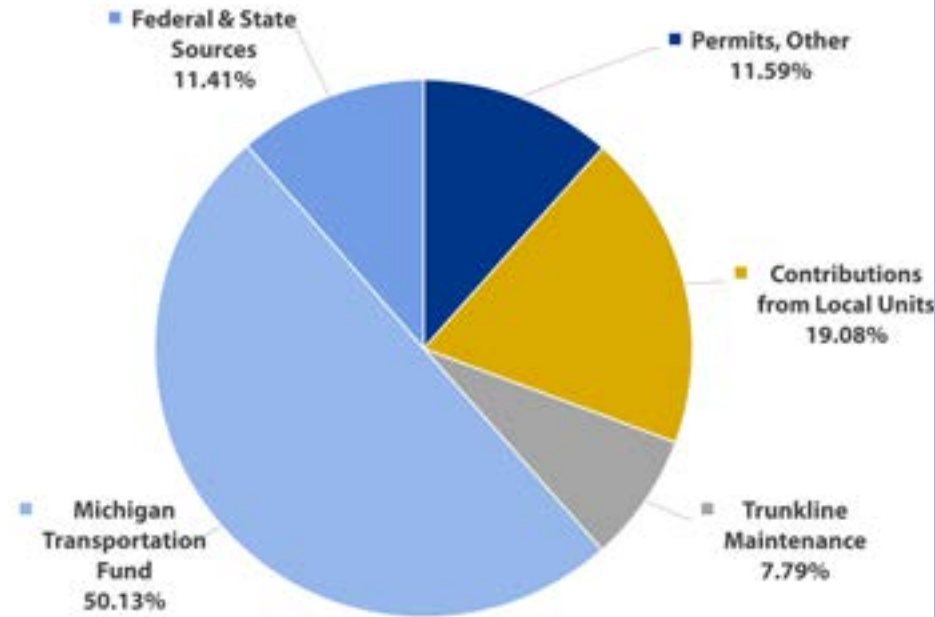




FINANCE CONTINUED

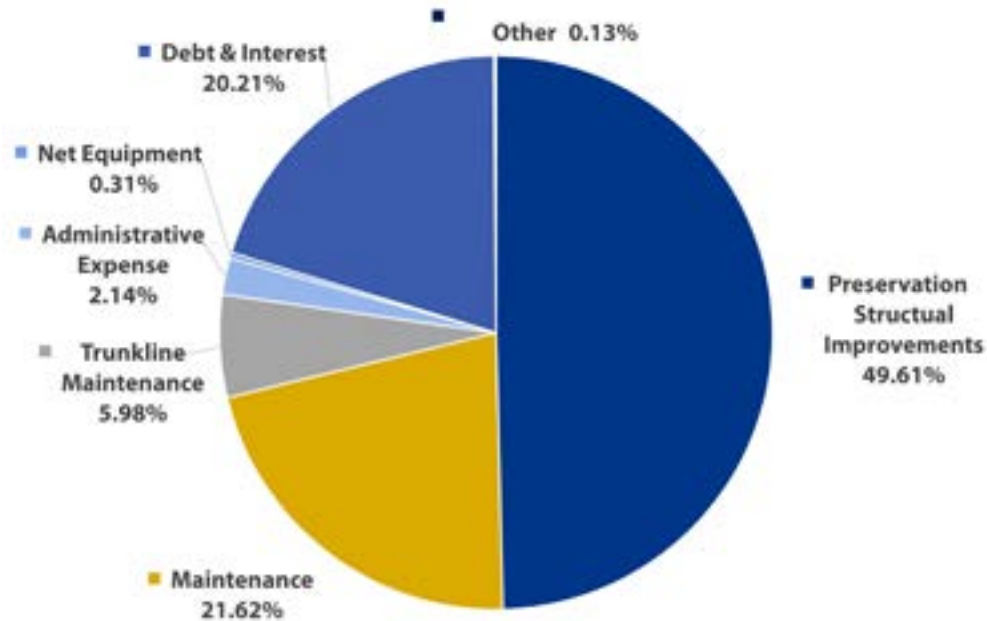
REVENUES

2021



EXPENDITURES

2021



LONG-TERM ASSET MANAGEMENT

The Michigan Transportation Fund Act (PA 51) has provisions that ensure financial accountability, long-term asset management and planning, and transparency of the Calhoun County Road Department (CCRD). There are numerous ways that CCRD meets these requirements to ensure the public has access to the plans of the Road Department.

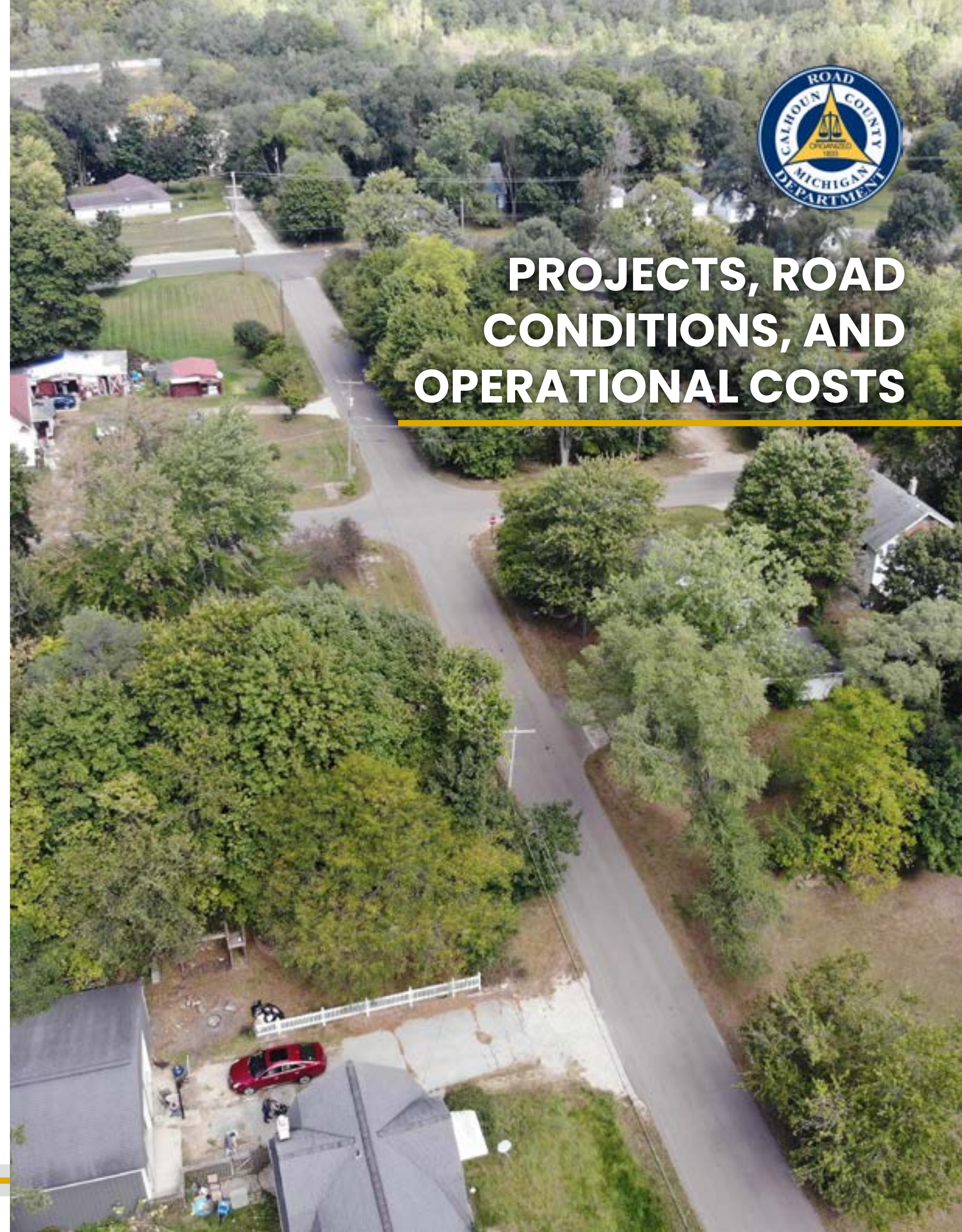
The CCRD is required to follow General Acceptable Accounting Practices and create an Official Asset Management Plan that is updated every five years and is approved by the Board of Commissioners. CCRD also provides 5-year local road improvement plans to townships using the Asset Management Plans.

Numerous required reports are also listed on the Road Department website at calhouncountymi.gov/roads.

- Annual Act 51 reports, which detail the finances, assets, road investments, and other statistics
- PASER ratings
- Financial reporting dashboard



PROJECTS, ROAD CONDITIONS, AND OPERATIONAL COSTS





TOWNSHIP OVERVIEW

The following pages dive into data specific to each township in Calhoun County. These pages can be used to better understand the scope of the Calhoun County Road Department's responsibilities. This information also shows why positive working relationships between the Road Department and township leadership are critical for ensuring work is completed cooperatively, even across township lines, which will improve the road conditions for residents.

A table of projects in each township provides information about what work was completed in 2021, as well as its cost. Road conditions are reflected in pie graphs for primary and local roads. Also, maintenance costs are listed for each township, broken down into pothole patching, winter maintenance, and other maintenance that is completed by the Road Department.

In these pages, the project lists focus on work completed in 2021 and cost data is taken from the Calhoun County Act 51 Report, which is submitted to the State of Michigan. Due to the nature of construction projects and reporting requirements from Act 51, some of the numbers do not align exactly with the report and likely can be explained by projects overlapping with previous or upcoming years.

Learn more about the different treatment types in the glossary on our website, calhouncountymi.gov/roads. To understand how local road funding works, read about Calhoun County's Local Road Funding Program on Page 10.

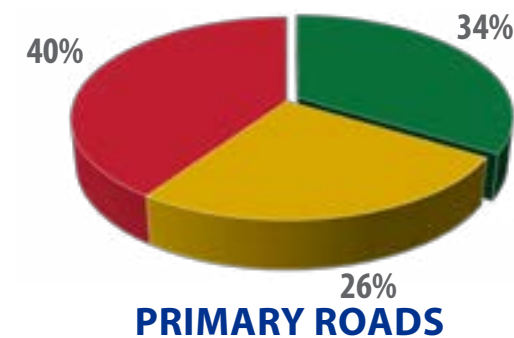
LOCAL MILES | **821.2**

PRIMARY MILES | **492.7**

STATE TRUNK LINES MILES | **458**



COUNTYWIDE ROAD CONDITIONS



PASER RATINGS

GOOD ≥8
FAIR = 7, 6, 5
POOR ≤4

Based on September 2022 PASER data.

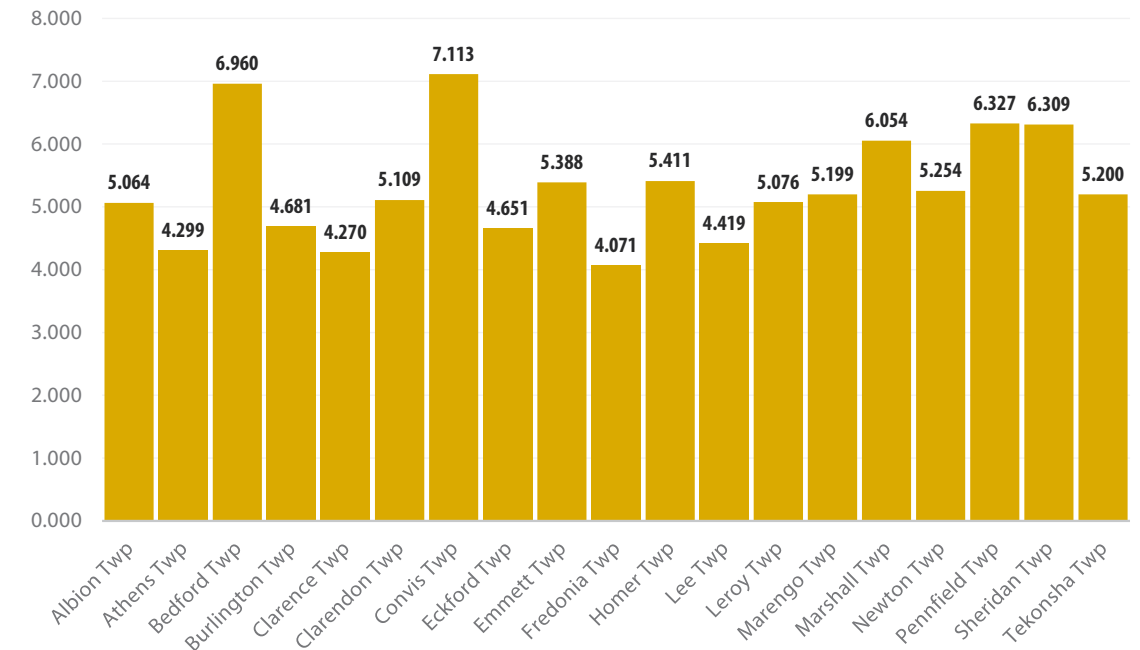


COUNTYWIDE CONDITIONS

PRIMARY ROAD

GOOD ≥8 **FAIR** = 7, 6, 5 **POOR** ≤4

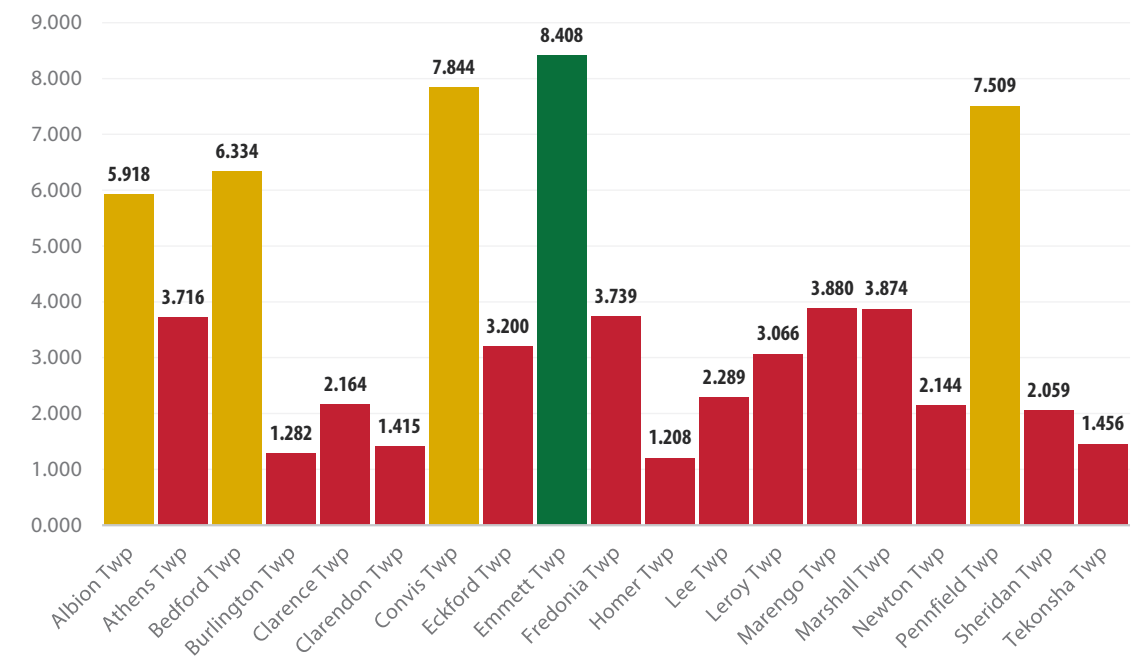
AVERAGE PASER RATING BY TOWNSHIP



LOCAL ROAD

GOOD ≥8 **FAIR** = 7, 6, 5 **POOR** ≤4

AVERAGE PASER RATING BY TOWNSHIP





ALBION TOWNSHIP

PRIMARY MILES | **17.93**

LOCAL MILES | **38.31**

ROAD PROJECTS

2021

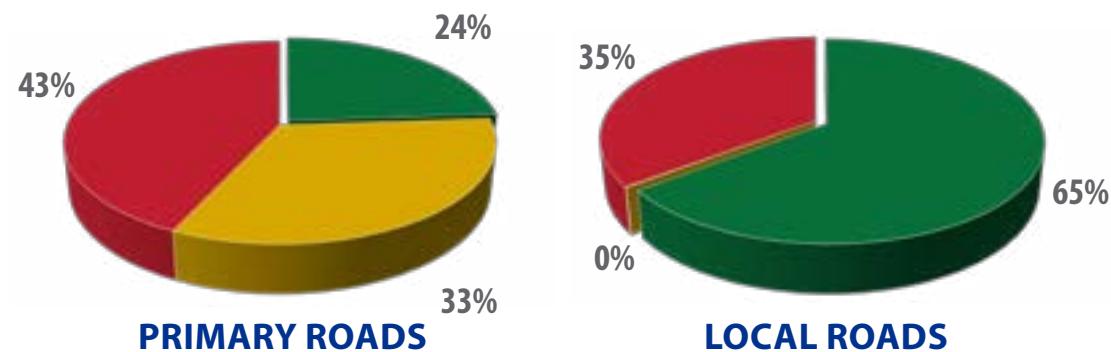
*Shared with Eckford Twp

LOCAL

PROJECT LOCATION	WORK PERFORMED	MILES	COST
24 Mile Rd, D Dr S to the North	Chip seal	2.02	\$9,432*
29 Mile Rd, H Dr S to South Township Line	Chip seal	0.27	\$41,463
30 Mile Rd, H Dr S to F Dr S	HMA 2.0"	1.004	\$130,908
Condit Rd, H Dr S to J Dr S	Chip seal	1.057	\$24,329
H Dr S, 25 1/2 Mile Rd to M-99	Chip seal	2.513	\$49,413
J Dr S, 27 Mile Rd to M-99	Reconstruction - double seal	1.004	\$841,293
TOTAL		7.868	\$1,096,838

ROAD CONDITIONS

PASER RATINGS



GOOD ≥8
FAIR = 7, 6, 5
POOR ≤4

Based on September 2022 PASER data.

MAINTENANCE COSTS

PATCHING	WINTER MAINTENANCE	OTHER MAINTENANCE
\$146,133	\$48,976	\$110,051



ATHENS TOWNSHIP

PRIMARY MILES | **17.64**

LOCAL MILES | **38.86**

ROAD PROJECTS

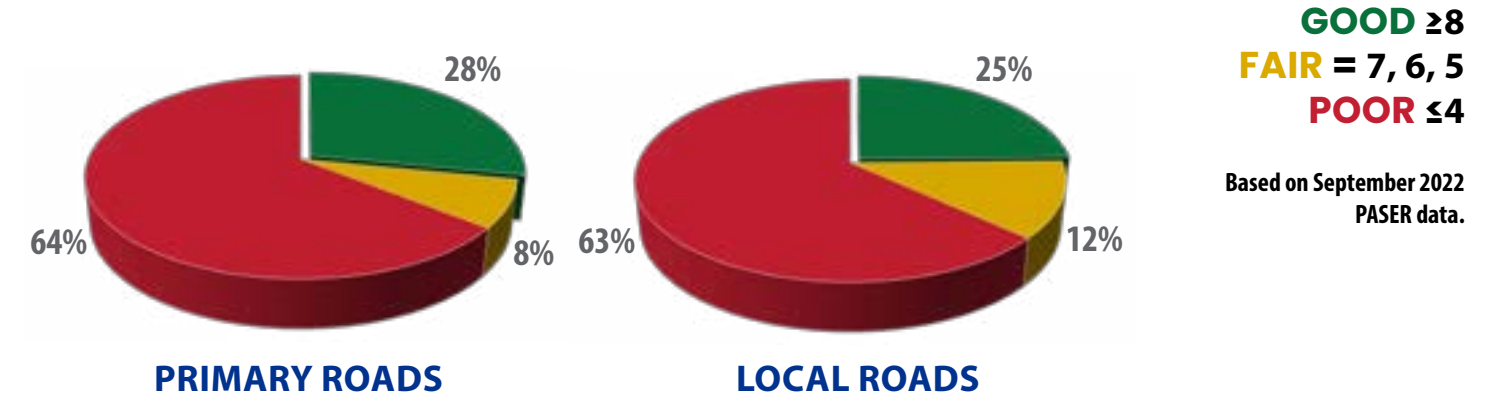
2021

LOCAL

PROJECT LOCATION	WORK PERFORMED	MILES	COST
O Dr S, 2 Mile Rd to Str. 1344	Skip pave	0.739	\$78,542
TOTAL		0.739	\$ 78,542

ROAD CONDITIONS

PASER RATINGS



GOOD ≥8
FAIR = 7, 6, 5
POOR ≤4

Based on September 2022 PASER data.

MAINTENANCE COSTS

PATCHING	WINTER MAINTENANCE	OTHER MAINTENANCE
\$90,134	\$54,095	\$137,341



BEDFORD TOWNSHIP

PRIMARY MILES | **27.95**

LOCAL MILES | **62.91**

ROAD PROJECTS

2021

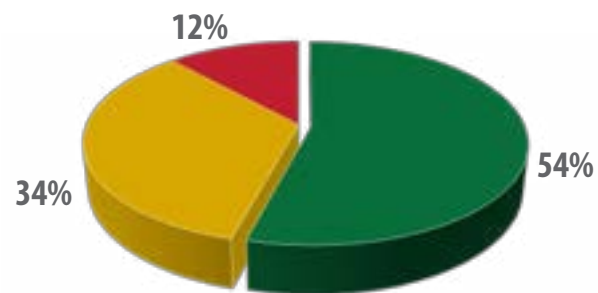
*Federal Aid Project

**Primary road prioritized due to township participation

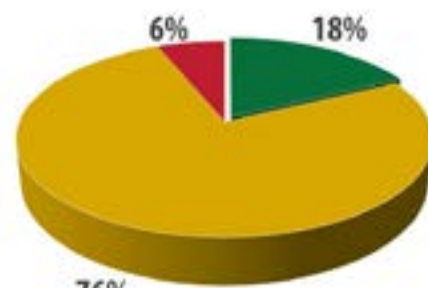
PRIMARY

PROJECT LOCATION	WORK PERFORMED	MILES	COST
Morgan Rd, M-37 to North Ave	3" Mill and fill	2.543	\$980,907*
Crandall Rd, Waubascon to North Ave	Underseal and 2" overlay	1.512	\$209,108**
Edmonds Rd S, Hutchinson to Waubascon	Chip seal	1.075	\$28,824**
TOTAL		5.13	\$1,218,839

ROAD CONDITIONS



PRIMARY ROADS



LOCAL ROADS

PASER RATINGS

GOOD ≥ 8
FAIR = 7, 6, 5
POOR ≤ 4

Based on September 2022 PASER data.

MAINTENANCE COSTS

PATCHING	WINTER MAINTENANCE	OTHER MAINTENANCE
----------	--------------------	-------------------

\$ 54,819

\$136,702

\$137,536



BURLINGTON TOWNSHIP

PRIMARY MILES | **24.68**

LOCAL MILES | **46.62**

ROAD PROJECTS

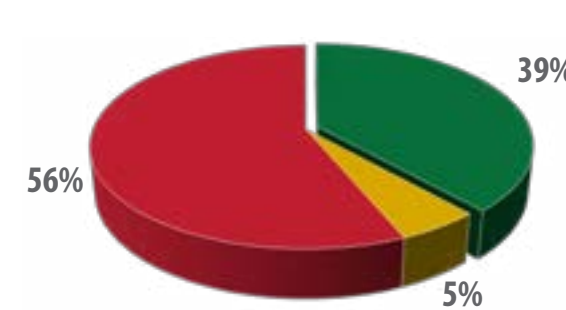
2021 - NONE COMPLETED

ROAD CONDITIONS

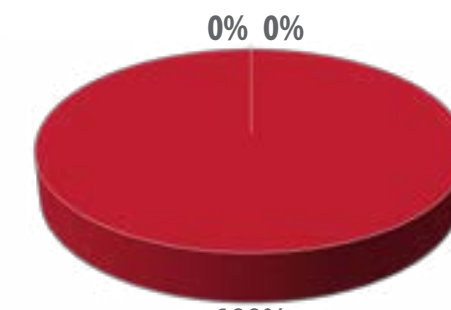
PASER RATINGS

GOOD ≥ 8
FAIR = 7, 6, 5
POOR ≤ 4

Based on September 2022 PASER data.



PRIMARY ROADS



LOCAL ROADS

MAINTENANCE COSTS

PATCHING	WINTER MAINTENANCE	OTHER MAINTENANCE
----------	--------------------	-------------------

\$304,856

\$53,095

\$176,128





CLARENCE TOWNSHIP

PRIMARY MILES | **24.35**

LOCAL MILES | **43.30**

ROAD PROJECTS

2021

PRIMARY

PROJECT LOCATION	WORK PERFORMED	MILES	COST
28 Mile Rd, Boat Launch to S Dr N	Chip seal	2.715	\$109,566
26 1/2 Mile Rd, U Dr N to V Dr N	Chip seal	0.534	\$25,275
TOTAL		3.249	\$134,841



CLARENDON TOWNSHIP

PRIMARY MILES | **28.26**

LOCAL MILES | **38.95**

ROAD PROJECTS

2021

PRIMARY

PROJECT LOCATION	WORK PERFORMED	MILES	COST
19 Mile Rd, U Dr S to T Dr S	Chip seal	0.504	\$22,102
TOTAL		0.504	\$22,102

ROAD CONDITIONS

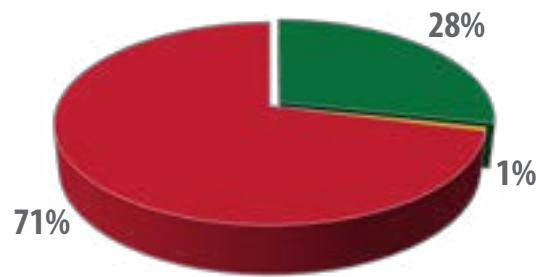
PASER RATINGS

GOOD ≥ 8

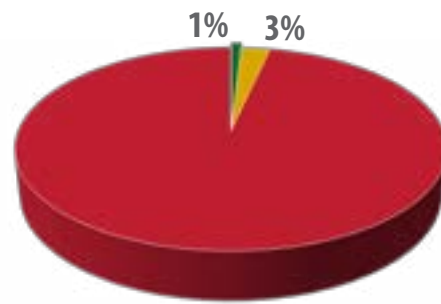
FAIR = 7, 6, 5

POOR ≤ 4

Based on September 2022 PASER data.



PRIMARY ROADS



LOCAL ROADS

ROAD CONDITIONS

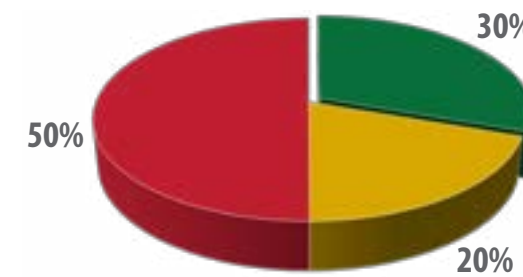
PASER RATINGS

GOOD ≥ 8

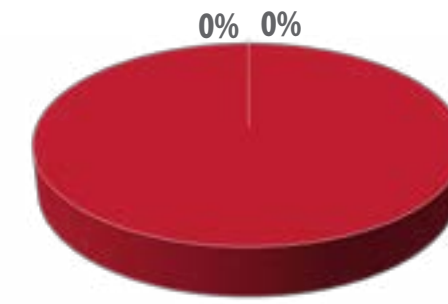
FAIR = 7, 6, 5

POOR ≤ 4

Based on September 2022 PASER data.



PRIMARY ROADS



LOCAL ROADS

MAINTENANCE COSTS

PATCHING	WINTER MAINTENANCE	OTHER MAINTENANCE
----------	--------------------	-------------------

\$252,308

\$63,060

\$173,789

MAINTENANCE COSTS

PATCHING	WINTER MAINTENANCE	OTHER MAINTENANCE
----------	--------------------	-------------------

\$81,575

\$43,970

\$312,976



CONVIS TOWNSHIP

PRIMARY MILES | **31.98**

LOCAL MILES | **33.21**

ROAD PROJECTS

2021

*shared with Pennfield Twp
**shared with Marshall Twp

PRIMARY

PROJECT LOCATION	WORK PERFORMED	MILES	COST
L Dr N, 15 1/2 Mile Rd to 14 Mile Rd	Chip seal	1.784	\$34,808
14 Mile Rd, L Dr N to N Dr N	Chip seal	1.004	\$28,702
TOTAL		2.788	\$63,510

LOCAL

PROJECT LOCATION	WORK PERFORMED	MILES	COST
12 1/2 Mile Rd, Bellevue Rd to West Township Line	Chip seal	1.786	\$36,865
12 Mile Rd, West Township Line to L Dr N	Chip seal	1.621	\$22,598*
Calendar Rd, West Township Line to 12 1/2 Mile Rd	Chip seal	0.192	\$7,006
P Dr N, 12 Mile Rd to 13 Mile Rd	Skip pave and chip seal	0.821	\$31,762
12 1/2 Mile Rd, 12 Mile Rd to North Township Line	Chip seal	1.275	\$28,937
12 Mile Rd, Lynch Rd to North Township Line	Chip seal	1.197	\$29,000*
V Dr N, Twp Line to Dead End	Chip seal	1.043	\$22,696
L Dr N, Old 27 to 18 Mile Rd	Chip seal	0.695	\$16,104**
L Dr N, Old 27 to 16 Mile Rd	Skip pave and chip seal	1.246	\$36,987**
L Dr N, 12 Mile Rd to 14 Mile Rd	Chip seal	1.658	\$42,476**
Ackley Lake Rd, Junction Rd to Baseline Rd	Skip pave and chip seal	2.223	\$104,310
16 Mile Rd, Junction Rd to Baseline Rd	Skip pave and chip seal	1.161	\$51,487
TOTAL		14.918	\$430,228



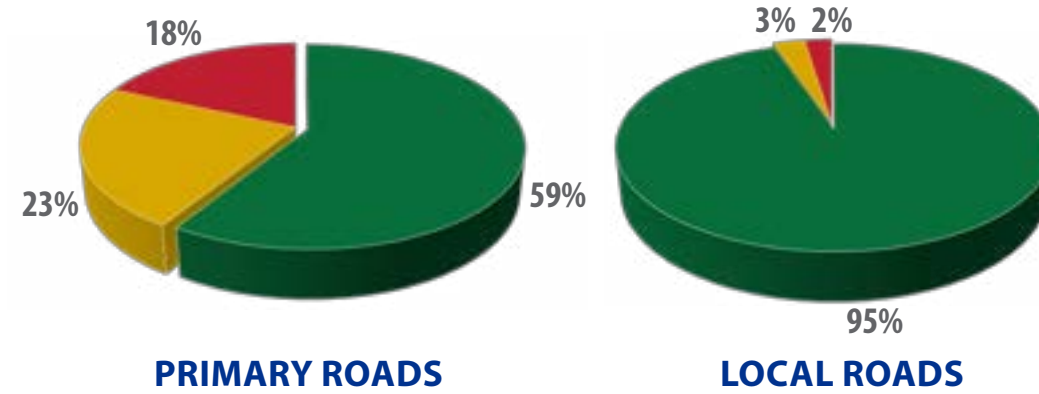
CONVIS TOWNSHIP CONTINUED

ROAD CONDITIONS

PASER RATINGS

GOOD ≥ 8
FAIR = 7, 6, 5
POOR ≤ 4

Based on September 2022 PASER data.



MAINTENANCE COSTS

PATCHING	WINTER MAINTENANCE	OTHER MAINTENANCE
\$63,712	\$55,294	\$109,118





ECKFORD TOWNSHIP

PRIMARY MILES | **32.55**

LOCAL MILES | **30.05**

ROAD PROJECTS

2021

*shared with Albion Twp
**shared with Fredonia Twp

PRIMARY

PROJECT LOCATION	WORK PERFORMED	MILE	COST
19 1/2 Mile Rd: E Dr S to F Dr S	Chip seal	0.507	\$15,074
19 1/2 Mile Rd: D Dr S to E Dr S	HMA 1.5"	0.506	\$137,227
TOTAL		1.013	\$152,301

LOCAL

PROJECT LOCATION	WORK PERFORMED	MILE	COST
18 1/2 Rd: B Dr S to West Township Line	Chip seal	1.032	\$22,601
18 Mile Rd: F Dr S to D Dr S	Underseal 2.0"	1.000	\$150,343**
23 1/2 Mile Rd: L Dr S to J Dr S	Skip pave	1.010	\$48,246
24 Mile Rd N: D Dr S to the North .27 miles	Chip seal	0.270	\$9,432*
D Dr S: 22 Mile Rd to the East	Chip seal/skip pave	0.900	\$33,143
H Dr S: West Township Line to 18 1/2 Mile Rd	Chip seal	0.413	\$10,109
J Dr S: 20 Mile Rd to 20 1/2 Mile Rd	Chip seal	0.504	\$14,469
TOTAL		5.129	\$288,343



ECKFORD TOWNSHIP CONTINUED

ROAD CONDITIONS

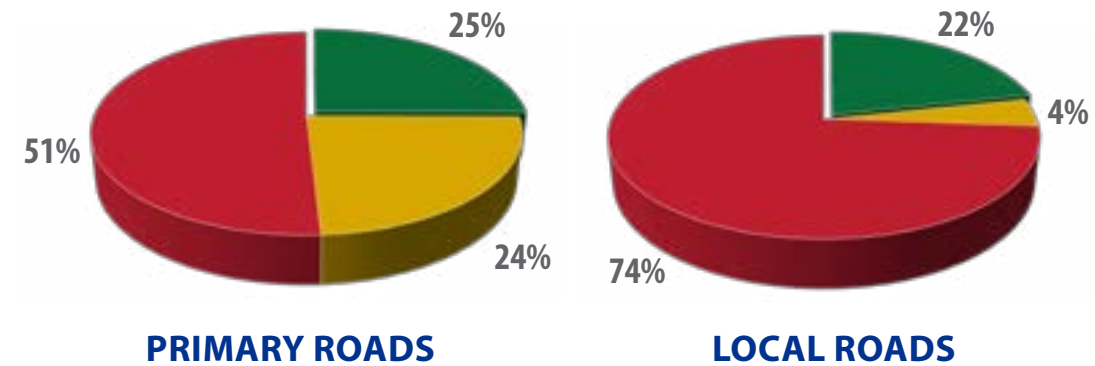
PASER RATINGS

GOOD ≥8

FAIR = 7, 6, 5

POOR ≤4

Based on September 2022
PASER data.



MAINTENANCE COSTS

PATCHING	WINTER MAINTENANCE	OTHER MAINTENANCE
\$191,478	\$62,117	\$91,501





EMMETT TOWNSHIP

PRIMARY MILES | **30.45**

LOCAL MILES | **72.04**

ROAD PROJECTS

2021

*Federal Aid Project

PRIMARY

PROJECT LOCATION	WORK PERFORMED	MILES	COST
6 Mile Rd: B Dr S to Emmett Township Line	Tree removal	2.029	\$112,787*
S Wattles Rd: Michigan Ave to G Dr N	Chip seal	1.457	\$84,165
Grenville Rd: Columbia Ave to BC City Limits	Mill and fill 3.5"	0.201	\$73,498
TOTAL		3.687	\$270,450

ROAD CONDITIONS

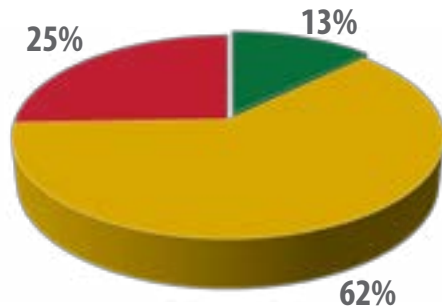
PASER RATINGS

GOOD ≥8

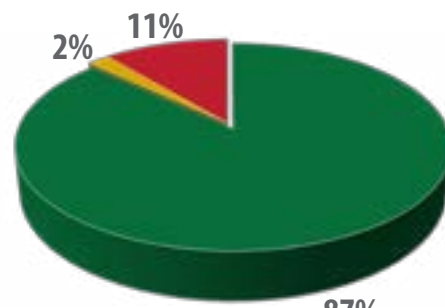
FAIR = 7, 6, 5

POOR ≤4

Based on September 2022 PASER data.



PRIMARY ROADS



LOCAL ROADS

MAINTENANCE COSTS

PATCHING	WINTER MAINTENANCE	OTHER MAINTENANCE
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\$146,316

\$121,894

\$225,405



EMMETT TOWNSHIP

CONTINUED

EMMETT TOWNSHIP LOCAL ROAD PROJECT

The Emmett Township Local Road Project was approved by voters in 2019 to repave the almost 75 miles of local roads in Emmett Township. The project began in 2020 and would last three years. The total cost of the project was approximately \$24 million, which was split between Emmett Township and the Calhoun County Road Department.

2021 was a big year for the Emmett Township Local Road Project, with over 30 miles repaved. By the end of 2021, the majority of roads were complete, with only 11 miles remaining for 2022.



LOCAL ROAD PROJECTS

3-YEAR PROJECT

LOCAL

PROJECT LOCATION	WORK PERFORMED	MILES	COST
Bowers: N Raymond Rd to Funston	CSC 3.0"	0.398	\$98,284
Bowers: Funston to Dead End	Regravel 5"	0.131	\$11,959
Cohasset: N Raymond Rd to Funston	CSC 3.0"	0.379	\$99,632
Electric: N Raymond Rd to Funston	CSC 3.0"	0.408	\$128,739
Funston: Theodore to Glen	CSC 3.0"	0.282	\$106,114
Funston: Theodore to Dead End	CSC 3.0"	0.074	\$11,762
Glen Dr: Funston to Dead End	CSC 3.0"	0.126	\$24,773
Heath: Funston to Dead End	CSC 3.0"	0.256	\$84,989
Holt: Electric to Theodore	CSC 3.0"	0.225	\$65,723
Sprague: Theodore to Electric	CSC 3.0"	0.227	\$79,837
Theodore: Sprague to Funston	CSC 3.0"	0.262	\$87,509



EMMETT TOWNSHIP

CONTINUED



EMMETT TOWNSHIP

CONTINUED

LOCAL

PROJECT LOCATION	WORK PERFORMED	MILES	COST
Wildwood: N Raymond Rd to Funston	CSC 3.0"	0.387	\$115,383
Corcoran: N Raymond Rd to Hayes	CSC 3.5"	0.082	\$26,435
Culbertson, N Raymond Rd to Hayes	CSC 3.5"	0.078	\$27,186
Dick: Glynlee to Hayes	CSC 3.5"	0.055	\$13,074
Glynlee: Hayes to Dead End	CSC 3.5"	0.129	\$25,604
Hayes: Sovereign to Glynlee	CSC 3.5"	0.307	\$72,347
Hodgson: N Raymond Rd to Hayes	CSC 3.5"	0.080	\$22,550
McGrath: Pl: N Raymond Rd to Hayes	CSC 3.5"	0.080	\$26,746
Sovereign: N Raymond Rd to Hayes	CSC 3.5"	0.080	\$25,455
Aberdeen: Livingston to Huyck	CSC 3.0"	0.174	\$46,352
Jameson: N Raymond Rd to Powell	CSC 3.0"	0.523	\$151,351
Hammond: Westbrook to Private Road	CSC 3.0"	0.149	\$34,907
Hawthorne: Livingston to Huyck	CSC 3.0"	0.175	\$51,285
Hilliard: Jameson to Dead End	CSC 3.0"	0.060	\$12,046
Hilliard: Vass to Westbrook	CSC 3.0"	0.060	\$17,699
Huyck: Heath to Aberdeen	CSC 3.0"	0.303	\$83,398
Livingston: Westbrook to Hawthorne	CSC 3.0"	0.238	\$60,411
Niepoth: Hawthorne to Westbrook	CSC 3.0"	0.237	\$58,600
Vass: Jameson to Powell	CSC 3.0"	0.417	\$112,737
Beachside: C Dr N to Onagon Beach	HMA 2.5"	0.272	\$52,220
Manor Dr: Woodland Beach	HMA 2.0"	0.359	\$56,498
Middle Ln: Onagon Beach to Dead End	HMA 1.5"	0.080	\$15,710
North Ln: Woodland Beach to Dead End	HMA 2.0"	0.050	\$12,093
Onagon Beach: Beachside to Woodland Beach	HMA 1.5"	0.157	\$29,959
Woodland Beach E: Woodland Beach to Dead End	HMA 2.0"	0.282	\$61,090
Woodland Beach N: Woodland Beach to Dead End	HMA 1.5"	0.029	\$4,313

LOCAL

PROJECT LOCATION	WORK PERFORMED	MILES	COST
Woodland Beach S: C Dr N to Woodland Beach	HMA 2.5"	0.391	\$98,813
Woodland Beach W: Woodland Beach to Dead End	HMA 1.5"	0.038	\$13,178
Woodland Park: Woodland Beach	Chip Seal	0.086	\$8,809
Monroe Beach: Woodland Beach to Beachside	HMA 1.5"	0.190	\$48,448
Woodland Beach W: Woodland Beach to Dead End	HMA 1.5"	0.058	\$4,351
Woodland Park: Woodland Beach	Chip Seal	0.053	\$4,413
Cornwell St: Cliff St to Michigan Ave	CSC 3.0"	0.107	\$80,045
Lourim Ct: BC City Limits to Cornwell St	CSC 3.0"	0.068	\$29,319
Alden Ave E: Jericho to Marjorie	CMHO 3.5"	0.314	\$89,982
Illinois St: Richmond to BC City Limits	CMHO 3.5"	0.200	\$72,462
Richmond: Jericho to Euclid	CSC 3.5"	0.124	\$32,224
Euclid: Columbia Ave to BC City Limits	CMHO 3.5"	0.233	\$75,506
Nelson: Columbia Ave to BC City Limits	CMHO 3.5"	0.160	\$89,636
Marjorie: Columbia Ave to BC City Limits	CMHO 3.5"	0.123	\$45,849
Inn Rd: Columbia Ave to BC City Limits	CMHO 3.5"	0.084	\$32,926
Alden Ave W: Main St to Taft	CSC 3.5"	0.214	\$115,396
Taft: Bonita to BC City Limits	CSC 3.5"	0.157	\$58,523
Enwood: Main St to Taft	CSC 3.5"	0.214	\$95,501
Bonita: Main St to Taft	CSC 3.5"	0.214	\$65,152
S Shore: Columbia Ave to Auburn St	Chip Seal	0.083	\$20,668
S Shore: Auburn St to Dead End	Chip Seal	0.121	\$1,713
Auburn St: Columbia Ave to S Shore	Chip Seal	0.058	\$5,243
G Dr N: S Wattles Rd to Dead End	CSC 3.5"	0.224	\$69,796
G Dr N: S Raymond Rd to E River Rd	CSC 3.5"	0.844	\$409,286
G Dr N: E River Rd to 9.5 Mile Rd	HMA 2.0"	0.718	\$158,326
E River Rd: S Raymond Rd to G Dr N	HMA 2.0"	1.139	\$216,127



EMMETT TOWNSHIP

CONTINUED

PROJECT LOCATION	WORK PERFORMED	MILES	COST
Sherry Ln: E Dr N to Dead End	CSC 3.5"	0.199	\$73,718
Tammy Ann Cir: Sherry Ln to Dead End	CSC 3.5"	0.058	\$29,684
Grand Castle Ter: E Dr N to Dead End	CMHO 3.5"	0.293	\$139,682
Parkshore Dr: E Dr N to Dead End	CMHO 3.5"	0.410	\$175,500
Glen View Ct: E Dr N to Grand Castle Ter	CMHO 3.5"	0.099	\$44,777
Torrey Ln: Parkshore Dr to Grand Castle Ter	CMHO 3.5"	0.103	\$38,166
Council Crest Ln: Council Crest Cir to Dead End	CMHO 3.5"	0.261	\$37,930
Council Crest Cir: E Dr N	CMHO 3.5"	0.581	\$194,682
Kistler Dr: Beadle Lake Rd	CSC 3.5"	0.406	\$122,943
Kistler Rd: Kistler Dr to Beadle Lake Dr	CSC 3.5"	0.619	\$240,464
Beadle Lake Dr: Kistler Rd to E Dr N	CSC 3.5"	0.400	\$148,916
Beaver Ridge: Beadle Lake Rd to Dead End	CSC 3.5"	0.319	\$100,454
Trappers Ridge: Beadle Lake Rd to Dead End	CSC 3.5"	0.346	\$114,808
Hoyt: B Dr N to Wyncrest	HMA 1.5"	0.146	\$22,394
Wyncrest: Hoyt to Dead End	HMA 1.5"	0.072	\$11,965
Creekside: B Dr N to Dead End	CSC 3.5"	0.213	\$63,557
W Armour: B Dr N to Private Road	CSC 3.5"	0.293	\$58,148
Harper Crossing: B Dr N to Dead End	CSC 3.5"	0.282	\$98,083
Dundee: 8 1/2 Mile Rd	CSC 3.5"	0.485	\$150,529
Robins Ln: 8 1/2 Mile to Dead End	CSC 3.5"	0.205	\$76,525
Allison Ln: 8 1/2 Mile to Dead End	CSC 3.5"	0.226	\$80,816
Berry Hill: B Dr N to Dead End	CSC 3.5"	0.125	\$34,004
Harper Hill: 9 Mile to Dead End	CSC 3.5"	0.207	\$52,682
Singletree Ln: B Dr N	CSC 3.5"	0.460	\$120,611
Southbrook: B Dr N to M-311	CSC 3.5"	0.283	\$84,037
Church St: 12 Mile to Battle Creek St	CSC 3.5"	0.090	\$21,5467

LOCAL

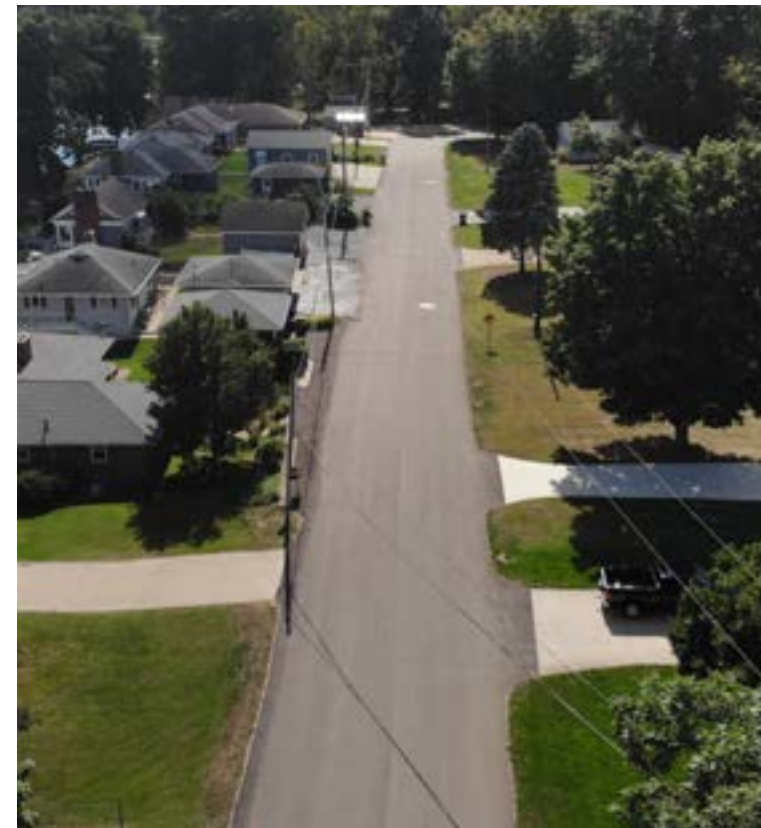


EMMETT TOWNSHIP

CONTINUED

PROJECT LOCATION	WORK PERFORMED	MILES	COST
Battle Creek St: E Dr N to Church St	CSC 3.5"	0.174	\$52,704
E Dr N: Gravel to 12 Mile Rd	CSC 3.5"	0.131	\$43,238
Ackerson Dr: Michigan Ave to Dead End	CSC 3.5"	0.430	\$118,831
E Dr N: Beadle Lake Rd to 9 Mile Rd	CSC 3.5"	1.925	\$825,484
D Dr N: 9 Mile Rd to 11 Mile Rd	CSC 3.5"	2.052	\$967,752
E Dr N: M-311 to Gravel	CSC 3.5"	0.049	\$11,408
E Dr N (Gravel): M-311 to Battle Creek St	Regravel 5"	0.981	\$120,123
10 1/2 Mile: D Dr N to Division Dr	Regravel 5"	1.984	\$166,123
8 1/2 Mile: B Dr N to D Dr N	CSC 3.5"	1.003	\$458,011
Division Dr: 9 1/2 Mile Rd to 10 1/2 Mile Rd	Regravel 5"	0.286	\$12,044
TOTAL		30.022	\$9,068,800

LOCAL





FREDONIA TOWNSHIP

PRIMARY MILES | **24.79**

LOCAL MILES | **34.60**

ROAD PROJECTS

2021

*shared with Eckford

LOCAL PRIMARY

PROJECT LOCATION	WORK PERFORMED	MILES	COST
13 Mile Rd: H Dr S to F Dr S	Chip seal	1.287	\$21,455
12 Mile Rd: C Dr S to B Dr S	Chip seal	0.522	\$18,605
TOTAL		1.809	\$40,060

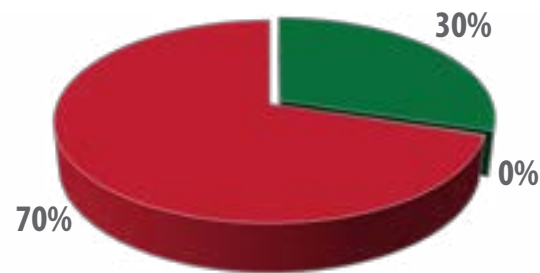
PROJECT LOCATION	WORK PERFORMED	MILES	COST
18 Mile Rd: D Dr S to F Dr S	Underseal 2.0"	1.000	\$150,343*
Lyon Lake Rd near Old 27	Chip seal	1.751	\$41,527
TOTAL		2.751	\$191,870

ROAD CONDITIONS

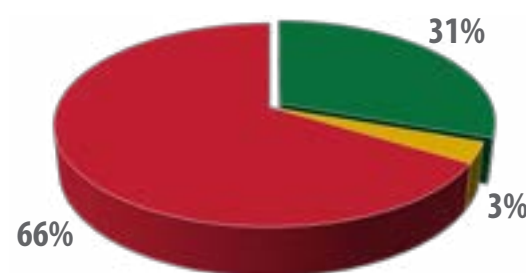
PASER RATINGS

GOOD ≥ 8
FAIR = 7, 6, 5
POOR ≤ 4

Based on September 2022 PASER data.



PRIMARY ROADS



LOCAL ROADS

MAINTENANCE COSTS

PATCHING	WINTER MAINTENANCE	OTHER MAINTENANCE
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\$179,404

\$58,115

\$118,821



HOMER TOWNSHIP

PRIMARY MILES | **23.39**

LOCAL MILES | **43.02**

ROAD PROJECTS

2021

PRIMARY

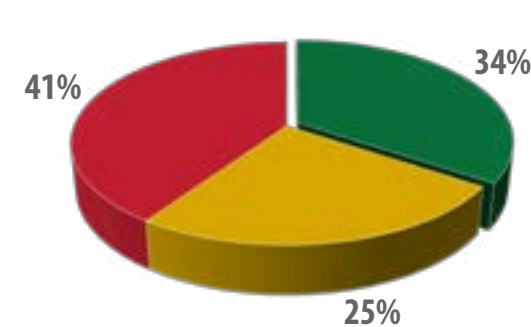
PROJECT LOCATION	WORK PERFORMED	MILES	COST
25 1/2 Mile Rd: M-60 to L Dr S	Chip seal	0.895	\$23,362
TOTAL		0.895	\$23,362

ROAD CONDITIONS

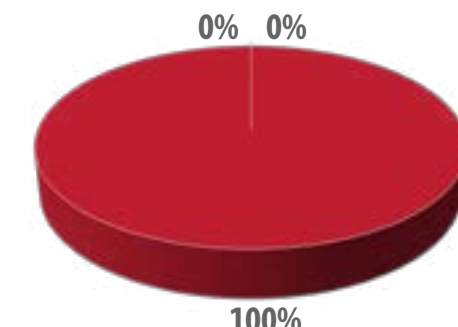
PASER RATINGS

GOOD ≥ 8
FAIR = 7, 6, 5
POOR ≤ 4

Based on September 2022 PASER data.



PRIMARY ROADS



LOCAL ROADS

MAINTENANCE COSTS

PATCHING	WINTER MAINTENANCE	OTHER MAINTENANCE
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\$382,345

\$34,972

\$109,728



LEE TOWNSHIP

PRIMARY MILES | **33.30**

LOCAL MILES | **34.06**

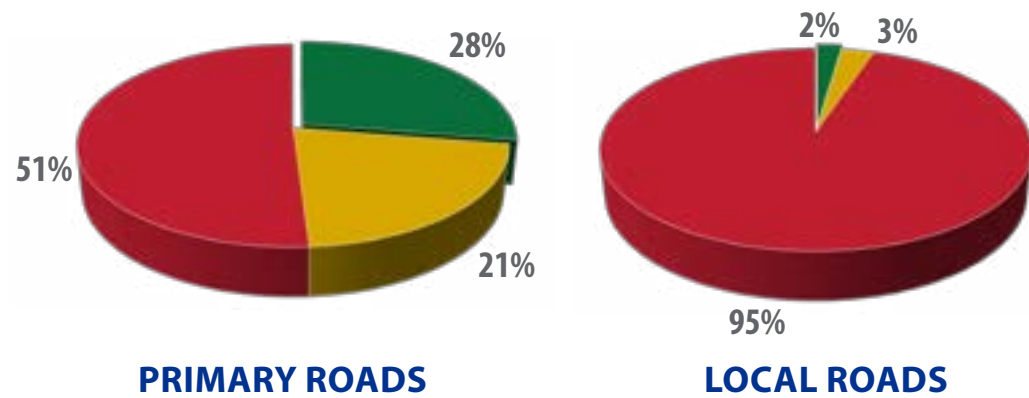
ROAD PROJECTS

2021

PRIMARY

PROJECT LOCATION	WORK PERFORMED	MILES	COST
23 Mile Rd: T Dr N to V Dr N	Chip seal	1.027	\$34,255
TOTAL		1.027	\$34,255

ROAD CONDITIONS



PASER RATINGS

GOOD ≥ 8
FAIR = 7, 6, 5
POOR ≤ 4

Based on September 2022 PASER data.

MAINTENANCE COSTS

PATCHING	WINTER MAINTENANCE	OTHER MAINTENANCE
\$215,598	\$48,726	\$58,703



LEROY TOWNSHIP

PRIMARY MILES | **29.91**

LOCAL MILES | **40.45**

ROAD PROJECTS

2021

*Federal Aid Project

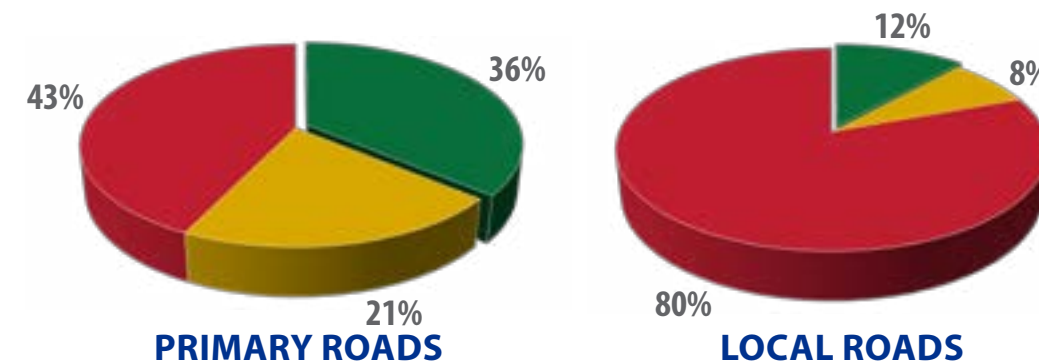
PRIMARY

PROJECT LOCATION	WORK PERFORMED	MILES	COST
Capital Ave: B Dr S to BC City Limits	CIR 2.0" and widen	0.729	\$385,704*
B Dr S: 3 1/2 Mile Rd to 2 Mile Rd	Chip seal	1.614	\$28,623
K Dr S: 1/2 Mile Rd to M-66	Chip seal	4.02	\$101,417
TOTAL		6.363	\$515,744

LOCAL

PROJECT LOCATION	WORK PERFORMED	MILES	COST
2 1/2 Mile Rd: K Dr S to H Dr S	Crush and shape 3.5"	1.51	\$413,904
5 Mile Rd: M-66 to I Dr S	Chip seal/skip pave	2.02	\$102,023
TOTAL		3.53	\$515,927

ROAD CONDITIONS



PASER RATINGS

GOOD ≥ 8
FAIR = 7, 6, 5
POOR ≤ 4

Based on September 2022 PASER data.

MAINTENANCE COSTS

PATCHING	WINTER MAINTENANCE	OTHER MAINTENANCE
\$ 380,785	\$87,128	\$16,145



MARENGO TOWNSHIP

PRIMARY MILES | **26.26**

LOCAL MILES | **40.31**

ROAD PROJECTS

PRIMARY

PROJECT LOCATION	WORK PERFORMED	MILES	COST
Partello Rd: 20 Mile Rd and 22 1/2 Mile Rd	Crush and shape 3.5" and widen	2.453	\$766,393
TOTAL		2.453	\$766,393

LOCAL

PROJECT LOCATION	WORK PERFORMED	MILES	COST
20 Mile Rd: Michigan Ave to B Dr N	Chip seal	1.213	\$24,488
20 Mile Rd: I-94 to F Dr N	Chip seal	0.531	\$15,546
TOTAL		1.744	\$40,034

ROAD CONDITIONS

PASER RATINGS

GOOD ≥ 8

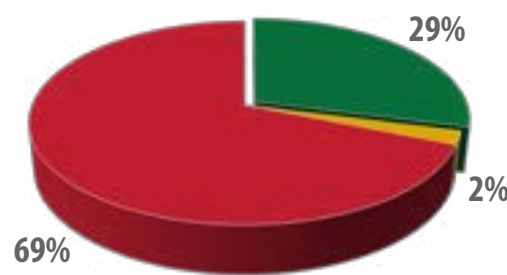
FAIR = 7, 6, 5

POOR ≤ 4

Based on September 2022 PASER data.



PRIMARY ROADS



LOCAL ROADS

MAINTENANCE COSTS

PATCHING	WINTER MAINTENANCE	OTHER MAINTENANCE
\$263,708	\$62,990	\$94,545



MARSHALL TOWNSHIP

PRIMARY MILES | **28.85**

LOCAL MILES | **39.49**

ROAD PROJECTS

*shared with Convis Twp

PRIMARY

PROJECT LOCATION	WORK PERFORMED	MILES	COST
G Dr N: Old 27 to 18 Mile Rd	Crush and shape 2.0"	1.009	\$182,666
15 Mile Rd: Verona Rd to H Dr N	Chip seal	1.749	\$29,272
TOTAL		2.758	\$211,938

LOCAL

PROJECT LOCATION	WORK PERFORMED	MILES	COST
L Dr N: North Township Line	Chip seal	0.331	\$3,921
L Dr N: 16 Mile to North Township Line	Chip Seal	0.199	\$5,138
L Dr N: Old 27 to 18 Mile Rd	Chip seal	0.695	\$16,104*
L Dr N: Old 27 to 16 Mile Rd	Skip pave and chip seal	1.246	\$36,987*
L Dr N: 12 Mile Rd to 14 Mile Rd	Chip seal	1.658	\$42,476*
Tau Dr: 15 Mile Rd to 15 1/2 Mile Rd	Chip seal	0.498	\$17,248
TOTAL		4.627	\$121,874

ROAD CONDITIONS

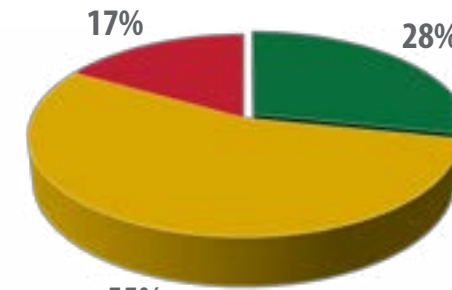
PASER RATINGS

GOOD ≥ 8

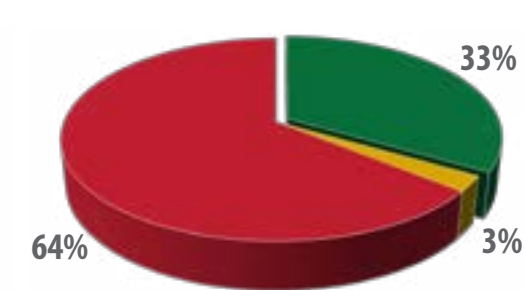
FAIR = 7, 6, 5

POOR ≤ 4

Based on September 2022 PASER data.



PRIMARY ROADS



LOCAL ROADS

MAINTENANCE COSTS

PATCHING	WINTER MAINTENANCE	OTHER MAINTENANCE
\$83,451	\$61,152	\$305,527



NEWTON TOWNSHIP

PRIMARY MILES | **22.41**

LOCAL MILES | **45.66**

ROAD PROJECTS

2021 - NONE COMPLETED

ROAD CONDITIONS

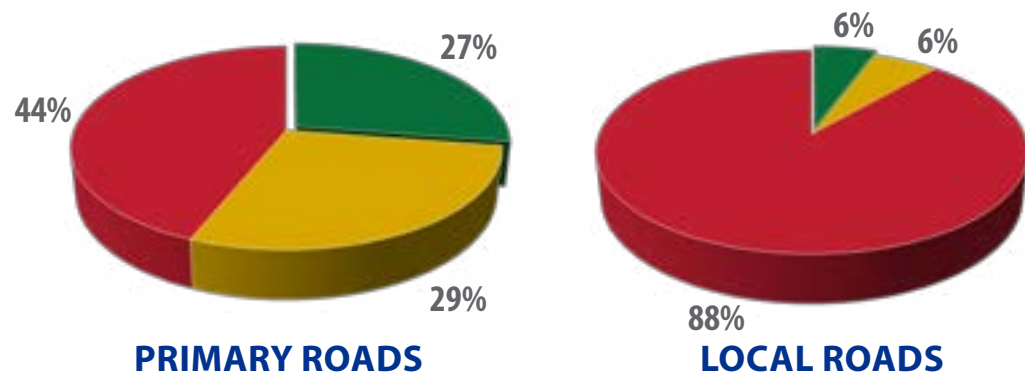
PASER RATINGS

GOOD ≥ 8

FAIR = 7, 6, 5

POOR ≤ 4

Based on September 2022 PASER data.



PENNFIELD TOWNSHIP

PRIMARY MILES | **24.80**

LOCAL MILES | **63.96**

ROAD PROJECTS

2021

*shared with Convis

PRIMARY
LOCAL

PROJECT LOCATION	WORK PERFORMED	MILES	COST
Pine Lake Rd: Bellevue Rd to Clear Lake Rd	Chip seal	1.109	\$32,879
11 Mile Rd: Bellevue Rd to O Dr N	Chip seal	0.873	\$32,120
TOTAL		1.982	\$64,999

PROJECT LOCATION	WORK PERFORMED	MILES	COST
12 Mile Rd: West Township Line to L Dr N	Chip seal	1.621	\$22,598*
12 Mile Rd: Lynch Rd to North Township Line	Chip seal	1.197	\$29,000*
TOTAL		2.818	\$51,598

ROAD CONDITIONS

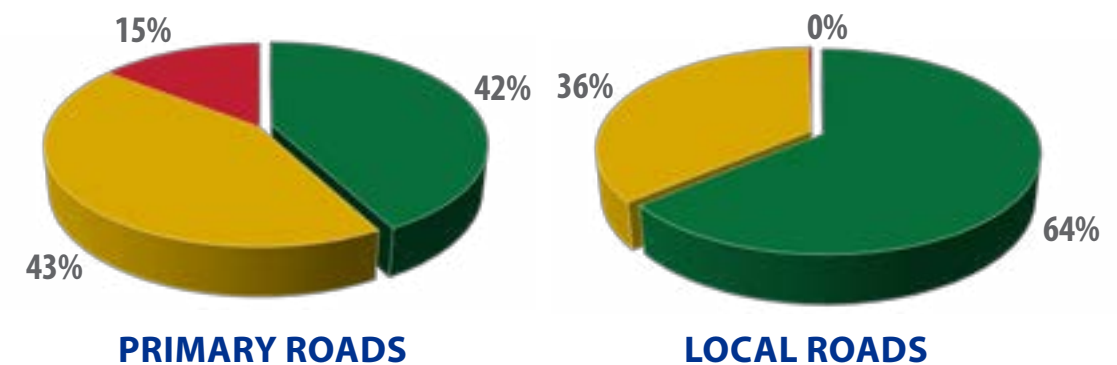
PASER RATINGS

GOOD ≥ 8

FAIR = 7, 6, 5

POOR ≤ 4

Based on September 2022 PASER data.



MAINTENANCE COSTS

PATCHING	WINTER MAINTENANCE	OTHER MAINTENANCE
\$311,701	\$63,630	\$113,229



MAINTENANCE COSTS

PATCHING	WINTER MAINTENANCE	OTHER MAINTENANCE
\$ 34,644	\$143,655	\$ 225,180



SHERIDAN TOWNSHIP

PRIMARY MILES | **21.16**

LOCAL MILES | **34.19**

ROAD PROJECTS

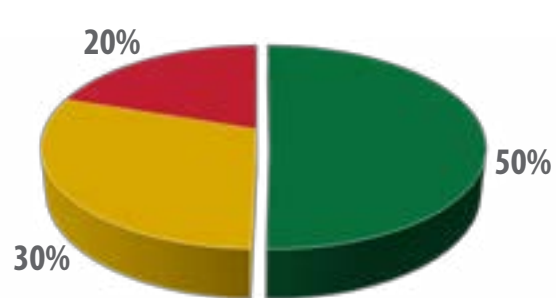
2021 - NONE COMPLETED

ROAD CONDITIONS

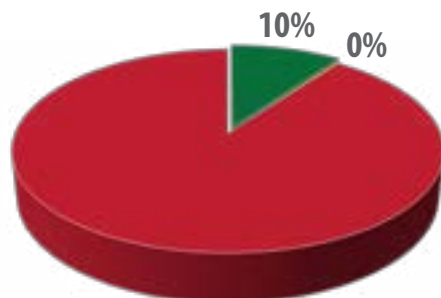
PASER RATINGS

GOOD ≥ 8
FAIR = 7, 6, 5
POOR ≤ 4

Based on September 2022 PASER data.



PRIMARY ROADS



LOCAL ROADS

MAINTENANCE COSTS

PATCHING	WINTER MAINTENANCE	OTHER MAINTENANCE
\$147,041	\$33,636	\$68,787



TEKONSHA TOWNSHIP

PRIMARY MILES | **24.55**

LOCAL MILES | **38.68**

ROAD PROJECTS

2021

PRIMARY

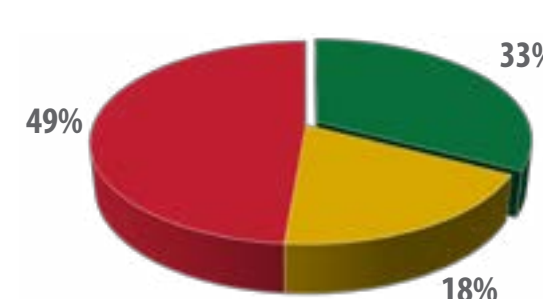
PROJECT LOCATION	WORK PERFORMED	MILES	COST
E Jackson Rd: Village Limits to M-60	Chip seal	2.299	\$33,302
W Jackson Rd: M-60 to Village Limits	Chip seal	1.719	\$60,992
TOTAL		4.018	\$94,294

ROAD CONDITIONS

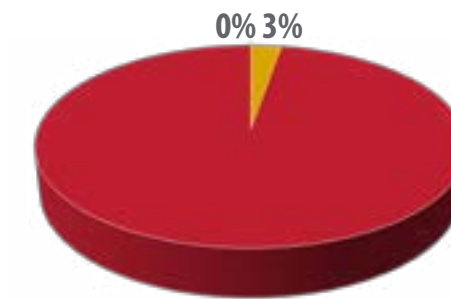
PASER RATINGS

GOOD ≥ 8
FAIR = 7, 6, 5
POOR ≤ 4

Based on September 2022 PASER data.



PRIMARY ROADS



LOCAL ROADS

MAINTENANCE COSTS

PATCHING	WINTER MAINTENANCE	OTHER MAINTENANCE
\$133,943	\$40,994	\$107,015



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