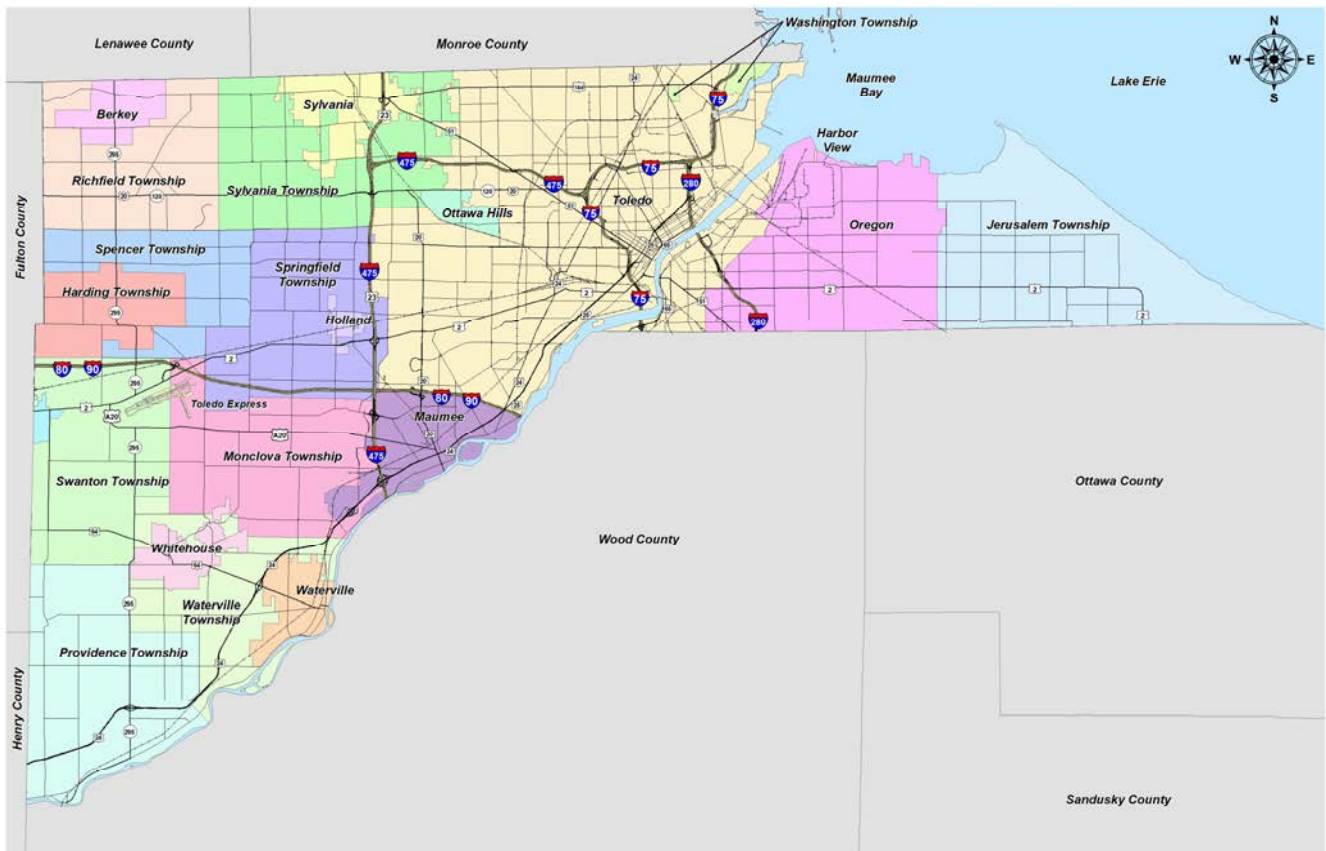


LUCAS COUNTY OHIO

Mike Pniewski, P.E., P.S.
Lucas County Engineer



LUCAS COUNTY ENGINEER'S 2022 ANNUAL REPORT





LUCAS COUNTY ENGINEER

Mike Pniewski, P.E., P.S.



<u>TABLE OF CONTENTS</u>	
Front Cover	1
Table of Contents	2
Engineer’s Message	3
Responsibilities of the Engineer	4
Current Conditions-Highlighted Project Constructed in 2022	5-6
County Road Projects	7-9
County Stormwater Projects	10-11
County Stormwater Petitions	12
County Stormwater Activities	13
Construction Summary of County Projects for 2022	14
Construction Summary of Township Projects for 2022	15
Expenses, Revenue and C.I.P.	16-17
License/Gasoline Tax Revenue History and Projections	18
Lucas County Pavement Information	19
Lucas County Bridge Information	20
Lucas County Culvert Information	21
Lucas County Drainage Engineering Information	22
Significant Projects Planned	23
Office Updates	24
New Employees of 2022—2022 Service Awards	25-27
Locating History—A History of Pictures of the Lucas County Engineer’s Office	28
Staff Directory & Office Locations	29

Engineer's Message

To the Honorable Board of County Commissioners and the Citizens of Lucas County:

I am honored and privileged to submit the 2022 Report of the Lucas County Engineer which outlines the activities of the Office of the Lucas County Engineer during Calendar Year 2022. The past year brought successes as well as challenges. While the initial results of the Federal Bipartisan Infrastructure Law indicate our Region will see additional funds for projects, it also provides additional challenges as local funds must also be made available to match the Federal monies. In addition, finding and developing the engineering and construction workforce necessary to design and build the improvements continues to be a challenge.

The past year brought accomplishments that we can build on for a prosperous future including the following:

- Expansion of I-475 from Central Avenue to Airport Highway was completed including a new Dorr Street Interchange.
- Initiation of the next phase of the I-475 widening and improvements including the construction of a new interchange at US-20A to facilitate future growth for the Kranz Toledo Express Airport, Maumee and Monclova Township.
- Completion of four new roundabout intersections which will improve safety and traffic capacity.
- Implementation of the Cityworks permitting management system improving permit processing workflows and provide transparency and efficiency in permit reviews.
- Completion of revision to the Lucas County Stormwater Management Plan which guides the Office's efforts to comply with the requirements of the County's Stormwater Permit improving water quality.
- Completion of Two-Stage Ditch Projects on Van Fleet, Morrison and Zink-Heldman Ditches providing an additional four miles of two-stage channels.
- Receipt of H2Ohio Grant Funding for design and construction of three miles of Two-Stage Ditch channels on Ford Ditch in Richfield Township and Bench-Hagerman Ditch in Swanton Township.

These ditch improvements better manage flow during significant storms while improving water quality. Our expertise in procuring state and federal grant funding and collaborating with neighboring agencies has been key to our success in maintaining and expanding our system.

As discussed in previous Annual Reports, the current system of funding provided by the Ohio General Assembly through Gas User and Permissive License Plate Fees is not keeping up with the increased costs to keep our roadways in good condition in the future. Without grants, our important work to maintain and keep our transportation network competitive must be paid with flat and reducing revenue. The passage and implementation of the Bipartisan Infrastructure Law has certainly opened up another funding source to improve our roadways. However, obtaining these funds requires a matching contribution which uses funding allocated for other priorities of the Office.

Over the past year, the purchasing power of our available funds has eroded due to higher prices, longer lead times, and a shortage of skilled trades. Material prices and labor costs in northwest Ohio and across the state are continuing to increase at a rate greater than the rate of inflation, while our revenue does not have any way to keep pace with these inflationary pressures. As material and labor costs continue to significantly rise, it will become more difficult to sustain the level of service and maintenance people expect. Solving this issue will become difficult in the years to come if the trend of increased prices and flat or reduced revenue continues. Our staff will continue to give our best serving the citizens of Lucas County in providing a functional and efficient transportation and drainage system.

This report provides an overview of our activities in 2022 as well as our goals, projects, and challenges for the future. We provide our most up to date information through our website as well as in social media. Thanks again for the privilege to serve the citizens of Lucas County.

Mike Pniewski, P.E., P.S.
Lucas County Engineer



RESPONSIBILITIES OF THE LUCAS COUNTY ENGINEER'S OFFICE

1. Inspection, maintenance, repair, widening, resurfacing and reconstruction of pavements and storm drainage for the 287 miles of Lucas County maintained roads. Road maintenance duties include traffic control, safety projects, mowing, snow removal, bridge/culvert maintenance, berming, pavement repair, roadside ditch and storm drainage improvements and similar functions.
2. Maintaining public surveying records, bridge/culvert data, property tax maps and the County and Township's road, culvert and drainage records.
3. Advising and providing engineering/surveying services to the eleven (11) Townships in regard to maintenance, construction and repair of the 401 miles of Township maintained roads.
4. Overseeing design and construction of new subdivisions and reviewing site plans and permits for development projects in the Townships.
5. Inspection, repair, reconstruction and replacement of the 168 bridges on the County and Township roadway systems, plus 14 bridges inside municipalities on the extension of county roads.
6. Maintaining and repairing ditches and retention areas that have been petitioned by affected property owners.
7. Administering District 12's (Lucas County) Program for the Ohio Public Works Commission to implement the State Capital Improvement Program, and the Transportation Improvement Program.
8. Participating by cooperative agreements, in certain road and bridge projects with the Townships, Cities and Villages of the County.
9. Managing the Lucas County Municipal Separate Storm Sewer System (MS4) permit, including design and implementation of stormwater capital improvement projects, construction, stormwater and sedimentation control inspection and inspection of post-construction best management practices.

2022 ANNUAL REPORT

To: The Honorable Board of County Commissioners & the Citizens of Lucas County

The purpose of this report is to discuss the current condition of our highway system, significant projects completed, underway, and planned, and to discuss the long term outlook and needs. This report is required under the O.R.C. (Ohio Revised Code 5543.02).

CURRENT CONDITIONS

Currently, more than half of the 286.8 centerline miles of county maintained roads have paved shoulders, 2 to 10 feet wide on each side, and many of the deeper roadside ditches have been enclosed for additional safety. Additional lanes have been added to accommodate increased traffic, and we currently maintain 620± lane miles. Most all of the pavements are in relatively good condition with very few potholes or other forms of significant distress. Out of all of our bridges, only one is posted for a reduced load limit. Many improvements have been made to our traffic signals and all have energy efficient LED bulbs with battery backup for power outages. Most of our signing has been recently upgraded and is in very good condition. Numerous improvements at intersections have been made over the past fifteen years resulting in minimal delay at most intersections. More improvements are needed, but overall, the system is in relatively good condition.

Highlighted Projects Constructed in 2022

Berkey Southern Road (S.R. 295) & Neapolis Waterville Road Roundabout

A safety funded project to construct a roundabout at the intersection of S.R. 295 (Berkey Southern Road) and Neapolis Waterville Road. The project included new asphalt pavement, concrete pavement, concrete curbs and gutters, drainage improvements, earthwork, pavement markings and signing.



Before

Total Project Cost

Federal: \$ 850,354.50

Lucas County Engineer: \$ 230,555.40

Total Cost: \$ 1,080,909.90



Looking North



Looking West

After

Highlighted Projects Constructed in 2022 (cont.)

Monclova Road & Weckerly Road Roundabout

This project involved the installation of a modern, single lane roundabout. The project included new asphalt pavement, concrete pavement, concrete curbs and gutters, drainage improvements, earthwork, pavement markings and signing.



Before



After

Total Project Cost

Federal: \$ 586,260.00

OPWC: \$ 328,000.00

Lucas County Engineer: \$ 81,980.22

Total Cost: \$ 996,240.22

Brint Road & Kilburn Road Roundabout

This project involved the installation of a modern, single lane roundabout. The project included new asphalt pavement, concrete pavement, concrete curbs and gutters, drainage improvements, earthwork, pavement markings and signing.



Before



After

Total Project Cost

Federal: \$ 771,001.90

OPWC: \$ 283,779.65

Lucas County Engineer: \$ 127,884.66

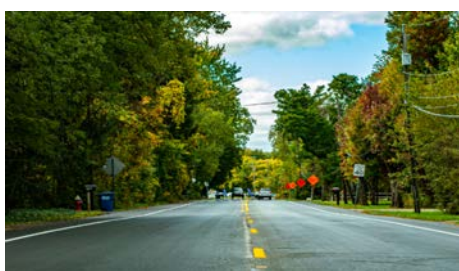
Total Cost: \$ 1,182,665.21

Holland Sylvania Road (Perrysburg Holland Road to Merger Drive)

The Holland Sylvania Road project involved milling and resurfacing of the existing asphalt pavement, including pavement repairs, pavement markings and other related work.



Before



After

Total Project Cost

Federal: \$ 400,000.00

OPWC: \$ 470,000.00

Lucas County Engineer: \$ 370,466.14

Other: \$ 227,477.75

Total Cost: \$ 1,467,942.89

County Road Projects

2022 Lucas Co. OPWC Resurfacing Phase 1— 4.12 mi.

- Centennial Road (C.R. #69) — Deerpointe Dr. to 0.06 mi. S of Central Ave.
- Sylvania Avenue (C.R. #5) - Fulton Lucas Rd. to S.R. 295 (Berkey Southern Rd.)
- Angola Road (C.R. #32) - 0.41 mi. to 0.14 mi. W of Holland Sylvania Rd. (I-475 overpass to inters. Limit)
- Herr Road (C.R. #41) - S.R. 120/U.S. 20 (Central Ave.) to Sylvania Ave.

Total Project Cost

OPWC: \$ 280,338.77

Lucas County Engineer: \$ 1,238,473.25

Total: \$ 1,418,812.02

Centennial Road



Before



After

Sylvania Avenue



Before



After

Angola Road



Before



After

Herr Road



Before



After

2022 Lucas Co. OPWC Resurfacing Phase 2— 2.21 mi.

- Crissey Road (C.R. #65) — S.R. 2 (Airport Hwy.) to Geiser Rd.
- Garden Road (C.R. #84) - Albon Rd. to Gun Rd.
- Garden Road (C.R. #84) - Gunn Rd. to 0.12 mi. W of Holloway Rd.
- Holloway Road (C.R. #98) - 0.14 mi. N of Garden Rd. to S.R. 2 (Airport Hwy.)

Total Project Cost

OPWC: \$ 316,613.36

Lucas County Engineer: \$ 1,057,008.41

Total: \$ 1,373,620.77

Crissey Road



Before



After

Garden Road



Before



After

Garden Road



Before



After

Holloway Road



Before



After

2022 O.P.W.C. Resurfacing Project, Phase 3 — 2.92 mi.

- Weckerly Road (C.R. #120) - Eber Rd. to Stitt Rd.
- River Road (C.R. #1684) - City of Waterville Limit to South Jerome Rd.

Total Project Cost

OPWC: \$ 342,363

Lucas County Engineer: \$ 608,131

Total Cost: \$ 950,493

Weckerly Road



Before



After

River Road



Before



After

2022 Annual Thin Overlay — 5.24 mi.

- Crissey Road (C.R. #65) - Frankfort Rd. to Dorr St.
- Dutch Road (C.R. #133) - 0.30 mi. E of Waterville Monclova Rd. to 0.16 mi. E of Choctaw Dr.
- Hill Avenue (C.R. #30) - Centennial Rd. to 0.16 mi. E of King Rd.

Total Project Cost

Lucas County Engineer: \$ 811,423.90

Crissey Road



Before



After

Dutch Road



Before



After

Hill Avenue



Before



After

2022 Annual Thin Overlay Program (cont.) — 5.24 mi.

- King Road (C.R. #71) - 0.11 mi. S of Hill Ave. to 0.13 mi. N of Hill Ave.
- King Road (C.R. #71) - Wicklow Woods Dr. to 0.10 mi. S of Brint Rd.
- Nebraska Avenue (C.R. #26) - 0.08 mi. W of McCord Rd. to McCord Rd.
- Old State Line Road (C.R. #34) - S.R. 295 (Berkey Southern Rd.) to Schwamberger Rd.
- Sylvania Avenue (C.R. #5) - 0.05 mi. E of Mitchaw Rd. to 0.68 mi. E of Herr Rd.

Total Project Cost

Lucas County Engineer: \$ 811,423.90

King Road



Before



After

King Road



Before



After

Nebraska Avenue



Before



After

Old State Line Road



Before



After

Sylvania Avenue



Before



After

County Stormwater Projects

Van Fleet Ditch Two-Stage Restoration

This project was completed in September 2022 and included the installation of a two-stage channel that included 6,336 linear feet of two-stage stream channel and floodplain, 6 acres enhanced riparian area, and an adjacent 10-foot buffer strip. The project was partially funded by GLRI and Ohio EPA 319 grants. Future maintenance of the project will be performed under Ditch Petition #1049.



Before



After

Total Project Cost

GLRI: \$ 734,548
Ohio EPA: \$ 295,903
Lucas County Engineer: \$ 31,752

Total Cost: \$ 1,062,203

Zink/Heldman Ditch Stream Restoration

This project, which was completed in May 2022, involved the installation of 1,600 linear feet of stream two-stage channel and floodplain, 10 in-stream habitat structures, 1.5 acres of native grasses in riparian areas, culvert replacements to improve streamflow, and removed/treated 1.5 acres of invasive species. The project was partially funded by an Ohio EPA Federal Section 319(h) Grant. Future maintenance of the project will be performed under Ditch Petition #1047.



Before



After

Total Project Cost

Ohio EPA: \$ 300,000
Lucas County Engineer: \$ 588,926

Total Cost: \$ 888,926

County Stormwater Projects (cont.)

Fallen Timbers Fairways, Plat 6 Drainage Repairs

In late 2021, Lucas County Engineer staff responded to drainage complaints regarding standing water and poor conveyance in a detention basin and the associated downstream storm drain pipes and ditch. After several inspections it was determined that much of the system contained significant deposits of sediment and that the detention basin was constructed too small to accommodate the stormwater runoff inflow. In 2022, the County Engineer prepared plans and supervised construction that included an expansion of the detention basin volume to contain the runoff from a 100-year storm event and an improved basin outlet, the removal of sediment from the storm drain pipes and existing ditch, a restoration of the ditch cross section, and the replacement of damaged and buried storm drain pipes. The three phases of construction were complete in late 2022 and a portion of the project costs are being assessed under the Ohio Ditch Petition process over a ten-year period.

Pre-Construction



During Construction



Post-Construction



Fallen Timbers Fairways - Retention Pond
March 2021

Fallen Timbers Fairways
January 2022

Fallen Timbers Fairways
November 2022



Total Project Cost

Phase 1: \$ 39,216

Phase 2: \$ 29,730

Phase 3: \$ 268,360

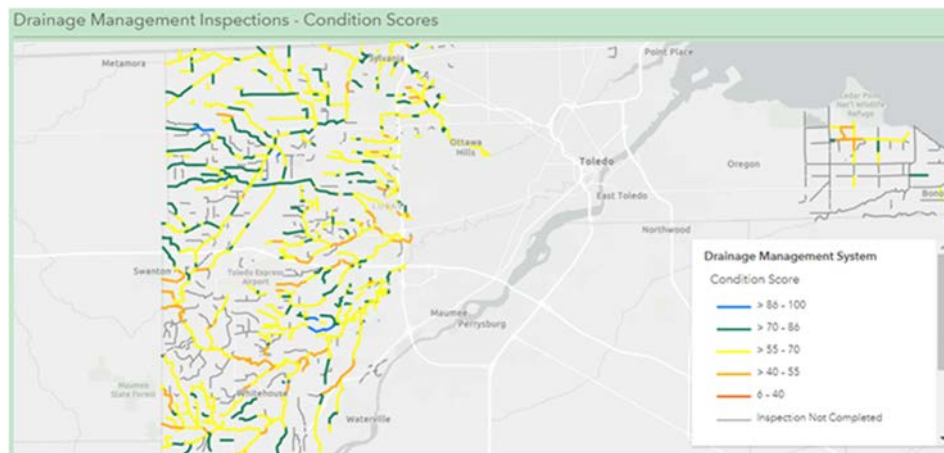
Total Cost: \$ 337,306

Contributors: Jay Mosley and Mike Tatar

County Stormwater Petitions

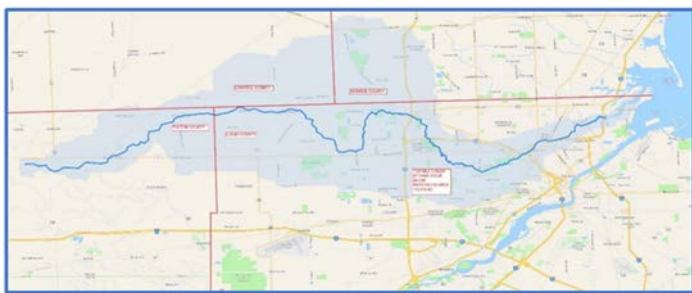
Ten Mile Creek/Ottawa River Watershed Petition Ditch #1053 and Swan Creek Watershed Petition Ditch #1054 Inspections and Project Assessment

The petition ditch process outlined in ORC 6131 allows Lucas, Fulton, and Henry Counties to expend public funds for continued long-term maintenance of private creeks and ditches which provide a public benefit. A petition ditch process was initiated separately for the Tenmile Creek/Ottawa River and Swan Creek Watersheds in 2021. The First Hearings for these petitions were held in November and December of 2021. In 2022, Lucas County Engineer staff completed the visual inspections of the ditch segments in both of the petitions to assess their condition, determine whether the segments are functioning properly, and to identify potential maintenance requirements. Further evaluation, assessment, and prioritization of the results of the ditch segment inspections were completed by the end of 2022. A draft of the petition program summary document was also initiated in 2022.

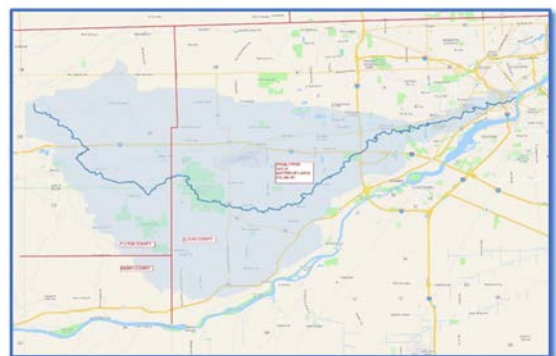


Drainage Management Inspections—Condition Scores Map

Drainage Petition Evaluation, Inspection, Assessment, and Maintenance Program



Tenmile Creek/Ottawa River Watershed Petition #1053



Swan Creek Watershed Petition #1054

County Stormwater Activities



Municipal Separate Storm Sewer System (MS4)

Holding a small MS4 permit from Ohio EPA, Lucas County has requirements set forth in the permit regulations that must be accomplished over a five-year permit term. The required activities include ensuring that pollutants are eliminated or reduced from entering the drainage systems that are County-owned and operated, ultimately draining out in to state and federal bodies of water. The latest permit from Ohio EPA was issued in April of 2021, and the Stormwater department’s achievements for the year 2022 include:



- Estimated amount of 252,057 residents received outreach material and educational opportunities related to stormwater. LCEO ran a pilot mass media campaign to use new technology in spreading educational material. This six month campaign effectively reached 210,736 residents alone.



- The annual Clean Your Streams event hosted by Partners for Clean Streams had 97 participants over seven (7) river miles, where 2,124 pounds of trash and debris was collected. Clear Choices Clean Waters (C3W) received 34 new pledges over the year, with people pledging to conduct pollution control activities. The annual storm drain stenciling had 21 participants, marking slogans 409 storm drains and delivering 717 door hangers for stream awareness to residents. Lucas Soil and Water Conservation District had 750 participants between their rain garden initiative and the native tree and plant sales. A complete overhaul to the formatting of Lucas County’s SWMP occurred in 2022. The new format enabled the SWMP to be a “living” document that will be easily tailored towards future revisions to ensure superior programming in relation to the most current Ohio EPA policies and regulations.

- 1,229 construction site inspections occurred throughout the year. These inspections do not include the numerous drainage and illicit discharge complaints received at our office, which further enforce water quality standards.
- Post-construction best management practices (BMP) at 192 sites throughout the County were performed, ensuring the proper operation of all structures.
- County and Township garages were inspected and the Stormwater Pollution Prevention Plans (SWPPP) were updated for all sites to ensure work environments are safe and mitigate the release of pollutants.



- A total of 9,352 tons of road salt was used for de-icing (**20% less than that used in 2021**), between the County garage and affiliated Township services. Trucks are calibrated annually to ensure accurate usage of road salt and brine, as well as an asset management program that accurately tracks totals of road salt and brine usage. A total of 152,730 gallons of brine were used before winter storms to help offset the usage of road salt, which is only applied in the final two hours of a storm event. Mechanical means of removal is the predominant effort of clearing County and Township roadways.



- Over the 2022 calendar year, 10,374 tons of street sweeping and leaves were collected and disposed of at authorized locations.

Contributor: Matt McFadden

CONSTRUCTION SUMMARY OF COUNTY PROJECTS FOR 2022

Let by County Engineer

PROJECT NAME	PROJECT MANAGER	PROJECT LET DATE	AWARDED CONTRACTOR	AWARDED AMOUNT
2022 OPWC Resurfacing Project, Phase 3	SLR	12/16/21	Gerken Paving	\$ 948,369.11
2022 Guardrail Improvements	DJP	12/16/21	Lake Erie Construction	\$ 81,895.00
Monclova Road & Weckerly Road Intersection Roundabout, PID #107168	KWP	1/25/22	Crestline Paving & Exc.	\$ 764,588.42
2022 OPWC Resurfacing Project, Phase 1	SLR	1/20/22	Gerken Paving	\$ 1,387,629.94
2022 OPWC Resurfacing Project, Phase 2	SLR	1/27/22	The Shelly Co.	\$ 1,292,263.18
S. Berkey-Southern (SR-295) & Neapolis-Waterville (CR-136) Roundabout Project, PID #109640	DJP	2/9/22	Gerken Paving	\$ 944,838.37
Brint Road & Kilburn Road Intersection Roundabout, PID #109794	KPW	2/17/22	E.R. Zeiler Exc.	\$ 969,101.50
2022 Thin Overlay Project	JSP	2/10/22	Gerken Paving	\$ 748,257.75
Kilburn Road, Phase 3 Resurfacing & Shoulder Improvement, PID #109392	KPW	2/23/22	Helms & Sons Exc.	\$ 1,140,596.00
Holland-Sylvania Road Resurfacing Project, PID #111202	DJP	2/24/22	The Shelly Co.	\$ 1,426,695.10
Angola Road & King Road Roundabout & Widening Project, PID #110330	DJP	2/24/22	Miller Bros. Const.	\$ 1,710,352.20
2022 Culvert Program	BAZ	3/2/22	Vernon Nagel, Inc.	\$ 119,386.23
2022 Crack Sealing Program	JSP	3/25/22	Buck Pavement Restoration	\$ 85,080.00
Fallen Timbers Subdivision Drainage Improvement	KPW	7/28/22	State Highway Clearing	\$ 268,360.00
2022 Long Line Painting Program	MRM	9/7/22	Griffin Pavement Striping	\$ 96,315.50
TOTALS				\$ 12,083,728.30

CONSTRUCTION SUMMARY OF TOWNSHIP PROJECTS FOR 2022

Bid by Township—Design and Inspection by County Engineer

PROJECT NAME	PROJECT MANAGER	PROJECT LET DATE	AWARDED CONTRACTOR	AWARDED AMOUNT
Kilburn Road Phase 3 Resurfacing & Shoulder Improvement, PID #109392 (Brint Road to Sylvania Metamora) Bid by LCE (Richfield Township)	KPW	LET 2/23/22	Helms & Sons Exc.	\$ 1,140,596.00
2022 OPWC Road Improvement Project (Carmella Gardens (Plat 2), Pilliod Rd & Heather Glen Subdivision (Plat 1,2,6)) (Springfield Township)	ATP	LET 2/24/22	Bowers Asphalt & Paving Inc.	\$ 678,515.25
2022 Resurfacing Project (Keener Rd, Crimson Hollow Subdivision (Plat 1-4) and Clearwater Subdivision (Plat 1-2)) (Monclova Township)	SLR	LET 3/11/22	Gerken Paving, Inc.	\$ 1,534,646.95
2022 Monclova Twp. Crack Sealing Program (Bid w/ LCE by Monclova Twp) (Monclova Township)	JSP	LET 3/25/22	Buck Pavement Restorations	\$ 41,990.00
2022 OPWC Road Improvement Project (Flanders Rd, Summerfield Rd, Cherrington Rd, Covert Rd, Merce Plat (1&2), Ridgemere Subdivision, Indian Ridge Subdivision, & Robinson Place Subdivision) (Sylvania Township)	ATP	LET 4/1/22	Bowers Asphalt & Paving Inc.	\$ 741,662.42
2022 OPWC Shaffer Road Resurfacing (Harding Township)	ATP	LET 4/8/22	Gerken Paving, Inc.	\$ 193,776.50
2022 Resurfacing Project (Oak Valley Park, Gradwohl, Shetland, Heysler, Woodstream West) (Sylvania Township)	ATP	LET 4/8/22	Bowers Asphalt & Paving Inc.	\$ 606,371.60
2022 Chip Seal Project (Jerusalem Township)	ATP	LET 6/17/22	Unilliance, Inc.	\$ 94,775.60
2022 Parking Lot Resurfacing Project (Police Station, Fire Station and Township Hall) (Sylvania Township)	ATP	LET 5/6/22	Henry W. Bergman	\$ 318,784.00
2022 Long Line Painting Program-Jerusalem Twp Bid by LCE (Jerusalem Township)	MRM	LET 9/7/22	Griffin Pavement Striping, LLC	\$ 6,957.00
2022 Long Line Painting Program-Sylvania Twp Bid by LCE (Sylvania Township)	MRM	LET 9/7/22	Griffin Pavement Striping, LLC	\$ 4,218.00
2022 Long Line Painting Program-Spencer Twp Bid by LCE (Spencer Township)	MRM	LET 9/7/22	Griffin Pavement Striping, LLC	\$ 6,611.25
2022 Long Line Painting Program-Monclova Twp Bid by LCE (Monclova Township)	MRM	LET 9/7/22	Griffin Pavement Striping, LLC	\$ 21,716.25
2022 Long Line Painting Program-Harding Twp Bid by LCE (Harding Township)	MRM	LET 9/7/22	Griffin Pavement Striping, LLC	\$ 765.00
TOTAL				\$ 5,391,385.82

Expenses, Revenue & CIP

Detailed information regarding our Revenue, Expenses & the Capital Improvement Program (CIP) over the past 20 years is provided on pages 12 and 13.

Dedicated Revenue

All dedicated revenue for Lucas County maintained roads and bridges comes from Motor Vehicle License Plate User Fees and a portion of the Ohio Motor Fuel User Fee. We receive no revenue from other taxes, such as property tax, sales tax, or income tax. Since 2006, the cost for constructing road infrastructure has generally doubled while dedicated revenue has increased about 26%. Revenue from property tax, sales tax or income tax normally increase as costs increase over a long period. However, a constant fee per vehicle or a constant fee per gallon of fuel while vehicles are becoming more fuel efficient does not cover increasing costs. Over the past 20 years about 80% of our dedicated revenue has come from Motor Vehicle License Plate User Fees and the other 20% from a portion of the Ohio Motor Fuel User Fee.

Increased Dedicated Revenue

In 2018 the Board of Lucas County Commissioners enacted the fourth \$5 County Permissive Motor Vehicle License Plate User Fee. The first \$5 county-wide fee was allowed in 1967, two \$5 fees were enacted when allowed in 1988 and we began collecting that fourth and last authorized fee on 2019 registration. This \$5 annual fee is expected to generate \$1.4 Million per year, a 11.8% increase in dedicated revenue.

In early 2019 the Ohio Legislature authorized an increase in the Ohio Motor Fuel User Fee which will begin being collected July 1, 2019. Currently, all counties receive about \$2.4 Million per year from the Ohio Motor Fuel User Fee, this increase is expected to generate an additional \$1.5 Million per full year which will increase our total dedicated revenue by an additional 12.6%.

The two increases combined provided (on average) an additional \$3.1 Million (26% increase) in dedicated revenue in 2020 and 2021 compared to our 2018 revenue. This will not fully cover the \$7 Million in lost purchasing power over the past 20 years, but it certainly helps. Over the past ten years we have been doing a lot of patching and sealing trying to keep our pavements in relatively good condition until more permanent repairs can be made. This increased funding will allow us to make these necessary improvements. If we had not received this increased funding at this time many of those roads would have deteriorated so much that more expensive repairs would have been necessary.

Revised Dedicated Revenue

The table below compares the Lucas County Dedicated Revenue before and after the two increases:

Lucas County Dedicated Funding		
<u>Source</u>	<u>2018</u>	<u>2022</u>
Ohio Motor Vehicle License User Fee	\$6.1 Million (51%)	\$6.2 Million (40%)
Lucas County Permissive License User Fee	\$3.4 Million (29%)	\$5.5 Million (36%)
Ohio Motor Fuel User Fee	\$2.4 Million (20%)	\$3.7 Million (24%)
Total Dedicated Revenue	\$11.9 Million (100%)	\$15.4 Million (100%)

Lucas County Engineer Expenses, Revenue & CIP

EXPENSES

	<u>2007-2011</u>	<u>2012-2016</u>	<u>2017-2021</u>	<u>2022</u>	<u>2023-2027</u>
Operating	\$ 31,319,838	\$ 31,684,458	\$ 29,361,458	\$ 7,802,657	\$ 41,722,601
CIP	\$ 50,128,970	\$ 81,645,863	\$ 66,544,302	\$ 24,056,810	\$ 78,629,843
Total	\$ 81,448,808	\$ 113,330,321	\$ 95,905,760	\$ 31,859,466	\$ 120,352,444

REVENUE

	<u>2007-2011</u>	<u>2012-2016</u>	<u>2017-2021</u>	<u>2022</u>	<u>2023-2027</u>
Outside	\$ 20,643,986	\$ 61,018,017	\$ 33,178,892	\$ 11,251,290	\$ 40,727,740
Dedicated	\$ 58,127,531	\$ 57,797,193	\$ 68,329,528	\$ 15,387,457	\$ 73,400,000
Carryover/Reserve					
Total	\$ 78,771,517	\$ 118,815,210	\$ 101,508,421	\$ 26,638,747	\$ 114,127,740

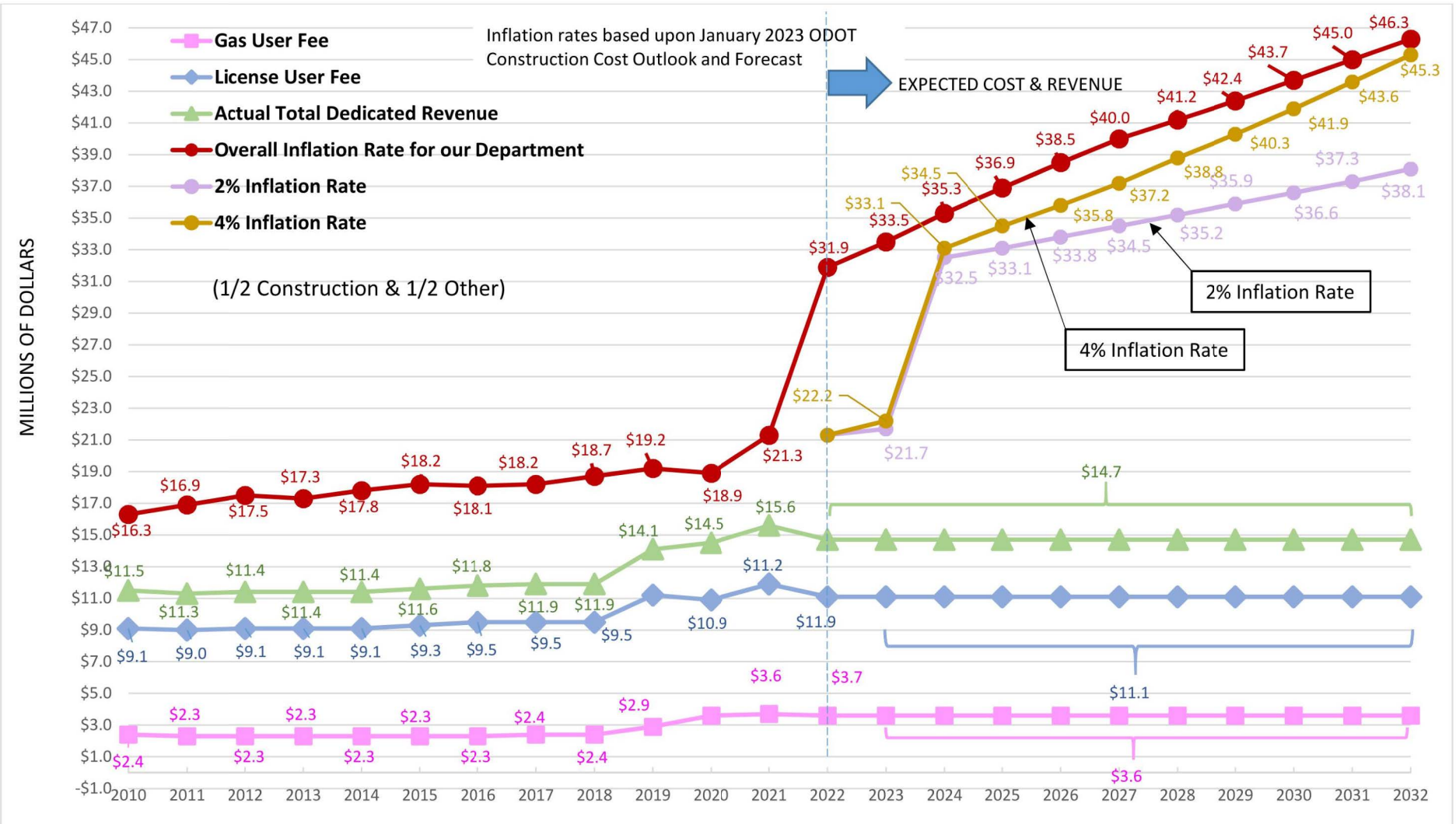
CIP

	<u>2007-2011</u>	<u>2012-2016</u>	<u>2017-2021</u>	<u>2022</u>	<u>2023-2027</u>
Bridge Repairs	10 (5)	6 (5)	6 (5)	0 (1)	7 (5)
Bridge Replacements	7 (5)	6 (5)	6 (5)	0 (1)	5 (5)
Road Rehabilitation/Reconstruction	180 (175)	241 (175)	139 (225)	31 (45)	167 (225)
Road Preservation	76 (75)	67 (75)	63 (60)	12 (12)	49 (60)
Drainage	13 (10)	17 (10)	12 (10)	2 (2)	6 (10)
Intersections	3 (3)	9 (3)	6 (3)	4 (1)	9 (5)
Signals/Upgrades	22 (2)	7 (2)	0 (2)	0 (2)	1 (2)
Traffic-Annual Programs	10 (10)	12 (10)	9 (10)	2 (3)	14 (15)

() State Goals

License/Gas Tax History and Projections—Gap in Dedicated Funds

All dedicated funding for Lucas County maintained roads and bridges comes from Motor Vehicle license Plate Fees and a portion of the Ohio Motor Fuel User Fee. The bottom line shows the past and expected Lucas County revenue from the Ohio Motor Fuel User Fee. Revenue has been flat for the past eleven years. The recent increase



The drastic 81% increase in asphalt prices between 2004 and 2008 caused a \$3 Million Gap between funding and the amount of revenue needed to properly maintain our roads and bridges. The recent increases closed about half of that gap, but with normal inflation the gap will continually widen as shown by the shaded area on the graph. Annual increases tied to construction prices or the CPI would solve that problem, but are not currently allowed.

LUCAS COUNTY PAVEMENT INFORMATION

	2020 Miles	2021 Miles	2022 Miles
Total Centerline Miles	286.8	286.8	286.8
Crack Seal (Contract)	24.1	24.8	25.2
Chip Seal and Microsurfacing	10.6	8.8	7.5
Thinlay, Resurfacing, Widening & Resurfacing or Reconstruction (Contract)	10.2	21.6	17.2
TOTAL:	44.9	55.2	49.9
% of System (Overall)	15.7%	19.2%	17.3%

Width Summary	Miles	% of System
24' Wide or more	120.46	42.0%
22' to 24' Wide	61.29	21.4%
20' to 22' Wide	59.85	20.9%
18' to 20' Wide	40.23	14.0%
16' to 18' Wide	4.95	1.7%
Less than 16' Wide	0	0.0%

- Average Lucas County Road Width is 23.96 feet.
- Total lane miles is 620 +/-.
- Approximate travel lane surface area = 4,027,030 sq. yds.
- Approximate paved berm surface area = 725,355 sq. yds.
- Average Lucas County Maintained Road ADT is 2,568 vehicles per day +/-.
- 159.2 miles (55.5% of System) has paved asphalt berms.
- Total County Road Mileage: 286.78 (includes shared mileage)
- Total Township Road Mileage: 401.32
(Lucas County Engineer provides design and inspection services, and Maintenance of bridges for Township Roads)

LUCAS COUNTY BRIDGE INFORMATION

Summary of Structures Inspected By the Lucas County Bridge Engineer			
Categories	Vehicle Bridges	Pedestrian Bridges	Culverts
Lucas County Roads	104	0	0
Township Roads	57	0	0
BLCC Trails	0	4	0
Metroparks	2	4	0
Municipalities			
Berkey	3	0	0
Holland	1	0	0
Maumee	0	0	0
Ottawa Hills	2	0	0
Oregon	0	0	0
Sylvania	0	0	0
Toledo	3	0	0
Whitehouse	0	0	0
Sub-Totals:	172	8	0

Inspection, Inventory and Reporting
By Lucas County

Municipal Trails	0	1	0
County Roads over US23 / I475	6	0	0
Municipalities			
Toledo	1	0	0
Whitehouse	0	1	0
Sub-Total:	7	2	0
TOTAL:	179	10	0

Inventory by Others,
Cursory Inspection by
Lucas County

General Appraisal Rating				
Type of Work		Number of Bridges		Change from Last Year
		2022	2021	
	GAR			
None	8 or 9	81	87	Down 6
Minor Maintenance	7	41	37	Up 4
Major Maintenance	5 or 6	32	34	Down 2
Major Rehabilitation	3 or 4	7	3	Up 4
Critical Condition	1 or 2	0	0	None
TOTAL:		161	161	

Data includes 104 bridges on County Roads, 57 on Township Roads

	Lucas County	Ohio's County Average (2014 Data)
Bridges with Load Limits	1.86%	6.60%
	3 of 161	1,735 of 26,298

Lucas County has 3 bridges posted for a reduced load capacity compared to state wide average of 19.7 bridges per county.

LUCAS COUNTY CULVERT INFORMATION

Township / Location	Number of Culverts on County / Bikeway Road System
Harding	12
Jerusalem	18
Monclova	30
Providence	29
Richfield	20
Spencer	17
Springfield	38
Swanton	11
Sylvania	42
Washington	1
Waterville	17
*Sub-Total (See Culvert Note):	235
Bike Trails	19
Total:	254

Physical Condition	County Road System	Bike Trails
Good	226	17
Fair	9	2
Poor	0	0
Critical	0	0
Sub-Total (See Culvert Note):	235	19
Total:	254	

Note:

The above numbers represent structures with spans greater than or equal to 2', but less than 3' with both ends open, and spans greater than or equal to 3', but less than 10' regardless of open ends.

LUCAS COUNTY DRAINAGE ENGINEERING INFORMATION

YEAR	DITCH-CREEK NAME	GRANT(S) DOLLARS	COUNTY DOLLARS	TOWNSHIP DOLLARS	TOWNSHIP	TOTAL DOLLARS
PAST PROJECTS						
2020	Smith Ditch	\$250,000.00	\$111,386.11			\$361,386.11
2020	Ten Mile Creek	\$200,000.00	\$1,668,595.50			\$1,868,595.50
2020	Drennan Ditch	\$20,000.00	\$109,674.00	\$120,000.00	Spencer	\$249,674.00
2021 PROJECTS						
2021	Morrison Ditch	\$113,170.00	\$99,880.00			\$213,050.00
2022 PROJECTS						
2022	Ford Ditch (ongoing)	\$636,534.00	\$90,000.00			\$726,354.00
2022	Zink-Heldman Ditch (completed)	\$300,000.00	\$588,926.00			\$888,926.00
2022	Van Fleet Ditch (completed)	\$1,030,451.00	\$31,752.00			\$1,062,203.00
2022 MISCELLANEOUS ACTIVITIES						
2022	Ten Mile Creek/Ottawa River Watershed Petition Ditch Inspections and Project Assessment					
2022	Swan Creek Watershed Petition Ditch Inspections and Project Assessment					
FUTURE PROJECTS AND ACTIVITIES						
2023	Ten Mile Creek/Ottawa River Watershed Petition Ditch Inspections and Project Assessment, Costing, and Prioritization					
2023	Swan Creek Watershed Petition Ditch Inspections and Project Assessment, Costing, and Prioritization					
2024	Bench and Hagerman Ditches	\$1,263,416.00	\$0.00			\$1,263,416.00
POSSIBLE FUTURE GRANT PROJECTS						
2025	Nachtrab-Taylor Ditches	TBD	TBD			TBD
TBD	Whidden Ditch	TBD	TBD			TBD



10/22/2022 Post Construction—Van Fleet Ditch
Hybrid Two-Stage Ditch
Looking East—Monclova Township



9/27/2022 Post Construction—Zink Heldman Ditch
Hybrid Two-Stage Ditch
Looking Southeast—Springfield Township

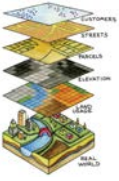
Significant Projects Planned

A complete listing of our Capital Improvement Program 2023—2028 is available on the Lucas County Engineer website, under Administration.

Below is a list of programmed Safety and Capacity Projects:

Year	Project Description
2023	Bancroft & McCord Resurfacing
2023	Sylvania & Kilburn Roundabout
2023	King at UPT Signalization
2023	Monclova Crosswalk RRFB installation
2023	Perrysburg-Holland Bridge #616 over Cairl Creek
2023	Brint & Centennial Roundabout
2023	LUC-2 Sidepath Sidepath along SR-2 near IR-475
2023	Corduroy Rd Bridge Bridge #1437 over Reno Side Cut
2023	Laskey Resurfacing
2024	McCord at Central McCord at Central U-turns
2024	Bancroft at McCord Roundabout and widening
2024	Hill & Centennial Roundabout
2024	Garden & Albon Roundabout
2024	Holloway & Salisbury Roundabout
2024	Holl-Syl/Syl & Holl-Syl/Cntl Resurfacing
2024	Sylvania Met (Berkey) Resurfacing
2025	Hill & McCord Roundabout
2025	Shoreland & Summit Roundabout
2025	Monclova Widening
2025	Frankfort & Crissey Roundabout
2026	Monclova & Wilkins Roundabout
2026	Monclova Roundabouts Roundabouts
2026	Wab Can N Fork Resurf Resurfacing
2026	PNS & Arch White Roundabout
2027	Angola (East) & Crissey Roundabout
2028	Bancroft at Centennial Roundabout
2028	Dutch at AWT Roundabout

Office Updates for GIS, Records, IT, Survey, CAD & Tax Map



GIS

Continued updates and maintenance of our ArcGIS Enterprise, which powers mapping and visualization, analytics, and data management and also allows the Engineer's Office to create custom maps and applications.

We continue to grow our Asset Management and Permitting software known as Cityworks, which allows a direct link to our GIS Enterprise and GIS maps.

Asset datasets continue to grow into GIS features, giving spatial awareness to our assets in the field and the ability to link inspections and work orders to them in Cityworks.



Records

Maintained and indexed record plans, surveys and plats for importing into the OnBase imaging system.

Addressed public records requests.



IT

Provided computer equipment and any technical support to new hires for the year.

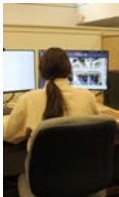


Survey

Typical surveys collected throughout the year for various projects.

Drone deployment to collect imagery and videos for site disturbances.

Also flew drone missions to collect videos for ditch petitions.



CAD

Engineering students and new hires taught in-house CAD standards and procedures.



Tax Map

Maintained and updated the Lucas County Tax Map.

Assigned new Assessor numbers for parcels being created in Lucas County.

Assigned and verified addresses for the county's unincorporated areas.

Read Legal descriptions for the transfer of properties within Lucas County.

Reviewed subdivision plats for the creation of new subdivisions in Lucas County.

Maintained County and Township Road Card Records.

Completed the yearly submittal to ODOT for Road Mileage acceptance.

New Employees of 2022



Josie Smith
Human Resources Administrator

Josie Smith is a lifelong resident of Northwest Ohio, graduating from the University of Toledo in 1998 with a Bachelor's degree in Business Administration. Josie has 22 years of human resources work experience in Lucas County with a focus on employee and labor relations and compliance, previously serving the Board of Lucas County Commissioners and the Toledo-Lucas County Health Department. Josie resides in Perrysburg with her three children. Josie began employment as the Human Resources Administrator on January 18, 2022.

Julie Zemnicki was born, raised and resides in Oregon, Ohio. She previously worked at ODOT for 13 years in the maintenance and construction departments. Julie also assists in the operation of the family farm and greenhouse. In her spare time, Julie likes to hike and comb the beaches of Lake Erie for glass. She is the proud mother of two of the best kids a parent could ask for, Josh and Katie. Julie began employment as a Construction Inspector on April 4, 2022.



Julie Zemnicki
Construction Inspector



Roger Shope
Project Inspector

As a Wood County native, **Roger Shope** thought he lived in the "Great Black Swamp" Clearly, the Swamp is alive and well here in Lucas County. After many years as an Ohio Department of Transportation Highway Technician & a decade serving his hometown inspecting local infrastructure, Roger's path has led him to serve as a Project Inspector, joining the Stormwater Department on April 18, 2022. Roger lives in Bowling Green along with his partner Brenda, chasing and supporting their three kids as life unfolds before them. Roger also spends his weekends crafting traditional lagers and ales for Arlyn's Good Beer, a passion that has its roots in Toledo's Maumee Bay Brewing Co.

Michael Tatar was born and raised in Staten Island, New York. Michael went to school for journalism, receiving a Bachelor's degree in broadcast journalism from Brooklyn College in 2017. In 2018, he packed his bags and moved to West Virginia to start a career in journalism at WTAP-TV in Parkersburg, WV. Michael moved to Toledo in 2019 to work as a reporter for WTOL 11. After almost three years reporting on the communities of northwest Ohio, he left the news business and landed at the Lucas County Engineer's Office on June 6, 2022. Born in the Big Apple, Michael misses his hometown but after living in Ohio for four years now, he also considers himself a Buckeye now too.



Mike Tatar
Public Information Officer

Contributor: Josie Smith

New Employees of 2022



Anthony Schumaker
Construction Project Manager

Anthony Schumaker was born and raised in Northwest Ohio. He graduated from the University of Toledo in 2011 with a Bachelor of Science in Construction Engineering Technology. While at UT, Anthony spent 2+ years with SSOE in Toledo as a Project Management co-op. Following graduation, Anthony relocated to Cleveland to pursue an opportunity as a Project Engineer with Rudolph Libbe. In 2015, Anthony moved back to Northwest Ohio and joined the Toledo-Lucas County Port Authority as a Project Engineer. Anthony currently lives in Perrysburg with his wife and two kids. Anthony began employment with the Lucas County Engineer's Office as the Construction Project Manager on July 11, 2022.

Michael Swaile hails from Toledo, Ohio. He has a Bachelor of Science degree in Electrical Engineering Technology and a Computer Science Engineering Technology degree from the University of Toledo. He enjoys working being the scenes, having worked for Lucas County in various Information Technology positions since 2012 before joining the GIS and Permits section of the Lucas County Engineer's Office. Michael began employment as the GIS/Permits Specialist on October 24, 2022.



Michael Swaile
GIS/Permits Specialist



Zachary Mikolaczzyk
Traffic Operations
Specialist

Zachary Mikolaczzyk was born and raised in Lucas County. He attended the University of Toledo and graduated with a Bachelor's of Science in Construction Engineering Technology. After graduation, he started his career working for a commercial contractor working on a wide variety of projects including hospitals, industrial facilities, and commercial buildings. He has worked on projects all over the state as well as the country traveling as far as Florida. He is looking forward to his new position in the Traffic Operations Department where he is hoping to expand his knowledge and work towards becoming a Professional Engineer. Zachary began his employment with the Lucas County Engineer's Office on October 31, 2022.

Josiah Gerity is a native of Northwest Ohio. After high school, he attended US Army Mechanic School, and continues to proudly serve in the Ohio Army National Guard. Prior to joining our Road Maintenance Department, Josiah previously worked as an automotive and diesel mechanic, where he worked on military and highway vehicles and other heavy equipment. Josiah began employment with the Lucas County Engineer's Office as a Laborer I on November 14, 2022.

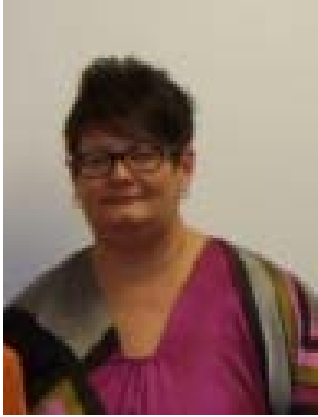


Josiah Gerity
Laborer I

Contributor: Josie Smith

2022 SERVICE AWARDS

30 Years



Missy Dixon
Clerical Supervisor

25 Years



Kenneth Limes, Jr
Equipment Operator 4



15 Years



Todd Boatfield
Equipment Operator 3/Traffic Technician

Locating History

A History in Pictures of the Lucas County Engineer's Office (1930s-1980s)



Laying Asphalt-Location Unknown
c. 1934



Surface Treatment-Angola Road
7-25-1934



Monclova Road at Waterville Swanton Road
Looking West - 7-25-1934



The Nearly Completed LCE
Road Maintenance Garage (WPA Project)
6-25-1934



Snow Removal - Byrne Road between
Hill Ave & Nebraska Ave
1-23-1936



Snow Removal - Byrne Road between
Hill Ave & Nebraska Ave
1-23-1936



Sylvania Avenue Bridge #104
Over Ten Mile Creek near Centennial Rd
1937-1938



Sylvania Avenue Bridge #104
Over Ten Mile Creek @ Flood Stage
3-16-1938



Newly Finished McCord Road-Springfield Twp.
WPA Concrete Paving Project
c. Mid to Late 1930s



Historic Ice Jam in the
Maumee River Basin
along River Road ,
January 1959



Monclova Road Looking West at
Bridge #395 over Swan Creek - 3-2-1962



Dutch Road Looking West
475' East of Finzel Road,
1-31-1963



Renditioned Aerial of Expressways Leading into
Downtown Toledo - Anthony Wayne Trail is
Center Foreground - c. Late 1950s



Concrete being poured under concrete
slabs known as slab jacking
Unknown location-c. 1970s



Lucas County Engineer's Snow Plow
battling the elements - 1988

The Lucas County Engineer's Office Staff

ADMINISTRATION

Mike Pniewski, P.E., P.S.	County Engineer
Kelleigh Decker, M.P.A.	Administrative Deputy
Josie Smith	Director of Human Resources
Mike Tatar	Public Information Officer
Missy Dixon	Clerical Supervisor
Kara Moore	Account Specialist

ENGINEERING

Michael Stormer, P.E.	Chief Deputy Engineer
Bryan Zienta, P.E.	Engineering Project Manager
Kyle Warner, P.E.	Engineering Project Manager
Sarah Rowland, P.E.	Engineering Project Manager
Alan Pfaff, P.E.	Engineering Project Manager
Nick Kissoff, P.E.	Designer
Jenna Smith, E.I.	Engineer Intern
Michael Melnyk, E.I.	Traffic Operations E.I.T.
Zachary Mikolajczyk	Traffic Operations Specialist
Mark A. Smith	Permit Manager
Chad Thomas	Signal Technician
Tina Mack	GIS Manager
Michael Swaile	GIS/Permits Specialist
Matt McFadden, C.E.S.S.W.I.	Stormwater Coordinator
Jay Mosley, P.E., C.F.M., C.P.E.S.C.	Stormwater Program Manager
Roger Shope	Project Inspector
Robert Neubert, C.F.M.	Engineering Technician
Tina Richey	Engineering Technician
Daniel J. Gibson	GIS/Engineering Technician
Brian S. Miller, A.S.C., A+ C.P.	Records/IT/CAD Manager
Joe Shultz	Right-of-Way Coordinator

CONSTRUCTION

Joel Palermo, P.E.	Construction Engineer
Josh Hazard, P.E.	Deputy Construction Engineer
Anthony Schumaker	Construction Project Manager
Mike Sowers	Inspector
Greg Sopher	Inspector
Julie Zemnicki	Inspector

SURVEY & TAX MAP

Matt Puhl, P.E., P.S.	Chief Surveyor
Steve Beers	Survey Crew Chief
Shawn Shaffer	Tax Map Supervisor
Stacy R. Davis	Assistant Cadastral Map Specialist II
Jordan Kreglow, E.I., S.I.	Engineer Intern
Jeff Kneuve, E.I., S.I.	Engineer Intern

ROAD MAINTENANCE

John Bowser	Road Maintenance Superintendent
Albert Hilt	Ass't. Road Maint. Superintendent
Troy Walborn	Fleet Manager
Halie Steingraber	Account Specialist
Ryan Antonacci	Laborer 1
Tamiko Bell	Laborer 1
Todd Boatfield	Operator 3
David Bowman	Laborer 1
Melvon Collins	Operator 2
Eric Craft	Stock Specialist
Daniel Cunningham	Laborer 1
Cody Currier	Mechanic
Matt Dierker	Laborer 1
Tim Durfey	Operator 3
Patrick Ellis	Bottom Man
Daniel Gibson	Operator 2
Tamon Greene	Laborer 1
Albert Hilt	Laborer 1
Michael Johnston	Mechanic
Ken Limes	Operator 4
Jennifer McConnell	Laborer 1
Steve Meinen	Mechanic
Russell Palmer	Laborer 1
Tim Palmer	Laborer 1
Phil Scofield	Operator 4
Asa Smith	Laborer 1
Jeff Smith	Operator 3
Tim Taylor	Laborer 1
James Terry	Laborer 1
Josiah Gerity	Laborer 1

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