

# WAYNE COUNTY ENGINEER'S OFFICE

## 2021 ANNUAL REPORT



Wayne County Engineer  
Scott A. Miller, P.E., P.S.  
3151 West Old Lincoln Way  
Wooster, Ohio 44691  
Phone: 330.287.5500  
Fax: 330.287.5520

Each year, the constituents of Wayne County entrust the Wayne County Engineer in coordination with the Wayne County Commissioners to maintain 499 miles of county infrastructure including 490 bridges. This annual report summarizes the efforts of the Engineer, Highway Maintenance and Tax Map departments for 2020.

The revenue received in 2021 from the Gas Tax and License Plate Fees rebounded from the revenue reduced 2020 Covid-19 Pandemic year roughly by \$530,000. This revenue boost along with the due diligence of our dedicated work force we were able to meet our 2021 goals. The 2021 Wayne County road and bridge improvements are summarized as follows:

- Replaced 4 bridges, rehabilitated 3 bridges and repaired 14 bridges;
- Replaced 3 large culverts and 41 small culverts;
- Road improvements on 114.85 miles of roadway;
- Striped 86 miles of centerline and 49 miles of edge line

For additional information about the Wayne County Engineer's 2021 activities and to view our proposed 2022 work plan, please visit our website:

[www.wayne-county-engineer.com](http://www.wayne-county-engineer.com).

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I want to express my sincere appreciation to my staff for compiling this report and to the Board of Wayne County Commissioners for their cooperation in achieving our goals.

A handwritten signature in black ink, appearing to read "S. A. Miller".

Scott A. Miller, P.E., P.S.  
Wayne County Engineer

## PERSONNEL

SCOTT A. MILLER, P.E., P.S.  
WAYNE COUNTY ENGINEER

### ADMINISTRATIVE SERVICES DEPARTMENT

Pam Brown, Administrative Assistant  
Cindy Nolt, Account Clerk II

### ENGINEERING DEPARTMENT

Andrew D. Jones, Assistant County Engineer  
Eric Liew, P.E., P.S., Bridge Engineer  
Ryan Marthey, P.E., Drainage/Roadway Engineer  
Brock Yoder, Permit & Traffic Safety Supervisor  
Shania N. Reed, Engineering Technician  
Craig Wuthrich, Engineering Technician

### TAX MAP OFFICE

Stacy Peppard, Tax Map Supervisor  
Lisa Burns, Tax Map Specialist (3/2020)

### HIGHWAY MAINTENANCE DEPARTMENT

Pat Miller, Bridge Superintendent  
Mike Pritchett, Fleet Manager  
TJ Shamp, Highway Superintendent  
Dean Whitman, Assistant Highway Superintendent

John Baldner ~ John Eubanks ~ Bob Ewing ~ Rodney Hartzler ~ Lukus Hawk ~ Jon Hudson ~ Mike Hyatt ~ Corey Keplar ~ Nate Klepper ~ Jeremy Leckrone ~ Scott Loving ~ Aaron Mackey ~ Kyle McAfee ~ Kevin Miller ~ Jr. Mowrer ~ Don Phillips ~ Marlin Questel ~ Brian Spotts ~ Steve Stewart ~ Trent Swinehart ~ Dustin Taylor ~ Cody Truman (9/13/21) ~ Jeff Zerrer

**Sign Shop** ~ Jeff Metcalf, Dave Richard

**Mechanic (Shop)** ~ Joe Burns, Dave Corbett

**Retired/Resigned:** Jarrett Kelly, Highway Maintenance II, (Resigned 8/12/21)  
Kevin Troyer, Highway Maintenance III, (Retired 11/30/21)  
Bryan Weiser, Highway Maintenance III, (Resigned 11/6/21)  
John Zaranac, P.S., Deputy Surveyor (Resigned 1/15/21)

## DUTIES OF THE COUNTY ENGINEER

The Engineer has the responsibility of performing for the County all duties authorized or declared by law to be done by a civil engineer or surveyor, and accordingly must hold registration certificates of the State of Ohio as both Professional Engineer and Professional Surveyor.

The Engineer, in cooperation with the County Commissioners, is responsible for all maintenance, repair, widening, resurfacing, reconstruction, and construction of roads and bridges on the county highway system; 498.819 miles.

The Engineer serves as an advisor to the Township Trustees for the maintenance, repair, widening, resurfacing, and reconstruction of their highways. The bridges on the township highway system are the full responsibility of the County.

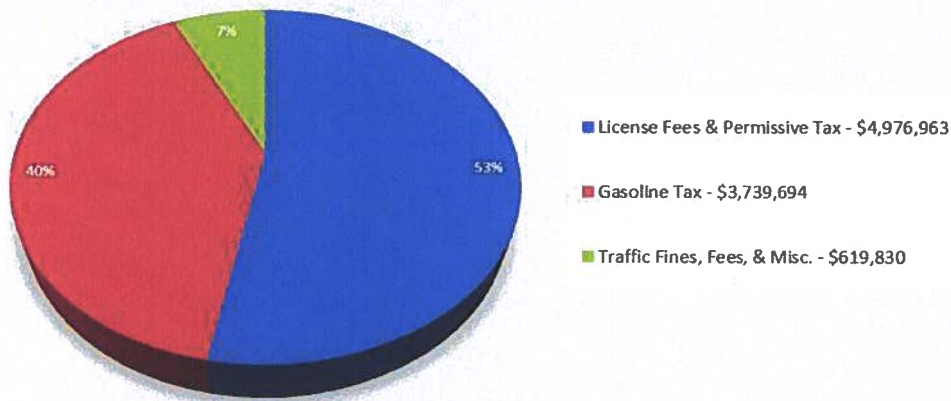
The Engineer is also responsible for many bridges within municipalities. These bridges are located on streets which are extensions of county or township roads.

Also, the Engineer must maintain a perpetual inventory of all bridges on the county and township highway system, including an annual inspection and evaluation of the condition and load carrying capacity of each bridge.

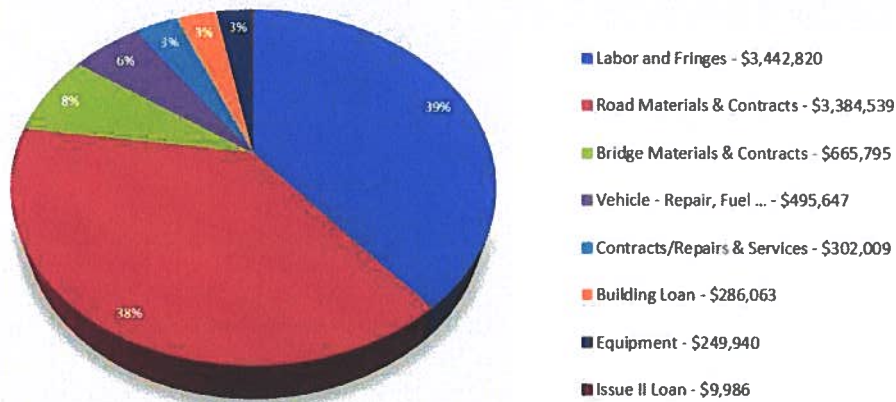
The Engineer is the Tax Map Draftsman for the County and at the discretion of the County Commissioners, he may also serve as the Acting Sanitary Engineer.

## 2021 FINANCIAL INFORMATION

### 2021 INCOME - \$9,336,487



### 2021 EXPENDITURES - \$8,826,814



## BRIDGES

The Wayne County Engineer is responsible for inspection, maintenance, and construction of 489 bridges on county and township roads, and extensions of those roads through municipalities.

**INSPECTION:** Annual inspections for 489 bridges are performed in accordance with the latest Ohio Department of Transportation Bridge Inspection Manual. Some bridges are inspected and monitored more frequently because of known deficiencies.

**LOAD RATINGS:** To be in compliance with the National Bridge Inspection Standards; the Federal Highway Administration (FHWA) requires ratings on all structures with a span greater than 20'. The load rating is performed for the safety of the traveling public. The carrying-capacity of all bridges in the State of Ohio are rated using a standard set of vehicles, called "Ohio Legal Loads". In addition to the current Ohio rating practice of using Ohio legal trucks, the Ohio Department of Transportation (ODOT) has implemented a plan of action in response to the Federal Highway Administration (FHWA) requirement to incorporate the Specialized Hauling Vehicles (SHV) and Emergency Vehicles (EV) as per AASHTO's "Manual for Bridge Evaluation, Second Edition" into all new load rating analyses.

Load ratings, performed on Wayne County bridges in 2021, resulted in 2 bridges being submitted to ODOT with new or updated load limits. In addition, the posted load limits were removed on one (1) bridges in 2021. Wayne County currently has 64 load limit bridges.

### 2021 BRIDGE PROJECTS:

#### Replaced Bridges:

CAN-TR347-2.20, Parmenter Road, \$94,876.02  
SUG-TR334-4.34, Goudy Road, \$102,974.86  
FRA-CR90-0.041, James Road, \$98,075.15  
FRA-TR202-2.48, Nonpariel Road, \$76,077.07

#### Rehabilitated Bridges:

BAU-CR32-1.07, Dalton Fox Lake Road, \$34,381.01  
BAU-CR32-5.24, Dalton Fox Lake Road, \$11,017.63  
CHI-TR261-1.57, Porr Road, \$49,492.02

*County labor was 21% of the total project cost, materials 57%, 10% for equipment and 12% for subcontractors.*

Eight (8) other bridge structures received repairs and 6 bridges were cleaned and sealed.

## CULVERTS

The Wayne County Engineer is responsible for inspection, maintenance, and construction of 547 large culverts on county roads. Large culverts are defined as culverts having a span or rise greater than or equal to 48" and less than 120" (10'). Structures with a span greater than/equal to 120" (10') are considered bridges.

**INSPECTION:** Inspections of large culverts are performed on a five (5) year rotation in accordance with the latest Ohio Department of Transportation Culvert Management Manual. Some culverts are inspected and monitored more frequently because of known deficiencies.

At the request of the Township Trustees; the Wayne County Engineer's Office will inspect the large culverts on township roads. There are approximately 244 large culverts on township roads.

**CONSTRUCTION:** Three (3) Large Culverts were replaced or extended by county forces in 2021:

Forty-one (41) small culverts (less than 48") were replaced/repared by county forces; the county maintains 2,072 small culverts.

## HIGHWAY MAINTENANCE

County Force Account for 2021 were as follows:

- Drag Patched - 78.95 miles - \$608,496
- Chip and Seal - 21.69 miles - \$278,879

Contract Projects for 2021 were as follows:

- Scratch Pave - 8.64 miles - \$488,000 - Karvo Companies
- Full depth reclamation - 0.63 miles - \$51,985 - Melway Paving
- Cutting Berms - 52 miles - \$114,420 - Melway Paving
- Cold Mix Motor Pave - 4.94 miles - \$382,355 - Melway Paving
- Mowing (three rounds) ~ \$60,000, Meyer All Terrain Mowing

**SNOW & ICE:** County crews spent 5,138.50 hours salting/plowing county roads during the 2021/2022 snow season.

Labor:	\$135,111.24
Equipment:	\$207,460.50
Material:	\$216,068.01
Total:	\$558,639.75

Salt:	2021/2022	\$45.28 per ton
	2020/2021	\$57.29 per ton
	2019/2020	\$89.51 per ton
	2018/2019	\$65.46 per ton

## EQUIPMENT PURCHASES

Western Star Single Axle Dump - \$150,000

Ford F-450 Pick Up Truck - \$42,635

Message Boards (2) - \$7,725 Each

Portable Traffic Signals (2) - \$23,000 Each

## TRAFFIC CONTROL

The primary responsibility of our traffic control staff is the inspection and maintenance of 9,100 road signs, which includes over 1,300 road name signs and narrow/load limit signs at certain bridges on township roads. The sign shop updated or installed 745 signs in 2021 and cleaned/repaired another 205.

The Traffic Control staff performs centerline, edge line, railroad crossing symbols and stop bar painting on county roads. Yellow centerline stripes were added to 86 miles of county roads. They also painted 49 miles of white edge lines, 52 railroad crossing symbols and 76 stop bars at intersections.

The Traffic Control staff collected average Daily Traffic Counts on 470 county road sections in 2021.

## PERMITS

Our office oversees work within the county right-of-way by public utilities and property owners as well as overweight and oversize vehicles using the roads. This ensures that all utility work, including relocation of overhead and buried electric, phone, cable, water and gas lines along and under the road, does not interfere with the safety and operation of the county road. Also, any work that is done by a resident to the front of their property (inside the road right-of-way), including construction of new driveways, installation of drainage pipes, re-grading ditches or installing obstructions that would otherwise affect the operation or safety of the road must be reviewed by the permit department. Special Haul Permits are for vehicles that are oversize or overweight according to the limits set by Ohio Revised Code 5577.

Permits Issued 2021:	Drive Pipes	80	
	Utility	96	
	Ditch Enclosure	32	
	Special Haul	10	Total = 218

## TAX MAP DEPARTMENT

The Primary function of the Tax Map Department is to process all deeds and record the parcel transfers on the appropriate map(s). Some of the instruments that the Department is required to review and approve are as follows: warranty deeds, quit claim deeds, executor's deeds, certificate of transfers, deeds of trustees, transfer on death affidavits, land contracts, sheriff's deeds, etc.

The Tax Map Department also retains and maintains historical tax maps, property surveys, railroad and highway right-of-way maps for public viewing and research. The Department provides a current set of tax maps to the County Auditor for taxation purposes. Every parcel of land in Wayne County is mapped and kept current with each landowner. These maps are available for viewing in the front office or on the department's website at [http://wayne-county-engineer.com/Tax\\_Maps\\_&\\_Surveys/default.html](http://wayne-county-engineer.com/Tax_Maps_&_Surveys/default.html). Tax maps of past years dated from 1929 forward are retained in a reference library and are available for viewing.

In 2021, there were approximately 59,600 tax parcels in Wayne County. There were 4,960 conveyances processed through this department during the year.

The Tax Map Department also administers the continuation of the county house numbering system. Numbers are assigned to new and existing building sites, cell tower sites, etc. that require an address. The new numbers are registered on a separate set of maps and index cards. New addresses are submitted to area post offices.

For many years, surveyors have been required to submit their survey plats for review and entry into the land records. There are approximately 34,633 surveys dating back to 1815. These surveys include numerous plats of allotments, subdivisions, and annexations. In 2021, this department reviewed and processed 251 survey plats.

This office prepares and maintains numerous volumes of other related maps, plats and drawings that form a part of the county mapping system. The office personnel deserve credit for performing the diversified duties that are required in serving the public and maintaining an efficient and well managed Tax Map Department.

### Conveyances Processed 2021

Deed Affidavit	546
Deed Transfer	3804
Land Contracts	26
Transfer on Death	503
Transfer on Death Completed	81