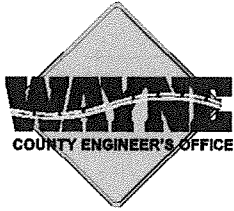


WAYNE COUNTY ENGINEER'S OFFICE

2019 ANNUAL REPORT



Each year, the constituents of Wayne County entrust the Wayne County Engineer in coordination with the Wayne County Commissioners to maintain 499.001 miles of county infrastructure including 492 bridges. This annual report summarizes the efforts of the Engineer, Highway Maintenance and Tax Map departments for 2019.

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

2019 IMPROVEMENTS ARE AS FOLLOWS:

- County forces replaced five (5) bridges and five (5) were rehabilitated, 19 other bridge structures were repaired;
- Seven (7) large culverts and 29 small culverts were replaced by county forces. County forces also replaced two (2) large culverts for townships;
- County forces drag patched 85.06 miles and scratch paved 7.02 miles;
- County forces striped 134 miles of centerline and 69 miles of edge line

For additional information about the Wayne County Engineer's 2019 activities and 2020 proposed work plan, please visit our website:

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
330.641.8405

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 (10/2019)
Eric Liew, P.E., P.S., Bridge Engineer
Ryan Marthey, P.E., Drainage/Roadway Engineer
John Zaranac, P.S., Deputy Surveyor
Brock Yoder, Permit & Traffic Safety Supervisor
Mike Barnhouse, Engineering Technician
Shania N. Reed, Engineering Technician (4/2019)
Craig Wuthrich, Engineering Technician

TAX MAP OFFICE

Jennifer Wisard, Tax Map Supervisor (2/2019)
Stacy Peppard, Tax Map Specialist (3/2019)

HIGHWAY MAINTENANCE DEPARTMENT

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

John Baldner ~ Bob Ewing ~ Lukus Hawk ~ Jon Hudson ~ Mike Hyatt ~ Jarrett Kelly ~ Corey Keplar ~ Nate Klepper ~ Jeremy Leckrone ~ Scott Loving ~ Aaron Mackey ~ Kyle McAfee ~ Kevin Miller ~ Dave Mowrer ~ Jr. Mowrer ~ Don Phillips ~ Marlin Questel ~ Brian Spotts ~ Steve Stewart ~ Trent Swinehart ~ Dustin Taylor ~ Kevin Troyer ~ Josh Vizzo ~ Bryan Weiser ~ Jeff Zerrer

Sign Shop ~ Jeff Metcalf, Dave Richard

Mechanic (Shop) ~ Joe Burns, Dave Corbett

Retired/Resigned: L. Bresson, C. Leisure, M. Martin, M. Spademan and B. Sprinkle

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; 499.001 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.

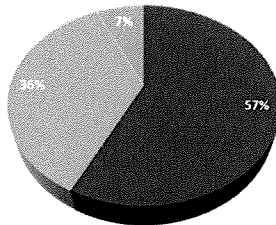
The Engineer is also responsible for many bridges within municipalities. These bridges are located on streets which are extensions of county or township roads.

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.

2019 FINANCIAL INFORMATION

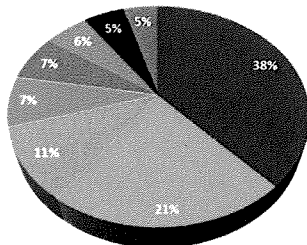
2019 INCOME



\$4,743,931.00	License Fees & Permissive Tax	57%
\$2,939,200.00	Gasoline Tax	36%
\$572,460.00	Other (fines/fees/misc)	7%
<u>\$8,255,591.00</u>		

■ License Fees & Permissive Tax 57% ■ Gasoline Tax 36% ■ Other (fines/fees/misc) 7%

2019 EXPENSES



\$3,082,243.00	Labor & Fringes	38%
\$1,741,878.00	Road Materials/Contracts	21%
\$857,981.00	Equipment	11%
\$594,585.00	Note Repayment	7%
\$556,563.00	Repairs/Fuel	7%
\$452,794.00	Issue II Projects	6%
\$423,930.00	Bridge Materials/Contracts	5%
\$369,154.00	Contracts/Repairs & Services	5%
<u>\$8,079,128.00</u>		

BRIDGES

The Wayne County Engineer is responsible for inspection, maintenance, and construction of 492 bridges on county and township roads, and extensions of those roads through municipalities.

INSPECTION: Annual inspections for 492 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 2019, resulted in 15 bridges being submitted to ODOT with new or updated load limits. In addition, the posted load limits were removed on two (2) bridges in 2019. Wayne County currently has 65 load limit bridges.

2019 BRIDGE PROJECTS:

Replaced Bridges:

- CHE-TR89-0.36, Finley Road, \$51,752.60
- CAN-CR70-2.49, West Salem Road, \$57,717.47
- CHE-CR149-0.54, Elyria Road, \$59,678.41
- CAN-TR108-1.74, Steiner Road, \$78,959.14
- EAS-TR-188-2.33, Hackett Road, \$86,970.28

Rehabilitated Bridges:

- CHE-TR85-0.25, Reedsburg Road, \$1,616.38, add floor beams
- SAL-CR109-2.68, Salt Creek Road, \$6,432.62, deck rehab
- FRA-CR77-0.50, Moreland Road, \$6,858.34, add beam
- WOO-CR54-1.60, Honeytown Road, \$1,369.54, add floor beam
- CHE-TR101-1.94, Lehr Road, \$7,297.96, add floor beams

Nineteen other bridge structures were repaired.

County labor was 25% of the total project cost, materials 57%, 9% for equipment and 9% for subcontractors.

CULVERTS

The Wayne County Engineer is responsible for inspection, maintenance, and construction of 306 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 239 large culverts on township roads.

CONSTRUCTION: Seven (7) Large Culverts were replaced or extended by county forces in 2019:

Twenty-nine (29) small culverts (less than 48") replaced/repared by county forces and two additional large culverts for townships. The county maintains 2,341 small culverts.

HIGHWAY MAINTENANCE

County forces drag patched 85.06 miles of county roads at a cost of \$286,474. Forces also filled 12.35 miles of buggy troughs at a cost of \$249,583. Another 7.02 miles of county road was scratch paved at a cost of \$368,284.

Elyria Road, between SR3 and SR95 (3.2 miles), received an over-lay by contract; Kokosing Construction. The county portion of that project was \$468,689, OPWC funds of \$312,459 for a total project cost of \$781,148.

County crews mowed all ditches and berms twice during 2019; \$79,126.

County forces spent over 5000 hours cleaning ditches in 2019 at a cost of just over \$200,000.

SNOW & ICE: County crews spent 3,266 hours salting/plowing county roads during the 2019/2020 snow season.

Labor: \$95,798

Equipment: \$70,832

Material: \$229,744

Total this season: \$396,374

Salt:	2019/2020	\$89.51 per ton
	2018/2019	\$65.46 per ton
	2017/2018	\$38.89 per ton

EQUIPMENT PURCHASES

Mack Tandem Axle Dump Trucks (3) - \$201,726 each

EZ-Liner Stripper - \$63,487

Twenty Ton Trailer - \$19,419

TRAFFIC CONTROL

The primary responsibility of our traffic control staff is the inspection and maintenance of 9,314 road signs, which includes over 1,200 road name signs and narrow/load limit signs at certain bridges on township roads. The sign shop updated or installed 676 signs in 2019.

An EZ-Liner striping machine (truck mounted) was purchased in early 2019 at a cost of \$63,487. Our Traffic Maintenance Department striped 134 miles of centerline and 69 miles of edge line in 2019. Labor and equipment totaled \$28,436 and paint/supplies were approximately \$59,000.

Cost per mile 2019 = \$431

Cost per mile 2018 = \$588 (by contract)



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 2019:	Drive Pipes	192	
	Utility	84	
	Ditch Enclosure	130	
	Special Haul	25	Total = 431

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. Tax maps of past years dated from 1929 forward are retained in a reference library and are available for viewing.

In 2019, there were approximately 59,357 tax parcels in Wayne County. There were 4,602 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 34,382 surveys dating back to 1815. These surveys include numerous plats of allotments, subdivisions, and annexations. In 2019, this department reviewed and processed 304 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 2019

Deed Affidavit	442
Deed Transfer	3632
Land Contracts	34
Transfer on Death	440
Transfer on Death Completed	54