

WAYNE COUNTY ENGINEER'S OFFICE

2017 ANNUAL REPORT



Each year, the constituents of Wayne County entrust the Wayne County Engineer in coordination with the Wayne County Commissioners to maintain almost 500 miles of county infrastructure including 492 bridges. This annual report summarizes the efforts of the Engineer, Highway Maintenance and Tax Map departments for 2017.

Wayne County Engineer
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Total income, predominately from license plate fees and gasoline tax for 2017 was \$7,289,599. This is a decrease of \$88,826 from the previous year.

The cost of materials, equipment and labor continue to increase each year which means we spend less on infrastructure repair and replacement.

2017 IMPROVEMENTS ARE AS FOLLOWS:

- County forces replaced four (4) large culverts and two (2) bridges.
- Seven (7) bridges were rehabilitated by county forces.
- County forces improved 11.5 miles of pavement surface by scratch paving and 46 miles of roadway surface by chip/seal; exceeding our projections for the year by 7.5 miles.
- Two (2) bridges were replaced with precast reinforced concrete box culverts by contract.
- 102 miles of road striping was completed by contract.

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

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

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.

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.

WAYNE COUNTY ROAD DATA BY JURISDICTION

<u>System</u>	<u>Mileage</u>	<u>Maintained By</u>
State Highway	253	Ohio Department of Transportation
County Road	499.85	Wayne County Engineer
Township Road	562	Township Trustees
Municipal Street	277	Incorporated Cities & Villages
TOTAL	1,591.85	

TOWNSHIP ROAD MILEAGE

Baughman	36.86	Clinton	26.05	Green	34.61	Salt Creek	23.81
Canaan	26.57	Congress	36.06	Milton	33.15	Sugar Creek	46.95
Chester	44.79	East Union	41.92	Paint	23.22	Wayne	34.99
Chippewa	50.84	Franklin	30.53	Plain	37.58	Wooster	33.84

PERSONNEL

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

ADMINISTRATIVE SERVICES DEPARTMENT

Pam Brown, Administrative Assistant
Cindy Nolt, Account Clerk II

ENGINEERING DEPARTMENT

Mark Spademan, P.E., Assistant County Engineer
Larry Conn, P.S., Engineering Services Manager
Eric Liew, P.E., P.S., Bridge Engineer
Ryan Marthey, P.E., Drainage/Roadway Engineer (12/18/17)
John Zaranec, P.S., Deputy Surveyor
Mike Barnhouse, Engineering Technician
Matt Sigler, Engineering Technician

Retired during 2017: Jeff Sparr (9/30/17) and Larry Warner (7/31/17)

TAX MAP DEPARTMENT

Douglas Green (Retired 12/30/17)
Tax Map Supervisor

Mike Martin
Tax Map Specialist

Jennifer Wisard (12/18/17)
Tax Map Specialist

HIGHWAY MAINTENANCE DEPARTMENT

Highway Superintendent

Ben Saurer

Assistant Highway Superintendent

Gale Wilcox

Supervisors

Mike Pritchett

TJ Shamp

Bill Sprinkle

Dean Whitman

Highway Maintenance Workers

Keith Badertscher

John Baldner

Larry Bresson

Ron Deak (11/20/17)

Bob Ewing

Jeff Grassman

Jon Hudson

Mike Hyatt

Corey Keplar

Chris Leisure (4/17/17)

Scott Loving

Kevin Miller

Patrick Miller

David Mowrer

Zenith Mowrer

Brian Spotts

Steve Stewart

Kevin Troyer

Bryan Weiser

Craig Wuthrich

Jeff Zerrer

Mechanic

Joe Burns

Parts Department

Bob Tenney

Sign Shop

Jeffrey Metcalf

Brock Yoder

Retired/Resigned: Scott Cantrell (11/3/17), Dale Cutter (12/15/17), Tom Nolletti (3/31/17) and Jaime Sigler (2/24/17)

2017 Financial Statement

INCOME



	License Fees & Permissive	\$4,654,672	63.85%
	Gasoline Tax	\$2,389,285	32.78%
	Traffic Fines, Fees, & Misc.	\$245,642	3.37%
TOTAL		\$7,289,599	100.0%

REAL ESTATE TAXES ARE NOT USED FOR COUNTY HIGHWAY PURPOSES.

EXPENDITURES



	Labor and Fringes	\$3,187,469	43.43%
	Road Materials & Contracts	2,095,063	28.55%
	Repair, Fuel, Etc.	400,594	5.46%
	Equipment	499,330	6.80%
	Bridge Materials & Contracts	342,987	4.67%
	Note Repayment	292,487	3.99%
	Contracts (Repairs & Services), Compensation & Damage, Advertising & Printing	278,776	3.80%
	Issue II Projects	242,325	3.30%
TOTAL		\$7,339,030	100.0%

HIGHWAY MAINTENANCE

ROAD MAINTENANCE:

11.5 Miles – Scratch paving (full width asphalt leveling course)

Road No.	Name	Section
48	Pleasant Home	E*, D*
51	Canaan Center	F,G*, H
61	Calaboone	A*
206	Edwards	A*
242	Burton City	A*, B*

*Partial Section

46 Miles – Chip & Seal

Road No.	Name	Section
6	Friendsville	All
21	Franchester	A-D
48	Pleasant Home	F, G, H
51	Canaan Center	A-E,G*,I,J
59	Sterling	A-E
70	Doylestown	All
99	Krabill	All
426	Merkle	All

*Partial Section

SNOW AND ICE CONTROL:

We purchased 4,485 tons of salt during the 2017-2018 winter season. Cost per ton was \$38.89 totaling \$174,422.

Equipment available for snow and ice control includes; 28 plow trucks with spreaders and 2 V-plow graders.

HIGHWAY MAINTENANCE CONTINUED

WEED AND BRUSH CONTROL:

In 2017, guardrail spraying was performed by DeAngelo Brothers, Inc. from Hazleton, Pennsylvania at a total cost of \$15,843. County maintenance crews conducted mowing operations in the summer and performed brush cutting during the winter months.

EQUIPMENT PURCHASES:

2017	Planned for 2018
Single-Axle Dump Truck	5-Tandem-Axle Dump Truck w/Snow & Ice Package
Snow & Ice Package for Single-Axle Dump Truck	2-Pick Up Trucks
Pick Up Truck, 2 Cars	Welder
Used Gradall	Power Washer
Tractor w/Mower	Striping Truck

PERMITS:

Permits were issued for the following:

121	Drive Pipes
139	Utility Permits
42	Ditch Enclosures
114	Special Haul Permits

The utility permits were primarily for public utilities and the oil and gas industry. Drive pipe permits were for private, commercial, and industrial drives. Special haul permits increased drastically from 2016 (there were 21) because of the Rover, Utopia and Dominion Energy projects.

LARGE 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". Structures with a span greater than/equal to 120" 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 242 large culverts on township roads.

CONSTRUCTION:

Four (4) Large Culverts were replaced by county forces in 2017:

WAY-CR86-1.595 Smithville Western Road

Replace 5' x 5' Sandstone culvert with 52' - 7' x 6' Box Culvert, Total Cost \$77,756.35

FRA-CR501-4.931 Fredericksburg Road

Relocate Pipe Culvert with 52' - 6' x 5' Box Culvert, Total Cost \$45,928.96

CON-CR36-3.351 Stratton Road

Replace 5' x 3' CIP box with 34' - 42" CPP Pipe, Total Cost \$18,011.72

BAU-CR27-4.459 Fulton Road

Replace 6' x 3' sandstone culvert with 60' - 60" CPP Pipe, Total Cost \$ 27,207.21

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) as per AASHTO's "Manual for Bridge Evaluation, Second Edition" into all new load rating analyses.

Ratings for 37 bridges were submitted to ODOT in 2017. The ratings performed resulted with new and updated postings of load limits on Wayne County bridges. In addition, the posting of load limits were removed on 2 bridges in 2017.

BRIDGES CONTINUED

CONSTRUCTION:

Contract Work:

SUG-CR52-0.98 Kidron Road ~ replaced with a precast reinforced concrete box culvert.

Contractor for the project was Black Horse Bridge, Total Cost \$402,758.43
Paid for with OPWC State Funds and Local K-funds.



GRE-TR216-0.35 Paradise Road ~ replaced with a precast reinforced concrete box culvert.

Contractor for the project was Adena Corp, Total Cost \$97,462.20
Paid for with Federal CDBG funds and Local K-funds.



County Forces:

EAS-TR179-2.59 Kansas Road ~ Replacement, \$71,326.58

GRE-TR115-0.24 Beiler Road ~ Replacement, \$78,515.22

REHAB: MIL-TR200-3.64 (Blough Road)
 SAL-CR501-0.74 (Mill Street)
 CLI-CR1-0.91 (Centerville Road)
 CHE-TR245-1.78 (Camp Road)
 WOO-TR192-0.26 (McAfee Road)
 MIL-TR50-2.17 (Miller Road)
 CHI-CR133-2.10 (Black Diamond Road)

TRAFFIC CONTROL

The primary responsibility of our traffic control staff is the inspection and maintenance of over 8,500 road signs along nearly 500 miles of county roads and at narrow and load-limited bridges on township roads.

Oglesby Construction completed our striping program in 2017 for a total cost of \$135,940.00. Oglesby painted 102 miles of center line, 134 miles of edge line and one mile of lane line. Roads that received striping and/or auxiliary markings (railroad, school, turn arrows etc.) include:

Road Number	Road Name
1	Centerville
2	Harrison
6	Friendsville
29	Back Massillon
30A	East Lincoln Way
30A	West Old Lincoln Way
48	Pleasant Home
61	Calaboone
70	Doylestown
70	West Salem
72, 149	Elyria
79	Emerson
86	Smithville-Western
94A	Carr
99	Krabill
100	Clinton
150	Eastern
206	Edwards
207, 502	Smucker / Chippewa
242	Burton City
504	Sterling

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 2017, there were approximately 59,460 tax parcels in Wayne County. There were 4,500 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 2017, this department reviewed and processed 280 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.

2018

INCOME PROJECTION: Receipts for 2018 are expected to remain unchanged from 2017. A carry-over of 2017 funds in the amount \$267,515 is included in our appropriations.

PROJECTED APPROPRIATIONS



	Labor and Fringes	\$3,308,450	44.1%
	Road Materials & Contracts	1,714,336	22.9%
	Bridge Materials & Contracts	697,000	9.3%
	Repair, Fuel, Etc.	503,000	6.7%
	Issue II Projects	210,064	2.8%
	Contracts (Repairs & Services), Compensation & Damage, Advertising & Printing	303,200	4.0%
	Equipment	474,465	6.3%
	Note Repayment	292,000	3.9%
	TOTAL	\$7,502,515	100.0%

Our project goals for 2018 will be posted on our website:

www.wayne-county-engineer.com