



2018

ANNUAL REPORT

Warren County Engineer's Office



<http://www.WCEO.us>

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Letter from the County Engineer

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Dear Citizens of Warren County,

What a dynamic year 2018 was for my office! In conjunction with the Warren County Transportation Improvement District, a decades long initiative to see our Western Row Road Interchange being fully operational took its last lap to completion. New northbound entrance ramps were completed in December of 2018 and, since then, the southbound exit and entrance ramps have opened. Several connector routes leading into the interchange received significant improvements as well: Innovation Way widening, Socialville-Fosters Road improvements with the construction of a new roundabout, Columbia Road relocation, and work is nearing completion at the intersection of Innovation Way and Duke Blvd. This interchange is a fine example of what hard work, local governments, and community partners can accomplish together.

A new roundabout opened this past year at the intersection of Old SR122 and Township Line Road, a major safety improvement that was important to this office. I am pleased to see a new solution in place to address what was a high risk intersection.



With the invitation of Congressman Steve Chabot, I had the privilege of sitting in a roundtable this past year with the U.S. Secretary of Transportation Elaine Chao. It was a privilege to present our State Route 63 Corridor project and highlight our efforts to make major improvements to this area.

During discussion, Secretary Chao referred to Warren County's "project ready" corridor as an example of collaboration and pursuing creative solutions, a key for local governments seeking other opportunities for funding major infrastructure improvements.

Ohio Revised Code 5543.02 Annual Report

The county engineer shall report to the board of county commissioners, on or before the first day of June in each year, the condition of the county roads, bridges, and culverts, and estimate the probable amount of funds required to maintain and repair or to construct any new roads, bridges, or culverts required within the county.

The engineer, on or before the first day of June in each year, shall make an annual estimate for the board of township trustees of each township, setting forth the amount required by the township for the construction, reconstruction, resurfacing, or improvement of the public roads within their jurisdiction. Such estimates shall relate to the year beginning on the first day of March next ensuing, and shall be for the information of the board of county commissioners and board of township trustees, in the making of their annual levies.

The engineer shall approve all estimates which are paid from county funds for the construction, improvement, maintenance, and repair of roads and bridges by the county. The engineer shall approve all estimates which are paid from township funds for the construction, reconstruction, resurfacing, or improving of roads under sections 5571.01, 5571.06, 5571.07, 5571.15, and 5573.01 to 5573.09 of the Revised Code. The engineer shall also approve all estimates which are paid from the funds of a road district for the construction, reconstruction, resurfacing, or improvement of the roads thereof under section 5573.21 of the Revised Code.

For the construction or repair of a bridge, the entire cost of which construction or repair exceeds fifty thousand dollars, the county engineer may request the director of transportation to review and comment on the plans for conformance with state and federal requirements. If so requested, the director shall review and comment on the plans.

Effective Date: 06-30-1995; 03-29-2005

FINANCIAL HIGHLIGHTS FOR 2018

EXPENDITURES

Payroll	\$ 2,362,420.34
Equipment & Facilities	\$ 1,540,000.38
Benefits	\$ 854,769.67
Other	\$ 26,718.09
Capital Improvements	\$ 2,661,688.82
Insurance	\$ 3,440.41
Material & Maintenance	\$ 939,135.68
	\$ 8,388,173.39

Our main administration office building is housed in the late Thomas Corwin's home. Corwin was an Ohio governor and prominent U.S. political leader in the years before the American Civil War. This past year, 2018, was 200 years since the home was initially built, in historic Lebanon, Ohio. We held an open house for the public to come view the home and learn more about its rich history.



I hope you enjoy this 2018 Annual Report, a look back at the hard work and accomplishments of my entire staff and our local partnerships.

Thank you to our Board of County Commissioners, County Prosecutor's Office, County Sheriff's Office, and other County offices, all of our Township Trustees and Fiscal Officers, municipalities, and ODOT for a great year!

Sincerely,

Neil F. Tunison, P.E., P.S.
Warren County Engineer



REVENUE

Investments	\$ 0.00
Reimbursement	\$ 278,266.38
Sales	\$ 267,700.32
GIS	\$ 84.75
Gas Tax	\$ 2,417,403.95
Vehicle License	\$ 6,202,211.58
	\$ 9,165,666.98

2018 YEAR IN REVIEW

The Warren County Engineer's Office staff consider it an honor and pleasure to serve the great community of Warren County by providing a safe, well-maintained county road infrastructure.

The Warren County Engineer's Office serves from the Corwin House on 210 W Main Street, Lebanon, Ohio in the capacity of administration and engineering. WCEO's facility on 105 Markey Road, Lebanon, Ohio serves in issuing permits, inspections, and providing highway maintenance. There are also two additional locations for salt storage: one in Wayne Township and one in Harlan Township.

Please read on further for the 2018 review of accomplishments by our team of engineers and support staff who serve Warren County through a variety of engineering, construction, and land record keeping services.

CEDAR HILL ROAD BRIDGE #574-0.83

Warren County replaced the Cedar Hill Road Bridge #574-0.83 over a branch of the Little Miami River during the summer of 2018. The bridge is located on Cedar Hill Road off of US 42 in Wayne Township. The existing concrete slab bridge was replaced by force account with a plastic pipe culvert. The project cost \$55,164.33 using funds from the Warren County Engineer.



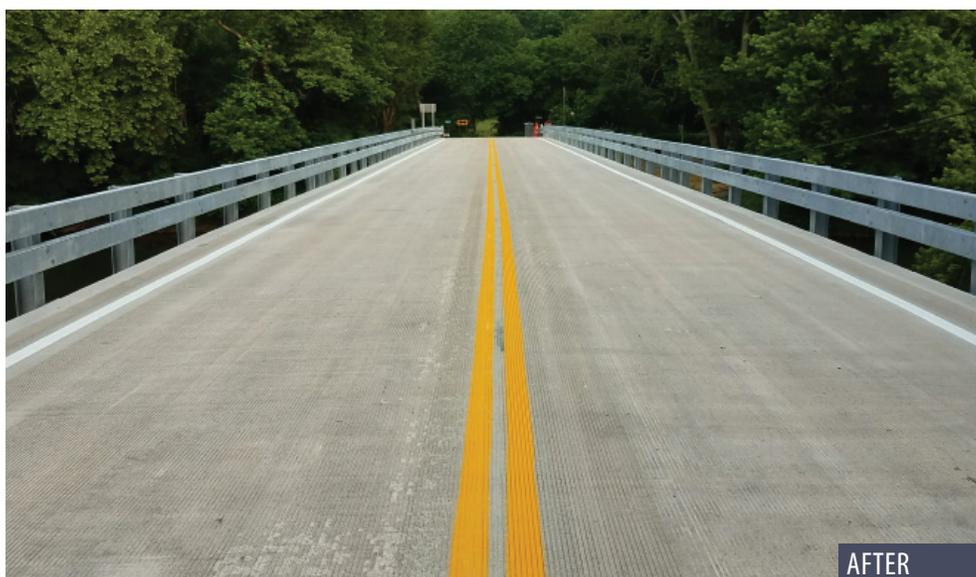
LYTLE ROAD BRIDGE #28-0.44

Warren County replaced the Lytle Road Bridge #28-0.44 over the North Fork of Newmans Run during the spring and summer of 2018. The bridge is located on Lytle Road east of Lytle-Ferry Road in Wayne Township. It was a force account project that consisted of removing the existing concrete slab bridge and replacing it with an aluminum box culvert. The project estimate was \$98,359.73. The total actual cost was \$119,392.37, using funds from the Warren County Engineer. The reason for the overage was due to weather during construction and therefore we used more county labor and equipment than expected.



STROUT ROAD BRIDGE #207-0.02

Warren County rehabilitated the Strout Road Bridge #207-0.02 over the Little Miami River during the spring and summer of 2018. The bridge is located on Strout Road near the intersection of Strout Road and Mason-Morrow-Millgrove Road along the Salem and Washington Township Line. The existing pre-stressed concrete box beam deck was replaced with a new pre-stressed composite concrete box beam deck utilizing the existing concrete abutments and piers. Eagle Bridge Company completed the bridge rehabilitation for this project for \$908,840.78. The project was funded with state funds from the Federal to State Funding Exchange for Local Bridge Replacement Projects and the Warren County Engineer.



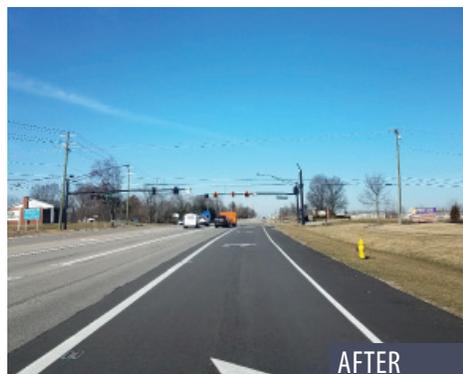
OLD SR 122 / TOWNSHIP LINE ROAD INTERSECTION IMPROVEMENTS PROJECT

Warren County completed the Old SR 122 and Township Line Road Intersection Improvements Project during the spring and summer of 2018. The project consisted of constructing a rural single lane roundabout and associated roadway improvements at the intersection of Old SR 122 and Township Line Road located in Clearcreek Township and Wayne Township. The improvements included a new roundabout at the intersection, various profile adjustments on the roadways leading into the roundabout, and drainage improvements. Rack and Ballauer Excavating Company Inc. completed the intersection improvements project for \$1,321,539.03. The project was funded with federal funds from the Federal (HSIP) Highway Safety Improvement Program and the Warren County Engineer.



AFTER

TYLERSVILLE ROAD RIGHT TURN LANE



AFTER

The Warren County Engineer's Office has completed the Tylersville Road right turn lane at the intersection of Tylersville Road and Butler-Warren Road in Deerfield Township. This project consists of a traffic signal modification and a 500 foot right turn lane added to Tylersville Road. The project was designed by Tran-Systems. R.B. Jergens Contractors, Inc. constructed the right turn lane project for \$196,065.12. The project was funded by the Warren County Engineer.

WILMINGTON ROAD DRILLED PIER WALL PROJECT

Warren County completed the Wilmington Road Drilled Pier Wall Project during the fall of 2018. The project consisted of constructing approximately approx. 85 feet of structural drilled pier wall and 285 feet of drilled pier wall plugs along Wilmington Road stopping the roadway slide down toward the ODNR scenic bike path. The pier wall is located on Wilmington Road just south of the Corwin Road intersection in Washington Township. The project was designed by Terracon Consultants Inc. W.E. Smith Construction completed the pier wall project for \$115,126.10. The project was funded by the Warren County Engineer. Early this current year, 2019, a section of Wilmington Road just southeast of this project had a significant slide forcing the road to be closed indefinitely.

2018 WARREN COUNTY PAVING

Cost – \$ 3,456,744.80
Contractor – Barrett Paving

COUNTY ROADS

Butler Warren Road (CR 2)	Ferry Road (CR 49)
Wilmington Road (CR 7)	Township Line Road (CR 134)
Oregonia Road (CR 12)	Zoar Road (CR 153)
Lytle Road (CR 28)	Old SR 122 (CR 230)

TOWNSHIP ROADS

CLEARCREEK TWP
Sycamore Trails Drive (TR 509)
Riley Wills Road (TR 130)
Country Brook Court (TR 1547)
Fall View Court (2219)
Utica Road (TR 42)
Pekin Road (TR 53)
Weidner Road (TR 124)
Rainey Road (TR 936)
Jade Point Court (TR 939)

FRANKLIN TOWNSHIP
Howard Road (TR 306)
Randall Road (TR 1247)
Spring Drive (TR 2031)
Tama Drive (TR 2055)

HAMILTON TOWNSHIP
Ford Road (TR 162)
Hamilton Avenue (TR 2079)
Robin Drive (TR 282)
Stephen Street (TR 2083)
Marion Avenue (TR 2078)
Pamela Circle (TR 2081)
Stephens Road (TR 158)
Red Fox Trail (TR 1070)

HARLAN TOWNSHIP
Eltzroth Road (TR 173)
Lundy Whitacre Road (TR 198)

MASSIE TOWNSHIP
Huddleson Road (TR 222)
Pioneer Village Drive (TR 292)

TURTLECREEK TOWNSHIP
Harbor Drive (TR56)
Nixon Camp Road (TR 83)
Monroe Road (TR 248)
Mocking Bird Lane (TR 276)
Deer Run (TR 300)
Woodwind Court (TR 720)
Alberton Place (TR 1073)

WASHINGTON TOWNSHIP
Strout Road (TR 207)
Shawhan-Ayers Road (TR 213)





The Warren County Transportation Improvement District (WCTID) is a governmental entity created by the Warren County Board of County Commissioners. The WCTID possesses general powers to operate and fund highway-related projects with the purpose to improve the transportation system in Warren County.

WESTERN ROW ROAD INTERCHANGE

Western Row Road is a key access point along the I-71 Corridor, attracting a growing number of businesses and residents. The work completed on this interchange improves safety, reduces congestion, and expands access to the many business and recreational destinations in the area. The improvements on the I-71 and Western Row Interchange are part of an integrated program, along with the work at the I-71 and Fields-Ertel Interchange, that has significantly relieved congestion for people who travel along I-71 in the northern Hamilton and Warren County area.

The \$16.4 million dollar award by TRAC funded construction of the interchange improvements that was completed in two phases: Phase 1, the Columbia Road Relocation, allows travelers to move more easily through the area by improving turn lanes and extending the distance between the I-71 off ramp intersection and Columbia Road. Phase 2, also known as the I-71 Interchange Modifications, provides full access to and from I-71 in the Western Row area by adding a new exit ramp from southbound I-71 to Innovation Way, as well as the addition of two northbound I-71 on-ramps from Western Row Road.

The Western Row Road Interchange opened ahead of schedule early 2019, on budget.



Left image: Various local and regional officials cutting the ribbon at the opening of the new southbound exit and entrance ramps of the I-71 and Western Row Road Interchange; Bottom image: An aerial image looking north at the newly expanded I-71 and Western Row Road Interchange.





INNOVATION WAY EXTENSION AND WIDENING

The Innovation Way Extension project consisted of extending the roadway from the new roundabout at Socialville-Fosters Road to Duke Boulevard, with a five-lane section, including an additional double-lane roundabout at the new intersection with Duke Boulevard. This project began early 2017 and some last finishing items will be completed in spring of this year. The new roadway includes curb and gutter improvements, storm sewers, a 10' multiuse path and center medians. Also as part of this project work, Duke Boulevard was widened to five lanes from Irwin-Simpson Road to Innovation Way.

MASON-MONTGOMERY ROAD WIDENING

An additional lane on northbound Mason-Montgomery Road from Parkway Drive to Socialville-Fosters Road has been built, and an additional lane on southbound Mason-Montgomery Road from Socialville-Fosters Road to Escort Drive has been built. Also as part of this work, additional pedestrian walkways and bike paths have been added. A continuation of the shared-use path that begins at Socialville-Fosters Road and Mason-Montgomery Road continues south from Socialville-Fosters Road to Irwin-Simpson Road, and a sidewalk has been built from Irwin-Simpson Road to Parkway Drive. In addition, curb and gutter, and storm sewer improvements have been made. This work was completed in November of 2018 for approx. \$6.1 million.

DUKE BOULEVARD WIDENING

Duke Boulevard, from Irwin-Simpson Road to Innovation Way, was widened from three to five lanes. The roadway construction was completed in November of 2018, with only incidental improvements including final grading and pavement markings to be completed in Spring of 2019. The final project cost is estimated at \$1.2 million.

Two different websites and corresponding social media have been serving us and the public in the sharing of information and construction updates.



The websites: AdvancingFieldsErtel.com for the I-71 and Fields-Ertel Road Interchange and ImagineWesternRow.com for the I-71 and Western Row Road Interchange.





STATE ROUTE 48 AND MASON-MORROW-MILLGROVE ROAD

The Village of South Lebanon, in partnership with the Ohio Department of Transportation (ODOT), the Ohio-Kentucky-Indiana Regional Council of Governments (OKI), and the Warren County Transportation Improvement District (WCTID), completed improvements to the intersection at State Route 48 and Mason-Morrow-Millgrove Road. The improvements included widening of SR 48 and Mason-Morrow-Millgrove Road to include several turn lanes: SR 48 southbound, left and right turn lanes, Mason-Morrow-Millgrove Road eastbound left-turn lane and right turn lane, and Mason-Morrow-Millgrove Road westbound left turn lane. The project cost \$2.4 million.

STATE ROUTE 73 AND STATE ROUTE 741

In mid-2017, the intersection of State Route 73 (Central Avenue) and State Route 741 (North Main Street) underwent major reconstruction.

The purpose of the project was to implement a transportation solution that addressed capacity deficiencies, safety issues and pedestrian connectivity at the intersection of State Route 741 and State Route 73. Project improvements included the widening of the intersection, providing additional turn movements, upgrading traffic signals, providing improved pedestrian crossings, and upgrades to drainage and utility systems in the intersection area. Construction cost \$2.8 million and total costs were \$9 million total, funded by the Ohio Department of Transportation and the City of Springboro.



TAX MAP DEPARTMENT

Accomplishments

- Upgraded 2 drafting stations for the map conversion project to dual monitors.
- Qualified 2 additional employees in the drawing review process.
- Digitally archived existing railroad drawing files.

Functions

With respect to the Ohio Revised Code, the function of the tax map department includes the following:

1. Per O.R.C. 315.25, we create and maintain an accurate record of surveys of land and road lines.
2. Per O.R.C. 315.251, we determine if survey plats and descriptions satisfy the minimum for boundary surveys pursuant to Chapter 4733.
3. Per O.R.C. 315.27, we create and maintain indexes of records.
4. Per O.R.C. 317.34, we approve subdivisions for the office of Recorder.
5. Per O.R.C. 319.203, we adopt standards of conveyance and ensure compliance.
6. Per O.R.C. 709.031(A), we prepare a report for petitions of annexations.
7. Per O.R.C. 713.26, we assist the regional planning commission.
8. Per O.R.C. 5311.05, we review condominium declarations.
9. Per O.R.C. 5713.09, we make, correct, and maintain a complete set of tax maps.

Also, we label legal descriptions by parcel number for identification in the Auditor's office and for indexing in the Recorder's office. We assist the public and other government agencies in utilizing the records we keep on file.

Statistics

- Major documents processed.

• Deeds	8,754
• Mortgages	9,653
• Assignments and releases	9,986
- Total documents processed 28,393
- Surveys filed -- 209
- Plats filed -- 100
- Sheriff's precepts processed -- 240

Plans for 2019

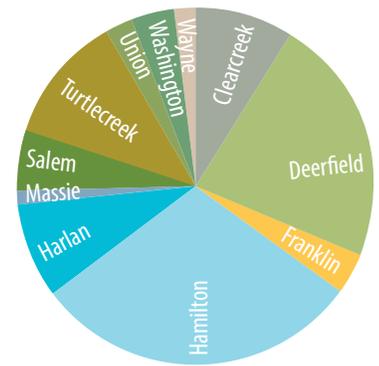
- Continue the capture and quality control of all paper tax map data into the GIS mapping system and print new tax map pages.
- Complete an archival scan of all 2018 Tax Maps.
- Research technology and equipment to assist the Map Room to go paperless.
- Develop a survey tracking database for drawings under review.
- Index tax maps from 2002 to 2006 into OnBase.

PERMITS SUMMARY

The following are tables showing the permit summaries of 2015, 2016, 2017, and 2018:

Right-of-Way Permits

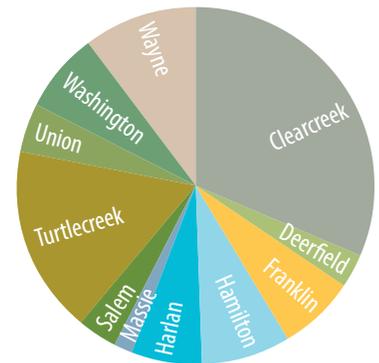
	2015	2016	2017	2018
Clearcreek	21	19	13	15
Deerfield	57	122	82	52
Franklin	4	7	17	15
Hamilton	69	72	103	63
Harlan	19	24	37	21
Massie	1	1	6	3
Salem	12	5	9	17
Turtlecreek	31	45	36	36
Union	6	8	21	17
Washington	9	11	14	16
Wayne	4	5	21	22
Total	233	319	359	277



Breakdown of 2018
ROW Permits by Township

Driveway/Address/Piped Frontage

	2015	2016	2017	2018
Clearcreek	90	91	75	67
Deerfield	9	15	20	8
Franklin	20	15	12	11
Hamilton	23	22	31	19
Harlan	18	18	26	28
Massie	5	4	5	4
Salem	10	17	11	24
Turtlecreek	49	40	62	72
Union	12	13	42	18
Washington	21	10	17	10
Wayne	29	16	38	25
Total	286	261	339	286



Breakdown of 2018
Driveway Permits by Township

WARREN COUNTY HIGHWAY DEPARTMENT

The Highway Department fulfills basic county road and bridge maintenance for 267.69 miles of road, 389 bridges, and 1,392 culverts as well as support to surrounding townships and villages. Included in this are functions such as performing speed studies, installing road signage, detour routing, traffic signals, maintenance mechanics, building and grounds maintenance. One dimension of the department is the Highway Maintenance Facility which has (4) full time Mechanics and (1) Highway Clerk. The other dimension of the department is the Highway Maintenance Personnel (Road Crew) which consists of the Deputy of Operations, (1) Foreman, (21) road crew employees, and (1) seasonal employee (winter).

The road crew makes up the majority of the Highway Dept. This group of employees is responsible for the maintenance of the existing county highway system. Their duties require them to maintain a CDL operator's license. Types of duties performed -- Tree Trimming, Brush Cutting, Guardrail Work, Ditch Cleaning, Culvert Installation and Replacement, Setting up Work Zones, Roadside Mowing, Shoulder Repair, Bridge Installation and Repair, New Road Construction, and Emergency Situations.

Our employees may be called upon for emergency situations, storm clean-up, trees down, flooding, and other road hazards. Snow and Ice Control is our most challenging weather event. We have a call out person that is on call after hours and on weekends to handle emergencies. He has Unit 33 that is equipped with chain saw, road closure signs, etc.

The Highway Department's primary function during winter months is keeping Warren County roadways clear of snow and ice. There were 15 snow occurrences during the 2017-2018 winter season that required 1,818.25 hours of overtime by our road crew and consumed 3,299.5 tons of salt and 15,487 gallons of Beet Heat to clear the roads. The entire season cost the county \$257,254.76 in overtime, fuel, salt, and beet heat.





Stormwater Permit (Phase II)

Warren County is currently regulated by a stormwater permit from the Ohio EPA required by Phase II of the National Pollution Discharge Elimination System (NPDES), we refer to it as just "Phase II." The goal of the program is to protect the quality of our streams, lakes, and groundwater. The Stormwater District, a department of the Engineer's Office, coordinates this permit for other entities including the Townships of Clearcreek, Franklin, Hamilton, Turtlecreek, and Union and the Villages of Maineville and South Lebanon. The requirements of the permit are met by collaborating with other local agencies such as the Warren County Combined Health District and the Warren County Soil and Water Conservation District (SWCD).

Throughout 2018, we continued our efforts to fulfill the permit requirements by providing education and outreach on stormwater quality to residents ranging in age from school children to adults. This happens through classroom programs and at local festivals and events with the mobile Thomas C. Spellmire Water Conservation Education Exhibit. In anticipation of a new permit in 2019 from Ohio EPA, the Stormwater District and the SWCD have updated the stormwater management and erosion and sediment control regulations along with the stormwater management plan. Lastly, local partnerships allowed for continued mapping of home sewage treatment systems (HSTs) that were not included in previous mapping efforts.

Find out how you can do your part to protect water quality by visiting our website: <http://www.wceo.us/pages/Stormwater-District.html>

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ENGINEER'S OFFICE ADMINISTRATION and ENGINEERING

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HIGHWAY DEPARTMENT

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(513) 695-3329

TAX MAP DEPARTMENT

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(513) 695-1190

*Please visit the County Engineer's website for updates on
projects, road closures, and other helpful information.*

<http://www.WCEO.us/>

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