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Warren County Engineer's Office

ANNUAL REPORT



<http://www.WCEO.us>



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

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

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



Dear Citizens of Warren County,

Road and bridge activity was moderate in 2021. The largest project was the roundabout construction at the intersection of Lytle-Five Points Road and Bunnell Hill Road in Clearcreek Township. A bridge using prototype reinforcing in concrete beams and using federal funds was built on Edwardsville Road. Two other bridge replacements were made on Union Road and another on Springboro Road. The Warren County Transportation District working with the Ohio Department of Transportation began a new ramp from southbound Mason-Montgomery Road onto southbound I-71 that will be complete by November.

This year, large projects are being designed and advanced for the next two years, but also get some significant ones underway this year. The King Ave. bridge over the Little Miami State and National Scenic River is underway, the largest single construction project undertaken by this office. A joint project with the Butler County Engineer's Office to cut the hill on Butler-Warren Road south of Princeton and widen the road to three lanes between Bethany Road and Roberts Park is scheduled for this year.

The Warren County Transportation Improvement District using funds from the Board of Warren County Commissioners to leverage federal dollars is developing the construction plans and acquiring right-of-way for widening of State Route 63 between Union Road and State Route 741 in Turtlecreek Township and for widening of State Route 48 between Willow Pond Boulevard and Ridgeview Lane. Duke Energy will begin in June a very complicated realignment of high voltage transmission lines to make way for the State Route 63 widening project. Both projects are scheduled to begin in 2023. Plans for widening to five lanes of Fields-Ertel Road between Snider Road and Escort Drive is underway that includes a roundabout at intersection of Wilkens Boulevard at Bardes Drive that will permit better traffic flow from Wilkens Boulevard to southbound I-71. This project will begin in 2024.

The TID is also working on construction plans to signalize the southbound I-71 ramps at State Route 48 and other ramp improvements scheduled to begin in late 2025. This office is working with Bon Secours Mercy Health on road improvements around the new Mercy Health hospital now under construction at the intersection of Kings Island Drive and Kings Mills Road. Road improvements will begin later this year.

Thank you to our Board of County Commissioners, the County Prosecutor's Office, The County Sheriff's Office, the County Auditor's Office, other County offices, our Township Trustees and Fiscal Officers, municipalities, the Ohio Department of Transportation, the Ohio Public Works Commission and our many funding partners to make possible the many projects we are bringing to you.

I hope you enjoy and find this 2021 Annual Report very informative, a review of hard work and accomplishments of my entire staff and our local partners.

Ohio Revised Code 5543.02 Annual Report

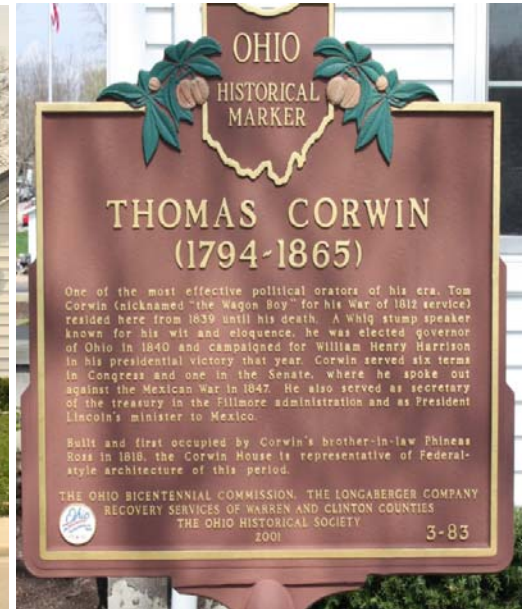
The county engineer shall report to the board of county commissioners, on or before the first day of June in each year, the condition of the county roads, bridges, and culverts, and estimate the probable amount of funds required to maintain and repair or to construct any new roads, bridges, or culverts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



The Warren County Engineer's Office Administration & Engineering Department is located in the historic Corwin House at 210 W. Main Street in Lebanon, Ohio. Permitting & Inspection is located at WCEO's facility at 105 Markey Road, Lebanon, Ohio and serves in issuing permits, subdivision inspections, and traffic & safety. Also located at the Markey Road facility is the highway maintenance building, including two salt storage bins, with two additional locations: one in Wayne Township and one in Harlan Township.

FINANCIAL HIGHLIGHTS FOR 2021

EXPENDITURES

Payroll	\$2,486,498.08
Equipment & Facilities	\$3,418,585.65
Benefits	\$767,850.57
Other	\$134,700.48
Capital Improvements	\$2,263,009.43
Insurance	\$3,892.00
Material & Maintenance	\$784,967.33
	\$9,859,503.54

REVENUE

Investments	\$0.00
Reimbursement	\$114,878.87
Sales	\$163,354.80
GIS	\$0.00
Gas Tax	\$3,739,694.30
Vehicle License	\$8,380,210.80
	\$12,398,138.77

BRIDGE PROJECTS

Armstrong Road Bridge #176-0.13

Warren County replaced the Armstrong Road Bridge #176-0.13 over O'Bannon Creek during the spring and summer of 2021. The bridge is located on Armstrong Road between SR 132 and the Clermont County Line in Harlan Township. It was a force account project that consisted of removing the existing concrete slab bridge and replacing with a reinforced concrete box culvert. The project cost \$94,085.91 and the project construction was funded by the Warren County Engineer.



BEFORE



NEAR COMPLETION

Waynesville Road Bridge #39-0.77

Warren County replaced the Waynesville Road Bridge #39-0.77 over Gray's Run during the summer of 2021. The bridge is located on Waynesville Road between Anderson Road and Halls Creek Road in Salem Township. It was a force account project that consisted of removing the existing concrete slab bridge and replacing with a reinforced concrete box culvert. The project cost \$100,498.71 and the project construction was funded by the Warren County Engineer.



BEFORE



NEAR COMPLETION

Morrow-Rosburg Road Bridge #27-4.29

Warren County replaced the Morrow-Rosburg Road Bridge #27-4.29 over Little Run during the summer of 2021. The bridge is located on Morrow-Rosburg Road just west of Volkerding Road in Harlan Township. It was a force account project that consisted of removing the existing stone arch bridge and replacing with a reinforced concrete box culvert. The project cost \$155,381.13 and the project construction was funded by the Warren County Engineer.



BEFORE



NEAR COMPLETION

BRIDGE PROJECTS

Springboro Road Bridge #41-2.49

Warren County rehabilitated the Springboro Road Bridge #41-2.49 over Bull Run during the summer of 2021. The bridge is located on Springboro Road between Pekin Road and Red Lion-Five Points Road in Clearcreek Township. The existing pre-stressed concrete box beams were replaced with a new wider pre-stressed composite concrete box beam deck utilizing concrete stub abutments supported by driven piles. Brumbaugh Construction completed the project for \$257,746.00. This bridge was funded by the Warren County Engineer.



Edwardsville Road Bridge #196-1.01

Warren County rehabilitated the Edwardsville Road Bridge over Lick Run during the summer and fall of 2021. The bridge is located on Edwardsville Road west of Osceola Road in Harlan Township. The existing pre-stressed concrete box beams were replaced with a new wider pre-stressed concrete box beam deck utilizing the existing concrete abutments. The new box beams were fabricated utilizing new technology with carbon fiber composite cables as part of a County Pilot Project through CEAO. Eagle Bridge Company completed the project for \$517,192.75. The bridge work was funded by the Federal to State Funding Exchange for Local Bridge Replacement Projects and the Warren County Engineer.



Union Road Bridges #33-4.92 & #33-5.16

Warren County rehabilitated the Union Road Bridges #33-4.92 over Hendricks Run and #33-5.16 over Eberharts Run during the summer and fall of 2021. The bridges are located on Union road south of SR 122 in the City of Middletown and in Turtlecreek Township. The existing pre-stressed concrete box beam bridge decks were replaced with new wider reinforced concrete slab bridge decks resting on the existing concrete abutments. DDK Construction Inc. completed the project for \$492,960.65. The project was funded by the Warren County Engineer.



ROAD PROJECTS

Lower Springboro Road Drilled Pier Wall

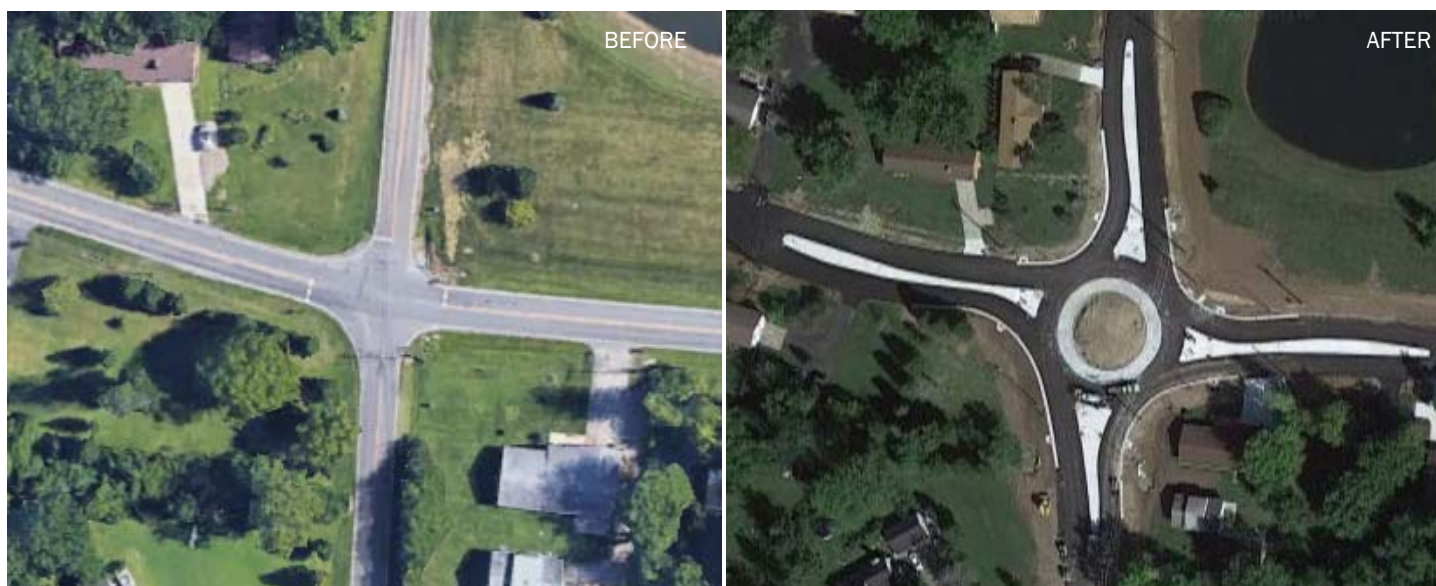
Warren County completed the Lower Springboro Road Drilled Pier Wall Project during the fall of 2021. The project consisted of constructing approximately 100 feet of drilled pier wall along Lower Springboro Road stopping the roadway slide down the hillside. The pier wall is located on Lower Springboro Road just west of Cincinnati-Columbus Road in Wayne Township. W.E. Smith Construction completed the drilled pier wall project for \$83,699.00. The project was funded by the Warren County Engineer.



Lytle Five Points Road/Bunnell Hill Road Roundabout

The Lytle Five Points and Bunnell Hill intersection was previously controlled with four way stop signs. The turning radii were insufficient and trucks and buses had difficulty making the turn. The intersection of Red Lion Five Points Road, just to the south, connected to Bunnell Hill at an acute angle and create additional turning issues.

In order to improve traffic flow, reduce traffic congestion and reduce high impact accidents, a roundabout was constructed and the Red Lion Five Points Road terminus was re-aligned to create a 90 degree angle with Bunnell Hill Road. The project was completed in early October 2021 and has been well received. The total project cost was \$1.6 million dollars and funded through the Greens of Bunnell Hill Residential Improvement District.



Roundabouts are a **safer alternative to traffic signals and stop signs**. The tight circle of a roundabout forces drivers to slow down, and the most severe types of intersection crashes — right-angle, left-turn and head-on collisions — are unlikely. Roundabouts improve traffic flow and are better for the environment.

FUTURE PROJECTS

King Avenue Bridge #282-0.97 Over Little Miami River Improvements Project

Bridge #282-097 is in need of replacement as the existing concrete box beams have deteriorated to a point where the bridge is currently posted for reduced loads. Based on a public involvement meeting during the spring of 2017 the Warren County has decided to move forward with a bridge relocation upstream of the existing crossing. The new bridge will be a two span steel girder bridge that will accommodate vehicles, pedestrians, and bikes. The project will include road improvements to the bridge approaches and provide a grade separation between Grandin Road and the Little Miami Scenic Trail. The project was recently awarded to the Eagle Bridge Co. for \$22,047,747.70. The project construction will be funded by federal Local Bridge Replacement funds, federal Surface Transportation Program funds, state Ohio Public Works Commission funds, and local funds from the Warren County Engineer, the Warren County Water & Sewer Department, the City of Mason, The City of South Lebanon, and Deerfield Township. The project was designed by Stantec Consulting Services and the design was funded by the Warren County Engineer. The project construction is scheduled for 2022 and 2023. The bridge is located on King Avenue over the Little Miami River along the Deerfield and Hamilton Township Line. The project started in early March as seen in land clearing photos below.



FUTURE PROJECTS

Roachester-Cozaddale Road Bridge #52-4.02

Bridge #52-4.02 is in need of rehabilitation as the existing concrete box beams have deteriorated to a point where the bridge is currently posted for reduced loads. The bridge will have the existing deteriorated pre-stressed concrete box beam deck replaced with a new pre-stressed composite concrete box beam deck utilizing the existing concrete abutments. The total project cost is estimated at \$400,000. The project construction will be funded by state funds from Local Bridge Replacement Projects as administered by CEAO and local funds from the Warren County Engineer. The project was designed by LJB Inc. and is tentatively scheduled for construction in 2025. The bridge is located on Rochester-Cozaddale Road between Morrow-Rosburg Road and Achterman Road in Harlan Township.

McClure Road Bridge #71-0.39

Bridge #71-0.39 is in need of rehabilitation as the existing concrete box beams have deteriorated to a point where the bridge is currently posted for reduced loads. The bridge will be rehabilitated with a new pre-stressed composite concrete box beam deck on existing concrete abutments supported by driven piles. The total project cost is estimated at \$575,000. The project construction will be funded by state funds from the Local Bridge Replacement Projects as administered by CEAO and local funds from the Warren County Engineer. The project is currently being designed by Palmer Engineering and is tentatively scheduled for construction in 2027. The bridge is located on McClure Road between US 42 and Hamilton Road in the City of Lebanon.

Mason-Morrow-Millgrove Road Bridge #38-3.73

Bridge #38-3.73 is in need of rehabilitation as the existing concrete box beams are deteriorating. The bridge will be rehabilitated with a new pre-stressed composite concrete box beam deck on existing concrete abutments. The total project cost is estimated at \$575,000. The project construction will be funded by state funds from the Ohio Public Works Commission and local funds from the Warren County Engineer and the City of South Lebanon. The project was designed by the IBI Group and is tentatively scheduled for construction in 2023. The bridge is located on Mason-Morrow-Millgrove Road (Pike Street) between Main Street and High Street in the City of South Lebanon.

Township Line Road Improvements and Bridge #134-3.76 Replacement

Bridge #134-3.76 is in need of replacement as the existing stone arch structure is deteriorating. The bridge will be replaced with a new precast three sided flat top concrete culvert. The project also involves a roadway fill for a sag vertical profile improvement in the vicinity of the bridge. The project was designed by LJB Inc. and is not yet scheduled for construction. The project cost is estimated at \$450,000 and is currently planned to use local funds from the Warren County Engineer for construction. The bridge is located on Township Line Road between SR 73 and Lower Springboro Road in Clearcreek and Wayne Townships.

Old 3'C Highway Bridge #10A-0.86 Extension and Slip Repair

Bridge #10A-0.86 headwall is in need of repair which has caused the shoulder to slip. The existing bridge will be extended with an aluminum pipe arch structure to allow for proper grading of the shoulder. The project construction will be funded by the Warren County Engineer. Construction is scheduled for 2022. The bridge is located on Old 3'C Highway at the intersection of SR350 in Washington Township.

Middleboro Road Bridge #45-0.16

Bridge #45-0.16 is in need of replacement as the existing stone arch bridge is deteriorating. The existing bridge will be replaced with a reinforced concrete cast-in-place culvert structure in this structural design build project. The project was awarded to W.E. Smith Construction for a total bid price of \$186,597.00. The project will be funded by the Warren County Engineer and construction is expected to begin during the spring or summer of 2022. The bridge is located on Middleboro Road between the Clinton County line and Henry-Plummert Road in Harlan Township.

FUTURE PROJECTS

Crossley Road Bridge #127-0.51

Bridge #127-0.51 is in need of replacement as the existing twin steel pipe arch bridge is deteriorating. The existing bridge will be replaced by force account with an 8'x4' reinforced concrete box culvert. The project cost estimate is \$100,000 and the project construction will be funded by the Warren County Engineer. Construction is scheduled for 2022. The bridge is located on Crossley Road between Red Lion-Five Points Road and Lytle-Five Points Road in Clearcreek Township.

Harlan Carroll Road Bridge#221-0.84

Bridge #221-0.84 is in need of replacement as the existing concrete slab bridge is deteriorating. The existing bridge will be replaced by force account with a 16'x5' reinforced concrete box culvert. The project cost estimate is \$100,000 and the project construction will be funded by the Warren County Engineer. Construction is scheduled for 2022. The bridge is located on Harlan-Carroll Road between Huddleson Road and Harveysburg Road in Massie Township.

Oregonia Road Culvert #12-6.04 and Embankment Stabilization

Culvert #12-6.04 is in need of rehabilitation as the existing concrete arch culvert is deteriorating. The existing culvert will be slip-lined by force account with a 42" conduit. The conduit will be extended to allow for proper grading of the shoulder. The project cost estimate is \$100,000 and the project construction will be funded by the Warren County Engineer. Construction is scheduled for 2022. The culvert is located on Oregonia Road just east Corwin Road in Washington Township.

Olive Branch Drilled Pier Wall

Olive Branch Road currently has a roadway slide and is in need of a drilled pier wall to stabilize it. The project will consist of constructing approximately 120 feet of drilled pier wall along Olive Branch Road between Corwin Road and Murray Road in Washington Township. The project was designed by Terracon Consultants Inc. and is estimated at \$100,000. The project will be funded by the Warren County Engineer and is not yet scheduled for construction.

Columbia Road Widening at US22/SR3 Project

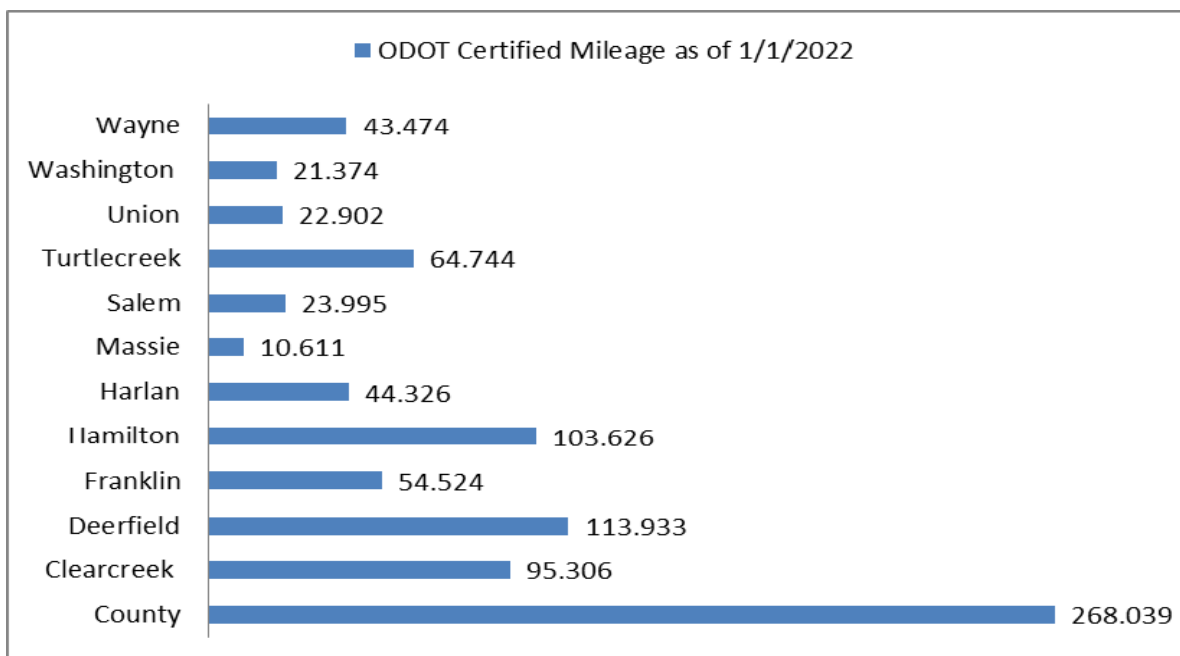
This project consists of the addition of a right turn lane on northbound Columbia Road at US22/SR3 in Deerfield Township. The improvements will include a right turn lane, signal modifications and associated roadway work. Construction of the project is scheduled for summer 2022. The cost estimate for the improvement is \$250,000. The project design and the construction will be funded by the Warren County Engineer.

Butler Warren Road Widening Project (from Bethany Rd to Roberts Park Subdivision)

In partnership with the Butler County Engineer's Office, a widening project will be constructed. The project will widen Butler-Warren Road from two lanes to three lanes which will include a center two-way left turn lane, profile adjustment near Princeton Road intersection and a two foot shoulders. The project construction begins just north of the Bethany Road intersection for 0.66 miles to just south of the Roberts Park subdivision entrance. The project cost estimate is \$2,000,000. This project is set to begin construction in the spring of 2022. This project is funded by the Warren County Engineer, Butler County Engineer and Ohio Public Works Commission (OPWC).

PLANNING AND DESIGN OVERVIEW AND STATS 2021:

- ◆ Construction Plan Review
 - ◇ 13 new submittals
 - ◇ 49 total submittals
- ◆ Record plat review
- ◆ Handle bonds for streets and appurtenances
 - ◇ 23 new bonds acquired
 - ◆ A total of \$2,485,360.97 in new bonds
 - ◇ \$43,318,663.18 worth of future public infrastructure inspected
 - ◇ Reduce bonds after completion of improvements
 - ◇ 23 bonds released
- ◆ Subdivision Inspection
 - ◇ Perform subdivision walk-throughs & create punch lists
 - ◇ 40 street segments turned over for public maintenance to the townships
- ◆ Addressing
 - ◇ Issue all new (residential/commercial) addresses for the unincorporated portions of the County as well as the Villages of Corwin, Harveysburg, Maineville, Morrow, Pleasant Plain, and South Lebanon.
 - ◇ Over 550 new residential addresses issued, not including those issued by Driveway Culvert Permit
 - ◇ In 2021 we, along with other departments, started planning and designing a new addressing system. It is currently in the development stage. We hope to start using the new system late 2022/early 2023.
- ◆ Manage road inventory/assign road numbers for the unincorporated portions of the County.
- ◆ ODOT road mileage certification
 - ◇ This year's certification process included incorporating Warren County into ODOT's Location Based Response System (LBRS). Each township and the County saw a change in mileage, some an increase and some a decrease. To find out more about LBRS check out: <https://www.transportation.ohio.gov/wps/portal/gov/odot/programs/technical-services/transportation-information-management/lbbs>



2021 Resurfacing Project

Contractor: Barrett Paving Materials, Inc.

Cost: \$4,705,872.97 (WCEO portion was \$2,804,073.94, Township portion was \$1,901,799.03)

Warren County Roads (16.274 Miles)

Fields-Ertel Road (CR 1), Wilmington Road (CR 7), Oregonia Road (CR 12), Columbia Road (CR 15), Union Road (CR 33) Mason-Morrow-Millgrove (CR 38), Middleboro Road (CR 45), Kenrick Road (CR 133), Whitacre Road (CR 181), Hart Road (CR 278), Shoemaker Road (CR 299)

Reclamite Asphalt Rejuvenator was applied to all Warren County roads that were resurfaced. Reclamite restores the reactive maltene components of asphalt that are damaged due to hot plant operations and placement of asphalt. It is expected that Reclamite will extend the pavement life by 4-6 years and reduce the life-cycle cost by approximately 20%.

Township Roads

Clearcreek Township (5.522 Miles)

Pekin Road (TR 53), Weidner Road (TR 124), Bunnell Hill Road (TR 128), Weisenberger Road (TR 129), Riley Wills Road (TR 130) Pond View Court (TR 400), Stokes Reserve Court (TR 401) Evan Court (TR 459), Binkley Lane (TR 2053)

Franklin Township

Woodhill Cemetery—Section C

Hamilton Township (5.130 Miles)

Mounts Road (TR 159), Canute Court (TR 752), Crystal Cove Point (TR 805), Linden Creek (TR 841), Grandin Ridge Drive (TR 1323), Ridgeview Lane (TR 1324), Willow Pond Boulevard (TR 1348), Indian Bluffs Drive (TR 1484), Bluffton Terrace Drive (TR 1485), Quellin Boulevard (TR 2485)

Harlan Township (1.245 Miles)

Templin Road (TR 186), McCulley Lane (TR 284)

Salem Township (2.345 Miles)

Shawhan Road (TR 79), Bennett Road (TR 166), Twin Lakes Drive (TR 1069), Red Fox Trail (TR 1070), Gray Fox Trail (TR 1072)

Turtlecreek Township (2.575 Miles)

Waynesville Road (TR 39), Nixon Camp Road (TR 83), Liberty-Keuter Road (TR 95)

2020 Resurfacing Project

Township Roads

Village of Maineville (0.313 Miles)

Mounts Road (TR 159)

Washington Township (1.619 Miles)

Settlemyre Road (TR 214)

Wayne Township (2.661 Miles)

Old Stage Road (TR 50)

2020 Chip Seal Project

Contractor: Miller-Mason Paving Company

Cost: \$153,689.66 (WCEO portion was \$0.00, Township portion was \$153,689.66)

Township Roads

Harlan Township (6.557 Miles)

Roachester-Cozaddale Road (TR 52), Starkey Road (TR 177), Gustin Rider Road (TR 187), Vandervoort Road (TR 195), Henry Plummert Road (TR 203), Watkins-Bowman Road (TR 208), Jackson-Runyon Road (TR 256)

Massie Township (2.026 Miles)

Furnas-Ogelsbey Road (TR 232)

Washington Township (3.490 Miles)

Ward-Koebel Road (TR 215), Ross Road (TR 249)

Transportation Improvement District



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.

Site work preparation for the new southbound Mason-Montgomery ramp to southbound I-71 and detailed design for major improvements were the principal activities for 2021.

Construction on the new I-71 ramp mentioned began in August. The Ohio Department, overseeing the construction phase, awarded the contract to Eagle Bridge for \$4,732,018.06 in June. The \$7.2 million project is being funded with \$5.4 million in federal Surface Transportation Block Grant funds allocated by the Ohio Kentucky Indiana Regional Council of Governments.

Other WCTID 2021 efforts included design of widening of State Route 63 between Union Road and State Route 741 in 2023. This project will require relocation of overhead utilities including installation of a high voltage transmission tower beginning this summer. Design is underway for widening of State Route 48 between Willow Pond Drive and Ridgeview Drive in Hamilton Township. This project is scheduled to begin in summer of 2023, also. Design continues for three (3) projects funded with ODOT Safety Funds for the communities of Franklin, Lebanon, and Springboro. The projects are Mason-Morrow-Millgrove Road Realignment; SR 741 and Remick Boulevard Intersection Improvements; and I-75 & SR 73 Interchange Improvements. These projects will increase the safety to our County highway system while being funded 100% by ODOT. Design will soon be underway for a traffic signal and turn lane improvements on I-71 at the southbound ramps at State Route 48 to be constructed in 2026. ODOT was awarded traffic system management funds that fit into a package of projects that the WCTID will seek other funds this year. The local matches have been provided by the Warren County Commissioners. Both the Board of County Commissioners and ODOT have been great partners on our many projects and we are truly grateful.

Proposed Traffic Signal at I-71 Southbound
Ramps at State Route 48
Scheduled for 2026



Tax Map Department

Accomplishments

Initiated a pilot program for digital review of survey drawing submissions.

Functions

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

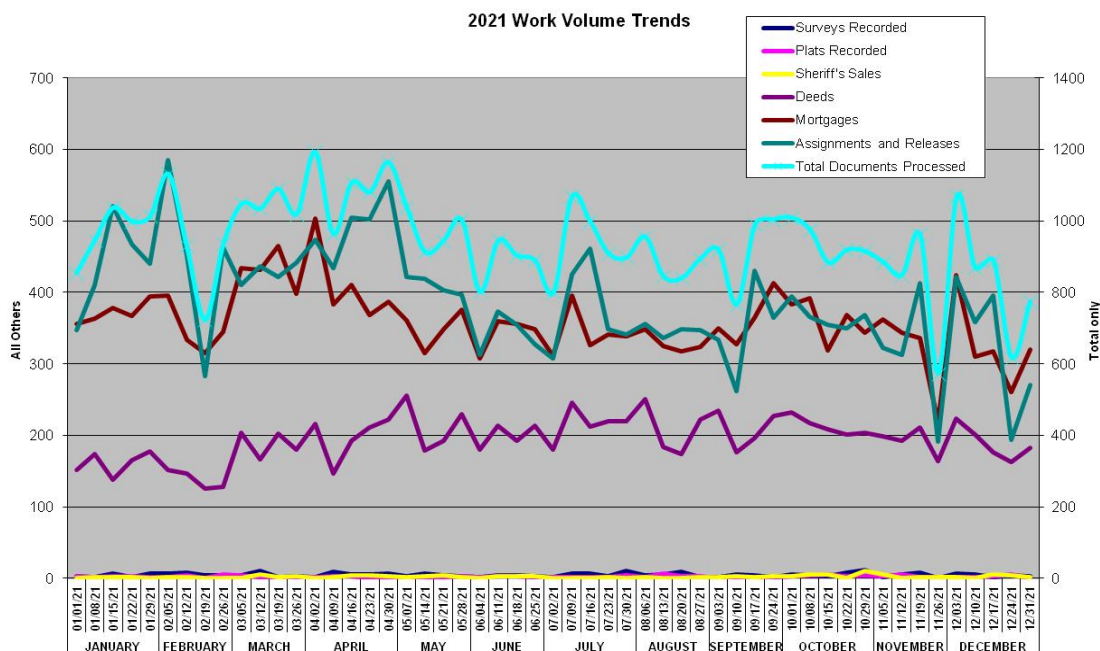
- Per O.R.C. 315.25, we create and maintain an accurate record of surveys of land and road lines.
- Per O.R.C. 315.251, we determine if survey plats and descriptions satisfy the minimum for boundary surveys pursuant to Chapter 4733.
- Per O.R.C. 315.27, we create and maintain indexes of records.
- Per O.R.C. 317.34, we approve subdivisions for the office of Recorder.
- Per O.R.C. 319.203, we adopt standards of conveyance and ensure compliance.
- Per O.R.C. 709.031(A), we prepare a report for petitions of annexations.
- Per O.R.C. 713.26, we assist the regional planning commission.
- Per O.R.C. 5311.05, we review condominium declarations.
- 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

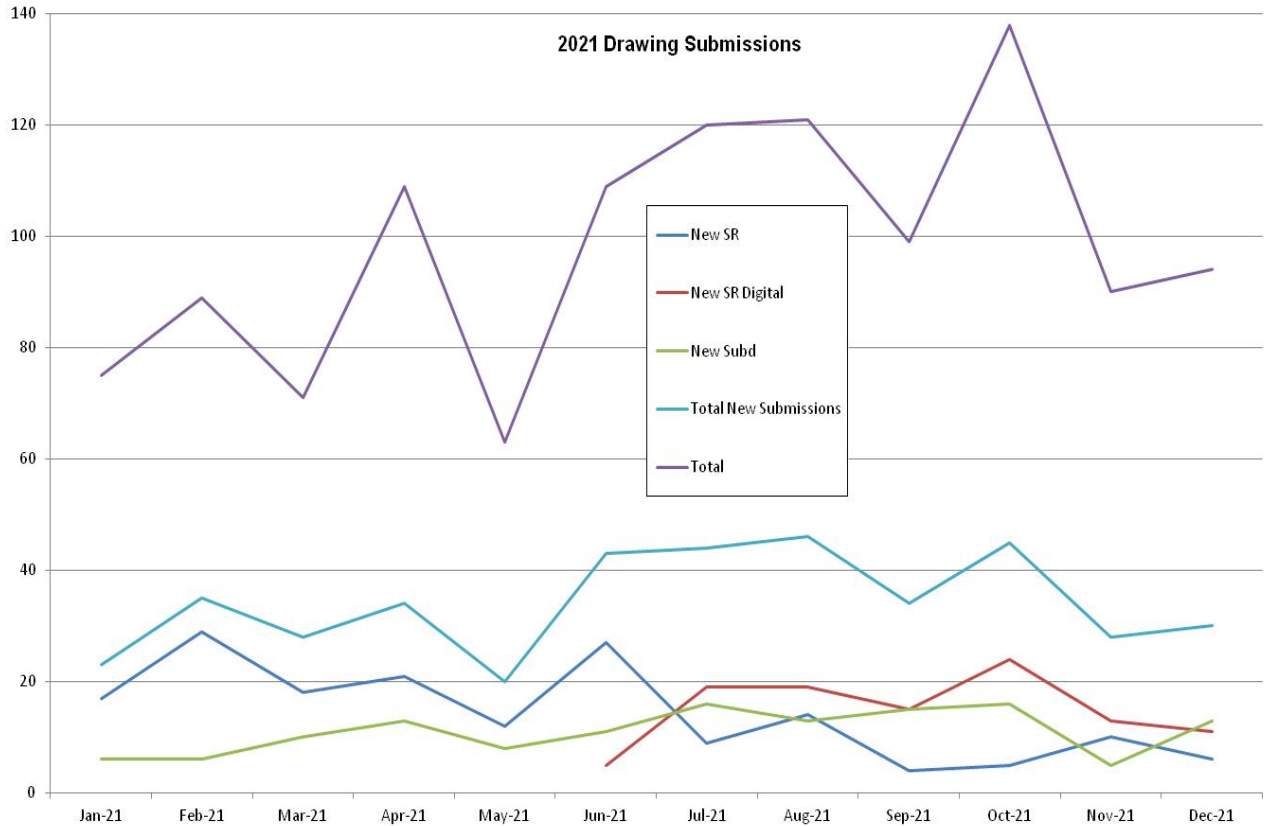
Major documents processed

Deeds	10,265	Plats filed	120
Surveys filed	242	Sheriff’s precipes processed	106



Tax Map Department

	New SR	New SR Digital	New Subd	Re-check SR hard copy	Re-check SR Digital	Re-check Subd. hard copy	Re-check Subd. Digital	Total	Final Subd. Mylar
Jan-21	17		6	39		13	2	75	
Feb-21	29		6	34		20		89	14
Mar-21	18		10	27		16		71	4
Apr-21	21		13	53		22		109	6
May-21	12		8	28		15		63	7
Jun-21	27	5	11	33	16	14	3	109	8
Jul-21	9	19	16	32	21	18	5	120	9
Aug-21	14	19	13	23	25	21	6	121	5
Sep-21	4	15	15	18	28	18	1	99	3
Oct-21	5	24	16	30	21	34	8	138	15
Nov-21	10	13	5	21	24	17	0	90	9
Dec-21	6	11	13	17	11	30	6	94	11

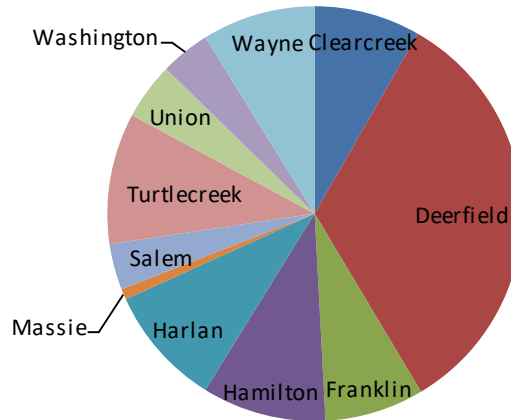


Permits Summary

The following are tables showing the permit summaries of 2018, 2019, 2020 and 2021:

Right-of-Way Permits

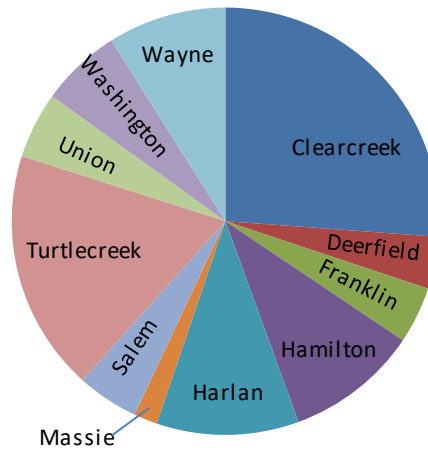
	<u>2018</u>	<u>2019</u>	<u>2020</u>	<u>2021</u>
Clearcreek	15	22	18	30
Deerfield	52	93	86	120
Franklin	15	1	13	35
Harlan	21	29	24	34
Massie	3	8	2	3
Salem	17	15	15	13
Turtlecreek	36	52	37	37
Union	17	17	16	16
Washington	16	9	5	14
Wayne	22	19	11	8
Total	277	286	254	338



Breakdown of 2021 ROW Permits by Township

Driveway/Address/Piped Road Frontage/Second Drives/89 Lot Split Applications

	<u>2018</u>	<u>2019</u>	<u>2020</u>	<u>2021</u>
Clearcreek	67	71	73	87
Deerfield	8	5	11	13
Franklin	11	19	12	16
Hamilton	19	32	28	35
Harlan	28	34	30	24
Massie	4	3	5	3
Salem	24	10	13	19
Turtlecreek	72	34	51	50
Union	18	25	14	15
Washington	10	14	17	27
Wayne	25	32	25	32
Total	286	279	279	321



Breakdown of 2021 Driveway Permits by Township

Warren County Highway Department

The Warren County Highway Department is made up of twenty-six full time employees that consist of highway maintenance personnel and mechanics. They provide the maintenance for the 268.283 miles of county roadway, 390 bridges, and 1397 culverts. They also provide support to townships when needed.

The Warren County Highway Department personnel are required by law to have, and maintain, a current Commercial Drivers License to drive the single and tandem axle trucks. Some duties would include installing and maintaining road signage, setting up route detour signage, tree and brush clearing, guardrail installation and maintenance, culvert installation, repair and replacement, embankment and shoulder repair, roadside mowing, new road construction, bridge repair and replacement.

These employees may be called upon for emergency situations, storm clean-up, downed trees and limbs, high water, and other road hazards. Snow and ice control is the most challenging weather event requiring long, difficult hours. The Highway Department also maintains a rotating call out person that is on call after hours, weekend and holidays to handle any emergency. They are equipped with chain saws, road closure signs, cold patch, etc.

Snow and ice control is a primary function of the Highway Department during the winter months. During the 2021-2022 winter season, Warren County had 10 occurrences that required 1,611 hours of overtime by our road & maintenance crews and consumed 2,625 tons of salt and 15,124 gallons of Beet Heat to clear the roads. The entire season cost the county \$ 252,465.73, in overtime, salt and beet heat.



Stormwater Permit Phase III



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 2021, 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 2021 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>.

Guide to County Stormwater Services

Warren County Engineer's Office www.wceo.us | (513) 695-3309 Warren County Soil and Water Conservation District

- Stormwater Regulations, Plan Reviews, and Post-Construction www.warrenswcd.com | (513) 695-1337
- Stormwater Management
- Phase II Permit Administration
- Mapping
- Pollution Prevention / Education and Outreach
- Driveway Culverts
- Illicit Discharge Detection and Elimination
- Construction Site Runoff Control, Erosion and Sediment Control Plan Reviews
- General Drainage Issues
- Streams and Rain Gardens
- Public Education and Outreach
- Retention/Detention Basin Inspections Ponds

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