

MIAMI COUNTY ENGINEER'S 2018 - 2019 ANNUAL REPORT

PERSONNEL

2018 NEW HIRES:

We had a total of five new hires join our Highway Garage crew in September and October of 2018 as Highway/Bridge Workers 1. We would like to welcome Brian Cagle, Jared Coy, Matthew Reid, Ryan Vanderhorst, and Ed Williams and wish them a long and successful tenure with Miami County.

Ivan Griffin joined our Tax Map Department on September 10, 2018. Ivan brings with him four years of experience as a GIS Technician in the Army holding positions in all stages of Geospatial production process and military planning in varying echelons supporting multiple federal agencies.

2018 RETIREMENTS:

Kent Hess retired on May 31, 2018 after 44 years of service at the Highway Garage. Kent was hired on May 28, 1974 as a Highway Maintenance Worker 1. He was promoted several times over his tenure, first as a Highway Maintenance Worker 2 and then as an Equipment Operator 2. In June of 2000, Kent was promoted to Road Maintenance Supervisor and remained in the position until his retirement.

Jeff Vore retired on August 31, 2018 after 35 years of service at the Highway Garage. Jeff was hired on August 29, 1983 as a HMW2. He was promoted to Equipment Maintenance Supervisor on February 11, 2006. In September 2009 he was promoted to Assistant Highway Road Maintenance Superintendent and was promoted one more time on April 2, 2012 to Highway Maintenance Superintendent.

Both Kent and Jeff take with them a wealth of knowledge involving the intricacies of the county, road maintenance and preservation, and the county highway garage. Congratulations Kent and Jeff! We wish you both a long and happy retirement!



Kent Hess and Paul

Honorable Board of Miami County Commissioners,

In compliance with Section 5543.02 of the Ohio Revised Code, it is my pleasure to provide you with this 2018-2019 annual report for your review. It provides you with details of our activities during the past year regarding the maintenance of county-owned roads, bridges and culverts. Along with a description of completed projects, the report includes upcoming initiatives for 2019 and beyond, with associated cost estimates.

In 2018 we were once again able to be aggressive with our paving program but fell short of last year's total paved miles by just over a mile at a total program of 22.44 miles paved. The aforementioned miles included 15.64 miles or 6 roads that were last paved between 1994—1998 on our annual road program. With a total certified road mileage of 423.375, to stay on a ten-year paving cycle, the county needs to pave approximately 42.34 miles of roadway per year.

An additional 4.26 miles of chip seal surface was upgraded to asphalt concrete. Loy Road received a 1.75" asphalt concrete overlay from Union-Shelby Road to SR 589 for a total of 2.557 miles. This completed the upgrade initiative for Loy Road from Free Road to SR 589 for a total distance of 5.021 miles. Horseshoe Bend Road was also upgraded in 2018 receiving a 2" asphalt concrete overlay between Range Line Road and SR 48 for a distance of 1.705 miles.

The Troy-Sidney Road Berm Stabilization and Overlay Project added an additional 1.01 miles to the resurfacing program and was funded 80% by OPWC funds (\$255,058) and 20% by local funds (\$63,764). The local share was then split 80% (\$51,011) County and 20% (\$12,753) City of Piqua. This section of roadway was trench widened by removing the outside 1 foot of the existing roadway on both lanes and adding approximately four feet of pavement on each side of the pavement to provide a finished pavement width of 26 feet. This paved berm will eliminate the safety issue of drop-offs along the roadway.

Our major bridge project in 2018 was the Greenville Falls-Clayton Road Bridge No. 2.03 replacement. The project was competitively bid in May and subsequently awarded to Brumbaugh Construction, Inc. of Arcanum, Ohio for an amount of \$237,937.00. This bridge was replaced due to the deterioration of the steel superstructure. The new prestressed concrete box beam bridge measures 55' long x 28' wide and has a deck width approximately 4 feet wider on both sides. The final cost of the replacement project, with a net change order of -\$852, was \$237,085.

Please take a moment to look over the information included within the pages of this report to learn more about our accomplishments in 2018 and our goals for the coming years. If you should have any questions regarding the duties or responsibilities of the County Engineer's Office, please contact me. As always, I appreciate the opportunity to serve you and the citizens of Miami County as your County Engineer.

Paul P. Huelskamp, PE, PS



Paul P. Huelskamp PE, PS
Miami County Engineer

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& Highway Garage**
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[http://www.miamicountyohio.gov/
engineer/index.htm](http://www.miamicountyohio.gov/engineer/index.htm)

Hours

7:30 am - 4:00 pm
Monday thru Friday

Summer Garage Hours

6:30 am - 3:00 pm

Miami County Tax Map Office

201 West Main Street
Troy, Ohio 45373

Office: (937) 440-6025
Fax: (937) 440-6026

Hours

7:30 am - 4:00 pm
Monday thru Friday



Miami County, Ohio
Population: 102,506
Elevation: 827 ft.



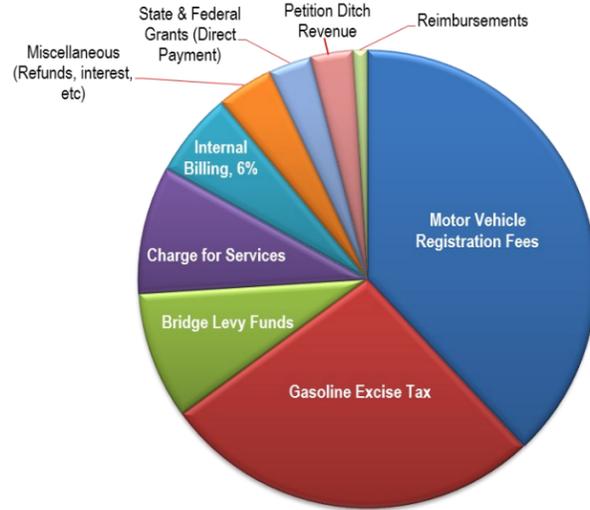
FINANCES

Funds to support County Engineer operations come primarily from highway user fees like gasoline taxes and vehicle registration fees. In 2018, we received \$5,865,274 in such fees. Additional funds are generated through the Miami County Bridge Levy, which voters have supported since 1951. Levy funds, which totaled \$797,198 in 2018, are used to build, maintain and repair the large number of bridges and culverts in our county.

Whenever possible, we apply for Federal grant money and Ohio Public Works Commission funds to bring tax money back to Miami County for local projects. By using local match money to qualify for state and federal funds, we maximize the use of county dollars to complete many projects that would otherwise be unaffordable. In 2018, we secured \$255,058 in state grant funds. A breakdown of our 2018 Revenues and Expenditures is shown below.

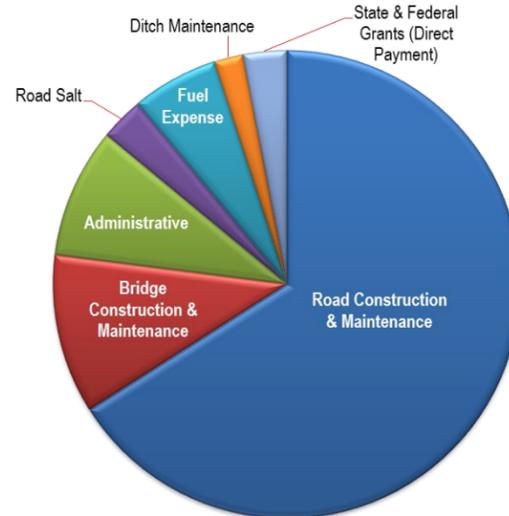
2018 REVENUE

2018 REVENUE		2017 COMPARISON	
Motor Vehicle Registration Fees	38%	\$3,447,870	\$3,414,949
Gasoline Excise Tax	27%	\$2,417,404	\$2,389,285
Internal Billing	6%	\$576,759	\$597,726
Bridge Levy Funds	9%	\$797,198	\$796,022
Charge for Services	9%	\$766,797	\$713,660
Reimbursements	1%	\$108,999	\$69,699
Miscellaneous (Refunds, interest, etc.)	4%	\$389,738	\$263,610
Petition Ditch Revenue	3%	\$226,716	\$98,915
SUB-TOTAL	97%	\$8,731,480	\$8,343,866
State & Federal Grants (Direct Payments)	3%	\$255,058	\$1,120,158
TOTAL	100%	\$8,986,538	\$9,464,024



2018 EXPENDITURES

2018 EXPENDITURES		2017 COMPARISON	
Road Construction & Maintenance	66%	\$6,354,094	\$6,464,893
Bridge Construction & Maintenance	11%	\$1,082,191	\$1,218,683
Administrative	9%	\$830,480	\$843,050
Road Salt	3%	\$316,867	\$136,562
Fuel Expense	6%	\$535,981	\$482,730
Ditch Maintenance	2%	\$173,022	\$139,107
SUB-TOTAL	97%	\$9,292,634	\$9,285,025
State & Federal Grants (Direct Payment)	3%	\$255,058	\$1,120,158
TOTAL	100%	\$9,547,692	\$10,405,183



2018 MAJOR EQUIPMENT PURCHASES

EQUIPMENT	DEPARTMENT	COST
Two Henke V-Plows	Highway	\$17,158
Two ODOT Style Snow Plows	Highway	\$20,864
One 2014 Hyster Forklift	Highway	\$44,500
One 2018 CAT Skid Steer Loader with Planer	Highway	\$66,131
One 2018 Sign Truck with Utility Body	Highway	\$92,430
Two 2018 Ford 1 Ton Dump Trucks with Dump Bodies	Highway	\$130,688
One 2018 John Deere Tractor with 60" Boom Mower & Forestry Head	Highway	\$176,863
Two 2019 Western Star T/A Dump Trucks with Stainless Steel Beds	Highway	\$329,256



2019 F-550 Sign Truck with Custom Aluminum Bed

FUTURE MAJOR PROJECTS

ROADS

ROSS ROAD RESURFACING PROJECT

This project consists of leveling and overlaying Ross Road from State Route 202 on the west and extending east to State Route 201.

Year: 2019 Total Cost: \$350,000 Local Share: \$98,000.00 (28%) Other Funding: \$252,000 - OPWC (72%)

COUNTY ROAD 25A GUARDRAIL UPGRADE

This project consists of upgrading obsolete guardrail along County Road 25A between Troy and Piqua.

Year: 2020 Total Cost: \$300,000 Local Share: None Other Funding: \$300,000 - Federal HSTP (100%)

BELLEFONTAINE ROAD RESURFACING PROJECT

This project consists of overlaying Bellefontaine Road from the Montgomery County Line to the Clark County Line.

Year: 2020 Total Cost: \$156,000 Local Share: \$36,000 (20%) Other Funding: \$120,000 - MVRPC STP (80%) (If approved)

LOONEY ROAD RESURFACING PROJECT

This project consists of overlaying Looney Road from USR 36 to County Road 25A.

Year: 2020 Total Cost: \$924,970 Local Share: County-\$171,906 & City-\$257,859 (45%) Other Funding: \$495,205 - MVRPC STP (55%) (If approved)

COUNTY ROAD 25A RESURFACING PROJECT — NORTH

This project consists of overlaying County Road 25A from Indian Ridge Drive to Miami-Shelby Road East.

Year: 2021 Total Cost: \$483,600 Local Share: \$204,600 (40%) Other Funding: \$279,000 - Federal (60%)

PIQUA-TROY ROAD RESURFACING PROJECT

This project consists of overlaying Piqua-Troy Road from the City of Troy corporation limits to the City of Piqua corporation limits.

Year: 2022 Total Cost: \$904,000 Local Share: \$180,800 (20%) Other Funding: \$723,200 - CEAO STP (80%)

TROY-URBANA ROAD RESURFACING PROJECT

This project consists of overlaying Troy-Urbana Road from the Deweese Road to the Champaign County Line.

Year: 2023 Total Cost: \$1,115,300 Local Share: \$238,000 (20%) Other Funding: \$952,000 - CEAO STP (80%)

BRIDGES

REPLACEMENT: CROFT MILL ROAD BRIDGE NO. 0.37

This project consists of replacing the existing steel beam bridge with a galvanized truss bridge.

Year: 2019 Total Cost: \$1,391,000 Local Share: \$69,550 (5%) Other Funding: \$1,321,450 - CEAO LBR (95%)

REPLACEMENT: TROY-URBANA ROAD BRIDGE NO. 4.71

This project consists of replacing the existing steel beam bridge with pre-stressed concrete beams.

Year: 2020 Total Cost: \$450,000 Local Share: \$150,000 (33%) Other Funding: \$300,000 - OWPC (67%) (If approved)

REPLACEMENT: PETERSON ROAD BRIDGE NO. 0.05

This project consists of replacing the existing bridge over the Great Miami River.

Year: 2024 Total Cost: \$5,362,600

DITCHES

DITCH NAME	NO.	CONSTRUCTION COST BASIS	2018 ACTUAL ANNUAL COLLECTION	TYPICAL ANNUAL EXPENSES
* ** BEARD	807	\$10,876.54	\$1,631.48	\$1,700.00
CALDWELL	849	Est. \$431,990.42	"Under Construction"	"Under Construction"
** COTTINGHAM	806	\$10,833.13	\$3,264.94	\$3,650.00
** DYE MILL	805	\$22,804.21	\$8,178.02	\$8,250.00
* ** FRESHOUR	841	\$11,916.90	\$1,310.86	\$2,400.00
** FROSTY-LANDIS	826	\$34,091.47	\$3,380.76	\$3,000.00
GALLAMAR	850	Est. \$89,853.16	"Under Construction"	"Under Construction"
HARTSTEIN-SWEITZER	829	\$25,143.74	\$1,760.99	\$1,300.00
HARWOOD	818	\$207,656.20	\$17,650.77	\$3,000.00
HELMICK HARLACHER	833	\$37,225.01	\$2,233.50	\$4,300.00
LANE-HATHAWAY	842	\$18,901.11	\$2,268.13	\$2,200.00
** LEONARD	811	\$49,496.92	\$20,009.58	\$26,500.00
LUTHERAN RD. GP. JOINT		MONT.	\$364.16	MONT.
** MARSH	817	\$9,777.84	\$1,182.38	\$1,250.00
MOHLER JOINT	363	MONT.	\$4,464.62	MONT.
MUMFORD	846	\$68,543.11	\$1,377.59	\$550.00
PEMBERTON	843	\$18,708.50	\$1,124.35	\$1,500.00
REEDER	838	\$39,157.81	\$3,134.48	\$4,400.00
** REIGHARD	824	\$11,951.01	\$1,793.23	\$1,550.00
SHELBY COUNTY JT.		SHELBY	\$6,979.59	SHELBY
SWAILES RUN	844	\$53,550.00	\$53.55	\$750.00
TROY-CONCORD	821	\$331,070.59	\$21,556.97	\$27,500.00
UPPER LUDLOW	845	\$264,994.15	\$322.76	\$600.00
** WAUGER BRANCH	808	\$44,776.61	\$6,718.64	\$7,150.00
* ** WELSCH	814	\$18,664.96	\$1,307.33	\$3,300.00

* = EVALUATE CURRENT COLLECTION
** = CONSTRUCTION BASE NEEDS RE-EVALUATED
- LUTHERAN RD. GP. JOINT AND MOHLER JOINT = MONT. CO. MAINT. - SHELBY COUNTY JT. DITCHES = SHELBY COUNTY MAINTENANCE



Kessler-Frederick Culvert #3.818

the Kessler-Frederick Road Culvert No. 3.487, 64' of 72" concrete pipe costing \$26,858, the Kessler-Frederick Road Culvert No. 3.749, 64' of 36" concrete pipe costing \$12,226. Ross Road Culverts No. 3.354 and No. 3.558 were both replaced with 40' of 24"x38" elliptical pipe for a combined total cost of \$26,380 and Ross Road Culvert No. 3.832 was replaced with 56' of 38"x60" elliptical pipe for a total cost of \$18,735. In 2019 we anticipate replacing 50 to 60 culverts as part of our on-going culvert upgrade program.

Annual assessments are collected to finance on-going maintenance on 23 ditches in Miami County (see chart at left). These assessments are collected from adjacent landowners who benefit from the drainage improvement. State law limits ditch fund maintenance reserves to a set percentage of the construction cost of the ditch. Eleven ditches (double asterisk) are in need of review of their approved construction base because the annual collection does not provide sufficient funding to maintain the completed project. In many cases this approved construction base is decades old and no adjustments for inflation have ever been made. Many of these same ditches are also in need of work which goes beyond the scope of routine maintenance (i.e. mowing and spraying), and funds for these items cannot be collected until the construction base is raised to allow for additional collection of funds. In 2017, the construction base for the Harwood Ditch No. 818 was reviewed and revised. Review of the construction base for the Cottingham and Wauger ditches will be finished in 2019; review of the Beard, Reighard, and Welsch ditches is also planned in 2019.

Routine ditch maintenance includes mowing and weed-spraying, but occasionally a drainage-way may require a cleanout or more extensive repair to restore drainage efficiency. In 2018 the Beard, Cottingham, Harwood, Leonard, Wauger, and several other ditches required such repairs. In 2019 we anticipate that 10 of the 23 ditches listed at the left may require some sort of maintenance exceeding the norm, including ditch crossing replacement, tree and brush removal, open ditch cleanout, and tile main and/or spur repair/replacement.

The Japanese Honeysuckle plant is continually encroaching upon the ditch maintenance areas. This invasive species requires additional maintenance on many of the maintenance ditches. Mechanical removal and follow-up chemical treatments are utilized in an effort to control this plant.

In 2018, Reconstruction of the Gallamar Ditch No. 850 was approved by the Board of Miami County Commissioners pursuant to O.R. C. Chapter 6131, Single County Ditches. This reconstruction has included the replacement of an existing clay drainage tile (failing), driveway culvert replacements, road side ditch reconstruction, and tree and brush removal. In early 2019 the final aspects of the reconstruction project will be completed and include finish grading, seeding, and open ditch cleanout. The reconstructed Gallamar Ditch and portions of the existing clay drainage tile within the project extents will be maintained pursuant to O.R.C. Chapter 6137, Ditch Maintenance Fund.

CULVERTS

Our culvert replacement/upgrade program continued in 2018, 68 structures were replaced at a total cost of \$389,076. We prioritize the replacement of culverts on roads that are scheduled to be resurfaced to avoid having to cut into any new roadway in the foreseeable future.

The largest culvert replacement was on Kessler-Frederick Road, Culvert No. 3.818. Our county crews installed 72 lineal feet of 72" concrete pipe at a cost of \$28,032. Other major culvert projects during the summer included the replacement of the Bausman Road Culvert No. 1.889, twin 24"x38" concrete elliptical pipe 40' long costing \$16,691,

ROADS

The Highway Department is responsible for maintaining 423.375 miles of highways in serviceable condition using limited funding resources. We accomplish this through an aggressive preventive maintenance program designed to prolong the life of our highway pavement to the greatest extent possible. The two primary ways to extend pavement life are through the use of Dura Patching, which applies a mixture of bitumen and gravel to repair fractured/damaged roadway, and crack-sealing (shown to the right), where hot bitumen is applied exclusively to pavement cracks. In 2018, our maintenance program included 24 miles of Dura-Patching, 11 miles of crack-sealing, and numerous berm and spot repairs as needed.



The 2018 paving program resulted in 22.44 miles of county highways being paved with asphalt by the John R. Jurgensen Company at a cost of \$1,751,975. Roads resurfaced in the 2018 paving program included portions of Alcony-Conover, Buckneck, Casstown-Sidney, Horseshoe Bend, Loy, Markley, Peterson, Peterson West, and Troy-Sidney. As a cost-savings measure, townships are invited to bid out their resurfacing needs in conjunction with the County Engineer's Office. As a result, 7.309 miles of township roads were paved with asphalt at a cost of \$744,183. Our 2018 Chip Seal Program included four townships totaling 5.002 miles at a cost of \$100,212. Miami County added 2.55 miles of Ross Road from SR 202 to SR 201 to the Chip Seal Program. The nineteen year old surface had deteriorated to a point that the chip seal surface was necessary to "hold the road together" until we pave it in 2019 utilizing OPWC funds.

As recited on page 1, we had one special paving project resulting in an additional 1.01 road miles being paved in 2018. Of the \$318,822 total cost to pave Troy-Sidney Road from Statler Road to USR 36, \$63,764 or 20% was the local share; the remaining \$255,058 (80%) was funded by OPWC funds. The local share was split 80% (\$51,011) County and 20% (\$12,753) City of Piqua. This pavement widening also consisted of improvements to the turning radius at the northwest corner of the Troy-Sidney and Statler Road intersection.

As mentioned above, the special paving project for 2019 will include 2.55 miles of paving on Ross Road in Bethel Township from SR 202 to SR 201. The project will consist of a one inch leveling course of ODOT Item 441 (448) Type 1 asphalt and a one inch surface course of Item 441 (448) Type 1. The finished pavement will receive an Item 617 aggregate berm of approximately two foot in width on each side of the new pavement along with enhanced thermoplastic pavement markings. The total project cost is \$350,000 with the local share being \$98,000.00 (28%) and OPWC share being \$252,000 (72%). Future paving projects can be found on page 7.

SNOW AND ICE REMOVAL

Miami County continues to seek the best price for our rock salt purchases by participating in the cooperative group of Southwest Ohio Purchasers for Government (SWOP4G). We secured a contract with Compass Minerals America Inc. for 5,000 tons of rock salt at a cost of \$89.95 per ton dumped for the 2018-2019 winter season. The price came in at a 78% increase over last season's price of \$50.44. In comparison to the 2017-2018 winter season that brought multiple snow events and covered the time period of 12/9/17 through 2/7/18 at a total cost of \$250,427.03; the 2018-2019 winter season covered a larger time period of 11/15/18 through 3/4/19. With county crews being called out on 35 different occasions for snow and/or ice control, this winter season saw a much higher cost at \$311,049.21 which includes equipment, labor, and material. The effects of the harsh winter continue to be realized as Miami County roadways show signs of distress as they continue to experience freeze-thaw cycles due to the "rollercoaster" temperatures.

OTHER SERVICES AND PROGRAMS

MOWING & SPRAYING:

County roadsides are mowed and sprayed each growing season in accordance with provisions of the Ohio Revised Code Section 5579.04. We meet the mowing requirements by using both county crews and contracted services while relying solely on contracted services for all spraying operations. In 2018, Quick Mow, Inc. of Millersburg, Ohio was contracted through the bidding process to complete all three rounds of 424 miles of mowing at a cost of \$76.86/mile (\$97,765.92 total). Our county crews mowed 131.35 acres of petition drainage ditches, utilizing in-house equipment and resources.

PAVEMENT MARKING:

We contracted in 2018 with Aero-Mark, Inc. of Streetsboro, Ohio to complete center line marking on 106 road miles of county highway and 92 miles of township highway at a cost of \$51,975. Aero-Mark also edge lined 212 lane miles of county highway and 177 miles of township highway at a cost of \$98,028. Typically, the road pavement conditions dictate how often the road receives pavement markings. Most of our roads cycle through at about three years between restriping.

BRIDGES

With 342 bridges of various ages and conditions distributed throughout the county, our crews are never at a loss for work. The 2018 Bridge Program was highlighted by two larger projects. The first of these projects, completed by our county crews, was the replacement of the Walnut Street Bridge in Fletcher. The 110+ year old bridge was in poor overall condition due to the deterioration of the concrete abutments and superstructure and was replaced with 78'-0" of 24'x5' four-sided precast concrete box culvert. The four-sided precast concrete box culvert was competitively bid and awarded to Lindsay Precast, Inc. of Canal Fulton, Ohio in the amount of \$119,300.00. The total cost for this replacement was \$167,445 and was funded by the Miami County Bridge Levy.



Walnut Street Bridge in Fletcher



Greenville Falls-Clayton Road Bridge No. 2.03

The second of the two larger projects was the Greenville Falls-Clayton Road Bridge No. 2.03 in Newberry Township. The replacement project was competitively bid in May and subsequently awarded to Brumbaugh Construction, Inc. of Arcanum, Ohio in the amount of \$237,937.00. The bridge was replaced with 55'-0" Prestressed Concrete Beams. The total cost for this replacement was \$237,085.00.

In addition to the two larger projects, our county crews also replaced Sodom Ballou Road South Bridge No. 0.47 with nine 30' x 3' concrete beams, for a total deck width of 27'. These beams were fabricated by our county crews at a total project cost of \$102,675.00. Also, the Mill Road Bridge No. 0.30 was replaced with 35'-0" prestressed concrete beams that were competitively bid and awarded to Prestress Services Industries of Ohio, LLC in the amount of \$56,350. The total cost for the Mill Road project was \$132,804.32.

Miami County as applied for bridge credit through ODOT's Credit Bridge Program for the Greenville Falls-Clayton Road Bridge No. 2.03, Sodom Ballou Road South Bridge No. 0.47, and Mill Road Bridge No. 0.30. Once approved, the \$378,051.46 (80% of overall bridge costs) of bridge credit will be used for a portion of local match for the Peterson Road River Bridge scheduled for replacement in 2024.

Overall, in 2018 we were able to remove the Greenville Falls-Clayton Road Bridge No. 2.03, Sodom Ballou Road South Bridge No. 0.47, and Mill Road Bridge No. 0.30 from our list of reduced-load posted structures, leaving 10 posted bridges in our inventory. In 2019, we plan to replace Sodom Road Bridge No. 1.25, a reduced-load posted bridge.

2019 will be another busy year for our bridge program with the following four bridges scheduled for replacement:

- ◆ Fenner Road Bridge No. 2.50 Replacement, an existing twin multi-plate arch bridge, will be replaced with a precast four-sided box culvert. The estimated cost is \$133,300.
- ◆ Miami-Shelby West Bridge No. 7.22 Replacement, an existing concrete slab bridge, will be replaced with a precast four-sided box culvert. The estimated cost is \$150,000.
- ◆ Range Line Road Bridge No. 13.52 Rehabilitation, an existing concrete beam bridge, will be repaired with micro-silica concrete overlay. The estimated cost is \$150,000.
- ◆ Sodom Road Bridge No. 1.25 Replacement, an existing steel beam bridge, will be replaced with prestressed concrete box beams. This project will be contracted this summer with an estimated cost of \$94,250.

In addition to the structures listed above, we will also be replacing several larger culverts in preparation with upcoming resurfacing projects.

We continue to rely heavily on funds generated through the Miami County Bridge Levy to accomplish the goals of the department related to bridge construction and repair. As always, our commitment is to seek out and use all available resources to insure the continued serviceability and safety of our county-wide bridge system.

TRAFFIC

PETERS AND KESSLER – COWLESVILLE INTERSECTION

A Flashing Beacon Light was installed, in 2018, to improve the safety of the intersection of Peters Road and Kessler – Cowlesville Road. After conducting a Multi – Way Stop and a Traffic Signal Study, it was determined that a Flashing Beacon Light would enhance the safety of the intersection while also maintaining traffic conditions road users are accustomed to. The intersection now has two flashing beacons facing the North/South and East/West directions. Along with Stop Signs, the East/West Travel lanes now have a flashing red beacon light to alert motorists of the need to stop and the location of the intersection. The North/South Travel lanes are accompanied by flashing yellow beacon lights to alert motorists that an intersection is ahead.

SIGN DEPARTMENT

Every 3 years, an inspection of the County's traffic signs takes place to determine the nighttime visibility (retro reflectivity) of the sign inventory. To determine which signs need replaced, the County's sign department conducts a Visual Nighttime Inspection which includes a survey of the sign inventory during nighttime hours. In 2018, the last of the signs with poor nighttime visibility had been replaced and in total, 583 signs were upgraded.

In addition to the above – mentioned sign replacements, our sign department replaced approximately 911 signs in 2018. Of these 911 signs, roughly 214 were replaced due to traffic accidents, 102 due to vandalism, and 9 due to weather related incidents. The remainder of the 911 signs were replaced due to continual maintenance and upgrades to our sign inventory.

TRAFFIC COUNTS/SPEED LIMIT STUDIES

We conduct 48-hour traffic counts at approximately 130 locations each summer on county and township roads. The traffic count data is used to establish priorities for roadway repair, repaving, lane-width alterations, signage requirements, and other highway-related improvements. Speed studies are occasionally conducted to determine appropriate speed limits based upon roadway improvements, alterations, or specific requests from township personnel. In 2018, speed studies were conducted on Bradford - Bloomer Road, and County Road 25A north of Troy – Sidney Road.

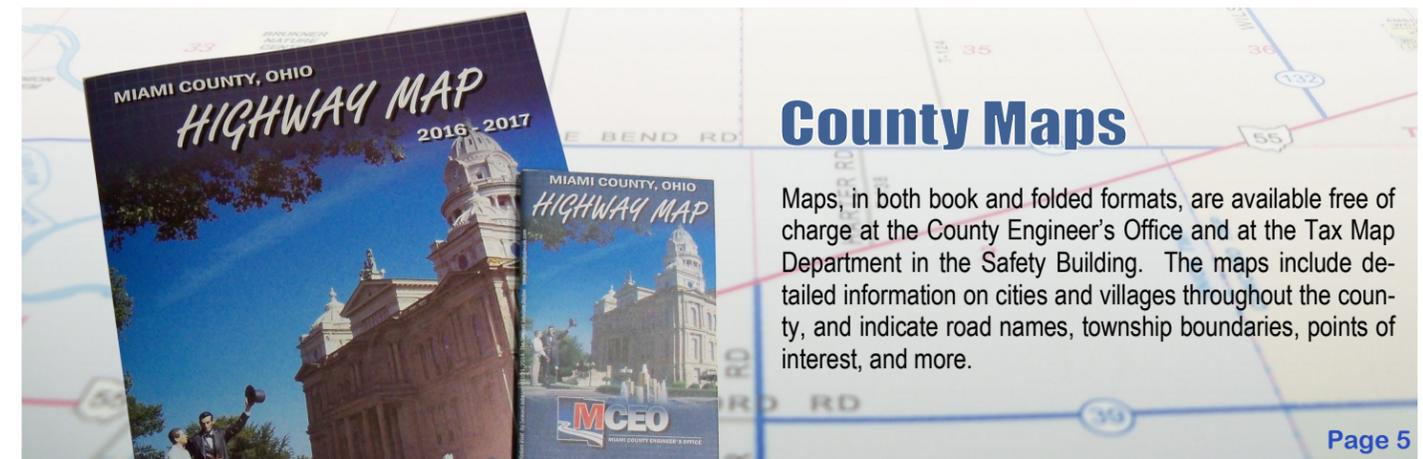
TAX MAP

The Tax Map Department draws and maintains tax maps for over 51,000 parcels of land in Miami County. A tax map shows the shape, size and owner of each parcel of land, and is used by the County Auditor to determine property taxes used to support local school districts. All tax maps, land/lot survey records, and record plats, a total of over 27,000 documents currently, are individually scanned so that digital copies are available by request via e-mail. Currently, all tax maps are available on Miami County's website. As always, however, if personal assistance is desired Tax Map personnel stand ready to serve the public's needs in accessing and navigating property documents and surveys from their office on the first floor of the Miami County Safety Building.

In addition to tax map work, multiple County departments call on the Map Department for a special mapping projects from time to time. The Map Department Technicians maintain Precinct Maps at the request of Miami County Board of Elections. They are currently updating township right-of-way maps showing legal widths of all township and county roads. Also, in 2018, the department reviewed the content and mathematical accuracy of over 120 land surveys of individual properties filed for record with the County Engineer. The department also reviewed and checked the mathematical accuracy of 60 Recorder's Plats, which consist primarily of residential and commercial subdivisions, street and alley vacations, annexations, and right-of-way plans of road projects. Finally, the department reviewed the deeded legal description of every property transferred in Miami County where over 4500 deeds/affidavits were recorded, each one containing one or more legal descriptions requiring review by the department.



Mill Road Bridge No. 0.30



County Maps

Maps, in both book and folded formats, are available free of charge at the County Engineer's Office and at the Tax Map Department in the Safety Building. The maps include detailed information on cities and villages throughout the county, and indicate road names, township boundaries, points of interest, and more.