ATHENS COUNTY ENGINEER

ANNUAL REPORT

2017



Jeff Maiden, P.E., P.S. Athens County Engineer

The mission of the Athens County Engineer's Office (ACEO) is to serve the citizens of Athens County by building and maintaining a safe and modern county highway system; to respond promptly to reasonable road complaints; to process land surveys and property records accurately; and to be good stewards of taxpayer dollars by developing cost effective solutions for road and bridge maintenance problems.

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TO THE CITIZENS OF ATHENS COUNTY AND THE BOARD OF COMMISSIONERS:

This is my fifth annual report about improvements made to Athens County's roads and bridges in 2017. I have also included a brief summary of 2012 campaign goals achieved during my first term in office (January 7th, 2013 through January 2nd, 2017).

AN INVENTORY OF COUNTY ROADS

It is difficult to develop a comprehensive plan for a county road system if you don't know what your assets are, and the condition of those assets. We received a Highway Safety Improvement Program (HSIP) grant for \$146,826 to create this county road inventory, and to pay for speed zone studies on CR 6 (old St. Rt. 56 through New Marshfield); CR 7 (Johnson Road between US 33 and SR 682); CR 33A (Old US 33 through Shade); and CR 110 (Poston Station Road from Lemaster to SR682). TEC Engineering, Inc. was contracted to provide the engineering services to complete the inventory of county road widths, surface types, and pavement condition ratings (PCR); the location and condition of pavement markings, guardrail and signs locations; and roadside obstacles. The information was easily integrated into our in-house geographic information system.

ENBRIDGE R.U.M.A. SETTLEMENT (i.e., formerly Texas Eastern)

I worked closely with Enbridge, Inc., in developing a Road User Maintenance Agreement (RUMA) to cover any damages that were done during the construction of a major gas transmission line and compressor station upgrade in Alexander and Lee Townships. The construction was completed late in November of 2017. It was too late in the year to do the required pavement remediation. Enbridge representatives wanted a release from the \$1 million dollar bond obligation by the end of 2017, so we agreed upon a \$437,500 settlement to release Enbridge from any further liability.

LANDSLIDES, BRIDGES, AND LEVERAGING LOCAL DOLLARS

Our cost to maintain the county road and bridge infrastructure has increased between 50 to 75% since 2006. Our revenue has been basically flat since 2006. We apply for and receive many grants that help to lessen the impact of big increases in operational costs without a corresponding increase in revenue. A good analogy would be to try to pay your 2019 household bills with the salary you had in 2006.

The spring rains caused six (6) slip repair projects that were constructed in 2017. The total cost to repair those slips was \$ 442,544. Grant funds paid for \$ 360,806 of that cost with only \$ 81,738 coming from the Engineer's annual budget.

We replaced three (3) bridges and two (2) major culverts using OBBP and OPWC emergency funds, and three bridge decks using local funds. The total cost to construct these bridges and culverts was \$ 1,071,523. Grant funds paid for \$955,899 of that cost with only \$ 115,624 coming from my annual budget.

The total cost for the inventory project mentioned above was \$163,140, of which \$146,826 was paid for by an HSIP Grant through the CEAO.

LEVERAGING LOCAL DOLLARS...continued....

We have leveraged grant funding to create a maximum impact:

Grant Source	PROJECT TYPE	TOTAL COST	Paid by GRANT	Local Share
ODOT-OPWC	Bridges and Culverts	\$1,071,523	\$955,899	\$115,624
FHWA-OEMA	Slip Repair Projects	\$442,544	\$360,805	\$81,738
CEAO	Asset Inventory Project	\$163,140	\$146,826	\$16,314
TOTAL CONSTRUCTION COSTS = \$1,677,207				
	87% PAID BY GRANTS = \$1,463,530			
		13% PAID FROM LOCAL FUNDS =		\$213,676

A complete list of grants received in 2017 is contained on Page 11 of this report.

FINANCIALS- REVENUE, EXPENSES, AND SPENDING DOWN SOME RESERVES

The 2017 total revenue was \$ 4,475,346; total expenditures was \$ 4,874,991. We started January 1st, 2017 with \$1,177,146 in the bank. We ended 2017 with \$ 777,501 in the bank. A pie chart with the details is illustrated on page 14 of this report. It was a conscious decision to spend down some carryover as explained in the next paragraph.

POTHOLE PATCHING, ASPHALT LEVELING, CHIP & SEAL, GRAVEL ROADS

The road surface conditions were rough after three very difficult winters. I set goals for my staff to re-build impervious surfaces on our asphalt and chip/ seal surfaces. County crews placed 754 tons of asphalt in potholes (\$221,676); 3,265 ton of asphalt leveling and 1,914 ton of stone (\$349,326); and 12 miles of chip and seal (\$379,251). The majority of the asphalt leveling was done to improve road surfaces in order to make them plowable for winter. It was necessary to spend some reserves to make that happen. See pages 12 and 13 of this report.

SALT STORAGE BUILDING #2

I developed a Capital Improvement Plan- Phase 1 document in April of 2013. Due to funding constraints, Salt Storage Building #2 was designed to be 70% of the size of Salt Storage Building #1. The loose fill under the building pad required a 6' deep undercut; placement of compacted #304 aggregate base fill; and then construction of footers, walls, concrete slab, and the storage building. The site work was completed by Athens County Engineer Employees. Freedom Construction was the low bidder at \$181,181 and built the building.

CONTRACTED MOWING FOR THE FIRST TIME

There are capacity limitations for any organization. I have learned that we do not have enough employees to do all of the maintenance work required during the summer months. I contracted out two (2) countywide mowing cuts to Quick Mow, Inc., at a cost of \$ 42,069 per cut. This freed up county operators to do desperately needed road work such as . culvert replacement, ditching and berming, asphalt leveling, chip and seal work, and placement of rock fills for FEMA landslide projects.

ROADWAY CULVERTS

County crews replaced 37 culverts in 2017, which barely scratches the surface on the need. We have thousands of corrugated metal culverts with the bottoms completely rusted out. Due to extraordinary budget constraints, the criteria for replacement is based on two factors: (1) a hole develops in the road because the material surrounding the pipe washed away because there is no bottom remaining in the pipe or (2) water no longer flows through the pipe. I was told by an employee of the Athens County Engineer's office in the 1990's that there were more than 6500 culverts on Athens County roads. We spent \$ 321,636 replacing 37 culverts in 2017. I'm guessing that there are at least 2000 culverts that need replaced. One goal in the next 3 years is to develop an inventory of these culverts and a schedule for replacement. See page 13 for more specific information on the 2017 culvert replacement program.

SNOW AND ICE REMOVAL

We continue to refine our snow routes trying to achieve maximum efficiency and response time. We spent \$262,975 in 2017-2018 providing this service, and I think we do it very well. See Page 12 for the details.

EQUIPMENT REPAIRS/ PURCHASES

See page 13 for specific information about equipment.

FINAL COMMENTS

We continue to battle an aging infrastructure with stagnant revenues and continually increasing costs, year after year. We have flooding and landslides to contend with that other counties do not have in other parts of the state. I believe that we are doing all that we can do with the resources that we have available. There is so much work needed to bring our roads and bridges up to a higher standard.

THANK YOU FOR YOUR SERVICE

There is a photo of 25 employees on the last page of this report. Their job is to go out there and plow roads that are covered with snow and ice and sometimes very dangerous. The hilly terrain and the narrow roads magnify the risk involved. They are called out in the middle of the night sometimes to cut down a tree that fell into a county road, and sometimes that tree fell on a telephone line and is nothing more than a sling shot waiting to happen. They work hard in the summer time trying to get the roads back into shape before another bad winter destroys the road surfaces again. Some are building the short span county bridges. They shovel asphalt into potholes. They do mechanic work on heavy equipment. They work in the road and around traffic, and sometimes that can be hazardous. It's all very hard work.

I have the upmost respect for them. I sincerely thank each and every one of you for the efforts that you make on the behalf of this office, and on behalf of the citizens of Athens County.

Sincerely,

Marke

Jeff Maiden, P.E., P.S.

Athens County Engineer

County Road 20-4.47 MM (Strouds Run Road) - "Part 1" Slip Repair Project



CR20-4.47 Completed Drilled Pier Wall

This project was Part 1 of three slip repairs that were put out for bids as one project (ATH-CR20/VAR Landslide Repairs). Bids were taken on August 8th, 2017. Alan Stone Company was the low bidder at \$ 344,334, 22% lower than the second bidder. If you look closely at this photograph, you can see two previous generations of piling attempting to fix this slip in the past. We take pride in doing it one time correctly.

- FHWA (Federal Highway Administration) Emergency Grant paid for 80% of the Construction Costs
- 136' Long Drilled Pier Wall/ Final Construction Cost \$ 129,640
- Surveyed & Designed by Donnie Stevens, Asst. Engineer
 - ✓ Survey/Design Costs Reimbursed to County \$5,184
- Inspected by Bev Sargent and Shelby Vore
 - ✓ Inspection Labor Reimbursed to County \$7,286
- Began Construction on September 18th, 2017
- Completed on October 12th, 2017

County Road 20-5.27 MM (Strouds Run Road) - "Part 2" Slip Repair Project

This project was Part 2 of the ATH-CR20/VAR Landslide Repairs Project. The project was located on CR 20 just south of the intersection of Canaan Twp 215 (Scatter Ridge Road). Some interesting facts about this project:



CR20-5.27 Bev Sargent inspecting drilled Pier Wall construction

- FHWA (Federal Highway Administration) Emergency Grant paid for 80% of the Construction Costs
- 72' Long Drilled Shaft Pier Wall
- Final Construction Cost for this wall \$87,601
- Surveyed & Designed by Donnie Stevens, Asst. Engineer
 - ✓ Survey/Design Costs Reimbursed to County \$ 4,930
- Inspected by Bev Sargent and Shelby Vore
 - ✓ Inspection Labor Reimbursed to County \$7,028
- Began Construction on October 24th, 2017
- Completed on November 2nd, 2017

County Road 25 (Rock Riffle Road) - "Part 3" Slip Repair Project

This project was Part 3 of the ATH-CR20/VAR Landslide Repairs Project. The project was located on CR 25 just south of the Stimson Avenue intersection (near Pallini Industries). More facts about this project:

- FHWA (Federal Highway Administration) Emergency Grant paid for 80% of the Construction Costs
- 128' Long Drilled Shaft Pier Wall
- Final Construction Cost for this wall \$ 135,009
- Surveyed & Designed by Donnie Stevens, Asst. Engineer
 - ✓ Survey/Design Costs Reimbursed to County \$ 4,332
- Inspected by Bev Sargent and Shelby Vore
 - ✓ Inspection Labor Reimbursed to County \$ 6,574
- Began Construction on October 2nd, 2017
- Completed on October 19th, 2017



CR25 Drilled Pier Wall Completed

County Road 44 (Bucks Lake Road) - Slip Repair Project



Slope Reconstruction in progress



Rock Channel Protection complete

A slip developed on Athens County Road 44 (Bucks Lake Road) adjacent to the Middle Branch of the Shade River. The chosen method of repair was to construct a rock toe at the base of the slope and build a rock fill. This solution both stabilized the slope and provided erosion control along the river bank. All work was performed by Athens County Engineer employees. County Road 44 is classified as a "Federal Aid Route", so the source of funding was the Federal Highway Administration (FHWA) Emergency Funding. Other facts:

- FHWA paid 80% reimbursement of the construction cost or \$35,855 to the Athens County Engineer's Office
- Construction Began on September 18th, 2017
- Completed on October 3rd, 2017

County Road 42 (Mill School Road) - Slip Repair Project



Slip on CR 42



Slope Reconstruction Completed

A slip developed along Athens County Road 42 at the discharge end of an old stone culvert that was probably built during the W.P.A. County Road 42 is classified as a "Federal Aid Route" and therefore eligible for FHWA Emergency Funds. A 20' section of 5' diameter N12 Pipe was installed at the outlet end of the stone culvert, and a concrete transition chamber was built between the stone culvert and the new N12 -P.E. outlet pipe. All work was done by Athens County Engineer employees.

- FHWA Funded (100% Construction) \$ 33,852
- Survey, designed and built by the Athens County Engineer's Office (ACEO) employees
- Slope reconstruction using rock fill/ Type C Rock Channel Protection
- Construction began on September 11th, 2017
- Completed on September 15th, 2017

County Road 39 (Wrightstown Road) - Slip Repair Project





Before and after pictures of Slope Reconstruction

A slip developed along Athens County Road 39 (Wrightstown Road) not far from the intersection of SR 329. Athens CR 39 is not classified as a "Federal Aid Route" and NOT eligible for FHWA Emergency Funds. We contacted the Ohio Emergency Management Agency and received an emergency grant for 75% of the construction cost. The slope was reconstructed using a rock fill. All work was done by Athens County Engineer employees.

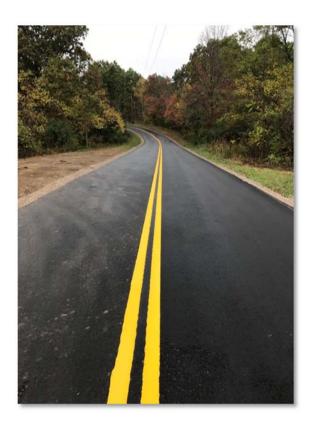
- Slope Reconstruction
- OEMA (Ohio Emergency Management Administration) Funded 75%
- Designed and built by ACEO employees
- Construction began on September 25th, 2017
- Completed on October 6th, 2017
- County was reimbursed a total of \$11,623

County Road 16 (Pleasanton Road) - Culvert Replacement Project

- Headwall collapsed and caused culvert to fail
- OPWC Funded (90% construction)
- Total grant \$85,500
- Designed and Built by ACEO
- Began Construction on November 27th, 2017
- 95% Completed on December 28th, 2017
- Construction Cost \$95,000



Asset Inventory Project - Countywide



- CEAO (County Engineers Association of Ohio) funded 90%
- Performed by TEC Engineering, Inc.
- Total Project Cost \$163,140
- Inventory and inspection of all roadway signs, Guardrail and Pavement Markings
- Pavement Condition Rating (PCR) and surface type inventory of all roads
- Four Speed Zone Studies
- All data entered in GIS format and Access Database System

County Road 25 (Long Run Road) - Box Culvert



- Survey, design, and construction by ACEO
- Replaced a concrete slab bridge with a 12' x 8' concrete box culvert
- OPWC (Ohio Public Works Commission) Grant \$89,500
- Began Construction on October 23rd, 2017
- Opening Date November 22nd, 2017
- Former Bridge Width 17' F/F Rail
- New Bridge Width 25' F/F Rail
- Labor \$28,396; Materials \$18,078; Fringes \$22,297; Subcontractors \$67,500; Equipment \$31,166; Total Cost **\$167,437**







Ames Township Road 343 (Linscott Run Road) - Bridge



X) 25 20 5 T 55

- Survey, site plan, and ROW (right-of-way) plans by ACEO
- Bid/ Letting Date April 22nd, 2016
- Constructed by the lowest bidder, DGM Inc. \$1,447,974 (for five bridges)
- Completed in April of 2017
- Construction Cost was \$357,023 (Funded by ODOT)

County Road 24 (South Canaan Road) - Bridge

- Survey, site plan, and ROW (right-ofway) plans by the ACEO
- Bid/letting date April 22rd, 2016
- Constructed by the lowest bidder, DGM Inc. - \$1,447,974 (For five Bridges)
- Completed in July of 2017
- Construction Cost was \$213,516 (Funded by ODOT)











County Road 25 (Rock Riffle Road) - Bridge









- ATH-CR25 (Rock Riffle Road Bridge)
 - o Survey, Site Plan, and ROW (Right-of-Way) completed by ACEO
 - o Bid/ Letting Date April 22nd, 2016
 - o Five bridges constructed by the lowest bidder, DGM Inc.
 - o Completed in April of 2017
 - o Construction cost was \$210,360

Bridge Deck Replacements by Athens County Engineer's Office



TR106-Miller Road (Carthage Township)

The Athens County Engineer's Office paid the following for the three bridge decks listed below:

- o Labor \$5,652
- o Fringes \$5,253
- o Equipment \$5,723
- o Materials \$10,409
- o Subcontract \$1,150
- o Total Construction \$28,187



TR113-Warner Road (Carthage Township)



TR196-Marietta Run Rd. (Bern Township)

GRANTS / SETTLEMENTS RECEIVED

State and federal grants are an important part of our strategic plan to overcome a diminishing budget and growing costs. The grants received and listed below will make the following projects possible:

- ATH-CR42-3.74 Landslide Mill School Rd
- ATH-CR44-4.37 Landslide Bucks Lake Rd
- ATH-CR1-3.50 Culvert Washout Carbondale Rd
- ATH-CR24-2.60 Landslide Harmony Rd
- ATH-CR24-2.66 Landslide Harmony Rd
- ATH-CR37-2.55 Landslide Concord Church Rd
- ATH-CR39-0.98 Landslide Wrightstown Rd
- ATH-CR57-1.29 Landslide S Rodehaver Rd
- ATH-CR75-4.46 Landslide Coolville Ridge Rd
- SHV Load Rating CEAO FY2017
- Texas Eastern RUMA
- Speed zone Study and Software CEAO FY2018
- County Surface Program (CSTP); CEAO; FY2023

FHWA Emergency Program (100%/0%) for \$33,852

FHWA Emergency Program (80%/20%) for \$35,855

OEMA Emergency Program (75%/20%) for \$22,943

OEMA Emergency Program (75%/25%) for \$144,525

OEMA Emergency Program (75%/25%) for \$64,635

CENTA Emergency Program (7070/2070) for \$04,000

OEMA Emergency Program (75%/25%) for \$78,248

OEMA Emergency Program (75%/25%) for \$28,288

OEMA Emergency Program (75%/25%) for \$29,353

OEMA Emergency Program (75%/25%) for \$155,500

SPR Funding (50%/50%) for \$21,000

SETTLEMENT for Roadway Damage for \$437,500

Highway Safety Program (HSIP) (90%/10%) for \$2,880

CSTP (80%/20%) for \$2,000,000

LAND SURVEYS CHECKED

Property surveys are checked for compliance with the Minimum Standards and for mathematical accuracy, and then forwarded to the Mapping Department at the Athens County Auditor's Office for further processing. Brandon Williams (CAD/GIS Technician) does most of this work with oversight by Donnie Stevens (Assistant Engineer). They checked 345 boundary surveys for accuracy in 2017.

2017 Capital Improvement Project

• Salt/Grit Storage Structure

- Survey, Design and Site Preparation work by ACEO
- o 60' x 70' 2" 1600-ton Capacity
- o Bid date August 15th, 2017
- Lowest Bid Freedom construction \$181,181
- Project completed November of 2017



Project under Construction.



Left Salt Storage Structure Complete



2017 - 2018 Snow and Ice Removal

Item	Amount	Total Costs
Labor (includes overtime)	2,356.9 hours	\$95,357
Fuel	19,779 gallons	\$51,926
Salt	1457.17 tons	\$76,132
Grits (includes hauling)	3,599.05 tons	\$39,560
Total Costs for 2017-20	\$262,975	

2017 Road Leveling

The Athens County Engineer's Office worked on asphalt leveling many county roads in 2017. We used 86.8 tons of cold mix; 3,178.44 tons of hot mix; and 1,914.28 tons of stone on the following roads: CR1, CR14, CR15, CR16, CR18, CR19, CR25, CR29, CR31, CR34, CR35, CR36, CR37, CR38, CR39, CR42, CR44, CR46, CR47, CR64, CR65, CR67, CR69, CR75, CR76, CR82, CR84, CR86, CR90, CR94, CR99, CR102, and CR109. This work was done at a total cost of \$349,325.75 (labor \$28.193.38; equipment \$59,826.80; materials \$239,766.32).

2017 Mowing

Athens County Engineer employees make two passes on each side of the road, four times a year, along the 363.45 miles of county roads. Employees logged a total 1,790 hours of mowing, at a total labor cost of \$71,504. The Athens County Engineer's Office decided to contract out half of the mowing, starting summer of 2017. This frees up our County Employees for prime-time road work. Quick Mow Inc. came in at \$115.75 per mile (\$42,069.34 per round). Quick Mow Inc. mows the second and third rounds, while the County mows the first and last round. The total mowing costs for 2017 was \$227,147.

2017 Chip and Seal (Dust control)

Dust Control

Athens County Engineer employees worked on approximately 5.8 miles of chip and sealing in 2017 on the following county roads: CR18, CR36, CR39, CR47, CR56, CR57, CR65, CR67, CR75, and CR94. This work was done at a total cost of \$118,041 (labor \$11,115; fringes \$8,243; equipment \$19,476; materials \$79,207)

Double Chip and Seal (67's & 8's)

Athens County Engineer employees worked on approximately 6.2 miles of double chip and seal in 2017 on the Following County and township roads: CR42, CR58, CR90, CR94, CR102, TR252, and TR302. This work was done at a total cost of **\$261,210** (labor \$22,657; fringes \$15,710; equipment \$43,193; materials \$179,650).

2017 Roadway Culverts

The Athens County Engineer's Office replaced 37 Culverts in 2017. We (re)placed a total of 1,462 feet of pipe on the following roads; CR3B, CR9, CR15, CR16, CR17, CR19, CR20, CR21, CR25, CR26, CR29, CR31, CR33B, CR38, CR42, CR44, CR47, CR48, CR57, CR59, CR68, CR76, CR81, CR89, CR90, CR94, and CR94A. This work was done at a total cost of \$321,636.05 (Labor + Fringes \$163,743.91; Equipment \$118,746.06; Materials \$101,562.42).

2017 Pothole Patching

Item	Patching Costs
Labor	\$54,033
Fringes	\$44,142
Equipment	\$51,928
Materials	\$71,573
Total	\$221,676

A total of 753.4 Tons of Cold Mix was used during 2017.

EQUIPMENT REPAIRS AND PURCHASES

To ensure that our employees have the tools they need to get their jobs done efficiently, several pieces of equipment were acquired in 2017:

- 14' Tandem Truck Bed
- 2008 Dodge Ram 2500
- HP DesignJet T2530 36 PS Printer (to copy and print large, lifelong/historical maps)

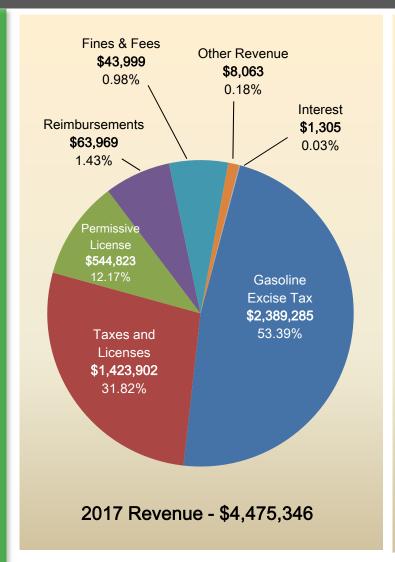
The total for these equipment expenditures was \$61,051. Four Dump trucks purchased in 2014 have an annual payment of \$130,543 for five years; also, a backhoe, attachments, and pickups purchased in 2014 have an annual payment of \$40,545 for ten years. All of these expenditures are included in our \$191,594 in equipment expenses shown in the financials on page 14.

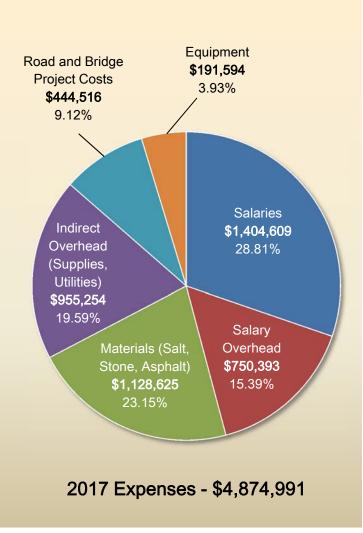
EQUIPMENT RENTALS

Renting equipment is also necessary to complete projects efficiently and in a timely manner. Below is a list of equipment rented in 2017:

- Soil Compactor
- CAT 311 Excavator and thumb
- 316EL excavator
- Sewer Snake
- Track hoe, JD 85D
- 66' JLG Boom lift
- 84" BOMAG Sheepsfoot Roller

The total cost for these equipment rentals was \$16,697





CONSTANT REVENUE SOURCES

The Athens County Engineer's Office is primarily funded by gasoline excise taxes, state registration taxes, motor vehicle registration fees, and county permissive license fees. Other regular sources of income are from fines, permits and interest. In 2017, these constant revenue sources contributed to \$4,475,346 of our income for the year.

VARIABLE REVENUE SOURCES

Some portions of our revenue are highly variable from year to year. The majority of reimbursements come from grant revenue; in some cases the project costs are paid upfront by ACEO, which the grantor (OPWC and FEMA) reimburses to ACEO after project completion; in other cases project costs are paid directly to the Contractor (ODOT and FHWA). The section labeled Other Revenue includes funds from the sale of scrap metal, hauling/frost law permits, bid packets, county maps, and copies. Refunds are collected due to returns, overpayments, and/or credits from vendors.

CARRYOVER INFORMATION

Our general Road Fund carryover amount on January 1st, 2017 was \$1,177,146. As shown by the charts above, revenues were \$4,475,346 and expenditures were \$4,874,991. This left a total carryover on December 31st, 2017 of \$777,501.

Current Staff

Jeff Maiden, P.E., P.S. County Engineer

Donnie Stevens, P.E., P.S.	
Assistant Engineer	

John Brunton *Bridge Maintenance Supervisor*

Lyle Fuller

Garage Supervisor

Trisha Gail

Administrative Assistant

Michael Sheets Superintendent

Maria Smith, B.S. *Business Manager*

Brandon Williams

CAD/GIS Technician

Shelby Vore Engineering Technician Canaanville Outpost:

Brian Baker Tracy Bobo Matthew Booth Kenneth Coen Richard Efaw William Gould David Harvey Albert Hawk Brent Kasler

Mark Meili Craig Scott

Coolville Outpost: Travis Brooks Justin Williams

Nelsonville Outpost:
Bernard Mellinger
Cory Russell

Redtown Outpost:

David Holmes
Geoffrey Moore







Front Row: Lyle Fuller, John Brunton, Trisha Gail, Bill Mellinger, Jeff Maiden, Donnie Stevens, Maria Smith, Brandon Williams, Billy Gould Middle Row: Mike Sheets, Dick Efaw, Craig Scott, Brent Kasler, Matt Booth, Brian Baker, Shorty Hawk, Tracy Bobo, Mark Meili Back Row: Dave Holmes, Kenny Coen, Geoff Moore, Travis Six, Justin Williams, Dave Harvey, Cory Russell, Travis Brooks