

2019 MEDINA COUNTY ENGINEER'S ANNUAL REPORT

By: Andrew J. Conrad, P.E., P.S., Medina County Engineer

To the Board of Medina County Commissioners

It is my privilege to present the Annual Report for the Office of the Medina County Engineer. In accordance with the Ohio Revised Code, an annual report must be made to the County Commissioners summarizing the activities and accomplishments of the County Engineer's office. It also provides a summary to the citizens of Medina County of an accounting of where dollars were spent in order to improve and maintain the County's system of roads and bridges.

The County Engineer is responsible for the maintenance, repair, and construction of the 325.99 miles of roadways on the County highway system and the 292 bridges on both the County and Township roads. Employees of the County Engineer also assist the County Commissioners with management of the stormwater and floodplain regulations, highway use permitting, and subdivision infrastructure planning. Employees of the Engineer also manage the tax map office and various computer operations for the County, including GIS functions.

Starting July 1, 2019, the State of Ohio raised the motor fuel excise tax. The gas tax was raised 10.5 cents for a new total of 38.5 cents/gallon and the tax on diesel fuel was raised 19 cents for a new total of 47 cents/gallon. This increase will result in an additional \$1.5 million annually for my office.

WINTER MAINTENANCE

Each winter season brings its own set of unique challenges. Winter operations for our highway department personnel consists primarily of snow and ice control and removal. The total cost of all snow and ice operations which includes plowing, spreading salt, stacking/loading, brine making and application, and dispatch and supervision was \$896,342.

TREE TRIMMING

As time permits and where needed, work crews have been out in many locations performing tree trimming and removal. The work is made more difficult with the number of overhead utilities that occupy our road right-of-ways. Contractors are sometimes utilized when large trees are encountered. During 2019, the total cost of tree trimming and removal was \$281,424.

VEGETATIVE CONTROL

Three rounds of roadside mowing were completed over the 325.99 centerline miles of County Roads. The first two rounds involved mowing mainly roadsides as well as intersection locations where sight distance was impacted. The third round also included backslopes in addition to roadsides and intersections. The cost to perform the roadside mowing and weed eat spot locations was \$157,069. The cost of applying herbicide spray at spot locations by County forces was \$7,820.

PAVEMENT REPAIRS

County crews performed hand and machine patching and repair on various roads in 2019 where needed. We expended \$305,963 to perform this work. Also, a contract was let for more extensive repairs to miscellaneous roads at a cost of \$177,038.

CRACK SEAL

Crack sealing of various County Roads was performed by County Forces in 2019. Material and labor cost for this work amounted to \$31,432.

FORCE ACCOUNT CULVERT, DRAINAGE, AND SHOULDER WORK

The Highway Department was able to replace numerous road culverts, build and repair shoulders and berms on various roads, and address a large number of work order requests related to drainage concerns and ditching. This force account work was performed utilizing both County Highway equipment and personnel as well as outside contractors. During 2019, Medina County Highway forces abandoned 1 culvert, repaired 3 culverts, replaced 31 culverts, and extended 2 culverts of various sizes at a cost of \$327,346. The remaining ditching and drainage work cost \$722,579. Shoulder work and berming cost \$204,897.

BRIDGE MAINTENANCE

County crews performed maintenance to our bridge inventory at a cost of \$42,920.

VEHICLE/EQUIPMENT PURCHASES

\$21,260	Ford F150 Pickup
\$152,695	Western Star (complete with spreader)
\$72,231	Sewer Jet
\$23,962	Dodge ½ ton Pickup
\$23,980	Dodge ½ ton Pickup
\$53,865	Ford Tool Truck (complete with lift gate)
\$28,683	Ford F250 Pickup
\$1,980	Topcon laser
\$2,082	Hydraulic Pole Saw
\$2,640	Husqvarna Ground Pounder
\$520 Each	Stihl Pole Saw (2)
\$472 Each	Stihl Ms261 Chainsaw (2)
\$272	Stihl Ms193T Chainsaw
\$816	Stihl Cut-Off Saw
\$2,945	A/C Recovery Machine

CONTRACT EXPENDITURES

		Contract Amount	Funding Source	
HOT MIX ASPHALT				
CH 42 – Grafton Road	1.92	\$529,684.74	OPWC	Karvo Companies
CH 13 – Boston Road	1.08	\$272,311.91	OPWC	Karvo Companies
CH 4 – Smith Road	5.17	\$1,611,473.50	CEAO	Melway Paving Company, Inc.
Miles	8.17	\$2,413,470.15		
MOTOR PAVING				
Misc. Roads	11.75	\$1,499,324.35	Local	Melway Paving Company, Inc.
CHIP SEAL				
MC 3000	13.37	\$354,334.30	Local	Melway Paving Company, Inc.
422	11.95	\$325,258.20	Local	Melway Paving Company, Inc.
Miles	25.32	\$679,592.50		
PLANING & PAVEMENT REPAIR				
Misc. Roads		\$177,038.00	Local	Melway Paving Company, Inc.
BRIDGES & CULVERTS				
TH 104 Bridge 8		\$163,001.00	OPWC	N&N Construction
TH 80 Bridge 6		\$139,796.25	OPWC	Rising Son Construction
TH 28 Bridge 17		\$179,787.57	OPWC	US Bridge
CH 50 Bridge 1		\$413,994.50	Local	Lockhart Concrete
TH 27 Bridge 35		\$125,366.00	OPWC	Rising Son Construction
Contract bid of 5 Structures		\$1,021,945.32		
GARAGE PARKING LOT		\$153,123.25	Local	Carron Asphalt Paving
PAVEMENT MARKING				
Misc. Roads		\$109,734.90	CEAO	DURA-MARK INC
GUARDRAIL				
Misc. Locations		\$99,999.00	CEAO	Shook Company LLC
GRAND TOTAL OF CONTRACT WORK		\$6,001,104.22		

FINANCIAL SUMMARY

The maintenance, repair, and construction of roads and bridges on the County Highway System is funded primarily from portions of license plate fees collected for vehicles registered in Medina County and a share of the Ohio 38.5 cents/gallon fuel tax. No real estate or sales tax is used for highway purposes. Federal gas tax and State Issue 1 funds are utilized on specific projects when our office is successful in securing these funds.

Below are the general summaries of the major Expenses and Revenues for 2019.

2019 EXPENSES		2019 REVENUES	
Salaries	\$2,630,852	License Plate Fees	\$6,150,285
Fringe Benefits	\$1,032,273	Gasoline Tax	\$2,939,200
New Equipment	\$384,811	Fees	\$145,197
Travel/Training	\$4,454	Fines	\$31,917
Road/Bridge Contract Repairs	\$4,473,697	Sales/Reimbursements	\$440,313
Contract Services	\$799,188	Investment Income	\$149,779
Materials/Fuel	\$1,218,083	Other	\$57,207
Land & R/W Acquisition	\$1,308		
Miscellaneous	\$44,881		
Total	\$10,589,547	Total	\$9,913,899

Our office was successful in securing numerous federal and state grants this year that were used to assist in a number of our contract projects. All grant money is not shown in the Financial Summary above.