

2020 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 Board of 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 323.61 miles of roads and 292 bridges.

My office was not immune to the challenges that were presented by 2020. We worked through the pandemic and never shut down our operations. We had personnel in the Engineering Center, Tax Map Office, and Highway Garage that contracted the virus. However, we did not see a spread of the virus in the workforce because everyone was diligent in monitoring their symptoms, followed the ever-changing guidelines, and quarantined when necessary.

I am thankful to all of my employees who worked throughout these trying times and adapted to new health measures on a regular basis. The engineering staff was able to bid and construct all of our scheduled projects on time. The Tax Map Office and Permit Department remained open while adhering to the new social distancing guidelines. The Highway Department reported to work in splits shifts and drove individual vehicles to job sites to help reduce the chance of spreading the virus.

I would like to congratulate Doug King, Administrative Assistant, Beth Mika, Tax Map Supervisor, Dave Szabo, Engineer, and Rick Tomko, Drainage Specialist, on their retirements in 2020. I appreciate the work that they did on behalf of the residents of Medina County and the friendships that we shared. They will be missed.

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 \$638,762.44.

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 2020, the total cost of tree trimming and removal was \$293,593.04.

VEGETATIVE CONTROL

Three rounds of roadside mowing were completed over the 323.61 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 \$168,992.22. The cost of applying herbicide spray at spot locations by County forces was \$6,281.16.

PAVEMENT REPAIRS

County crews performed hand and machine patching and repair on various roads in 2020 where needed. We expended \$170,866.60 to perform this work. Also, a contract was let for more extensive repairs to miscellaneous roads at a cost of \$176,625.00.

CRACK SEAL

Crack sealing of various County Roads was performed by County Forces in 2020. Material and labor cost for this work amounted to \$56,703.00.

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 2020, Medina County Highway forces abandoned 2 culverts, repaired 3 culverts, replaced 47 culverts, and extended 4 culverts of various sizes at a cost of \$650,954. The remaining ditching and drainage work cost \$529,223. Shoulder work and berming cost \$283,832.

BRIDGE MAINTENANCE

County crews replaced one structure, replaced the deck on one structure, and performed maintenance to our bridge inventory at a cost of \$152,646.

MISCELLANEOUS TASKS

County crews performed miscellaneous tasks associated with the maintenance of the County road system at a cost of \$159,336.

VEHICLE/EQUIPMENT PURCHASES

\$28,949	Ford F-150 Pickup
\$89,662	Western Star Cab and Chassis
\$43,140	Vermeer Brush Chipper
\$11,000	Scag Cheetah Mower
\$55,549	John Deere Tractor
\$75,182	John Deere Tractor
\$35,621	Ford F-450 Pickup
\$5,089	Pumps (3)
\$1,836	Concrete Vibrator
\$1,563	Trailer
\$472	Stihl Chainsaw
<u>\$5,299</u>	<u>Miscellaneous Shop Equipment and Tools</u>
\$353,362	Total for Vehicle and Equipment Purchases for the Highway Garage

2020 Roadway Contracts

		Contract Amount	Funding Source
HOT MIX ASPHALT			
CH 64 – Crow Road	1.00	\$204,081.50	Local Kokosing Construction Company, Inc
CH 97 – Greenwich Road	0.46	\$89,244.25	OPWC Perrin Asphalt Inc.
CH 2 – Medina Line Road	6.43	\$1,798,706.00	NOACA The Shelly Company
CH 47 & CH 63	4.29	\$566,037.20	Local Melway Paving Company, Inc.
	Miles 12.18	\$2,658,068.95	
MOTOR PAVING			
	Miles 9.26	\$1,153,922.50	Local Melway Paving Company, Inc.
CHIP SEAL			
MC 3000	15.43	\$509,388.05	Local Melway Paving Company, Inc.
422	13.40	\$450,217.16	Local Melway Paving Company, Inc.
	Miles 28.83	\$959,605.21	
PLANING & PAVEMENT REPAIR			
Misc. Roads		\$176,625.00	Local Melway Paving Company, Inc.
BRIDGES			
CH 99 - Bridge 5		\$716,311.85	CEAO V.O. Menuez, Inc
CH 97 – Bridge 27		\$454,943.50	CEAO Black Horse Construction Inc
CH 135 – Bridge 20		\$178,600.80	OPWC Rising Son Company, Inc
CH 26 – Bridge 29		\$147,625.00	OPWC Vasel Brothers Inc
Contract bid of 4 Structures		\$1,497,481.15	
GARAGE PARKING LOT			
		\$89,320.00	Local Crossroads Asphalt
PAVEMENT MARKING			
Misc. Roads		\$176,256.67	CEAO DURA-MARK INC
GRAND TOTAL OF CONTRACT WORK		\$6,711,279.48	

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 Expenses and Revenues for 2020

2020 EXPENSES

Salaries	\$2,593,884
Fringe Benefits	\$1,003,700
New Equipment	\$365,345
Travel/Training	\$2,121
Road/Bridge Contract Repairs	\$4,139,438
Contract Services	\$564,689
Materials/Fuel	\$1,225,324
Land & R/W Acquisition	\$4,417
Miscellaneous	\$37,614
Total	\$9,936,532

2020 REVENUES

License Plate Fees	\$6,110,261
Gasoline Tax	\$3,614,207
Fees	\$166,208
Fines	\$26,585
Sales/Reimbursements	\$383,330
Investment Income	\$101,368
Other	\$27,391
Total	\$10,429,350

Our office was successful in securing numerous federal and state grants totaling nearly \$3,000,000 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.