

**Morgan County Engineer – 2021 Annual Report**  
**Stevan Hook PE, PS -**  
**Jan. 14, 2022**

In accordance with the provisions of the Ohio Revised Code an annual report must be submitted to the Board of County Commissioners summarizing the activities and accomplishments of the County Engineer’s office during a given calendar year. Before I get into the details of the 2021 Annual report; I want to address two items of importance.

**1.) I want to dedicate this annual report to (Tim) Wiseman who recently passed away; due to complication of Covid-19. Tim was a dedicated employee who always had a joke or funny story to tell, usually about cattle. He will be missed by all.**

**2.)As you know I have intended on retiring at the end of this month. However, with the resignation of my Deputy Engineer that timeline will change somewhat. I still have not gotten a formal decision from my latest potential candidate; he is still looking for a place to purchase. If he does not take the offer I will be out looking again.**

The Morgan County Engineer’s Office is responsible for 344 miles of county highway which includes yearly maintenance, reconstruction projects, and winter snow and ice removal. This includes the responsibility for 202 bridges on County and Township roads. The County Engineer is also responsible for maintaining correct and accurate tax maps, oversees the administration of the Flood Plain Program, and the Planning Commission program.

To be able to fund this work the County Engineer’s Office receives its revenue from two major sources. The first is the gasoline tax which generated **\$3,739,694.30**. The second source is the general license plate fees that generated **\$957,928.05** and the \$5.00 license plate permissive fee which raised **\$76,560.46**. (This goes into the separate 016 account for the “Old Iron” Bridge). Plus some other miscellaneous sources of revenue (Sales of scrap metal and used equipment, refunds, and reimbursements for labor, materials, and equipment from townships and other vendors) our entire 2021 revenues were **\$5,546,292.52**

The detailed receipt breakdown follows.

**RECEIPTS – 2021**

License Tax -	\$ 957,928.05
Gas Tax -	\$3,739,694.30
Fines -	\$ 5,121.45
Sales -	\$ 76,328.58
Interest -	\$ 10,869.78
Reimbursements, Labor & Materials -	\$ 38,484.61
Refunds -	\$ 715,999.25
Other -	\$ 1,366.50
<b><u>Total Receipts 2021</u></b>	<b><u>\$5,546,292.52</u></b>

2020 receipts	<u>\$4,951,975.21</u>
2019 Receipts	\$3,946,943.81
2018 Receipts	\$4,342,047.14 - includes \$699,421.15 Roundabout
2017 Receipts	\$3,486,429.15
2016 Receipts	\$3,479,318.67
2015 Receipts	\$3,425,690.15
2014 Receipts	\$3,330,660.94
2013 Receipts	\$3,268,381.97
2012 Receipts	\$3,242,647.27
2011 Receipts	\$3,324,835.62 + \$52,504.00 from FEMA
2010 Receipts	\$3,352,011.37
2009 Receipts	\$3,337,706.40
2008 Receipts	\$3,410,552.55

### **EXPENDITURES– 2021**

Even though there was a Gas Tax increase in July of 2019; due to increasing cost in construction materials, health insurance, the continuing complications of the covid-19 issues, and three continuous years of extremely wet weather conditions made for a very challenging situation in 2021. To meet the necessary requirements for the 344+ miles of roadway, the 202 bridges that must be maintained and complying with FEMA requirements; we had to balance labor, equipment, operating techniques, and available funding to get the best overall results for the entire County. In doing this; some areas of the County have improved; but, others have deteriorated further. The following is a detailed breakdown of the 2021 expenditures for this office.

### **Wages and Benefits – 31.26%** **(1-Official, 22-Full Time, 5-Part Time)**

Labor -	\$1,246,646.34
PERS -	\$ 167,992.49
Health Insurance -	\$ 290,681.80
Uniforms -	\$ 12,855.58
Medicare -	\$ 17,407.30
Worker’s Compensation -	\$ 27,152.04
Unemployment Compensation -	\$ 0.00
Drug Testing -	<u>\$ 730.00</u>

### **Total Wages and Benefits – 2021 \$1,763,465.55**

Total Wages and Benefits – 2020	\$1,770,716.75
Total Wages and Benefits – 2019	\$1,714,530.38
Total Wages and Benefits – 2018	\$1,632,627.09
Total Wages and Benefits – 2017	\$1,622,038.06
Total Wages and Benefits – 2016	\$1,699,847.11
Total Wages and Benefits – 2015	\$1,666,199.43

Total Wages and Benefits – 2014	\$1,633,218.94
Total Wages and Benefits – 2013	\$1,711,895.65
Total Wages and Benefits – 2012	\$1,681,118.76
Total Wages and Benefits – 2011	\$1,473,671.76
Total Wages and Benefits – 2010	\$1,557,158.90
Total Wages and Benefits – 2009	\$1,556,876.16
Total Wages and Benefits – 2008	\$1,638,666.61
Total Wages and Benefits – 2007	\$1,630,083.88

Overtime pay was \$5,764.68 (0.46 % of the total payroll costs). This overtime was primarily the result of snow removal or summer storm damage; the remainder was used to more efficiently complete some daily task.

**Improvements – (47.54%)**

Paving (County Portion of OPWC)	\$ 359,616.39
OPWC (Rds. #26 & 27) Loan	\$ 37,145.54
Bridge Work (County Portion less labor)	\$ 57,144.23
Outside Professional Services	\$ 134,780.00
New Culverts	\$ 94,519.78
Asphalt	\$ 81,906.00
(12) Slip Repairs (Less what paid thru the 007 Acc't)	<u>\$1,916,146.78</u>

**Total for Improvements** **\$2,681,258.72**

**Road Maintenance – Materials and Services – (7.56%)**

Salt, Cinders & Transportation Included	\$ 73,392.86
Signs & Posts –	\$ 3,262.00
Stone –	<u>\$349,573.00</u>

**Total Road Maintenance** **\$426,227.86**

**Overheads – (9.52%)**

Utilities & Building Maintenance -	\$ 26,257.00
Repair Parts & Supplies	\$204,186.23
Fuel -	\$174,463.94
Tires -	\$ 26,916.06
Lubricants -	\$ 18,824.72
Liability Insurance -	\$ 46,858.00
Allocated Costs to the Commissioners -	\$ 37,468.50
Travel & Expenses-	<u>\$ 2,476.48</u>

**Total Overhead** **\$537,450.93**

**Equipment - (4.12%)**

Freightliner (5th /5 Payment)	\$27,941.74
New 210 Kobelco Track-hoe (2nd/5 Pay.)	\$34,150.00
Used Vibrating Steel-Roller	\$42,500.00
Used Grader (1 <sup>st</sup> /2Pay)	\$60,000.00
Used Hydraulic Hammer	\$15,000.00
New Equipment Trailer	\$ 9,200.00
New Mower (1 <sup>st</sup> /5pay)	<u>\$43,618.75</u>
<b><u>Total Equipment</u></b>	<b>\$232,409.99</b>

**2021 EXPENDITURES** \$5,640,544.57

2020 Expenditures	\$4,727,322.43
2019 Expenditures	\$3,633,981.89
2018 Expenditures	\$4,541,492.45 Inc. \$844,155.44 for Roundabout
2017 Expenditures	\$3,108,553.77
2016 Expenditures	\$3,472,523.92
2015 Expenditures	\$3,248,976.91
2014 Expenditures	\$3,236,618.54
2013 Expenditures	\$3,320,915.60
2012 Expenditures	\$3,669,397.21
2011 Expenditures	\$3,149,102.24
2010 Expenditures	\$3,436,944.77
2009 Expenditures	\$3,459,256.89
2008 Expenditures	\$3,273,145.15
2007 Expenditures	\$3,629,879.18

**2021 ROAD RESURFACING**

The following is a detailed breakdown of all the road and bridge work that was completed in 2021. It does not include the smaller day to day maintenance jobs.

<b><u>New Pavement Projects</u></b>	<b><u>Miles</u></b> <b><u>Total</u></b>	<b><u>County's Cost</u></b>	<b><u>% of</u></b>
CR #13 – McInturf Rd.	1.746 miles	\$ 59,658.24	40.0%
CR #18 – Dale Rd.	2.616 miles	\$ 89,384.85	40.0%
CR #60 – Johnson Ridge Rd.	3.000 miles	\$ 102,505.72	40.0%
CR #69 – Colman Rd.	0.180 miles	\$ 6,150.33	40.0%
CR #100 – Echo Hill Rd.	1.806 miles	\$ 101,917.26	64.2%
<b>Total</b>	<b>9.348 miles</b>	<b>\$359,616.39</b>	

The five (5) projects were co-funded with local and Issue-I Funds administered thru Buckeye Hill’s for the Ohio Public Works Projects. Without this additional funding Morgan County could not possibly complete this amount of new paving projects. These paving projects were completed thru the competitive bidding process as required by Ohio law. The cost numbers shown above represent only the County’s portion (percentage shown as “% of the total” project cost).

It should also be noted that 2-Townships (Center & Manchester) and two (2) villages (Malta & McConnelsville) were also a recipient of Issue-I funding with Round #35 funding. This was the result of combining their projects with those of the County for a better overall result.

**BRIDGE & CULVERT CONSTRUCTION/REPAIR - \$207,546.64**

Three (7) bridges were upgraded during 2021. All of these cost figures include the addition for overheads on labor, material, and equipment as mandated by Ohio law and the State Auditor’s policies for force account bridge and culvert construction installed after 7/01/2001.

**Bridge Repair/Replace Projects**

CR #4 Bridge #454	Replaced wooden deck	\$ 19,745.30
CR #101 Bridge #405	Added scour rock	\$ 2,639.67
CR #81 Bridge #708	Added a concrete scour apron	\$ 5,411.05
TR #199 Bridge #388	Added scour rock	\$ 2,240.88
TR #87 Bridge #635	Added a Concrete scour apron	\$ 9,888.19
TR #66 Bridge #683	Added scour rock	\$ 4,908.27
TR #942 Bridge #563	Replaced wooden deck & apron	\$ <u>39,314.65</u>
	<b>Total Bridge Costs</b>	<b>\$ 84,148.01</b>

**Overall State Bridge Ratings**

Each of our 202 bridges is load rated based upon its condition found during the annual spring bridge inspection program. **At the end of 2021 we had 3 bridges that were classified as “structurally deficient”.** Of those 3 structurally deficient bridges:

Funding for 2 of the remaining 3 bridges will come from the CEAO/ODOT Program. One is scheduled for total replacement in 2024, one will be applied for in 2022 for CEAO funds in 2027. The third bridge is the “Old Iron Bridge” between Malta and McConnelsville. The final decision on this bridge will take more time and evaluation to determine viable options on what the County can afford to spend. Most likely this bridge will be closed to vehicular traffic in the next 6 months and then converted to a “pedestrian only” structure. We will wait to get the 2022 fracture critical inspection report, to be completed in July.

Bridges are also rated by a Sufficiency Rating Factor which takes into account results of annual bridge inspection findings, daily traffic counts, bridge type etc. The following depicts the 12/31/2021 status of our bridges

<u>Number of Bridges</u>	<u>% of total Bridges</u>	<u>Sufficiency Rating</u>
12	6.0	Excellent (90 to 100)
101	50.5	Good (70-90)
73	36.5	Fair (40-70)
<u>14</u>	<u>7.0</u>	Poor (0-40)
<b>200</b>	<b>100.0</b>	

### Small Culvert Work

During 2021 a total of 2,561 feet of small diameter culvert was installed at 61 separate locations on CR #13, CR #18, CR #20, CR #66, CR #69, CR #100, CR #110 and a few other smaller road projects on other county and township roads. The amount of pipe installed, broken down by diameter size, is as follows:

12" - 1050 feet	15" - 1,091 feet	18" - 222 feet	24" - 48 feet
30" - 0 feet	36" - 50 feet	42" - 0 feet	48" - 0 feet

**Total Installation Cost** **\$ 123,398.63**

**Grand Total Culvert & Bridges** **\$ 207,546.64**

**The Permissive License Fee Fund** – As of 12/31/2021 contains **\$359,243.04** and has been dedicated to the future maintenance and final disposition of the “Old Iron Bridge” between Malta & McConnelsville.

### **FEMA FUNDS (2018-DR 4360), (2019-DR 4424), 2020- OHIO EMA & 2021-OPWC UPDATE**

**DR 4360** - The first FEMA disaster declaration (DR 4360) was made in March of 2018 for the event dates of *February 14 thru February 25, 2018* which included Morgan County. There were 19 sites that were approved for repair plus emergency debris clean-up costs. Eight (8) of the 19 sites were completed prior to the inclusion of Morgan County into the disaster proclamation.

Of the remaining eleven (11) non-completed sites; two (2) were completed (in-house) during 2019, six (6) were completed in 2020 and two (2) were completed in 2021. The final site is awaiting FEMA’s approval for a “Change of Scope” from a driven pile project to a drilled shaft

project; due to the increase in size of damage since its initial approval. We expect this project will be completed by the end of June 2022.

**FEMA 4360 - Projects Completed in 2021**

1.) CR #106	2/26/2021.	RC Constr.	\$118,949.42	Driven Piles
2.) CR #16	5/7/2021.	Sheckler Excav.	<u>\$111,443.12</u>	Rock Fill
			<b>\$230,392.54</b>	

**FEMA 4360 – Remaining Projects -2022**

3.) CR #70	FEMA Review	Yet to be Bid	<b>\$520,780.00</b>	Drilled Shaft?
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**Marion Twp**

**FEMA 4360 – Completed Projects -2021**

1.) TR #60	4/14/2020	Alan Stone	\$103,324.00	Driven Piling
2.) TR #6	7/29/2021	RC Constr.	<u>\$ 85,155.72</u>	Drilled Piling
			<b>\$188,479.72</b>	

**DR 4424** - The second FEMA disaster declaration (DR 4424) was made as a result of heavy rainfall in February of 2019 for the event dates of *February 2 thru February 13, 2019* which included Morgan County. There were 21 sites that were approved for repair plus emergency debris clean-up costs (was completed in 2019). Thirteen (13) of these projects were completed in 2020. One (1) was denied funding. Of the remaining seven (7); four (4) were completed in 2021, Two (2) are under FEMA review, one (1) is being handled by ODNR (Olive Green Creek Realignment) At present all of these projects should be completed by year.

**FEMA 4424- Projects Completed in 2021**

1.) CR #21	3/1/2021.	Bob Lane Weld.	\$ 34,113.99	Driven Pipe Piles
2.) CR #100	4/23/2021.	Ohio/WVa.	\$ 381,164.95	Drilled Shaft
3.) CR #2	5/16/2021	Shelly & Sands	\$ 574,103.51	Drilled Shaft
4.) CR #18-1	5/21/2021.	Ohio/WVa.	<u>\$ 175,843.30</u>	Drilled Shaft
			<b>\$1,165,225.75</b>	

**FEMA 4424– Remaining Projects -2022**

1.)CR #4	FEMA Review	To be bid	\$ 304,530.00	Drilled Shaft
2.) TR #941	ODNR Review	ODNR will bid	\$ 151,000.00	Creek Realignment
3.) CR #18-2	FEMA Review	To be bid	<u>\$ 242,280.00</u>	Drilled shaft
			<b>\$ 697,810.00</b>	

**2020 OHIO Event** – During the spring of 2020 the Ohio legislature agreed to finance several extremely wet period infrastructure repair projects at 75%. The LPAs must pick up the difference of 25%. It was the *week of May 8, 2020* that Morgan County suffered six (6) roadway slip damage areas that may cost as much as **\$1.36 million**. Of the six (6) sites involved; one (1) was

completed in-house in 2020, (3) were completed during the 2021 construction season. The 5<sup>th</sup> project is out to bid to be completed by June 15, 2022, and the sixth will be completed after our road paving preparation is completed in September.

**OEMA 2020- Projects Completed in 2021**

1.) CR # 46	8/19/2021	Completed	\$ 116,377.87	Driven Piling
2.) CR # 15	7/31/2021	Completed	\$ 194,274.00	Drilled Shaft
3.) CR # 38	2021	Completed	<u>\$ 464,628.20</u>	Drilled Shaft
			<b>\$ 775,280.07</b>	<b>25% 193,820.02</b>

**OEMA 2020– Remaining Projects -2022**

4.) CR # 69	2022	Out to bid	\$ 421,620.00	Drilled Shaft
5.) CR # 70	2022	In-house repair	<u>\$ 132,504.00</u>	Driven Piling
			<b>\$ 554,124.00</b>	<b>Total</b>

**2021 Slip on CR #45 Glenn Road** – Glenn Road developed a large slip that actually closed the road for a while; until we received approval from the landowner to move the road over until we could repair the slip. We applied to the OPWC for help and received a grant that is paying 90% of the cost of the contract bid price (**\$379,151.00**) to repair the slip. Ohio/West Virginia Excavating was the successful bidder and they had completed the project (**\$324,446.90**) except for the asphalt repair by 12/31/2021. The asphalt repair work will be completed in May after the asphalt plants are back in operation.

1.) CR #45	2022	Will complete	\$ <b>54,704.10</b>	Drilled shaft
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**TOTAL Slip Repair Completed in 2021** **\$2,683,824.98**

As of 12/31/21 we have received \$2,235,728.31 from FEMA for the 2021 annual period. This task (completing the FEMA projects) will be a challenge to say the least. When you add up the remaining cost of slip repair created over the past 4 years estimated at **\$ 1,827,181.00**; the combined cost of time required for manpower, equipment, plus our normal annual operating requirements is creating a situation that may take 2/3 years to overcome.

**LIST OF OUR CURRENT EMPLOYEES**

**OFFICE:**     **Jeff McInturf – Surveyor**  
                   **Lisa Waite – Administrative Assistant**  
                   **Marcia Wolfe – GIS Technician – Part Time**

**GARAGE:**   **Dean Cain – Superintendent**  
                   **Jeff Williams – Supervisor**



**Penny Smith - Time Keeper/Janitor**

**Tom Apperson – Crew Leader**

**Chad Cooper – Crew Leader**

**Jeff Driggs - Truck Driver**

**Tom McCoy - Truck Driver**

**Jeff Baumer – Operator**

**Drew Blackburn – Operator**

**Randy Duskey – Operator**

**Casey Hall – Operator**

**Tanner Roe - Operator**

**Cody Tate – Operator**

**Robert Kutscherenko – Mechanic**

**Greg White – Mechanic**

**Heath Mummey – Mechanic/Welder**

**Junior Buchanan - Laborer**

**Elliott Apperson – Operator**

**Adam Caldwell - Laborer**

**Andrew Meek - Laborer**