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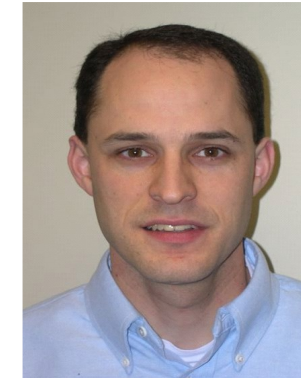
BRIDGE SUFFICIENCY RATINGS

Year	Poor 0-50	Fair 51-70	Good-Excellent 71-100	Year	Poor 0-50	Fair 51-70	Good-Excellent 71-100
2008	8.8%	8.3%	82.9%	2015	3.5%	6.5%	90%
2009	7.4%	8.3%	84.3%	2016	3.0%	6.1%	90.9%
2010	7.4%	7.0%	85.6%	2017	3.5%	3.0%	93.5%
2011	6.1%	7.9%	86%	2018	3.0%	3.0%	94%
2012	5.2%	7.4%	87.4%	2019	2.1%	2.1%	95.8%
2013	3.9%	8.3%	87.8%	2020	2.1%	2.1%	95.8%
2014	3.9%	7.4%	88.7%	2021	0.9%	1.7%	97.4%



Defiance County Engineer Annual Report 2021

FROM THE DESK OF
 WARREN J. SCHLATTER, P.E., P.S.



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DEFIANCE—It is my privilege to present the Annual Report for the Office of the Defiance County Engineer for the year 2021.

Our Highway Garage Staff did much of the support work for the roadside grading and widening work. There were a total of thirty-five culverts replaced this year. They continued with their various other duties as well (replacing berm, mowing, patching, sign replacement, roadside tree trimming and removal, snow & ice control/removal, etc.).

This year we widened several roads through out the County. Here are some of the roads that were widened: Bowman Rd between Williams Rd and SR 66, Openlander Rd between Blosser Rd and McCavit Rd and Schubert Rd between Defiance Putnam County Line Rd and SR 15.

This year we cement stabilized and paved roads for three of the townships in Defiance County. Ridenour Rd between Scott and the Defiance Williams County Line Rd in Farmer Township. Coy Rd between SR 18 and Lockwood Rd in Delaware Township. Weichman Rd 1/2 mi North of SR 281 to the Defiance Henry County Line Rd in Richland Township. Kinner Rd between Mansfield Rd and the Defiance Putnam County Line Rd in Highland Township.

Our administrative staff manages the overall office functions and budget of the Engineer's Office. They also help with the designing, engineering and overseeing of

all aspects of the construction projects. With their diligence, we were able to obtain \$569,230.15 in federal and state grants for this year's projects as well.

I want to take this opportunity to thank the residents of Defiance County for the opportunity to serve you.

I respectfully submit this annual report required by Ohio Revised Code Ch. 5543.

Warren J. Schlatter

2021 Bridge Replacements	
Location	Cost
Farmer Mark Rd S of Ft.St. Rd	\$29,740.64
Defiance Williams Cty Ln Rd N of Glenburg Rd	\$47,909.77
Farmer Mark Rd S of SR 18	\$79,102.57
Lake Rd S of SR 2	\$21,716.09
Kinner Rd S of Mansfield Rd	\$13,255.06

2021 BRIDGE WORK AND MAJOR ROAD WORK

2021 Road Paving			
Location	Cost	Widened From	Widened To
Blanchard btw SR 15 and Painter Rd	\$200,153.46	18'	24'
Defiance Williams Cty Ln btw Flickinger and Glenburg Rd	\$87,030.15	NA	NA
Farmer Mark btw Jericho and SR 18	\$194,539.57	18'	22'
Jewell btw SR 66 and US 24 R/W	\$325,642.68	18'	22'
Openlander btw Blosser and the Defiance Williams Cty Ln Rd	\$434,218.82	NA	NA
Schubert btw SR 15 and the Defiance Putnam Cty Ln Rd	\$147,393.33	16'	18'
Standley btw Harris and the Defiance Henry Cty Ln Rd	\$162,265.68	NA	NA
Steinmeier btw DAPB and New Bavaria Rd	\$161,655.14	NA	NA

2021 ACTUAL INCOME & EXPENSES

<u>2021 Revenue</u>		<u>Disbursements</u>	
Permissive Tax	468,308	Salaries	1,206,927
Motor Vehicle License Tax	1,596,188	Benefits	508,763
Motor Vehicle Fuel Tax	3,739,694	Materials & Supplies	1,177,315
Court Fines	21,047	Equipment	258,544
Sales (Maps, Prints, etc.)	17	Contracted Repairs	78,919
Other	276,829	Office Expenses	1,359
Reimbursements	9,569	Other Expenses	39,895
Interest	9,120	Contracted Services	19,276
Transfers	4,999	Contracted Projects	2,488,668
State Reimbursements	4,155	Land Acquisition (right of way)	16,203
State Grant Advances	-	State Grant Advances	-
OPWC	569,230	Grants to Townships.	285,136
Federal Grants	-	Grant Matching Funds & FHWA	569,230
Total Income	\$6,699,156	Total Expenditures	\$6,650,235
Outstanding Encumbrances	155,016	Outstanding Encumbrances	364,437
2020 Carryover to 2021	1,831,021	2021 Carryover to 2022	1,670,520
Total Disbursements	\$8,685,193	Total Disbursements	\$8,685,193

SNOW & ICE CONTROL

Snow & Ice Control costs were typical during November 1, 2020 through March 1, 2021 season. There were many smaller events that characterized this season. Below is a comparison of the last 3 seasons.

	2017-2018	2019-2020	2021-2022
Labor	\$35,491.20	\$28,430.68	\$32,969.18
Overtime	\$36,964.79	\$24,337.53	\$44,558.01
Equipment	\$179,107.43	\$115,907.96	\$193,310.86
Material	\$81,752.88	\$105,199.39	\$140,586.43
Total Seasonal Cost	\$333,316.30	\$273,875.56	\$411,424.48

2021 SIGN REPLACEMENTS

Type of Sign	Quantity
Stop Sign	26
Stop Ahead	7
Warning	19
Road Name	58
Other Regulatory	7
Total	117

Reason	Quantity
Accident	12
Vandalism	11
Stolen	56
Normal wear (Faded, cracked, upgrade, etc.)	38
Total	117

2021 ROAD RESURFACING PROGRAM
RESURFACING:

County:			
Blanchard	2.06 miles	Schubert	1.60 miles
Defiance Williams Cty Ln	1.02 miles	Standley	2.00 miles
Farmer Mark	2.00 miles	Steinmeier	1.8 miles
Jewell	3.26 miles		
Openlander	4.99 miles		
20,275 tons of asphalt applied			
Townships:			
8 Township	10.95 miles		
8,520 tons of asphalt applied			
Total Cost: \$2,573,914.25			

2021 PATCHING & REPAIR

2,093 tons of asphalt were used this year to patch and repair county roadways at a cost of \$241,388.25.

2,580 tons of asphalt were used to patch and repair township roadways in the following townships: Adams, Defiance, Farmer, Hicksville, Highland, Mark, Milford, Noble, Richland and Washington. The cost to the townships was \$335,506.51.

2021 CRACK SEALING

26,960 pounds of crack sealing material were applied to 10.77 miles of county roadways at a cost of \$32,864.24.

15.86 miles of township roadways were sealed using 53,520 pounds of crack sealing material under the supervision of the County Engineer's Office. The cost for township crack sealing was \$65,240.88.

2021 CHIP SEALING

1,264 tons of stone and 34,487 gallons of liquid asphalt were applied to 13.07 miles of county roadways during this year's chip sealing program. This year's cost was \$103,345.23.

43.45 miles of township roads were chip sealed using 6,357 tons of stone and 190,242 gallons of liquid asphalt at a cost of \$505,808.27. All the townships participated this year except two.

2021 PAVEMENT MARKING PROGRAM

4,097 gallons of paint were applied to county and township roads during the 2021 Pavement Marking Program at a total cost of \$203,592.10. The markings included:

Type	County	Township
Centerline	67.57 Mi.	14.79 Mi.
Edge Line	131.63 Mi.	20.13 Mi.
Stop Lines	57	4
Railroad Crossings	6	0
School Zones	1	0

2021 PERMITS

Driveway	23
Utility Occupancy	24
Excavation	0
Ditch Enclosure	2
Storm water/Sanitary Discharge	1
Special Hauling	9
R/W Occupancy	0
TOTAL	59

2021 Vegetation Control

The west half of the county was sprayed for vegetation control in 2021.

31,100 gallons were applied at a cost of \$21,894.40.

Hicksville township participated this year.

2021 Right of Way Acquisition

Additional right of way is purchased for many new projects. This year's acquisitions included:

0 Temporary easements totaling 0 acres

5 Permanent parcels totaling 1.562 acres

Total cost: \$16,203.00