



# 2021 ANNUAL REPORT

Coshocton County Engineer  
Frederick T. Wachtel, P.E., P.S.

## CONDITION OF ROADS, BRIDGES, AND CULVERTS

### **INSIDE THIS ISSUE**

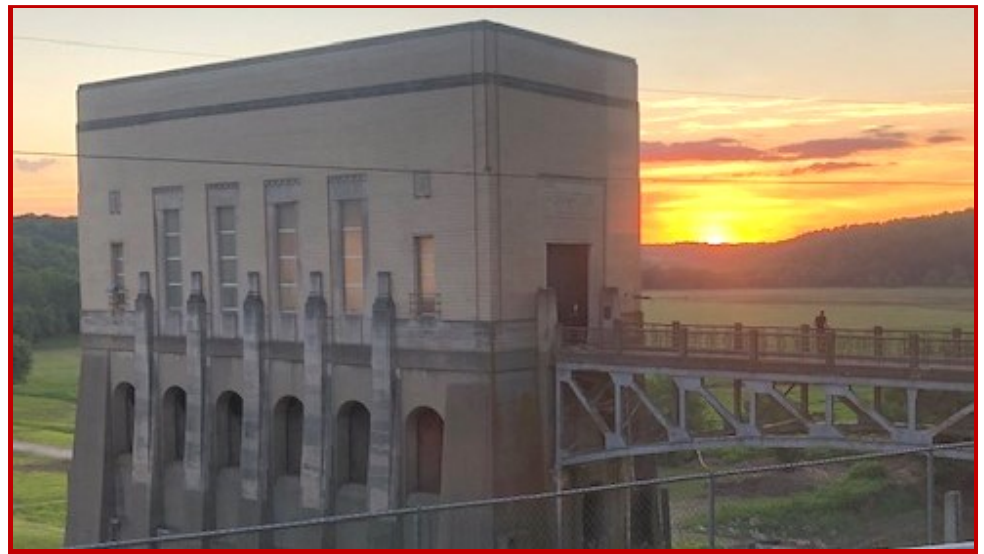
- Personnel Matters .....2
- Other Things  
We Do .....2
- Fleet Management .....2
- Access Management .....3
- Coshocton County  
Regional Planning .....3
- Coshocton County  
Utilities Department .....3
- Safety Issues .....3
- Major Road  
Improvements .....4
- Drainage Improvements  
& Culvert Installations .....4
- Current Condition Rating of  
Our 350 Miles of Road .....5
- Amish Steering Committee ....5
- Winter Snow Patrol .....5
- Community Emergencies .....5
- Bridge Construction .....6
- Pending Road  
Projects .....7
- Pending Bridge  
Projects .....7
- Tax Map/GIS .....8
- Floodplain  
Administration .....8

### *From Fred's Desk...*

We are filing this report to highlight the Coshocton County Engineer's Office 2021 activities and to lay out our tentative plans for the 2022.

The coronavirus pandemic continued to affect our ability to provide service to our constituents in a timely and effective manner. Although several of our employees experienced the illness personally, we were still able to get things done throughout the year with only minor disruptions.

I hope you will find this report interesting and informative. As always, if you have questions with regard to the various activities of the County Engineer's Office, please feel free to contact us at 740-622-2135 or via email at [fredwachtel@coshoctoncounty.net](mailto:fredwachtel@coshoctoncounty.net). For current information with regard to the County Engineer's Office, please visit our website at [www.coshoctoncounty.net](http://www.coshoctoncounty.net).



Mohawk Dam – located in Jefferson Township. Completed in September 1937

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## PERSONNEL MATTERS

We had a few personnel changes in 2021. Two employees, HMW Mike Clarke, and Mechanic Matt Limburg resigned to pursue other employment opportunities and, part-time janitor Sam Maple retired for a second time. Joining the operation in 2021 were Head Mechanic Dave Markley and two HMW's, Craig Hunter and Mark McCombs, Jr. Including these three employees, our labor force consists of 15 Highway Maintenance Workers and 2 Head Mechanics.

We also negotiated a new, three-year Collective Bargaining Agreement with our AFSCME represented employees.

Six employees completed 2021 with perfect attendance: Brent Everhart completed 14 years; Mark Westhoefer seven years; Rick Brenly and Cody Westhoefer three years; and, Rob Helmick one year.

## OTHER THINGS WE DO

- ◆ Fred served as the President of the County Engineers Association of Ohio for 2021.
- ◆ Fred serves as the Chair of Coshocton County Transportation Improvement District.
- ◆ The Coshocton County Engineer's Office is a member of the Ohio Mid-East Government Association (OMEGA) Transportation Advisory Committee (TAC). This group is the Rural Transportation Planning Organization that serves our county.
- ◆ Fred serves as the CEO representative on the Ohio Geographically Referenced Information Program (OGRIP).
- ◆ Josh and Fred helped several of our townships prepare applications for the ODOT Township Stimulus Program. We prepared over 30 applications that were submitted to ODOT for consideration along with over 1100 other applications state-wide for a share of the \$8 million available.
- ◆ Fred was tasked with coordinating and scoring all of the Coshocton County applications submitted for the State-funded Water and Wastewater Grant Program.

## FLEET MANAGEMENT

We continue to evaluate our fleet to try and position our operation with the right combination of vehicles and construction equipment so that we can effectively provide service to our constituents. In our ongoing effort to maintain a serviceable fleet, the following lists are our equipment purchases and deletions.

### Additions included:

- \* 2017 DuraPatcher - \$39,525
- \* 2021 Dodge Durango - \$27,244
- \* 3-2021 Ford F250 4X4 Pickup Trucks for \$38,253 each
- \* Diagnostic software for equipment - \$9,904
- \* Prepared purchase requisition for 2022 Western Star 4900 single axle cab and chassis for delivery late 2021 and outfit by Concord Equipment in 2022
- \* Prepared purchase requisition for 2022 Western Star 49X tandem axle cab and for delivery in early 2022 and outfit by Kalida Equipment in 2022. This will be the first tandem axle dump truck in our fleet.

### Deletions included:

- \* 1994 DuraPatcher - \$1,000, to Virginia Township
- \* 2004 GMC Envoy - \$1,000, to Village of Warsaw
- \* 2007 GMC 4x4 Pickup Truck - \$4,000, to Coshocton County Fair-board
- \* 2010 Jeep Grand Cherokee - \$10,400, Govdeals
- \* 1991 Case 650 Bulldozer - \$24,750, GovDeals
- \* 2007 GMC C8500 Topkick - \$4,945, GovDeals



## ACCESS MANAGEMENT

In spite of an entire year of the COVID public health crisis, we issued a total of 233 permits of all types. This was a record for most permits issued in a year.

Our access management program applies to all driveway activity on all county and township roads in Coshocton County. Access permits issued totaled 152. These permits consisted of 38 Minimum Volume (MinV) driveway, 9 Temporary MinV driveways, 89 Very Low Volume (VLV) driveways, 1 Medium Volume (MV) driveways, and 15 Large Volume (LV) driveways. These amounted to \$6,185 in fees. In addition, we dealt with one access management variance request which was ultimately approved by the Board of Appeals for the Smart Growth Transportation Policy.

We received a total of 58 Right-of-Way permits in 2021, which generated \$906 in fees. Many of our utilities are on our prepaid permit fee deposit program. This saves them the corporate hassle of requesting a \$10 check each time they need a permit. In addition to issuing right-of-way permits for activity on all county roads, we also provide utility permitting service for 6 of our 22 townships.

County Engineer's Office employees field review all property splits received by the Coshocton County Regional Planning Commission. All property splits for 2021 were approved, although a few needed to be re-designed to comply with our regulations.

We continue to deal with logging operators who are not familiar with our county logging policies.

Also, several driveway issues were addressed by this office because of bad installations and/or run-off problems. Contact was made with the appropriate land owner and corrective action was taken to remedy the situation.

O.U.P.S. tickets were reviewed on a daily basis. Contact was established with the person or business that requested the O.U.P.S. Ticket. If required, a site visit was made and /or inspections were conducted at the job site. The review of the O.U.P.S. tickets resulted in corrective work in some locations, and permit applications in others. Not all O.U.P.S. tickets required action from this office.

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## COSHOCTON COUNTY REGIONAL PLANNING COMMISSION

The County Engineer's Office continues to be contracted to serve as the Director /Administrator for the Coshocton County Regional Planning Commission. A lot of time is spent answering questions from property owners, realtors, developers, and surveyors with regard to splitting property. All fees are processed through our office and any necessary field reviews or inspections are performed by County Engineer's Office personnel. The contract agreement has the County Commissioners paying the Engineer's Office \$1,000 per month and the County Engineer's Office and the County Health Department each receiving \$50 of the CCRPC split fees for every new property shape created. In 2021 we processed 134 applications that created 369 parcels (property shapes). There were 14 private road sub divisions approved, one major subdivision re-plat, and one private road subdivision re-plat vacating the private road. The majority being in the northeast portion of the county. All 22 of our townships had at least one lot split application.

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## COSHOCTON COUNTY UTILITIES DEPARTMENT

We completed the transfer of the entire Pearl Valley / Fresno Sanitary Sewer System from the County to the Village of West Lafayette in 2021. For now, the County owns no public water nor wastewater infrastructure.

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## SAFETY ISSUES

Our 2021 safety report included 1 lost time accident and 2 medical- only claims. The lost time accident was a slip and fall at a winter construction site. All and all, still a good safety year. Our safety goal is to "send all of our employees home everyday with all of the fingers and toes they came to work with."

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## MAJOR ROAD IMPROVEMENTS

Our 2021 resurfacing program consisted of a combination of MVG funding, and Ohio Public Works Commission (OPWC) grants.

We administered all aspects of the OPWC Round 35 resurfacing projects. County Engineer's personnel administered the contracts and provided the construction inspection. Entities that were participants in these projects included the Coshocton County Engineer; the City of Coshocton; the Village of West Lafayette; the Townships of Franklin, Tuscarawas, Washington, and White Eyes. By collaborating and sharing services with various other governmental entities we are able to provide a better, more economical project for all involved.

County roads resurfaced in 2021 were:

- Airport Road, asphalt, CR 621 to US 36, 0.19 miles, Tuscarawas Township, \$43,108
- CR 1A, asphalt, US 36 to KIA Bridge, 0.47 miles, Tuscarawas Township, \$84,221
- CR 495, asphalt, US 36 to Corp Limit, 0.50 miles, Jackson Township, \$54,269
- CR 271, asphalt, Corp Limit to RR tracks, 1.38 miles, Tuscarawas Township, \$166,334
- CR 496, asphalt, CR 1A to Dead End, 0.20, Tuscarawas Township, \$15,618
- CR 3, motorpave, CR 70 to CR 383, 1.62 miles, Pike Township, \$149,172
- CR 19, motorpave, TR 312 to SR 60, 3.57 miles, Clark Township, \$292,522
- CR 275, single seal, CR 271 to SR 83, 0.69 miles, Franklin Township, \$12,608
- CR 274, Single Seal, Dam Inlet to Bridge, 1.85 miles, Franklin Township, \$27,249
- CR 497, Single Seal, CR 274 to County Line, 0.39 miles, Franklin Township, \$6,458
- CR 143, Single Seal/Fog Seal, US 36 to Dead End, 0.58 miles, Oxford Township, \$10,760
- CR 405, Single Seal, CR 25 to SR 83, 1.16 miles, Keene & Bethlehem Townships, \$18,415
- CR 17, Single Seal, SR 541 to SR 60, 4.41 miles, Bedford & Jackson Townships, \$67,344
- CR 18, Single Seal, SR 79 to CR 367 and SR 60 to CR 3, 3.36 miles, Washington, Bedford, & Perry Townships, \$49,960
- CR 27, Single Seal, US 36 to US 36, 3.71 miles, Bethlehem Township, \$50,751
- CR 33, Single Seal, CR 49 to CR 319, 0.99 miles, Clark & Monroe Townships, \$14,559
- CR 25, Single Seal, 29754 to CR 343, 0.69 miles, Clark Township, \$10,481
- CR 20, Single Seal/FDR, SR 715 to SR 206, 6.04 miles, Tiverton & Newcastle Townships, \$87,666
- CR 132, FDR, TR 130 to County Line, 1.21 miles, Monroe and Tiverton Townships, \$20,799.39
- CR 115, Single Seal, US 36 to Dead End, 0.99 miles, Lafayette & Tuscarawas Townships, \$14,009
- CR 116, Single Seal, TR 130 to County Line, 1.21 miles, Monroe Township, \$5,459

## DRAINAGE IMPROVEMENTS & CULVERT REPLACEMENTS

County crews completed 33 different installations on our County road system in 2021 at a total cost of \$285,600. These installations ranged in size from 15" up to 60" diameter plastic pipe and one 5' by 8' by 32' long concrete box culvert. The installations were in 10 different townships with the most installations, 18, being in Clark Township. Most of the installations were done in preparation for paving work done later in the year.



County crews also replaced one culvert for Clark Township in conjunction with the CLK TR 25 B1 bridge replacement project.

County crews have continued cleaning culverts and road-side ditches to maintain the integrity of our drainage systems and protect the traveling public.



**CURRENT CONDITION RATINGS OF OUR 350 MILES OF ROAD:**

	Excellent	Good	Fair	Poor	Critical
'21	39	244	54	13	0
'20	41	232	64	13	0
'19	30	231	75	14	0
'18	23	228	86	13	0
'17	36	216	82	16	0
'16	47	202	92	10	0
'15	37	185	106	24	0
'14	31	206	89	24	0
'13	39	215	80	18	0
'12	58	175	93	26	0
'11	56	172	88	36	0
'10	51	167	99	35	0

**AMISH STEERING COMMITTEE**

The following table shows the amount contributed and the amount of expenditures the County Engineer has spent on contract repairs on roads frequently used by animal drawn vehicles:

We continue to meet regularly with the Northeast Coshocton County Infrastructure Connection (NECCIC) to discuss the state of businesses and infrastructure in the northeastern part of our county. The committee consists of a combination of business owners, both Amish and "English," and local government officials. Needs, wants, and how to pay for improvements are all on the table.

YEAR	CONTRIBUTION	CONTRACT EXPENDITURE
2011	\$8,541	\$32,000
2012	\$8,246	\$22,936
2013	\$9,145	\$21,214
2014	\$10,008	\$29,154
2015	\$9,586	\$791,195
2016	\$23,204	\$628,724
2017	\$23,204	\$242,188
2018	\$26,454	\$0
2019	\$28,185	\$104,821
2020	\$27,677	\$186,775
2021	\$30,201	\$380,166

**WINTER 2020-2021 SNOW PATROL**

Statistics for road treatment for the winter of 2020-2021: We responded to 28 events; We worked 1321 hours of regular time and 1033 hours of overtime; We drove 32,540 miles; We used 1446 tons of salt, 1487 tons of salt/cinder mix, and 247 tons of cinders for a total material cost of \$147,612. The total cost to Coshocton County for last winter's snow patrol was just over \$470,000. For comparison, the winter of 19-20 cost just over \$115,000.



**COMMUNITY EMERGENCIES**

Weather calamities in 2021 were fairly mild. I guess dealing with a public health emergency pandemic is enough of an emergency for one year.

## BRIDGE CONSTRUCTION

In 2021, we were able to replace three bridges utilizing grants and local funds. These projects were:



Twp Road 25, Bridge 1 - a galvanized steel, timber deck bridge at a cost of \$148,653 which will have \$85,000 of the cost reimbursed through the Muskingum Watershed Conservancy District's Partners in Watershed Management Program.; Crawford Twp. Road 232, Bridge 1 - a four-sided concrete box at a cost of \$92,271 contracted through McConnell Contracting; Crawford Twp. Road 236, Bridge 3 - a four-sided concrete box at a cost of \$111,644 force account project.

In addition, County forces made major repairs to two other bridges: County Road 99, Bridge 2, Newcastle Twp. - abutment repair at a cost of \$13,827; Adams Twp. Road 1261 Bridge 4 - replaced 3 beams, bridge deck, and guardrail at a cost of \$49,732, contracted through McConnell Contracting.

**Based upon ODOT's sufficiency ratings, the breakdown at year's end is as follows:**

	'21	'20	'19	'18	'17	'16	'15	'14	'13	'12	'11	'10	'09	'08
Bridges	269	269	270	270	270	267	271	273	276	277	284	288	288	289
Excellent	100	106	102	102	106	125	124	123	108	105	103	98	95	91
Good	142	135	132	140	137	118	122	116	95	90	91	91	91	93
Fair	16	17	19	19	17	20	18	24	59	49	52	65	69	73
Poor	9	9	15	8	9	4	7	10	14	29	38	34	33	32
Critical	2	2	2	1	1	0	0	0	0	0	0	0	0	0
% Posted	7.4	7.4	10.0	9.3	10.0	11.2	14.0	13.5	16.3	17.0	20.1	22.2	21.1	22.4

**The General Appraisal Summary of our bridges is as follows:**

	GA9	GA8	GA7	GA6	GA5	GA4	GA3	GA2
'21	5	19	81	84	47	28	5	0
'20	7	23	77	94	45	21	2	0
'19	7	30	69	88	47	24	4	1
'18	11	30	66	89	49	20	5	0
'17	13	30	64	91	46	19	7	0
'16	9	31	69	82	48	23	5	0
'15	9	27	94	56	57	22	7	0
'14	7	25	95	62	56	20	8	0
'13	3	20	93	68	57	26	9	0
'12	2	17	96	68	54	27	13	0
'11	0	14	95	70	60	34	11	0
'10	0	11	100	65	64	37	11	0
'09	0	13	94	69	67	39	6	0
'08	0	17	87	70	75	34	6	0

## PENDING ROAD PROJECTS

Our 2022 resurfacing program will be funded through a combination of County Engineer's Office funds and a pending OPWC grant. No general fund monies are allocated to the County Engineer's Office. The planned projects, providing funding is available, include:

- CR 24, asphalt, CR 28 to TR 45, 1.47 miles, Bethlehem Twp., \$192,680
- CR 24, motorpave, TR 45 to SR 60, 2.23 miles, Bethlehem Twp., \$247,875
- CR 10, asphalt, CR 425 to CR 171, 3.02 miles, White Eyes Twp., \$408,444
- Otsego Ave, asphalt, SR 83 to RR tracks, 0.92 miles, Tuscarawas Twp., \$141,375
- CR 318, asphalt, SR 60 to Dead End, 0.66 miles, Clark Twp., \$66,549
- CR 501, asphalt, SR 541 to SR 541, 0.62 miles, Jackson Twp., \$88,110
- CR 343, motorpave, TR 312 to CR 19, 1.78 miles, Clark Twp., \$163,573
- CR 319, FDR/CS, CR 49 to CR 33, 0.76 miles, Clark & Monroe Twps., \$34,420
- Double chip seal surface treatment
  - ◊ CR 33, CR 19 to CR 319, 3.28 miles, Monroe Twp., \$140,074
  - ◊ CR 80, CR 3 to SR 79, 1.45 miles, Perry & Pike Twps., \$51,809
  - ◊ CR 18, CR 367 to SR 541, 2.71 miles, Perry Twp., \$103,343
  - ◊ CR 3, SR 60 to SR 541, 3.05 miles, Bedford Twp., \$123,376
- Single chip seal surface treatment
  - ◊ CR 20, FDR Locations, 1.53 miles, Tiverton Twp., \$30,141
  - ◊ CR 132, TR 130 to County Line, 1.09 miles, Lafayette Twps., \$24,030
- Various County Roads, drag spot pave, in various townships.

## PENDING BRIDGE PROJECTS

Bridge projects planned for construction in 2022, provided funds are available, include:

- Township Road 383, Bridge 2, (MVG-Repair) Perry Township (abutment)
- Township Road 21, Bridge 6, (OPWC 20) in Millcreek Township (box culvert)
- Township Road 242, Bridge 3, (OPWC 20) in Adams Township (box culvert)
- County Road 6, Bridge 10, (OPWC 20) in Virginia Township (box beam)
- Township Road 176, Bridge 5, (OPWC 21) in Adams Township (box beam)
- Township Road 221, Bridge 1, (OPWC 21) in Millcreek Township (box culvert)
- Township Road 173, Bridge 1, (OPWC 21) White Eyes Township (box beam)

Realistically, not all of this work will be completed in 2022. However, these are the projects that we have currently on our list.

In addition, our crews will be performing various maintenance activities on our inventory of 269 bridges. This includes re-decking, channel work, signage, water-proofing, and any emergency work as needed. We will also be looking for more potential bridge to culvert conversions.

We were granted LBR funding to replace the CR 365 bridge over the Mohican River in Cavallo (Tiverton Twp.). This is scheduled for construction in Fiscal Year 2025. We are beginning the process to meet all the milestones associated with a Federally Funded bridge replacement project. E. P. Ferris and Associates has been hired to design the replacement structure.



## GIS / TAX MAP

Our GIS / Tax Map Office is staffed by two people, Jona Lee Mikesell, who handles our survey and deed reviews and Jessica Goodsell, who handles our mapping and GIS system. I provide professional support and guidance to help these two with the many challenges they face dealing with all aspects of land records in our county.

### Deed and survey review for the last four years were:

Year	Documents of Transfer	Surveys	Platted Subdivisions	Description Checks
2021	1687	193	12	58
2020	1387	197	12	68
2019	1581	219	8	89
2018	1259	168	10	128

### GIS parcel maintenance activities were:

Year	Parcels Transferred	Parcels Split	Parcels Combined	Parcels Resurveyed	CAUV Calculations
2021	2673	140	82	56	0
2020	2359	139	81	55	286
2019	2084	179	102	96	338
2018	1964	102	53	55	247

Included in the Parcels Transferred were 8 parcels that transferred 4 times and 2 parcels that transferred five times.

In 2021, we did not do any CAUV Calculations for the County Auditor. Instead, Jessica created a GIS script for the Auditor to use so they could perform the acreage calculations themselves. Rather than giving them a fish, we taught them how to fish.

We assigned 92 new addresses in 2021 compared to 105 in 2020.

We continue to provide GIS support for many government offices in our county.

## FLOODPLAIN ADMINISTRATION

The County Engineer's Office serves as the Floodplain Administrator for the Coshocton County Commissioners, the City of Coshocton, and the Village of Warsaw.

Floodplain permits issued in 2021 included 10 blanket utility permits and 13 project specific permits.

We continue to answer inquiries from property owners, and potential property owners, with regard to floodplain development conditions and limitations.

**WE'RE ON THE WEB!**

[www.coshoctoncounty.net](http://www.coshoctoncounty.net)