



2021 CLINTON COUNTY ENGINEER'S ANNUAL REPORT

MARCH 31, 2022

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Jeffrey B. Linkous, P.E., P.S.
County Engineer

I am pleased to present you with our 2021 Annual Report. Each year the County Engineer must provide an annual report to the County Commissioners that shows the status of all our roads, bridges and culverts in Clinton County.

The last two years brought many challenges to our nation and to our county. In 2021, we were able to resume a more normal schedule and complete many of our planned projects and catch up on annual maintenance of roads and bridges, as well. All the while, taking great effort to keep our employees and constituents safe. Thanks again to the employees of the Engineers Office and the Highway Department who continued to provide the same level of service in a timely and effective manner despite the challenges.

During 2021, construction or rehabilitation of major structures, including bridges and culverts, totaled \$1,486,888 which included a new prestressed box beam bridge top, a concrete box culvert and the full replacement of the Westboro Road Bridge. The Westboro project was funded using 95% Federal Bridge money and a 5% match from the Ohio Public Works Commission (OPWC). Funding for beams on the Center Road project was obtained using a grant from OPWC. Other replacements were designed in-house and constructed with our forces. The annual bridge inspections of all of our bridges were completed in the fall of 2021. A separate bridge report has been submitted to the Board of County Commissioners. Our current strategy of doing more preventive repair and maintenance

continues. Several bridges have had the wearing surface removed and new waterproofing added before adding a new wearing surface. On many of our prestressed box beam bridges, we are cleaning and recoating the outside beams to prevent salt and water from wearing the exposed portion of the beam faster.

In 2022, work will begin on the Canada Road Bridge which was bid at a price of \$321,582. An OPWC grant will fund 48% of the total cost. We have one other bridge that we plan to rehab in 2022 by removing the prestressed box beams that are deteriorating and replace them with new beams. Ten more bridges will receive new waterproofing systems this summer, which will hopefully extend the life of each bridge another 15-20 years. Maintenance items are also receiving attention where we are fixing guardrail, adding stream protection, fixing approaches, relining existing culverts, and continuing to paint exposed beams with protective coatings. All of our 1000+ culverts/pipes will be inspected in 2022 and based on findings, we will be replacing several culverts/pipes.

Every spring, we travel all of our county roads and determine a pavement condition rating (PCR) for each section of road. These ratings are used to determine which roads will be priority for resurfacing each year. Our goal is for roads to be on a 5-7-year cycle for resurfacing. Thanks to increased funding, we were able to add a paving program this year and resurfaced 50 miles of our 262 miles of roads. We were able to seal portions of 23 different roads totaling over 40 miles at a cost of \$517,211. The average cost per mile for this program was \$12,203. We put an additional coat of fog seal on 6 miles of those roads at a cost \$3,108 per mile. We also paved 9.6 miles of road at a cost of \$512,252. With this aggressive program, we hope to bring our average PCR up to an acceptable level. Our plan is to prolong the life of the road with an aggressive repair program, which includes chip sealing, crack sealing, patching and repair.

In 2021, we received \$775,000 in safety money for a Guardrail Upgrade Project and two Pavement Marking Projects. In 2022, we will continue our pro-

gram of hazard elimination by improving just under a mile of Antioch Road, south of SR 73, by softening a curve and eliminating a hill. In addition to the Antioch project, the intersection of Jonesboro Rd. at Oak Grove Rd will be improved this year by lowering a hill to increase sight distance and increase safety at the intersection. Funding has been obtained for six more safety projects scheduled in 2023-2027, as well as several grants for guardrail and pavement marking. The safety of the traveling public is important to us and we are always looking for any opportunity to improve our highway system.

A summary of all maintenance and construction costs for 2021 has been included in this report for your review.

Last season's winter storms (December of 2020-April 2021) were a little higher than normal. We spent more than 3230 hours on the road driving 75,600 miles and used about 4889 tons of salt and grit. Our total cost for snow and ice removal was \$639,736 (compared to \$127,556 the year before). The extra cost cut into our budget, but we were still able to get all of our projects scheduled for 2021 either completed or bid.

Our revenues each year are derived from two main sources - Fuel Tax and License Plate Renewal. We were fortunate to have the additional revenue from the fuel tax that was added in 2019 because vehicle traffic was reduced as much as 10% from previous years. Without this increase, we would not have been able to keep up with rising material and construction costs. The additional money allowed us to make it through two very challenging years. We look forward to 2022, and will continue to meet the challenges that it may bring.

Thank you for the opportunity to share this annual report. We hope you find it informative. If you have any questions, please feel free to contact my office at 937-382-2078 or visit us on the web for current information at www.clintoncountyengineer.org.

Respectfully submitted

2021 TAX MAP SUMMARY

Total Parcel Transfers	1917
Parcel Pre-approvals	1442
Existing parcels checked	1358
Survey plats filed	159
Total Property Splits & Resurveys	
Minor Splits < 20 ac.	40
Over 20 acres	16
Resurveys	74
Exempt	30
Combinations	22
Total Parcels Reviewed (include replat)	182
Annexations reviewed	1
Major Subdivisions	
Recorded	9
Road Right-of-Way Plans	1
Total Pay-in—General	
	\$ 248.00

SNOW & ICE REMOVAL

Regular Hours	1,372 hrs.
Overtime Hours	1,962 hrs.
Grit (small stone)	1,258 ton
Salt	3,631 ton
Miles Driven	75,600 miles
Fuel Used	18,900 gals.
TOTAL COST:	\$639,736
	(11/30/20— 2/18/21)
	(28 days)

2021 PERMITS & REVIEWS

Utility Permits Granted	117
House Numbers Assigned	31
Access Permits Issued	56
Crash Reports Reviewed	1157
Hauling/Overload Permits	101

MISC. MAINTENANCE

Trash Pickup	\$44,034
	(Started 3/5/21—4/5/21)

Water-Based Pavement Marking:	
Centerline (30.06 mi)	\$ 22,996
Edgeline (43.14 mi)	\$ 23,727
Mobilization & Traffic	\$ 3,345
TOTAL:	\$50,068

Facts & Figures

2021 REVENUE

Motor Vehicle Tax (State)	\$ 1,496,581.36
Gas Tax	\$ 3,739,694.30
Reimbursements	\$ 528,359.48
Interest Income	\$ 47,047.90
Fines	\$ 92,317.40
Miscellaneous	\$ 29,850.22
Permissive Tax	\$ 80,057.63

TOTAL: \$ 6,013,908.29

2021 EXPENDITURES

Personnel— Wages	\$ 1,708,972.79
Personnel—Fringe Benefits	\$ 748,482.79
Admin (non-personnel)	\$ 83,281.93
Road Expenditures	\$ 2,015,329.10
Bridge/Culvert Expenditures	\$ 224,880.96
Capital Expenditures	\$ 357,812.05
Buildings & Grounds	\$ 27,377.70

TOTAL: \$ 5,166,137.32

BUILDING BRIDGES TO OUR FUTURE

2021 Bridge Replacements and Major Culverts

Road	Bridge #	Type of Bridge	Cost
Westboro	6-4.86	Slab	\$ 1,231,633*
Hornbeam	229-1.75	Concrete Box Culvert	\$ 69,298
Center	16-2.59	Prestressed Box Beam	\$ 150,529
Ogden	50-0.007	RCP	\$ 35,428

*95% Federal Funds/5% OPWC Funds

TOTAL: \$1,486,888



Westboro Bridge Replacement

Work was completed on the CLI-CR-6-4.86 Westboro Rd Bridge Replacement project on August 9th, 2021 and the bridge was opened to traffic after a ribbon-cutting ceremony. The Eagle Bridge Company removed the old structure and constructed a new cast-in-place concrete slab bridge, abutments, and piers at a total cost of \$1,231,633. The photo on the left shows the bridge deck being poured in the early hours of June 16th. Reportedly, this is the third bridge to be built at this location since a covered bridge was burned here by Morgan's Raiders during the Civil War.

2022 Proposed Bridge Repair & Replacement

Road	Bridge #	Type of Bridge	Cost	Est.
Canada	47-4.45	Prestressed Concrete Box Beams	\$ 321,582*	
Gallimore	22-3.41	Prestressed Concrete Box Beams	\$ 73,500	
Starbuck	11-4.15	Precast Box Culvert	\$ 85,000	

TOTAL: \$480,082

*48% Funded with OPWC grant



Fred Wachtel (CEAO President), Jeff Linkous (County Engineer), Adam Fricke (Deputy Engineer), Dean Ringle (CEAO Director)

COUNTY ENGINEERS ASSOCIATION OF OHIO PRESENTS EMPLOYEE OF THE YEAR AWARD

The County Engineers Association of Ohio (CEAO) presented state recognition awards during its annual business meeting held December 9, 2021 to Ohio County Engineers and their staff.

Clinton County was honored to have the CEO County Engineer Employee of the Year Award presented to Adam Fricke. This award is given to an employee of an Ohio County Engineer's Office to recognize their exceptional effort and outstanding performance for the citizens of their county and the contribution to the Association.

Adam is a 2002 graduate of the University of Cincinnati and is both a registered professional engineer and a registered professional surveyor. He has been with the Clinton County Engineer's Office since 2005, and became the Chief Deputy Engineer in 2009.

Grant Dollars Save County Dollars

Federal Money Received for Projects in 2021

CLI-VAR-Guardrail FY21 PID103691	\$ 280,033
CLI-VAR Pavement Marking PID 103692	\$ 266,697
CLI-VAR Pavement Marking PID 109811	\$ 229,260
CLI-CR6-4.86 Westboro Bridge PID 109966	\$ 1,077,468

State Money Received for Projects in 2021

CLI-SR-73-14.64 Antioch Turn Lane PID 109364	\$ 32,296
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OPWC Money Received for Projects in 2021

CLI-CR6-4.86 Westboro Bridge DJX14	\$ 59,898
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TOTAL GRANT MONEY RECEIVED IN 2021: \$1,945,652

2021 Resurfacing

Road Name	Length	Description	Width	Cost
N Beechgrove	0.398	Single Seal	20.5	\$ 4,911
S Beechgrove	2.465	Single Seal	20	\$ 29,564
S Beechgrove	2.465	Fog Seal	20	\$ 7,312
Bernard	3.579	Single Seal	19	\$ 41,235
Brown	2.641	Single Seal	19.5	\$ 32,577
County Home	0.230	Single Seal	16	\$ 6,886
Creek	2.473	Single Seal	19.	\$ 32,744
Crouse	1.578	Single Seal	21	\$ 22,681
Dakins Chapel	2.556	Single Seal	19.5	\$ 32,725
W Dalton	1.744	Single Seal	19.5	\$ 21,260
Fairground Roads	1.080	Single Seal	16	\$ 12,748
Fayetteville	2.719	448 Asphalt	21	\$143,868
Gano	0.185	448 Asphalt	21.5	\$ 9,789
Gano	2.909	Single Seal	18.5	\$ 34,464
Hamilton	1.914	Single Seal	17	\$ 20,846
Larrick	2.359	Single Seal	19	\$ 28,718
Moore	0.914	Single Seal	18	\$ 10,427
New Oglesbee	1.473	Single Seal	18	\$ 17,726
Ogden	1.743	Fog Seal	21	\$ 6,548
Ogden	1.743	Single Seal	21	\$ 22,950
Orchard	1.210	Fog Seal	20	\$ 3,542
Orchard	1.210	Single Seal	20	\$ 14,663
Osborn	1.792	Single Seal	19.5	\$ 20,591
Short	0.403	Single Seal	13	\$ 3,284
Snowhill	1.400	Fog Seal	19.7	\$ 4,105
Snowhill	1.400	Single Seal	19.7	\$ 16,829
Sprague	0.823	Single Seal	15.5	\$ 8,510
Townsend	2.834	Single Seal	18.5	\$ 33,950
Turner	1.444	Single Seal	19	\$ 17,419
Valley St	0.544	Fog Seal	18	\$ 1,380
Valley St.	0.544	Single Seal	18	\$ 6,616
Westboro	3.400	448 Asphalt	20	\$179,901
Wilson	3.377	448 Asphalt	21.5	\$178,694
TOTALS:				\$1,029,463

Avg. Cost of Single Seal Per Mile—\$12,203.72 (includes cost of stone)

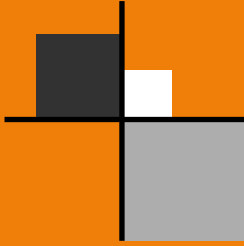
Avg. Cost for Fog Seal Per Mile—\$ 3,108.80

Avg. Cost for Asphalt Resurfacing Per Mile—\$52,911.63 (includes striping)

FUTURE FEDERAL & OPWC GRANTS APPROVED

FY2021	Sign Upgrade	\$ 9,100
FY2021	CLI-CR-12-7.96 Antioch Road Safety Improvement	\$1,200,000
FY2022	Canada Rd Bridge Rehab (OPWC)	\$ 147,027
FY2022	Jonesboro Rd Sight Improvement (OPWC)	\$ 108,225
FY2022	CLI-CR 10 Clarksville Road Safety Improvement	\$ 743,840
FY2022	Pavement Marking	\$ 150,000
FY2022	Guardrail Replacement	\$ 300,000
FY2023	Guardrail Replacement	\$ 300,000
FY2023	CLI-CR 16-7.97 Center Rd. Safety Improvement	\$1,245,200
FY2024	CLI-CR 12-4.43 Antioch Rd Safety Improvement	\$ 1,171,000
FY2024	Pavement Marking	\$ 150,000
FY2024	Guardrail Replacement	\$ 300,000
FY2025	CLI-CR 7-5.23 Farmers Rd. Safety Improvements	\$ 948,000
FY2025	CLI-CR-VAR-Guardrail	\$ 300,000
FY2025	CLI-TR 256-0.01 Pratt Road Bridge Replacement	\$1,412,033
FY2025	CLI-CR 10-0.41 Clarksville Rd Safety Improvements	\$1,479,800
FY2026	Pavement Marking	\$ 150,000
FY2026	Raised Pavement Marking	\$ 50,000
FY2026	Guardrail Replacement	\$ 300,000
FY2026	CLI-CR3-2.89 Nelson Ave	\$ 869,000

TOTAL FUTURE GRANTS ALREADY APPROVED: \$11,333,225



Clinton County Engineer
1326 Fife Avenue
Wilmington, OH 45177

Phone: (937) 382-2078
Fax: (937) 382-5318



Jeff Linkous and retired County Engineer, Bill Temple, extend best wishes to Melody Long



Vanessa Hall receiving her retirement gift!

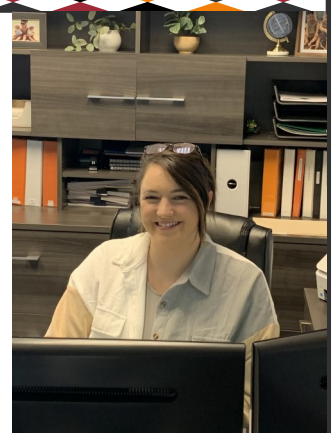
Passing the Baton...

On November 30, 2021, Melody Long and Vanessa Hall retired from the Engineer's Office Team. Melody was the Highway Administrative Assistant for over 25 years and Vanessa was the Tax Map Technician for over 23 years. Both Melody and Vanessa were commended for their commitment to excellence and dedication to the citizens of Clinton County. They will both be missed but we extend best wishes to them on their well-deserved retirement.

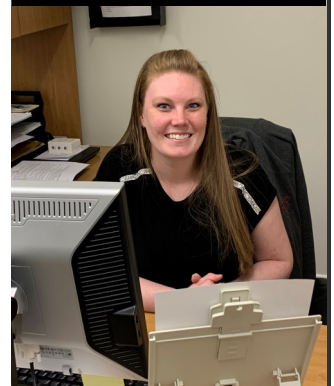
Taking Melody's position is Cassidy Slocum. Cassidy is married to Kyle, and they have three children — a 4-yr. old son, Parker and twin 1 1/2-yr. old daughters, Laney and Maddie. They reside in the Blanchester area.

Taking Vanessa's position is Karina Pollock. Karina is married to Eric, and they have two children — a 7-yr. old son, Eiden and a 1 1/2-yr. old daughter, Willow. They reside in Leesburg.

Please join us in welcoming Cassidy and Karina to our team. We look forward to many years of working together!



Welcome to Cassidy Slocum, Highway Administrative Assistant



Welcome to Karina Pollock, Tax Map Technician

VISIT US ON THE WEB! www.clintoncountyengineer.org



WHAT A CREW!

The highway worker faces have changed a lot over the past few years. Many have retired and new faces have come aboard, so we thought it was fitting to show you the faces of those who work tirelessly to keep your county roads and bridges safe. We appreciate their hard work and commitment! (shown in the picture above, in left-to-right order — back row—Tom Thatcher, Keith Barker, Chris Gunkel, Todd Bailey, Joe Kinder, Steven Bailey, Eric Reiley, Chris Williamson, Chris Hamilton, Patrick Beatty, Brock Allen, Jeff Nichols, Nick Smith (Highway Superintendent) and Bryan Dalton — front row — Dakota Heeg, Deven Gibson, Ron Morris, Andrew Portmann, Andrew Caplinger, Nate Denniston, David Thornburg, Rodney Campbell, Mike Runk and Brian Long. (missing from the picture is Doug Godlove—Building & Groundskeeper)

Teamwork
divides the task
and multiplies
the success.

— Unknown