



2020 CLINTON COUNTY ENGINEER'S ANNUAL REPORT



MARCH 31, 2021

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

I am pleased to present you with our 2020 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.

Although 2020 brought many challenges to our nation and to our county, we persevered. Our responsibilities remained the same and we did our best to keep our employees and citizens safe. Thanks to the employees of the Engineer's Office and the Highway Department, we were able to continue to provide the same level of service in a timely and effective manner.

During 2020, construction or rehabilitation of major structures including bridges and culverts totaled \$498,432. Three bridges that had deteriorated had concrete beams replaced with new prestressed concrete box beams. Funding for the beams was obtained using a grant from the Ohio Public Works Commission, and our own crews were able to do most of the labor. Other replacements were designed in-house and also constructed with our forces. The annual bridge inspections of all of our bridges were completed in the fall of 2020. A separate bridge report has been submitted to the Board of County Commissioners. Our current strategy to do more preventive repair and maintenance is continuing. We have several bridges which have had the wearing surface removed and added new waterproofing 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 damaging the exposed portion of the beam.

Early in 2021, work began on the Westboro Road Bridge which was bid in 2020 at a price of \$1,229,000. It is a full replacement using 95% Federal Bridge money and a 5% match from OPWC. Two more bridges are scheduled for rehab in 2021, removing the prestressed box beams that are deteriorating and replacing them with new beams. Funding for the beams comes from a grant from OPWC while our highway forces will do the construction. Eight 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—fixing guardrail, adding stream protection, fixing approaches, and relining existing culverts. We also will be replacing several culverts/pipes that are on a 5-year schedule from our inventory of over 1100 culverts/pipes.

Every spring, we travel all of county roads and determine a Pavement Condition Rating (PCR) for each section of road. Based on these ratings, we determine which roads will be priority for resurfacing each year. Our goal is for our roads to be on a 5-7 year cycle for resurfacing. Thanks to increased funding, we were able to add a paving program and increase the number of miles of road that are resurfaced to over 50 miles of our 262 miles. In 2020, we were able to seal portions of 18 different roads totaling over 43 miles at a cost of \$589,717. The average cost per mile for this program was \$13,703. In addition, 8.4 miles of road were paved at a cost of \$502,150. With this aggressive program, we hope to bring our average condition rating up to an acceptable level. We will also continue to prolong the life of roads with an aggressive repair program, which includes chip sealing, crack sealing, patching and repair.

In 2020, the county was able to complete a safety improvement at the intersection of Antioch Road and SR73. In cooperation with ODOT, a safety grant was received to cover the total cost of

project which was \$483,194. Our office designed, bid and inspected the project which added a turning lane on SR 73. In addition to this grant, the county also received another \$450,000 in safety money for a guardrail upgrade project and pavement marking project.

In 2021, our safety program will include a hazard elimination on Antioch Road, south of SR73. Funding has also been obtained for six more safety projects scheduled in 2022-2026, 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 2020 has been included in this report for your review.

This winter already has surpassed last year in time and cost. Last season's winter storms (December of 2019-April 2020) were mild in comparison. We spent more than 700 hours on the road driving 21,600 miles and used only 1050 tons of salt and grit. Our total cost for snow and ice removal was \$127,556 which is less than half of a normal year. That savings allowed us to put more money towards our roads and bridges in 2020.

Our revenues each year are derived from two main sources: Gas Tax and License Fees. In 2020, we saw vehicle travel reduced as much as 20%. However, we were fortunate that in 2019 the state legislature passed legislation that included an additional gas tax. Without this increase, we would not have been able to keep up with rising material costs. That additional money enabled us to make it thru a very challenging year. We look forward to 2021, 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

2020 TAX MAP SUMMARY

Total Parcel Transfers	1604
Parcel Pre-approvals	1251
Existing parcels checked	1156
Survey plats filed	151
Total Property Splits & Resurveys	
Minor Splits < 20 ac.	29
Over 20 acres	13
Resurveys	59
Exempt	20
Combinations	16
Total Parcels Reviewed	
(include replat)	173
Annexations reviewed	0
Major Subdivisions	
Recorded	3
Road Right-of-Way Plans	5
Total Pay-in—General	
	\$644.25

SNOW & ICE REMOVAL

Regular Hours	498 hrs.
Overtime Hours	295 hrs.
Grit (small stone)	317 ton
Salt	734 ton
Miles Driven	21,600 miles
Fuel Used	5,400 gals.
TOTAL COST:	\$127,556
	(11/12/19— 2/28/20)

2020 PERMITS & REVIEWS

Utility Permits Granted	77
House Numbers Assigned	60
Access Permits Issued	81
Crash Reports Reviewed	1061
Hauling/Overload Permits	82

MISC. MAINTENANCE

Trash Pickup	\$3,028.35
	(Started 3/6/20—stopped due to Covid)

Water-Based Pavement Marking:

Centerline (43.413 mi)	\$ 18,884.66
Edgeline (68.918mi)	\$ 25,430.74

Facts & Figures

2020 REVENUE

Motor Vehicle Tax (State)	\$ 1,349,207.00
Gas Tax	\$ 3,614,207.26
Reimbursements	\$ 301,923.29
Interest Income	\$ 55,654.33
Fines	\$ 70,083.29
Miscellaneous	\$ 58,654.81
Permissive Tax	\$ 74,868.16

TOTAL: \$ 5,524,598.14

2020 EXPENDITURES

Personnel— Wages	\$ 1,566,817.49
Personnel—Fringe Benefits	\$ 693,657.81
Admin (non-personnel)	\$ 94,131.51
Road Expenditures	\$ 2,117,288.90
Bridge/Culvert Expenditures	\$ 159,556.26
Capital Expenditures	\$ 252,217.89
Buildings & Grounds	\$ 56,556.22
Cares Act Reimbursement	\$ - 41,653.19

TOTAL: \$ 4,898,572.89

BUILDING BRIDGES TO OUR FUTURE

2020 Bridge Replacements and Major Culverts

Road	Bridge #	Type of Bridge	Cost
Nelson	3-2.53	Concrete Box Culvert	\$ 89,935
Derivan	64-0.29	Concrete Box Culvert	\$ 77,181
Old State	112-0.87	Precast Concrete Box Beam Replacement	\$ 129,473**
Mitchell	202-2.07	Precast Concrete Box Beam Replacement	\$ 120,320**
Hales Branch	49-1.54	Precast Concrete Box Beam Replacement	\$ 81,522**

**Rehab—50% Costs covered by OPWC

TOTAL: \$ 498,432



Westboro Bridge Replacement

Work is well underway on the CLI-CR-6-4.86 Westboro Rd. Bridge Replacement project. Eagle Bridge Co. has removed the old structure and is in the process of constructing the new concrete abutments and piers.

This project is scheduled to be completed and opened to traffic by July 15, 2021.

2021 Proposed Bridge Repair & Replacement

Road	Bridge #	Type of Bridge	Cost Est.
Westboro	6-4.86	3-Span Concrete Slab	\$1,229,000*
Canada	47-4.45	Prestressed Concrete Box Beams	\$ 297,028**
Center	16-2.59	Prestressed Concrete Box Beams	\$ 80,000
Hornbeam	229-1.75	Concrete Box Culvert	\$ 75,000

TOTAL: \$1,681,028

*Funded with Federal and OPWC grants

**Funded with OPWC grants



Adam Fricke
Deputy Engineer

During the 2021 summer construction season, the Engineer's Office is planning approximately \$5.3m worth of improvements to the public roadways in Clinton County, marking the largest construction season to date for the County. Much of this work is being funded with the additional

monies generated by the 2019 increase in the motor fuel tax, while a substantial portion of the projects undertaken by the Office is still funded by federal and OPWC grants. In 2020, several projects worth about \$1.8m were delayed for various reasons, including COVID-19, and are now scheduled to be built in 2021. Plans are to award contracts or utilize Highway Department crews to construct safety improvements, bridge repairs, and roadway work totaling an additional \$3.5m this year.

In addition to the work being contracted directly by the Engineer's Office, there are several private development projects being proposed which will require plan approvals and/or inspections by the Engineer's Office. The two major subdivisions already submitted for review marked the first proposed residential developments to be reviewed and inspected since 2005 and will create 72 new residential building lots in the county. The Engineer's Office has also recently reviewed several site plans for new commercial buildings or building additions scheduled for construction in 2021 - also marking an increase from the normal level of activity. At least one of these proposed developments will include roadway improvements at the proposed commercial facility.

Grant Dollars Save County Dollars

Federal Money Received for Projects in 2020

CSTP Safety Study—Sign Software PID 108474	\$ 2,250.00
CLI-VAR-Guardrail PID103690	\$ 297,395.03
CLI-CR12-0.00 Antioch Rd PID 103910	\$ 440,387.38
CLI-SR-73-14.64 Antioch Turn Lane PID 109364	\$ 400,000.00
Westboro Bridge Rehab PID 109966	\$ 48,070.00
No Passing Zone Study PID 110515	\$ 19,530.00
CLI-2020 Sign Upgrade PID 111033	\$ 21,800.00

State Money Received for Projects in 2020

CLI-SR-73-14.64 Antioch Turn Lane PID 109364	\$ 83,194.00
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OPWC Money Received for Projects in 2020

CLI-CR12-0.00 Antioch Rd CJ01W	\$ 110,096.85
Westboro Bridge Rehab DJX14	\$ 2,530.00
Mitchell, Hales Branch, Old State Box Beams -DJW08	\$ 135,000.00

TOTAL GRANT MONEY RECEIVED IN 2020: \$1,560,253.26

2020 Resurfacing

Road Name	Length	Description	Width	Cost
New Burlington	4.289	Fog Seal	21	\$ 9,047.25
New Burlington	4.289	Single Seal	21	\$ 68,538.75
Sabina	2.686	448 Asphalt	19	\$145,037.86
Antioch	2.849	448 Asphalt	22	\$183,029.33
Jonesboro	6.238	Single Seal	19.5	\$ 87,136.00
Gurneyville	2.737	Single Seal	21	\$ 39,571.40
Gurneyville	2.737	Fog Seal	21	\$ 15,033.60
Beechgrove	0.111	448 Asphalt	22	\$ 6,940.13
Texas	0.746	Single Seal	19	\$ 10,663.00
Frazier	3.103	Single Seal	18	\$ 38,769.00
Swartz	0.255	Single Seal	18	\$ 3,598.00
Wise	2.462	Single Seal	20	\$ 35,070.00
Henry	1.753	Single Seal	19	\$ 22,509.00
Regan	2.213	Single Seal	18	\$ 28,180.00
Old SR 73	0.596	Single Seal	21	\$ 9,598.00
Williams	1.543	Fog Seal	20	\$ 7,675.65
Williams	1.543	Single Seal	18.5	\$ 19,267.35
Oak Grove	3.684	Single Seal	19.5	\$ 51,066.00
Hales Branch	3.407	Single Seal	19	\$ 43,795.00
Hale	0.553	448 Asphalt	21	\$ 33,003.97
Ogden	0.833	448 Asphalt	21	\$ 49,716.84
Lewis	0.795	Single Seal	19	\$ 9,451.00
Dalton	0.470	Single Seal	20	\$ 7,184.70
Dalton	0.466	Fog Seal	20	\$ 2,373.30
McKibben	1.906	Single Seal	18.5	\$ 25,187.00
School	0.581	448 Asphalt	19.5	\$ 32,198.27
Macedonia	3.482	Single Seal	19	\$ 45,223.00
Martinsville	3.356	Single Seal	19.5	\$ 44,875.00
Fife Ave	0.799	448 Asphalt	23	\$ 52,227.15
TOTALS:				\$1,125,995.55

Avg. Cost of Single Seal Per Mile—\$13,703.08 (includes cost of stone)

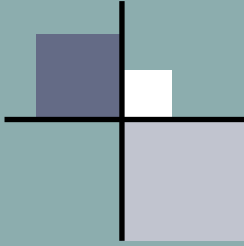
Avg. Cost for Fog Seal Per Mile—\$3,777.51 per mile

Avg. Cost for Asphalt Resurfacing Per Mile—\$59,694.91 per mile

FUTURE FEDERAL GRANTS APPROVED

FY2021	CLI-CR 6-4.86 Westboro Rd. Bridge Rehab	\$1,229,000
FY2021	Guardrail Replacement	\$ 200,000
FY2021	Pavement Marking	\$ 300,000
FY2021	CLI-CR-12-.7.96 Antioch Road Safety Improvement	\$1,200,000
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: \$12,797,873



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VISIT US ON THE WEB! www.clintoncountyengineer.org

Randy Mitchell Retires after 30 Years

Randy Mitchell has retired from the Clinton County Engineer's Highway Department.

Randy joined the Highway Department in September of 1990. During his tenure, he held several positions including Operator and Assistant Superintendent. He was promoted to Clinton County Highway Superintendent in 2002.



Randy's dedication and commitment to excellence has been recognized by the County Commissioners by their resolution of appreciation for all Randy did for the County and it's citizens. Randy served the citizens of Clinton County for 30 years and 4 months.

Nick Smith Promoted to Highway Superintendent



Nick Smith has been named the Clinton County Highway Superintendent.

Nick joined the Highway Department in 1994 as part of the summer college employment program while he attended Wilmington College. He worked on the summer crews every year until he graduated, joining the department full-time in 1999.

Nick has held several positions including Operator, Foreman, Assistant Superintendent, Interim Superintendent and now, his latest promotion, Highway Superintendent.

*"To give real service
you must add
something which
cannot be bought or
measured with
money, and that is
sincerity and
integrity."*

—Douglas Adams