



2023 CLINTON COUNTY ENGINEER'S ANNUAL REPORT

MARCH 29, 2024

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

I am pleased to present the 2023 Annual Report. Each year, the County Engineer must submit an annual report to the County Commissioners detailing the condition of all roads, bridges, and culverts in Clinton County.

Following the completion of our Safe Roads Study in 2022, we committed to keeping it updated over the next five years. In 2023, we held two implementation meetings with stakeholders, focusing on key items from the plan and involving new stakeholders with innovative ideas. We have made progress and aim to continue enhancing road safety in Clinton County over the next three years.

Despite rising material costs affecting our purchasing power, we have managed to stay on track with many projects and catch up on annual road and bridge maintenance. Thanks again to our dedicated employees of the Engineer's Office and Highway Department, we were able to provide a high level of service in a timely and effective manner.

Bridge inspections for all bridges were completed in fall 2023, with a separate report submitted to the County Commissioners. Our yearly inspections target 10-12 bridges, addressing maintenance needs, including preventive repair, and extending their lifespan by 15-20 years. Additionally, we are enhancing the durability of prestressed box beam bridges by cleaning and recoating exposed beams vulnerable to salt and water damage.

In 2023, we bid construction of the bridge on Borum Road. This is a steel truss and was bid as a design-build. The design did determine that a new steel truss will be built as a replacement. Construction will

begin in 2024. This project is being funded at 100%, using money from the new Federal BIL program. Pratt Road bridge is a truss bridge and scheduled to be bid in 2024 at a cost of \$1,287,000 and will be built in 2025 using 95% federal money. Rehabilitation on a Gurneyville Road bridge will be a prestressed box beam replacement and will also begin in 2024. An OPWC grant will fund 48% of the total cost. Included in the 2024 schedule is the repairing and replacing concrete boxes on Hackney, Snow Hill and Brown Roads. 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.

Every spring, we travel all the 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. We would like to see our roads be on a five-to-seven year cycle for resurfacing. Thanks to increased funding, we were again able to pave several roads and do major repair on others that we will resurface in the future. The number of miles of roads resurfaced or repaired this year was 52 miles of our 262 miles. In 2023, we were able to seal portions of 18 different roads totaling over 45 miles at a cost of \$681,746. The average cost per mile for this program was \$14,839. We put an additional coat of fog seal on 14.8 miles of those roads at a cost \$4289 per mile. We also paved 5.734 miles of road at a cost of \$460,591 and major shoulder repair of 5.178 miles at \$292,904. We aim to elevate our average condition rating to an acceptable level through this proactive initiative. Additionally, we will extend the lifespan through an assertive repair strategy, encompassing chip sealing, crack sealing, patching, and overall maintenance.

In 2023, we completed a safety improvement project by enhancing about a half mile of Clarksville Road just south of Beechgrove Road, improving a curve and eliminating a hill. The cost of this improvement was \$961,902 and was funded using 80% Federal Safety Money and 20% OPWC. We received another \$302,000 in safety money for a guardrail upgrade project, \$205,543 for pavement marking and \$13,950 for upgrading safety studies.

In 2024, we will begin a safety improvement project on Center Road that will be funded at a cost of \$1,529,000 using Federal

and OPWC funding. An intersection improvement project at Antioch and Bernard Road will begin in July of 2024. It is being funded with OPWC and local money. We will bid another safety improvement project in 2024 on another section of Antioch Road, which will be constructed in 2025. We have been able to obtain funding for five more safety projects scheduled in 2024-2029 and were fortunate enough to be awarded an ODOT systemic safety grant for \$5 million to do two more safety upgrades on Antioch and Second Creek roads. We also have several grants for guardrail and pavement marking scheduled into 2029. 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 2023 has been included in this report for your review.

Last season's winter storms (December of 2022-April 2023) were a little lower than normal. We spent more than 1300 hours on the road driving 35,100 miles and used only 1300 tons of salt and grit. Our total cost for snow and ice removal was \$198,851 (compared to \$639,736 in 2021). This will allow us to get all of our projects scheduled for 2024 either completed or bid.

Our revenues each year are derived from two main sources: Fuel Tax and License renewal. In 2023, we still saw passenger car travel reduced as much as 10%. We were fortunate that we had the additional fuel tax that was added in 2019. Without this increase, we would not have been able to keep up with rising material and construction costs. We continue to pursue grants each year to supplement our budget and have been very fortunate to receive help from the state with additional safety money. That additional money allowed us to make it through very challenging years. Our lost revenue from the 2020 pandemic is still a deficit that is hard to make up and it would allow us to increase our resurfacing program and match future safety projects. We look forward to 2024, 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 www.clintoncountyengineer.org.

Respectfully submitted,

2023
TAX MAP SUMMARY

Total Parcel Transfers	2432
Parcel Pre-approvals	844
Existing parcels checked	742
Survey plats filed	153
Total Property Splits & Resurveys	
Minor Splits < 20 ac.	53
Over 20 acres	5
Resurveys	57
Exempt	13
Combinations	27
Total Parcels Reviewed	124
(include replat)	
Annexations reviewed	2
Major Subdivisions	14
Recorded	
Road Right-of-Way Plans	1
Easement Relocation (2 lots)	1
Road Dedications	1
Total Pay-in—General	\$434

SNOW & ICE REMOVAL

Regular Hours	632.25 hrs.
Overtime Hours	691.50 hrs.
Grit (small stone)	532 ton
Salt	627 ton
Miles Driven	35,100 miles
Fuel Used	8,775 gals.
TOTAL COST:	\$198,851.45
	(11/17/2022 – 3/14/23)
	(13 days)

2023
PERMITS & REVIEWS

Utility Permits Granted	159
House Numbers Assigned	68
Access Permits Issued	64
Crash Reports Reviewed	1053
Hauling/Overload Permits	64

MISC. MAINTENANCE

Trash Pickup	\$41,558
	(Started 4/3/23 – 4/18/23)
Water-Based Pavement Marking:	
Centerline (42.755 mi)	\$ 39,975.93
Edgeline (75.408 mi)	\$ 44,490.72
Mobilization & Traffic	\$ 4,000.00
TOTAL:	\$ 88,466.65

Road	Bridge #	Facts & Figures		Type of Bridge	Cost
		2023 REVENUE		2023 EXPENDITURES	
	Motor Vehicle Tax (State)	\$	1,504,069.99	Personnel—Wages	\$ 1,860,472.26
	Gas Tax	\$	3,827,153.05	Personnel—Fringe Benefits	\$ 866,663.39
	Reimbursements	\$	363,309.18	Admin (non-personnel)	\$ 113,840.30
	Interest Income	\$	148,452.65	Road Expenditures	\$ 2,624,142.45
	Fines	\$	63,716.66	Bridge/Culvert Expenditures	\$ 118,982.79
	Miscellaneous	\$	862.72	Capital Expenditures	\$ 423,915.75
	Permissive Tax	\$	81,314.40	Buildings & Grounds	\$ 40,267.60
	TOTAL:	\$	5,988,878.65	TOTAL:	\$ 6,048,284.54

Right-of-Way Permit Policy Changes

The County Engineer's Office has been processing utility permits to use our county right-of-way at no charge for many years. The increase of requests and the need to monitor locations has necessitated changes to our process. It has become necessary to charge for all permits to cover the cost of additional time and personnel needed for daily inspections of all projects. A fee schedule is available on our website. The procedures now in place provide better control and identify locations of utilities within the right-of-way in order to maintain and improve our current roadway system.

CLI-CR16-7.96 CENTER ROAD SAFETY IMPROVEMENT PROJECT

The Center Road Safety Improvement Project started the Spring of 2024 and should be complete by mid-summer. The project begins at the intersection of N. Nelson Rd. and extends along Center Rd to US 68. The proposed project will reconstruct approximately 4,100' of roadway, improve the horizontal and vertical curves, widen the pavement and shoulders and remove fixed objects from the roadside area.



CENTER ROAD WIDENING

2024 Proposed Bridge Repair & Replacement

Road	Bridge #	Type of Bridge	Cost Est.
Borum	TR169-1.97	Truss	\$ 713,362*
Pratt	TR256-0.01	TBD	\$1,287,000**
Gurneyville	CR15-5.78	TBD	\$ 206,275***
Hackney	CR53-2.15	Precast Box	\$ 130,000
Snow Hill	CR41-0.17	Precast Box	\$ 110,000
Brown	CR79-0.28	Precast Box Repair	\$ 30,000
	TOTAL:		\$2,476,637

*100% Federal Funds

**95% Federal Funds

***48% OPWC Funds

Civil Engineer Co-op Opportunity Provides Real-World Experience

College students pursuing a degree in civil engineering can greatly benefit from participating in co-op programs, particularly those offered at the County Engineer's Office. These programs provide students with invaluable real-world experience and education that complement their academic learning. By working alongside experienced professionals in the field, students gain practical insights into various aspects of civil engineering, such as infrastructure development, transportation systems, and environmental planning. Additionally, co-op programs often allow students to apply their theoretical knowledge to actual projects, honing their problem-solving skills and enhancing their understanding of industry standards and practices. Overall, participating in a co-op program at the County Engineer's Office offers college students a unique opportunity to bridge the gap between classroom learning and professional practice, setting them up for success in their future careers in civil engineering.

Over the past decade, six individuals have engaged in a co-op role at the County Engineer's Office, with two of them transitioning to full-time positions upon graduating from college.

Grant Dollars Save County Dollars

Federal Money Received for Projects in 2023

CLI-CR 12-7.96 Antioch Rd Safety Improv	\$ 23,291
CLI-CR 10-3.15 Clarksville Rd Sight Improv	\$ 736,000
CLI-VAR Guardrail FY	\$ 302,448
CLI-VAR Pavement Mkg FY	\$ 205,543
CEAO Safety Studies FY2023	\$ 13,950
CLI-TR169-1.97 Borum Rd Bridge Rehab	\$ 26,001

OPWC Money Received for Projects in 2023

CLI-CR10-3.15 Clarksville Rd Sight Improv	\$ 179,960
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TOTAL GRANT MONEY RECEIVED IN 2023 \$1,487,193

2023 Resurfacing

Road Name	Length	Description	Width	Cost
Creek	0.402	Fog Seal	21	\$ 1,803
Creek	0.402	RS-2P Single Seal	21	\$ 5,412
Port William	3.220	RS-2P Single Seal	21	\$ 58,241
Sabina	2.590	RS-2P Single Seal	20	\$ 41,304
Farmers	4.447	RS-2P Single Seal	19.5	\$ 68,650
Larrick	2.085	RS-2P Single Seal	20	\$ 34,999
Cox	2.378	RS-2P Single Seal	19	\$ 36,294
Gurneyville	2.228	Fog Seal	21.5	\$ 9,104
Gurneyville	2.228	RS-2P Single Seal	21.5	\$ 34,150
Center	4.839	Fog Seal	21.5	\$ 20,990
Center	4.839	RS-2P Single Seal	21.5	\$ 87,127
Glady	2.992	RS-2P Single Seal	19.5	\$ 43,873
Prairie	1.621	Fog Seal	20	\$ 6,622
Prairie	1.621	RS-2P Single Seal	20	\$ 24,030
Stone	5.178	RS-2P Single Seal	19	\$ 17,831
Dehan	1.559	RS-2P Single Seal	20.5	\$ 24,244
Texas	1.135	RS-2P Single Seal	19	\$ 19,419
Fayetteville	1.350	Fog Seal	21	\$ 5,859
Fayetteville	1.350	RS-2P Single Seal	21	\$ 24,384
S. George	1.306	RS-2P Single Seal	21	\$ 24,696
S. George	1.306	Fog Seal	21	\$ 5,873
Canada	4.621	RS-2P Single Seal	19.5	\$ 70,616
Brimstone	1.776	RS-2P Single Seal	19.5	\$ 27,842
Brimstone	1.776	Fog Seal	19.5	\$ 8,211
Accommodation	2.215	RS-2P Single Seal	20	\$ 38,644
McCoy	1.304	Fog Seal	19	\$ 5,121
Starbuck	5.734	Asphalt Resurfacing	22	\$ 460,591
Stone	5.178	Mill/Asphalt Resurfacing	4	\$ 292,904
Clarksville	0.34	Road Reconstruction	26	\$ 961,902

TOTAL: \$ 2,460,736

Avg Cost of Single Seal Per Mile—\$14,839 (includes cost of stone)

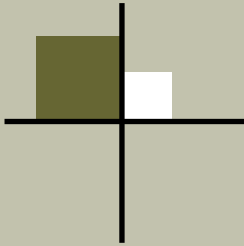
Avg Cost of Fog Seal Per Mile—\$4,289

Avg Cost of Asphalt Resurfacing Per Mile—\$80,326 (includes striping)

FUTURE FEDERAL & OPWC GRANTS APPROVED

FY2022	Antioch/Bernard Safety Improvement	\$ 167,000
FY2023	CLI-CR 16-7.97 Center Rd. Safety Improvement	\$1,920,000
FY2024	CLI-CR15-5.78 Gurneyville Rd Bridge	\$ 206,275
FY2024	County Resurfacing	\$ 600,000
FY2024	CLI-CR 12-4.43 Antioch Rd Safety Improvement	\$1,371,000
FY2024	Pavement Marking	\$ 220,000
FY2024	Guardrail Replacement	\$ 300,000
FY2025	CLI-CR 7-8.00 Farmers Rd. Safety Improvements	\$1,320,000
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
FY2025	CLI-TR169-1.97 Borum Rd Bridge	\$ 794,200
FY2025	CLI-CR37-0.00 Osborne Safety Improvements	\$1,211,160
FY2026	Pavement Marking	\$ 150,000
FY2026	Raised Pavement Marking	\$ 75,000
FY2026	Guardrail Replacement	\$ 300,000
FY2026	CLI-CR3-2.89 Nelson Ave	\$ 854,240
FY2026	CLI-CR19-3.34 Second Creek Safety Improvements	\$1,951,465
FY2026	CLI-CR12-4.81 Antioch Rd Safety Improvements	\$3,954,129
FY2027	CLI-CR 7-5.23 Farmers Rd. Safety Improvements	\$1,865,520
FY2027	CLI-VAR Guardrail Replacement	\$ 300,000
FY2027	CLI-CR19-1.83 Second Creek Safety Improvements	\$1,620,800
FY2028	CLI-VAR Guardrail Replacement	\$ 300,000
FY2028	CLI-CR21-6.34 Prairie Rd Bridge Replacement	\$ 619,000
FY2029	Wayne Rd Intersection Improvement	\$ 556,452
FY2029	CLI-VAR Guardrail Replacement	\$ 300,000

TOTAL FUTURE GRANTS ALREADY APPROVED: \$24,148,074



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VISIT US ON THE WEB!
www.clintoncountyengineer.org

Systemic Grant Received for Roadway Improvements



Second Creek Rd. CLI-CR19-3.34

Clinton County will receive \$5 million from the Ohio Department of Transportation's Highway Safety Improvement Program to improve sections of Antioch and Second Creek Roads.

Roadway departures are one of the primary issues in our recent Safe Streets Plan. This project would improve our roadway safety by widening berms and shoulders, modifying ditches to have traversable slopes and adding wider edge line striping and rumble strips. These projects are also adjacent to current safety improvement projects that are addressing vertical and horizontal curves.

Highway Department Crew



Our Highway Department Crew work tirelessly to keep your county roads and bridges safe. We appreciate their hard work and commitment!

Front Row (left to right): Dakota Heeg, Garrett Fannin, David Thornburg, Andrew Caplinger, Chris Williamson, Josh Groves, Avery Wood, Steven Bailey, Scott Binkley, Keith Barker, Chris Hamilton, Mike Runk, Eric Reiley, Nick Smith.
Back Row (left to right): Nathan Denniston, Aaron Schrand, Chris Gunkel, Tom Thatcher, Bryan Dalton, Brock Allen, Patrick Beatty, Todd Bailey, Rodney Campbell, Jeff Nichols.

*"Be the best
version of yourself
in anything that
you do."*

- Stephen Curry