

**2021 ANNUAL REPORT
OF THE CONDITION OF ROADS AND BRIDGES
RICHLAND COUNTY, OH**



***Adam Gove, P.E., P.S.
Richland County Engineer***

Richland County Engineer's Office

77 N. Mulberry St.
Mansfield, OH 44902
419-774-5591

Richland County Highway Department

395 N. Main St.
Mansfield, OH 44902
419-774-5594

Richland County Tax Map Department

50 Park Avenue E.
Mansfield, OH 44902
419-774-5620

Bellville Outpost

138 East St.
Bellville, OH 44813
419-886-3721

Shiloh Outpost

35 N. Walnut St.
Shiloh, OH 44878
419-896-2221

COUNTY HIGHWAY SYSTEM

The Richland County Highway System consists of 347 miles of County roads plus 358 bridges on both County and Township highways. Our County highway system is approximately equivalent to a road stretching from Mansfield, Ohio to Chicago, Illinois. The County Engineer oversees the Highway Department and is responsible for the construction, maintenance, and repair of the 347 miles of roadway and the 358 bridges. This includes culverts, guardrails, signage, roadside drainage, pavement markings, mowing, and snow and ice control. We try to keep on top of the repairs, maintenance, snow removal, etc., but if a motorist sees something unusual on a highway or bridge we would appreciate a call to check it out. You may call 419-774-5594 or 419-774-5591 between 7 AM and 3:30 PM weekdays (summer hours 6:30 AM and 5 PM, Monday thru Thursday) or visit our website, www.rcengineer.com to report an item of concern.

ROADS

The County keeps a record of pavement condition, called a Pavement Condition Rating (PCR), for all 347 miles of County Highway. These ratings are based on certain factors, including: surface type, cracking, rutting, base failure, potholes, pavement marking condition, etc. The PCR's were updated for maintenance and resurfacing work that occurred in 2021, as well as a reduction factor for deterioration that occurs over a year's time. The PCR rating is used to monitor pavement conditions, determine future maintenance, and determine the type of maintenance/resurfacing work that will be needed. Every couple years, roadways will need to be re-evaluated to determine current PCR values.

2021 PCR SUMMARY		2021 HIGHWAY MILEAGE IN RICHLAND COUNTY	
Poor Condition	77.0 miles	State Highways	262.3 miles
Fair Condition	86.6 miles	County Highways	347.6 miles
Good	44.3 miles	Township Highways	577.3 miles
Excellent	142.2 miles	Cities & Villages	502.4 miles
Total	350.1 miles*	Total Mileage	1,689.6 Miles

*The difference in mileage (347.6 inventory to 350.1 PCR) is due to those sections of roadway that have shared jurisdiction (½ of road is in County, other ½ is in municipality).



BRIDGES

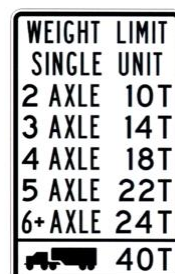
The County Engineer's Office is responsible for 358 bridges on County and Township Roads, as well as several Village and City Streets. In 2021, all 358 bridges were inspected and assigned a condition rating as previously required by Ohio Revised Code. This requirement was changed in 2021 and now allows those bridges in good condition to go 24 months between inspections. In 2022 our office will begin to alternate our inspection schedule for those bridges in good condition while still meeting the 24-month requirement. Bridges in fair to poor condition will continue the 12-month inspection schedule.

Each bridge is rated as to its ability to carry trucks and automobiles safely across the structure. Signs are posted in advance of the bridge indicating the maximum vehicle weights for structures with reduced weight limits. Truck drivers and operators of heavy farm machinery should pay particular attention to the advance weight limit signs. It could prevent serious damage to the bridge or the vehicle, or both. Also, the Richland County Engineer issues oversize or overweight vehicle permits for those vehicles that are in excess of the legal size or weight requirements. When a permit is issued, operators will be advised of the proper route around these posted bridges. A map of all the bridges under County jurisdiction is available on our website www.rcengineer.com under the Tax Map/GIS tab.

BRIDGE STATUS BASED ON 2021 DATA

<u>CONDITION</u>	<u>NO. OF BRIDGES</u>	<u>PERCENT(%)</u>
New, Good	236	65.9%
Fair	85	23.8%
Poor	37	10.3%
TOTAL	358	100.0%
Large Bridges (>20' Span)	185	51.7%
Small Bridges (10' to 20' Span)	173	48.3%
Load Restricted Bridges	75	20.9%
Functionally/Structurally Deficient (Narrow, weight restricted, and/or Poor Condition)	96	26.8%

Bridge load restrictions include a sign for Emergency Vehicles (EV's) because these vehicles tend to have a higher axle load than the typical 2 or 3 axle trucks. You will notice the signs below going up across the county as we update old load restriction signs and add the new signs.



2021 BRIDGE PROJECTS

<u>ROAD</u>	<u>TOWNSHIP</u>	<u>PROJECT</u>	<u>COST</u>
Mock	Jefferson	Prestressed, Precast Concrete Box Culvert	\$562,936.84
Snake	Bloomington	Four Sided 20'x 6' Concrete Box	\$195,856.91
Stein	Sharon	Prestressed Non-Composite Concrete Box	\$268,167.28
Fleming Falls	Madison	63" x 98" Elliptical Pipe	\$93,072.40
Reynolds	Weller/Butler	Four Sided 12' x 5' Concrete Box	\$159,311.70

ADDITIONAL 2021 PROJECTS

- Asphalt Resurfacing – 7.514 miles (Horning, Washington South/North, Plymouth-Springmill) - \$637,292.73
 - Asphalt Paving w/repairs – 6.7 miles (Lexington-Ontario, Bellville Johnsville Roads) \$1,077,620.31
 - Free Road Resurfacing – 3.936 miles - \$242,869.30
 - Chip and Seal – 13.243 miles (Bowman, Windsor, Crider, Honey Creek, Renie Roads) - \$284,064.91
 - Guardrail Replacement – 6,500+/- Linear Feet - \$160,817.00
 - Other Highway Maintenance including: snow/ice control, patching, berming, ditching, mowing, culvert repairs/replacements, sign repairs/replacements, minor bridge repairs, tree removal/trimming, etc.
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2021 PROJECTS



Mock Rd – Concrete Box Beam Bridge



Snake Road – Concrete Box Culvert



Stein Road – Concrete Box Beam Bridge



Fleming Falls Road – Elliptical Pipe



Reynolds Road – Concrete Box Culvert



Asphalt Resurfacing (Bellville-Johnsville Rd)

PROPOSED 2022 PROJECTS

Below is a list of projects that we plan to complete this coming construction season

<u>ROAD</u>	<u>TOWNSHIP</u>	<u>SECTION</u>	<u>WORK TO BE DONE</u>
Mill Run	Troy	S of Kochheiser Rd	Bridge Replacement
Possum Run	Washington	S of Washington South Rd.	Bridge Replacement
Applegate	Monroe	S of Byers Rd	Bridge Replacement
Lucas-Perrysville	Monroe	E of Trumpower Rd	Bridge Replacement
Ganges-Five Points	Franklin	N of Chesrown Rd	Bridge Replacement
Plymouth-Springmill	Jackson	S of Holtz Rd	Bridge Replacement

PROPOSED 2022 PROJECTS (CONTINUED)

Cook/Illinois/Mansfield-Lucas Intersection - Safety Improvement (Roundabout)

Pavement Markings – 8 +/- miles

Asphalt Resurfacing (Olivesburg-Fitchville, Adario West, Franklin Church, Orchard Park, Trimble) - 16 +/- miles

Chip and Seal – (Plymouth-Springmill, Possum Run, Mansfield-Lucas, Free) - 20 +/- miles

ANIMAL-DRAWN VEHICLE MAINTENANCE FUND

According to Ohio Revised Code Section 5501.53, Counties are able to receive donations from groups or individuals for maintenance of roadways in which animal-drawn vehicles travel. The Richland County Engineer received donations for the following amounts in 2021:

2020 Carryover	\$ 33,267.95
Fredericktown Buggy Fund (Keim)	\$ 1,812.00
Amish Steering Committee (Yoder)	\$ 3,754.92
Mennonite Steering Committee (Martin)	\$ 9,000.00
2021 TOTAL DONATIONS	\$ 14,566.92
2021 Expenditures	\$ 35,000.00
2022 BEGINNING BALANCE	\$ 12,834.87

A total of \$35,000.00 was expended from the Animal Drawn Vehicle Maintenance Fund in 2021. These funds were used for the resurfacing of Free Road (Bloominggrove Township), which had a total construction cost of \$242,869.30

2021 REVENUES & EXPENDITURES

REVENUES

Motor Vehicle License and Registrations	\$ 2,848,586.55
Gasoline Tax	\$ 3,739,694.30
Permissive License Fee (\$10 Additional)	\$ 1,052,631.11
Federal/State Grants (Funds administered by Ohio Dept. of Transportation)	\$ 1,899,037.62
State Grants (Funds administered by Ohio Public Works Commission)	\$ 769,271.69
Reimbursements (Grant funds paid to the Engineer's Office)	\$ 150,627.55
Misc. Revenue (Interest, Traffic Fines, scrap, old equip., etc.)	\$ 278,045.28
Animal-Drawn Vehicle Maintenance Fund	\$ 14,566.92
Carryover from 2020	<u>\$ 2,629,891.16</u>
TOTAL AVAILABLE REVENUE	\$13,382,352.18

EXPENDITURES

Salaries	\$ 2,230,190.95
Benefits (Insurance, Worker's Comp, PERS, Etc.)	\$ 866,630.26
Construction/Highway Equipment (Purchase & Rentals)	\$ 357,767.39
Fuel and Oil	\$ 191,213.02
Road Salt	\$ 234,365.67
Engineering Services, Studies	\$ 212,883.10
Operating Expenses (vehicle maintenance/repair, utilities, tools, safety supplies, IT services, etc.)	\$ 611,935.28
Capital Expenses (Construction contracts, road and bridge materials, asphalt, concrete, stone, etc.)	\$ 2,168,650.06
Loan / Bond Payments	\$ 105,172.93
Federal/State Grants for Construction of roads and bridges (Administered by ODOT)	\$ 1,899,037.62
State Grants for Construction of roads and bridges (Administered by OPWC)	\$ 769,271.69
TOTAL EXPENDITURES	\$ 9,647,117.97

PROJECTED CARRYOVER TO 2021	\$ 3,735,234.21
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**ADAM GOVE, P.E., P.S.
RICHLAND COUNTY ENGINEER**

EMPLOYEES OF THE RICHLAND COUNTY ENGINEER

I want to personally thank all employees that are or have been a part of our team! I am proud of the work these employees accomplished in 2021 and look forward to a productive 2022. Thank you for all your hard work and effort in making Richland County a better place to live and work! And thank you to the public for recognizing our workforce and giving them ROOM to WORK on the roadways!

ENGINEERING OFFICE

Kevin Payne, P.E., P.S.

C. Delafon Luna, P.E., P.S.

Chad Coward, P.E., S.I.

Matthew Christian

TAX MAP OFFICE

Elaine Riedel, Supervisor

Jennifer Thompson

**** Denotes New Hire**

Jacqueline Francis

Wilma Marquis

Greg Davis**(Mar. 2022)

HIGHWAY DEPARTMENT

Jon Dickinson, Highway Superintendent

Kim Gosser, Assistant Superintendent/Bridge Foreman

Chad Swank, Mansfield Foreman

Andy Orewiler, Maintenance Foreman

Jacob Eyerly, Shiloh Foreman

Robert Swank, Jr., Bellville Foreman

Dylan Balcarcel

Evan Benedict

Garry Bisel

Jason Bright

Andrew Burrer

Brian Cook

Matthew Cook

Adam Dessecker

Derek Ensman**(Dec. 2021)

Christopher Fraizer**(Dec. 2021)

Gail Fulk

2021 SEASONAL EMPLOYEES

Julia Gutchall (Tax Map)

Connor Ladd

Ethan Vogt

Cayden Wright

RECENT RETIREMENTS

The Richland County Engineer's Office would like to thank Michael Schuster, James King and David Seaman for their time with the County.

Best wishes for a happy, healthy retirement!

Hank Fultz

Lyle Hieber

Heath Humphrey

Richard Hursh

Jason Kemp

Jakob Kiger**(June 2021)

Robert Knipp

Brett Marquis**(Jan.2022)

Charles Miller

Darren Mull

Trent Neeley

Leo Ringler

Alan Sheets

Michael Stevens**(Dec. 2021)

Donald Traxler

Mark Wright

Sebastian Jones

Calvin Smith

Ethan Wallace

Be sure to check out the County Highway Map and the County Engineer's website @ www.rcengineer.com

