

# Champaign County Engineer

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## Champaign County Engineer 2023 Annual Report



We present the work of the Champaign County Engineer's office with great pleasure. Whether we are keeping the roads safe during the winter season, resurfacing or repairing deteriorated roads, replacing bridges or culverts, or working on the right of way, **the employees are very dedicated and hard-working.** We dedicated most of our hours in 2023 to the maintenance of 239 miles of roadway and the upkeep of the right of way in the form of resurfacing, mowing, snow and ice control, ditch cleaning, trash pickup, tree cutting, and road repair.

**Funding for our office** to accomplish our work comes from three primary sources. The first funding source comes from a portion of the state gas tax. The gas tax is a fixed amount that does not change with the fluctuating fuel price. In 2023, Champaign County received **\$3,827,153.05** from the gasoline tax. The **second funding source** comes from a portion of the license plate fee. The Engineer's office received **\$1,349,603.33** last year. The **third primary source** of revenue is also based on the number of licenses issued in Champaign County, referred to as the Permissive License Fee. Municipalities, townships, and the County split the additional \$15 fee. The County's permissive share was **\$488,366.46** last year.

Champaign County uses no **property or sales tax to maintain roads or replace** bridges in 2023. We will continue to pursue outside funding to help improve the county bridges and roads. Some of our accomplishments completed this year can be found in the following report.

Following the Ohio Revised Code, an annual report must be presented to the county commissioners, summarizing the work performed and the condition of the county's infrastructure. Please submit any questions or comments concerning this report to our office. **We are happy to serve you.**

Sincerely,



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Champaign County Engineer

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## 2023 Road Work

<p><b>2023 Road Projects</b></p> <p>Fillmore Construction paved Pisgah Road from Sr 54 to SR 56 with a bid price of \$1,618,668.66. The 4.76-mile paving project was funded by the county's motor vehicle license fees and gas tax.</p> <p>Champaign County also had two and a half inches of cold in-place asphalt constructed on Wesley Chapel Road from SR 29 to SR 245. Ward Construction won the bid to install this material at the cost of \$172,062.50. Asphalt Materials Inc. provided the asphalt liquid and made the material. The total material cost, including the stone, was \$331,215.00.</p> <p>Before installing the cold mix, Wesley Chapel was widened to 20' by Fillmore Construction for a bid of \$132,944.00.</p>	<p><b>2023 Resurfacing Program</b></p> <p>Various roads on the eastern side of the county were chip and sealed.</p> <p>Over 69 miles of County, Township, and Municipal roads were chip and sealed with HF-RS2P emulsion. We are currently on a six-year resurfacing rotation with our program and inspect the roads every two years to see if they need immediate attention.</p> <p style="text-align: center;">County Roads – 24.70 miles Township and Municipal Roads – 44.38 miles</p> <p style="text-align: center;">268,453 Gallons of HF-RS2P at \$2.14/gal 8,380 Tons of #8 Stone at \$28.36/ton avg <b>\$ 766,120 Total Material Cost</b></p>
<p><b>Pavement Marking</b></p> <p>159 miles of road were marked with centerline and edge line, costing <b>\$225,267.62</b>. 12 railroad crossings, 2 crosswalks, 6 bike crossings, 6 stop bars, and 6 school zones were also painted for <b>\$ 8,959.33</b>. The total cost of pavement marking for the year was <b>\$ 234,227</b>.</p>	<p><b>Crack Sealing and Road Maintenance</b></p> <p>The county crack sealed Prairie, Parkview, Stevenson, Apple, Pisgah, and sections of Hickory Grove and Old Troy Pike and strip patched the eastern Champaign County roads. Our dura-patcher has also repaired many roads.</p>
<p><b>Mowing</b></p> <p>Three single passes and two full-width mowing passes were performed this year, totaling 2,772 lane miles of mowing. The total cost for mowing was <b>\$113,656</b></p>	<p><b>Road Mileage</b></p> <p>The current road centerline mileage for the County totals 239.146 miles. This mileage is certified and provided to the Ohio Department of Transportation.</p>

### Snow and Ice Control

<p>755 tons of salt were used to treat county and township roads through the 2022-2023 winter season. 497 tons were used for county roads and townships, and smaller incorporated villages purchased 258 tons. Over the last fifteen years, our average has been just over 1,793 tons per year.</p>	<p>The 2023 winter salt price was \$ 72.73 per ton. The price was only \$62.99 per ton in 2022. We also use Beet Heet to help the salt melt snow and ice at lower temperatures and not refreeze. This product has helped reduce the material required to melt snow and ice below 25° F.</p>
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## 2023 Bridge and Culvert Work

Our annual inspection of 214 bridges has been completed, showing that our bridges are in good shape overall. We share maintenance responsibilities with Clark County for three bridges on County Line Road and two with Logan County. Currently, Champaign County has five county bridges posted narrow (18' to 20'), and one posted for load restrictions is posted as one lane (18' or less).

<b>2023 Bridge Replacement and Repair</b>	
Location	Cost
Wesley Chapel 36-0007 Rehabilitation	\$ 12,285.09
Wesley Chapel 36-0124 Rehabilitation	\$ 15,431.29
Pisgah 236-0281 Rehabilitation	\$10,853.85
<b>Total</b>	<b>\$38,570.23</b>

<b>2023 Bridge Inspection</b>		
General Appraisal	Condition	Number
9A	As-Built	79
8A	Very Good	81
7A	Good	42
6A	Satisfactory	9
5A	Fair	2
4A	Poor	1
3A	Serious	0
2A	Critical	0
<b>Total</b>		<b>214</b>

**Staff and Highway Workers**

Currently, the Engineer's office has eight office staff, a superintendent and four supervisors, a fleet maintenance manager and a mechanic, and 17 highway workers. The 32 employees and the County Engineer are dedicated to maintaining Champaign County's infrastructure.

**2023 Culverts Replaced**

Per Ohio law, any structure spanning less than 10' is considered a culvert.

The Engineer's Office replaced 14 culverts ranging from 12" to 48" in diameter. The cost of these projects totaled less than \$50,000.

### Mapping and Planning

The Office of Mapping and Planning continues to do a great job serving the public. The office answers several questions daily from the public in addition to their regular duties. The number of conveyances and new surveys was somewhat less than last year. The total conveyances reviewed were 1689.

<p style="text-align: center;"><b>2023 Permits</b></p> <ul style="list-style-type: none"> <li>➤ 34 Total Requests for Driveway Permits</li> <li>➤ 19 Driveway pipes were installed</li> <li>➤ 45 House numbers were issued</li> <li>➤ 38 Total Utility Permits Were Issued               <ul style="list-style-type: none"> <li>16 Issued on county roads</li> <li>22 Issued on township roads</li> </ul> </li> </ul>	<p style="text-align: center;"><b>2023 Deed, Description, and Survey Reviews</b></p> <ul style="list-style-type: none"> <li>➤ 230 Surveys were approved               <ul style="list-style-type: none"> <li>67 New splits were approved</li> <li>16 New attachments were approved</li> <li>5 New easements were approved</li> </ul> </li> <li>142 Retracement surveys</li> <li>➤ 1689 Conveyances were reviewed               <ul style="list-style-type: none"> <li>40 Sheriff/Private Officer Deeds</li> </ul> </li> </ul>
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## Existing Fleet

The 36 licensed vehicles drove 276,768 miles last year. The 30 pieces of off-road construction equipment totaled 5,458 hours of usage. We have 10 tandem trucks. The average age of our tandem trucks is nine years old, with an average of 109,547 miles. Through 2023, we spent \$164,397 on fuel. This year, the total maintenance cost for the entire fleet and construction equipment was \$472,382.

### 2023 New/Used Equipment Purchases

<p>2023 John Deere Tractor \$86,469</p> 	<p>2023 Ford F-350 \$66,752</p> 
<p>2023 Ford F-550 Sign Truck \$117,580</p> 	<p>2023 Ford Explorer \$40,171</p> 

### Financials

2023 Receipts			2023 Expenditures		
Gasoline Tax	\$3,827,153.05	59%	Road Projects & Maint.	\$ 3,485,244.55	47.8%
Auto License	\$1,349,603.33	21%	Payroll	\$ 2,073,264.60	28.4%
Permissive Taxes	\$ 790,632.73	12%	Equipment & Fleet	\$ 1,058,547.58	14.5%
Miscellaneous	\$ 488,366.46	7%	Employee Benefits	\$ 473,018.92	6.5%
Interest	\$ 71,565.16	1%	Office & Operations	\$ 165,565.00	2.2%
			Bridge & Culvert Projects	\$ 40,352.23	.6%
			<b>Total Expenditures</b>	<b>\$ 7,295,992.88</b>	
<b>Total Receipts</b>	<b>\$ 6,527,320.73</b>				