

# 2023 ANNUAL REPORT

PREPARED BY:  
**ALAN BRUBAKER, P.E., P.S.**  
**SUMMIT COUNTY ENGINEER**

ISSUED APRIL 15, 2024



South Main Street Bridge over Nimisila Creek



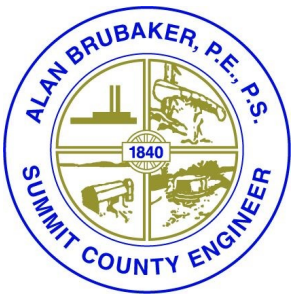
Pressler Road Bridge Replacement

## Mission Statement

*Our mission is to serve the Summit County community by maintaining and improving our region's infrastructure, encouraging economic development, and ensuring a safe and efficient transportation system while protecting the environment.*

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# **ALAN BRUBAKER, P.E., P.S.**

**SUMMIT COUNTY ENGINEER**

April 15, 2024

Summit County Council  
Ohio Building – 7th Floor  
175 South Main Street  
Akron, Ohio 44308-1314

Dear Members of Summit County Council:

In accordance with the Ohio Revised Code Section 5543.02, I respectfully submit the Summit County Engineer's (SCE) annual report for the year 2023. This report reviews the activities of this Office for 2023, highlighting major infrastructure improvement projects and the maintenance of our existing infrastructure. The office continues to be an active partner with the townships, cities, and villages in their efforts to update and improve local infrastructure systems.

Our primary sources of revenue are license taxes and gasoline taxes. Total revenue from all sources (including non-tax revenue) decreased by 2% from 2022 to 2023. Alarmingly, the License Tax and reimbursements were down by \$1,084,423 from the previous year. Tax revenue was up by 5.2%, an increase of \$190,525.00. If this trend continues, we will need to reduce our capital plan in 2024.

2023 was our fifteenth year in office and it was a busy one. We spent \$5.4 million in local funds on capital projects, a reduction over the previous year, however a total of \$14 million was expended total in 2023 combining local and outside grant funding. A major reason for the increase in outside funding is the Bipartisan Infrastructure Law, which moved several bridges to construction in 2023 and 100% of those costs were covered by federal funds.

This annual report highlights many of our projects and initiatives. If you have any questions regarding past accomplishments or the future plans set forth within this Annual Report, please contact me at (330) 643-2850.

Sincerely,

Alan Brubaker, P.E., P.S.  
Summit County Engineer

# Services

**Summit County Engineer Alan Brubaker, P.E, P.S.  
is pleased to offer the following services to the public:**

- Design, construction, inspection and maintenance of Summit County highways, bridges and dedicated stormwater facilities.
- Surface Water Management District covering all townships, one city, and one village.
- Installation, inspection, and maintenance of traffic safety equipment, guardrail, signs, traffic control signal systems, and pavement markings on county highways and bridges.
- Snow and ice control on Summit County highways and in other communities by agreement.
- Engineering design and other services to Summit County's cities, villages and townships.
- Inspection, maintenance, and repair of assessed subdivision stormwater facilities.
- Coordination of local efforts to procure state and federal funding for infrastructure.
- Township representation: SCE has dedicated an employee to cover each township, attend meetings, and stay in touch with local issues as they arise.



Engineer Brubaker, County, Park, and Village officials at the ribbon cutting ceremony for CVNP Pedestrian Bridge.

**THE SUMMIT COUNTY ENGINEER  
HAS A WEALTH OF RESOURCES  
AND INFORMATION FOR PUBLIC  
USE. PLEASE LET US KNOW HOW  
WE CAN HELP YOUR COMMUNITY!**

**CALL US AT 330.643.2850**

**[www.summitengineer.net](http://www.summitengineer.net)**

Here's just some of the resources currently available on our website:

- List of current projects & initiatives
- Conveyance standards
- Road records
- Bid notices
- Traffic alerts
- SCE publications
- Surveys
- Subdivision plats & documentation
- Monument mapper (new GIS app!)
- County maps
- Road and bridge permit forms
- Township services forms
- SWMD Drainage Concern Forms
- Permit Application Forms

Your Summit County Engineer maintains:

- Over 360 lane miles of roads - in all seasons
- 280 bridges throughout the County
- Over 1200 culverts
- Hundreds of miles of road right-of-way and roadside ditches
- Regional stormwater facilities, including assessed subdivisions
- Over 30 signalized intersections

# Notable Events

## High-Level Bridge

SCE is continuing its hard work on what will likely be a decade long process to replace the North Main Street Bridge over the Cuyahoga River, aka the High Level Bridge.

While Steels Corners is the longest bridge, the High-Level Bridge is the highest, most complex, and most expensive piece of infrastructure owned by Summit County. We authorized

GPD Group to proceed with beginning the preliminary engineering process, including mapping and environmental investigation in January 2022.



High Level Bridge

The Summit County Engineer's office spent \$400,000 in 2023 to initiate preliminary engineering work and kickstart the project; then applied for the grants to help fund the design of the new bridge that will replace the current 76-year-old aging structure.

2023 we applied and were awarded two large chunks of funding that will allow us to fund the design of the High Level Project in late 2024 to early 2025.

- \$5 Million from the Local Major Bridge Program. The Local Major Bridge Program provides federal funds to counties and municipalities for bridge replacement, bridge rehabilitation, bridge demolition, and major bridge preventative maintenance projects.
- \$4.11 Million from the passage of the Consolidated Appropriations Act, 2024. This act, that was a bipartisan government spending package that was proposed on June 27th, of 2023, included additional funding for the High Level Bridge Project.

These additional funds are GREAT news to the SCE and will help the High-Level Bridge Replacement Project qualify for additional federal funds. Traditionally, the further along a project is in the planning and design process, the better the chance the project will qualify for and be awarded federal discretionary grant funds for construction.

The last few years have been all about locating funding for the bridge project and planning for the design stage. The average annual revenue for the Summit County Engineer's office is \$ 21 million and the necessary cost to design and construct and replacement bridge is estimated at about \$70-\$79 million, which is 3 times the County Engineer's annual revenue. The current estimated planning costs for this bridge is \$8.2 million, which is almost half of the County Engineer's annual budget. With the now \$9.11 million awarded for design, in 2024 we can focus on applying for additional state and federal funds and begin work on the bridge design.

Local municipalities and residents can keep up to date with the current project status by visiting the Summit County Engineer website and viewing our latest projects.

<https://www.summitengineer.net/projects/High-Level-Bridge-Replacement-Project.html>

# Notable Events

## **Surface Water Management District Progress**

The Engineer's office has been coordinating a joint Annual Report to the Ohio EPA to assist most communities of Summit County meet their MS4 Stormwater Permit reporting requirements since 2003. The communities, the Summit Soil & Water Conservation District and the Summit Health District would forward their reports on how they met their portions of the six minimum control measures (MCMs) in the previous year, and how they planned to meet the MCMs in the coming year. SCE would compile the information and submit it to OEPA.

The expanded SWMD is tasked with implementing a more robust MS4 plan and has contracted with Summit Soil and Water Conservation District to oversee these activities. These activities include establishing a surface water sampling and water quality monitoring program, including a system of recording and reporting water quality data, tracing the source of any identified pollutants, ordering corrective actions, and issuing fines for violations, helping communities implement their own best practices for township/village government, and outreach and education to the public, among many others.

Fees for the expanded SWMD program have been developed but will not be enacted until 2025. The fees are based on a combination of property value and acreage, with different rates for commercial, residential, vacant, and agricultural properties.

In addition to the water quality requirements of the Ohio EPA MS4 permit, the expanded SWMD is advancing a number of studies and construction projects to improve surface water quality and mitigate flooding in every major watershed in the SWMD area. These projects will incorporate a variety of features including stream restoration, two-stage ditches, bankfull wetlands construction and enhancement, floodplain reconnection, swale improvements and others to be determined. The projects will include improving many County Ditches, restoring access, and ongoing maintenance.

Projects and/or studies have been initiated for several areas and watersheds across Summit County, specifically: Cuyahoga River, Tuscarawas River, Reminderville Pond Brook, Twinsburg Twp. Marwell/Darrow area, Sagamore Hills Twp. Chaffee Rd. area, Northfield Center Twp. Dorwick Ditch, Richfield Twp. Everett Rd. stream restoration and bridge removal, Richfield Twp. Stubbins Rd. Outlet, Bath Twp. Bonnebrook Dr. Pond outlet control, Copley Twp. Copley Ditch/Copley Meadows, Copley Twp. Black Pond Outlet, Coventry Twp. Penguin Ditch, Springfield Twp. and Lakemore Springfield Lake Watershed and Springfield Lake Outlet.

Residents and officials should feel free to share your thoughts with us as the process continues to develop by using our "Contact Us" page, plus we have a Drainage Concern Form for residents wanting to report drainage issues.

## **South Main Street Emergency Closure and Quick Replacement**

In July of 2023 SCE alerted residents and motorists of the immediate closure of the South Main Street Bridge over the Nimisila Reservoir. The SCE had proposed the replacement of the structure originally but did not believe we would need to close the bridge so soon. Additional deterioration was found by bridge inspectors on July 6, 2023, which made it necessary to close the bridge to vehicle traffic to ensure safety immediately. Kenmore Construction was awarded the contract and was able to expedite construction. The bridge was closed July 6, 2023 and was opened October 20, 2023.

# Notable Events

## Akron Metropolitan Area Transportation Study (AMATS) Grant Funding

The Summit County Engineer had a successful year in 2023 when it came to grant funding from AMATS.

AMATS, the agency that conducts regional transportation planning in the greater Akron area, awarded SCE for several projects. The agency makes grants based on funding availability, which varies from year to year. Projects that received funding are:

- The Killian/Pickle Road Roundabout
- Krumroy Resurfacing Project, Phases 1, 2, and 3
- 2 other community led partner projects on Liberty Road in Twinsburg, Reminderville and Twinsburg Township
- South Main Street Improvements

## Cuyahoga Valley National Park (CVNP) Pedestrian Bridge

The Cuyahoga Valley National Park with the Summit County Engineer constructed a new pedestrian/trail bridge over the Cuyahoga River in Boston Township, Summit County that was opened in 2023.

The new bridge is located approximately 200-250 feet south of the Boston Mills Road Bridge. The bridge connects with the parking lot on the west side which serves the newly opened Boston Mill Visitor Center (2019), Cuyahoga Valley Scenic Railroad, and Ohio & Erie Canal Towpath Trail Boston Trailhead. The new bridge will provide a safe pedestrian connection between the parking lot, Ohio & Erie Canal Towpath Trail, and the new Visitor Center & Station. The new bridge is within the boundaries of the Cuyahoga Valley National Park (CVNP).

The Summit County Engineer applied from Transportation Alternative Program funds, programmed through the Akron Metropolitan Area Transportation Study, for this pedestrian bridge, on behalf of CVNP. The Summit County Engineer administered the project and CVNP paid the local share.





# Public Services Division

The Public Services Division is responsible for maintaining over 360 lane miles of county roadway, 280 bridges, over 1,200 culverts, guardrail, berms, vegetation control, ditches, pavement markings, traffic signals, tree trimming and removal, deceased animal removal, culvert pipes, fleet maintenance, retention and detention ponds, and snow and ice control.

The Public Services Division's administrative office and the South Street Station are located at 601 East Crosier Street in Akron, with an outpost at Boston Mills Station located in Boston Township. Bath, Boston, Copley, Coventry, Northfield Center, Richfield, Sagamore Hills, Springfield, and Twinsburg townships are provided general maintenance and snow and ice control by our department. In addition to our South Street and Boston locations, the County has a salt storage facility in Akron.

In 2023 a total of 754 requests for service were received and completed throughout the County for ditching, berm cutting, pothole repairs, tree trimming, weed control, and asphalt patching. The department used approximately 1,095 tons of stone, 580 feet of culvert pipe, 556 tons of asphalt, and 4,848 tons of salt for snow and ice control.



Basin Repair on Springside Dr

# Public Services Division

Our North District performed culvert replacements and upgrades on Bath Road, Wheatley, 2 locations on Brandywine, Cleveland-Massillon, and Hametown. Our North District stepped up to help with upcoming construction projects by performing tree removal on Olde 8, Akron-Cleveland, Revere, Brandywine, Ravenna Road, Cleveland-Massillon, Knox, and Valley View Roads. In addition, mailbox repairs, bridge repair, ditching, culvert cleaning, berm cutting, pavement repairs, tree trimming, and weed control were also performed throughout the North District.

Our South District basin repairs on Cormany Rd. and Arlington Rd. They also completed several crossovers in 2023 including ones on Cleveland Massillon Rd, Sanitarium, and Pickle Rd. In addition, mailbox repairs, bridge repair, ditching, pavement repairs, tree trimming, pavement marking, pipe flushing and weed control were also performed throughout the South District.

Our Ditch Crew performed an Drainage Improvement project at Copley Ditch. An Erosion/Slide Repair project was completed on Martin Road. They also completed work at two assessed subdivisions, one being a basin repair at Revere Reserve, and the other being a manhole repair at Eaton Estates. The Ditch Crew had a very busy 2023 assisting in every single in house bridge repair project that was completed. In addition, they performed routine maintenance and repairs on other various areas throughout Summit County.



S. Main St Closure

## Equipment Purchases

Item	Amount
(2) Kenworth Tandem Axel Dump Trucks	\$275,622.00
(1) Remote Controlled Rotary Mower	\$60,450.00
(1) Gradall Hydraulic Excavator	\$442,431.25
(1) Ford Explorer 4WD	\$37,825.50

## Material Usage

	2018	2019	2020	2021	2022	2023
Salt (in tons)	13,200	10,200	7,250	8,350	9,387	4,848
Stone (in tons)	2,400	3,000	2,000	2,400	2,700	1,095
Asphalt (in tons)	700	1,100	1,300	1,500	1,900	556
Culvert Pipe (in feet)	400	420	560	400	380	580

# Public Services Division

## Bridge Section

In 2023, our bridge crews were busy sandblasting, forming, and pouring concrete to replace crumbling parapet walls, wing walls, and other important components of the bridges that comprise the lifeline of our commerce. The following highlighted projects demonstrate work performed by this crew in 2023.

### Bridge Maintenance Completed

- **Seven Bridges over the Tuscarawas River** - Installed Summit Metro Parks River Trail signs on the bridges for paddlers traveling along the river.
- **Forest Run Dr over Branch Furnace Run** in Richfield Township – Replaced entire length of guardrail.
- **Front St over Cuyahoga River** in the City of Cuyahoga Falls – Repaired embankment and storm sewer at the north end of the bridge. Poured concrete grade beam for Bridge Terminal Assembly work which was non-performed during a construction project.
- **Glenmount over Holy Cross Cemetery inlet** in Akron – repaired bridge deck with concrete patching.
- **N. Main Street High Level Bridge over Cuyahoga River** in City of Akron – Semi-annual bridge maintenance & cleaning, deck surface repairs, and miscellaneous structure repairs.
- **Shaw Rd over Branch Yellow Creek** in Bath Township – Repaired stone foundations from stream erosion.
- **Townsend Rd over Furnace Run (two bridges)** in Richfield Township – Stream erosion repairs and concrete repairs.
- **Various Bridges throughout County** – Bridge railing repairs, approach guardrail repairs, replacements, tree removals, foundation work, stream erosion repairs along with other miscellaneous structural repairs.



Work completed under Shaw Rd Bridge

### Upcoming Bridge Maintenance

- **Highland Road over Cuyahoga River** in Sagamore Hills Township – Streambank erosion repairs and pavement repairs.
- **N. Main St over Cuyahoga River** in City of Akron – Semi-annual bridge maintenance and cleaning, miscellaneous structural repairs, bridge deck and approach pavement repairs.
- **Wooster Rd over Wolf Creek** in Barberton – Erosion repairs.
- **Hametown Rd over Br Yellow Creek** in Bath Township – Repair erosion areas, concrete patching of beams, abutments and deck underside.
- **Shaw Rd over Branch Yellow Creek** in Bath Township – Repair deck / seal construction joint to prevent deterioration down below,
- **Various Bridges throughout County** – Bridge railing and approach guardrail repairs and replacement. Foundation and stream erosion repairs. Tree trimming. Structure repairs.

# Engineering Division

The Engineering Division is active in the development of plans for highway, drainage, and bridge improvements and new construction on Summit County roads. The engineers and technicians prepare improvement plans for federal, state, and locally funded projects on County highways. They also assist townships by preparing plans for township roads and drainage systems. Our project managers are responsible for overseeing large projects from initial scoping through the design phase

## Federally Funded Resurfacing Projects

SCE received federal Surface Transportation Block Grant funds for the following work that was bid out and/or constructed in 2023:

- **Cleveland Massillon Rd Resurfacing Part 1 & 2**—from the Norton line E. Ridgewood Rd.
- **Akron Cleveland Rd. Resurfacing**—from the Boston Heights border to the Cuyahoga Falls border.
- **Olde 8 Rd. Resurfacing**—from the border of Boston Heights to the southern Highland Road intersection .
- **Swartz Rd. Resurfacing**—beginning at S. Main and ending at the Akron Corp limits .
- **Valley View Rd. Resurfacing**—from Olde 8 Road and State Route 8 in Northfield Center Township.
- **White Pond Rd. Resurfacing**—from Copley Road to the City of Akron limit.



Pressler Rd Bridge



Christman Rd. over the Nimisila Reservoir

## Federally Funded Bridge Projects

- **Pressler Rd. Bridge Replacement** - This project replaced the poor condition, structurally deficient, load posted two-span concrete slab structure with a new structure.
- **South Main Street Bridge Rehab.**—This project rehabilitated the existing bridge carrying S Main St (CR 50) over Nimisila Creek in the cities of Green and New Franklin, Summit County, Ohio. Improvements include installing new concrete box beams, a concrete deck, and minor approach roadway work.
- **Christman Road Bridge Replacement**—This project replaced the structurally deficient, load posted, simple span prestressed concrete box beam structure over Nimisila Reservoir with an entire new structure.

# Engineering Division

Summit County is proud to offer a county-wide regional pavement maintenance program. We encourage local communities in Summit County to join our bid process, allowing us to go out to bid as one unit and, as a result, getting lower per unit costs for all of our communities who participate. Our pavement maintenance programs include hot mix resurfacing, motor paving, chip and seal, asphalt rejuvenation, crack sealing, pavement marking, culvert replacements, guardrail replacements, and concrete road repair. In 2023, 12 individual local governments participated. 30 individual projects were combined into nine larger projects worth \$7.46 million. Below are some of the county-owned roads included in 2023's pavement maintenance program.

## **405 (Motor Paving)**

Boston Mills Road from Gas Well driveway to Boston Heights.  
Everett Road from Southern Road to Cleveland Massillon Rd.  
Medina Line Road from McCormick to SR 303.

## **422 (Chip Seal)**

Albrecht Road from Akron line to Mogadore line  
Old Mill Rd from Ravenna Rd. to Portage County Line.  
Myersville Rd. from Green Corp. Line to Krumroy Rd  
ALT. Krumroy Road from Pressler to Myersville Rd.

## **441 (Hot Mix Asphalt)**

Cleveland Massillon Rd at the intersection of Ghent  
Jacoby Rd. from Wright Rd to SR 162  
Krumroy Rd from Pickle Rd to SR 241  
Mayfair Rd from Green Corp Line to SR 241  
Revere Rd from Fairlawn Corp Line to Sourek Rd  
Revere Rd from Everett Rd to Wheatly Rd  
ALT. Main St from Warner to Vaughn Trail  
ALT. Olde 8 Rd spot repairs between SR 82 and Valley View

## **Asphalt Rejuvenating**

Bath Rd from Medina Line to Hametown Rd  
Brookwall from Springside Rd to Cleveland Massillon  
Quick Rd from Akron Peninsula Rd to Cuyahoga Falls C.L.  
Portage Lakes Dr from S Turkeyfoot to S Main St  
Skelton Rd from Mogadore Rd to Gilcrest Rd  
Ravenna Rd from Old Mill Rd to Twinsburg Corp Line.

## **Asphalt Crack Sealing Program**

Alger Rd from Richfield C.L. to Luther Rd  
Bath Rd from Cleveland Massillon Rd to Revere Rd  
Bath Rd from Shade Rd to Cuyahoga Falls Corp Line  
Brandywine Rd from Highland Rd to SR 82  
Cleveland Massillon Rd from Ira Rd to Everett Rd  
Cormany Rd from Portage Lakes Rd to Manchester Rd  
Killian Rd from S Main St to Arlington Rd  
Portage Lakes Dr from Manchester Rd to S Turkeyfoot Rd  
Ridgewood Rd from Medina Line Rd to Hametown Rd  
Robinson Rd from Barberton Corp Line to Cormany Rd

# Engineering Division

## Bridge Section

The Summit County Engineer Bridge Section is responsible for bridge inspections, bridge inventory, coordination of our bridge maintenance program and developing recommendations for rehabilitation or replacement of County bridges. The bridge section also reviews all bridge plans prepared by consultants. Our project inspectors serve a dual role. They inspect our construction work and are ODOT certified bridge inspectors and perform our bridge inspections annually to ensure they remain safe for the traveling public.

### RECENTLY COMPLETED BRIDGE PROJECTS

- **Christman Road over Nimisila Reservoir** in the City of Green – Total Replacement Project sold in 2023, \$1.18 M, prestressed concrete box beam bridge with concrete deck, 68 ft long x 45 ft wide. The bridge will have an additional width for anglers on the west side of bridge.
- **S. Main St. over Nimisila Creek** in the Cities of Green & New Franklin – Design/Build Project \$645,000. Bridge rehabilitation by replacement of prestressed concrete box beams with concrete deck, 49 ft long x 38 ft wide. The design and beam fabrication were expedited to open the bridge early.
- **Pressler Road over S. Fork Tuscarawas River** in Springfield Township – Total Replacement Project sold in late 2022, bridge was built in 2023, \$933,000, prestressed concrete box beam bridge with concrete deck, 59 ft long x 32 ft wide.
- **Bridge railing and approach guardrail replacement at seven locations (\$236,000 total).** Front St over Cuyahoga River, N. Main St. over the Cuyahoga River, Arlington Rd over Nimisila Creek, Fish Creek Rd over Powers Brook, Collier Rd over Fredrick Ditch, Collier Rd over Pigeon Creek, Shocalog over Pigeon Creek.



Christman Rd Bridge replacement

### ONGOING/UPCOMING BRIDGE CONSTRUCTION

- **Granger Road over Yellow Creek** in Bath Township – Total Replacement Project was sold in 2023 and will be built in 2024. \$1.565 M, prestressed concrete box beam bridge with concrete deck, 87 ft long x 32 ft wide.
- **N. Revere Road over Revere Run** in Bath Township – Design/Build Total Replacement Project sold in 2022, construction in 2024, \$584,000, precast concrete box culvert structure, 12 ft span x 8 ft rise x 90 ft long.
- **Steels Corners Road over Mud Brook** in City of Stow – Structure Repairs & Concrete Overlay Project was sold in March of 2024, \$1.05 M, 15-span prestressed concrete box beam bridge, 1,052 ft long x 38 ft wide.
- **Ira Rd over N. Fork of Yellow Creek** in Bath Township – Total Replacement of existing triple CMP structure in serious condition with precast concrete box culvert structure, 18 ft span x 6 ft rise x 39 ft long. Estimated cost is \$650,000, to be sold in spring 2024.
- **Miscellaneous Bridge Repairs at five locations (\$459,000 total).** Memorial Parkway over Little Cuyahoga River, W. North St. over Ohio Canal, NB Portage Path over Cuyahoga River, SB Portage Path over Cuyahoga River, and Front St. over Cuyahoga River.

# Engineering Division Bridge Section

## BRIDGE INSPECTION

**Summit County Bridges** - Completed required annual inspections and inventory updates for SCE bridges based on FHWA / ODOT new inspection policy. This new policy allows inspection of the better condition bridges on a 24-month frequency and the fair to poor condition bridges on a 12-month or less frequency. A consulting engineering firm provided annual inspection services on a total of 72 of the 280 total bridges inspected in calendar Year 2023. In addition, another engineering firm completed a one-day routine inspection of the N. Main Street High Level Bridge spanning 200 feet above the Cuyahoga River to assess the bridge's current condition close-up. In Year 2024, SCE will be inspecting 95 bridges on the County's inventory. Our bridge consultant will be inspecting 46 bridges. Summit County trained and certified inspectors will also utilize SCE's recently purchased Drone aircraft to assist in close-up inspections where best needed.



Annual Inspection—Cleveland Massillon Rd Bridge over Wolf Creek COP-017-1141

**Summit Metro Parks** – SCE inspectors completed the inspection of a total of 15 bridges for Summit Metro Parks. Five of these bridges carry vehicular bridges and are inventoried with ODOT. The remaining 10 bridges carry pedestrian and maintenance vehicles on the many trails and service roads throughout the parks.

**Bridge Load Ratings** - A consulting engineering firm performed a structural analysis on a total of four bridges to determine their safe load carrying capacity for current Ohio Legal Load Vehicles and Emergency Vehicles. Results of the Load Ratings determined that two bridges required Weight Limit Restrictions Signs to be posted. SCE Maintenance Department installed the required signs per FHWA policy. The remaining two bridges were determined to be capable of safely carrying Ohio Legal Loads and Emergency Vehicles based on their current condition with no restrictions.



Pressler Rd Bridge



Front St Bridge over the Cuyahoga River AKR-059-0275

### **Summit County Engineer Bridge Facts**

280 total bridges  
119 in Townships  
161 in Cities and Villages

# Community Involvement

County Engineer Alan Brubaker and SCE staff attend meetings of numerous committees and organizations that affect roads, bridges, and surface water in the County. Attendance at these meetings enables this Office to communicate the impact of their projects on County facilities, advise them of County projects that may affect their programs, and assist in planning County projects to coordinate with other community programs. Individuals in this office participated in the following committees, organizations, and programs:

## **Supported Committees & Organizations:**

- American Society of Civil Engineers
- American Society of Highway Engineers
- National Society of Professional Surveyors
- Professional Land Surveyors of Ohio
- Association for Bridge Construction and Design
- Institute of Transportation Engineers
- American Public Works Association
- Northern Ohio Service Directors Association
- Watershed Management Association of Ohio
- International Erosion Control Association
- Urban and Regional Information Systems Association
- Municipal Engineer's Association of Northeast Ohio
- Water Pollution Control Federation
- Akron Metropolitan Area Transportation Study, Technical Advisory Committee, Policy Committee, and Citizen Involvement Committee
- County-wide program administrator—National Pollutant Discharge Detection and Elimination System
- Summit County Transportation Improvement District Executive Committee
- Northeast Ohio Four County Regional Planning and Development Organization
- Ohio Public Works Commission—District 8
- Natural Resources Assistance Council—District 8
- Summit County Emergency Management Executive Committee
- Summit County Board of Control
- Summit County Information Technology Board
- County Engineer's Association of Ohio
- Township Association of Summit County
- Joint Safety Committee—Bath, Copley, and Fairlawn
- Community Partnership Program-Economic Development grant program administered by the Summit County Engineer's office to promote economic development related road projects throughout Summit County
- Miniature Bridge Building Competition-SCE and our engineering consulting firms and construction contractor partners run a bridge building competition for Summit County High School students and offer participants scholarships if they go on to major in an engineering field in college
- Summit and Portage County Mayors, Service Directors, and City Managers Regional Group
- An Engineer to Each Township—SCE has assigned an employee to represent each Summit County township. They attend township meetings and facilitate ongoing communication between the County and the townships
- County Commissioners and Engineers Administrative Professionals Association
- Society for Human Resource Management (SHRM)
- Akron Area SHRM
- Greater Akron Public Personnel Professionals
- National Public Employer Labor Relations Association
- Ohio Public Employer Labor Relations Association
- Ohio Government Finance Officers Association
- Association of Government Accountants
- Torchbearers Akron

Engineer Brubaker also finished his term as Treasurer for the International Soap Box Derby in 2019 and sits on the Boy Scouts of America Eagle Scout Recognition Committee.



# Engineering Division

## Drainage Section

The Drainage Section coordinates requests, reviews, inspects, designs and schedules improvements to ditches, culverts, storm sewers and other drainage-related items for landowners, townships and/or County maintenance. Preliminary studies and improvement plans were prepared for several township and county drainage projects. There were several proposed commercial improvement plans reviewed in the townships as well as several drainage studies and storm sewer replacement projects.

### 2023 Drainage Projects

Bath	Yellow Creek Road Culvert BAT-33-08845	Design completed in-house to replace deteriorating box culvert with an 84" culvert. Culvert replaced under 2023 Culvert Contract.
Coventry	Eastern Road Culvert COV-55-04008	Design completed in-house to replace deteriorating 24" culvert and twin 15" culverts with a 12" culvert and a box culvert. Culverts replaced under 2023 Culvert Contract. Construction cost shared with City of New Franklin.
Northfield Center	Bayberry Drive Paving and Drainage Improvements	Prepared design/build specifications and a preliminary plan for construction. Specifications have been forwarded to the township. Project should be constructed in 2024.
Countywide	Storm Sewer Video/Inspection Contract	Countywide program to provide full inspection of inaccessible drainage systems. Inspection and cleaning completed for approximately 36,000 feet on seven County Highways in 2023. A new contracted is expected for 2024.

### 2023 Commercial Plan Reviews

Bath	I of the Needle - 1864 N Cleveland-Massillon Road LDI Building Addition - 211 Springside Drive Sheetz/Texas Roadhouse - SR 18/Springside Drive
Boston	Mini-Storage System - 5374 Akron-Cleveland Road
Copley	1840 Manor House - 804 White Pond Drive Copley Auto - 1230 S Cleveland-Massillon Road Copley HS Stadium - 3807 Ridgewood Road Copley MS Athletic Fields - 1531 S Cleveland-Massillon Road Copley Safety Center - Sunset Drive Extension MedVet Akron - 1321 Centerview Circle Northeast Ohio Classical Academy - 137 Heritage Woods Drive Panera - 55 Springside Drive Primrose School - 4131 Heritage Center Drive Ridge Townhomes - 506 Rothrock Road Storage King - 1252 Mina Avenue/3285 Copley Road Sunoco - 4640 Medina Road Walterville Expansion - 1351 S Cleveland-Massillon Road
Coventry	KFC - 3070 Manchester Road Sunbelt Rentals - 676 E Waterloo Road
Northfield Center	Liberty Valley Church - 9851 Olde Eight Road Nick's Property Management - 255 E Twinsburg Road
Sagamore Hills	Parkview Senior Living - W Aurora Road/Carter Road
Springfield	Killian Contractor Suites - 1008 Killian Road Stark State CDL Expansion - 2270 Picton Parkway Young's Contractor Suites - 2425 Massillon Road
Twinsburg	Advanced Asphalt - 1499 Enterprise Parkway IFS HPP - 1550 Enterprise Parkway Interstate Towing - 1655 E Highland Road
Countywide	Reviewed 38 Topographic Site Plans for New Home Construction for Building Department Reviewed 30 Topographic Site Plans for New Home Construction after Summit County Engineer's Office takes over duties for approving Topographic Site Plans on 10/1/23

# Engineering Division

## Surface Water Management District

The Summit County Engineer's Surface Water Management District (SWMD) was created in 2017 to provide a means and revenue source to address storm water runoff issues beyond the roads and bridges. Under the SWMD, residents and businesses are charged a stormwater fee to be used to remediate flooding and erosion issues in their community.

The Summit County Engineer's Surface Water Management District (SWMD) is a stormwater utility with a focus on surface water quality in order to address the requirements of the OEPA Small MS4 Stormwater Permit. All townships are now required to be members of the SWMD, and the villages and cities in Summit County are invited to join the SWMD to address their local watershed problems. We are assisted by the Summit County Soil & Water Conservation District (SSWCD) for investigation of drainage concerns, enforcement of our rules, waterway monitoring, preparation of NPS-IS studies, and to provide advice to landowners. Another important function of the SWMD is to advance studies and projects that will provide improvements in storm water quality while mitigating flooding.

The first construction project initiated was the Wye Road Flood Mitigation and Drainage Improvement Phase 1 in Bath Township. Phase 1 construction is substantially complete, and Phase 2 Design Plans will be completed soon. Because Bath Twp. joined SWMD a few years ago, the second project is also in Bath: Idle Brook Bankfull Wetland, which is ready for design-build bidding, pending an upcoming funding application.

Projects and/or studies have been initiated for several areas and watersheds across Summit County, specifically: Cuyahoga River, Tuscarawas River, Reminderville Pond Brook, Twinsburg Twp. Marwell/Darrow area, Sagamore Hills Twp. Chaffee Rd. area, Northfield Center Twp. Dorwick Ditch, Richfield Twp. Everett Rd. stream restoration at bridge removal, Richfield Twp. Stubbins Rd. Outlet, Bath Twp. Bonnebrook Dr. Pond outlet control, Copley Twp. Copley Ditch/Copley Meadows, Copley Twp. Black Pond Outlet, Coventry Twp. Penguin Ditch, Springfield Twp. and Lakemore Springfield Lake Watershed and Springfield Lake Outlet.



Replacement of storm sewer and overflow swale grading for Wye Road Flood Mitigation and Drainage Improvement Phase 1

## Assessed Subdivisions



Repair of erosion at storm sewer outlet to retention pond in Firestone Trace

Owners of lots within most township subdivisions developed since the mid-1980s pay Drainage Maintenance Assessments along with their real estate taxes. This funding pays for maintenance and repair of the stormwater management facilities (SWMFs) that cannot be paid for by our road and bridge funds.

We added maintenance responsibility at 1 SWMF in 1 subdivision with 25 sublots in 2023, bringing the totals to 133 SWMFs in 208 subdivisions with 5,384 lots.

Our maintenance crews perform routine inspection and maintenance of several SWMFs with known drainage issues. In 2023 Davey Resource Group and Emerald Environmental continued their programs for invasive vegetation control, biomass removal and repair of erosion and drainage infrastructure at 70 and 24 stormwater management

# Engineering Division

## Surface Water Management District

### Surface Water Management District Grading Permits

The countywide SWMD has a Grading Permit procedure in place to protect the waterways from pollution and to mitigate flooding. The primary goals of the permit requirements are as follows:

- Streams, waterways, wetlands and ditches shall remain open and free-flowing, shall not be altered without a permit, and shall not be polluted.
- Filling and grading operations and construction of buildings, ponds, bridges, culverts, and storm sewers must meet standards, and are subject to plan review and permit requirements.
- Existing bridges, culverts, and storm sewers must be properly sized and properly maintained, or may be ordered removed.
- Enforcement, appeal, and penalty provisions are in place.

### SWMD Permit required by SC Codified Chapter 942 Appendix amended by Ord 2023-220 effective 8/22/23:

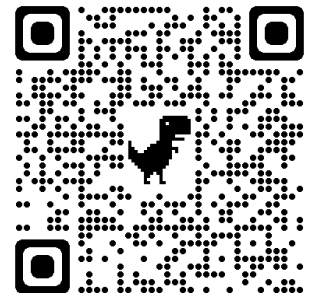
- No filling, grading, excavating, or pond construction shall be commenced in the District except as allowable, and then only in full compliance with the requirements, standards and conditions of 942 A.
- Notably, the rules apply to construction of new homes, additions and accessory buildings. The SC Building Department will require approval of the site plan by SCE/SWMD before they issue a building permit.

### SWMD Permit Application, Fees and Procedure

1. Applicant completes and submits the Application with a \$50 application fee, describing the proposed work.
2. SCE staff conducts an initial review of the proposed work to determine if a permit is required and what level of plans, details, and calculations are required.
3. SCE staff prepares the Permit form, describing the work that will be permitted, and determines the fee amount to cover cost of review, inspection, and bond amount.
4. Applicant signs the permit form and submits it along with the required permit fee and bond.
5. Permit is issued by SCE/SWMD.
6. SCE/SWMD and/or SSWCD performs inspection of the site work to assure compliance with permit.
7. Once work has been successfully completed, the bond is released.

Application for an excavation, grading or filling permit shall be made by the property owner or his/her authorized agent to the County Engineer as enforcement officer, on forms provided by the County, accompanied by a detailed statement of proposed work and by any approvals or permits for such work required by any federal or state agency or subdivision thereof, and by plans showing the proposed work in conformance with the following as applicable:

TYPE OF FEE	Project Type/Size	FEE	Requirements (Scan the QR code for full list of rules requirements)
Application Fee	Any size project	\$50.00	See Note 1
Permit Fee	Less than 150 cubic yards or lake, pond, wetland	\$250.00 Min.	See notes 2A through 2G and Note 4.
Permit Fee	150 cubic yards or more, or lake, pond, wetland	\$250.00 Min.	See notes 3A through 3R and note 4



# Engineering Division

## Highway Section

The Highway Section is responsible for highway design, installation and maintenance of traffic control devices such as signs, pavement markings and traffic signal systems/warning flashers. These functions are integral parts of all improvements made to the Summit County highway system. In addition to the section's primary function of preparing plans for roadway improvements, the Highway Section also conducts studies and/or evaluations of roadway traffic, geometrics, physical features and access. The Highway Section determines the need for signage, guardrail, lane assignments/construction, speed limit revisions and other safety capacity improvements. This Section also reviews and coordinates construction projects to ensure that alternate routes for traffic detours are free of major obstructions and available during the construction season.

### Design Complete/Ready for Construction

Canton/Sanitarium Roads -- Traffic Signal Upgrade (final design)

- Construction to coincide with Canton Road Re-surfacing

### Construction Complete

Crystal Lake/Granger Road Intersection

- Intersection Signage Upgrade

Olde Eight Road @ E & W Highland Roads

- Intersection Signage Upgrade

### Current Studies

Crosswalk Pavement Marking/Signage Study

### Studies Completed

CEAO Safety Studies -- Pavement Marking/Centerline Compliance Study

CEAO Safety Studies -- Canton/Sanitarium Safety Study

CEAO Safety Studies -- S. Main/Warner Road Safety Study

CEAO Safety Studies -- S. Main/N. Turkeyfoot Road Safety Study

CEAO Safety Studies -- Highland Road Corridor Safety Study (Chamberlin to Hadden Roads)

# Allotment Section

The Allotment Section works with developers, engineers, contractors, governmental agencies and the public to regulate the design, construction and acceptance of subdivisions. This section also coordinates inspections under the Engineer's annual stormwater maintenance program. This consists of inspecting detention/retention ponds, catch basins, headwalls and storm sewers in subdivisions throughout the County. When required, corrective measures are taken to update the stormwater facilities to assure that stormwater is appropriately managed in allotments.

### 2023 SUBDIVISION PLAN REVIEW & CONSTRUCTION INSPECTION

Allega Way and Columbia Road Extension  
 Blue Jaye Farm Subdivision  
 Estates of Bath Phase IIB  
 Heartridge Subdivision  
 Kingdom Preserve  
 Mottl Reserve  
 Parkside Grove  
 Preserve at Miller's Farm  
 Reserve at North Revere  
 Retreat at Liberty Lakes  
 Ridge Drive  
 Sunset Drive Extension

### 2023 FINAL PLATS

TOWNSHIP	SUBDIVISIONS	SUBLOTS	ACRES
Bath	2	5	17
Copley	2	29	22
Coventry	1	1	0.5
Northfield Ctr.	1	1	1
Springfield	1	1	4
<b>TOTALS</b>	<b>7</b>	<b>37</b>	<b>44.5</b>

### 2023 PRELIMINARY PLANS

TOWNSHIP	SUBDIVISIONS	SUBLOTS	ACRES
Copley	2	31	28
<b>TOTALS</b>	<b>2</b>	<b>31</b>	<b>28</b>

# Engineering Division

## Construction Section

The Construction Section is responsible for the quality, cost, and timeliness of improvements to the County's highways and bridges. This includes reviewing preliminary plans, acquiring property, relocating utilities, construction inspection, testing construction materials, and completing final construction contract documents.

<b>Road Projects</b>	Total Project Cost
Cleveland Massillon Rd Resurfacing Part 1 & 2	\$ 3,371,939.56
Akron Cleveland Rd. Resurfacing	\$ 1,118,804.16
Olde 8 Rd. Resurfacing	\$ 1,214,081.28
Swartz Rd. Resurfacing	\$ 871,303.69
Valley View Rd. Resurfacing	\$ 854,423.62
White Pond Rd. Resurfacing	\$ 1,087,581.27

<b>Bridge Projects</b>	Total Project Cost
Pressler Rd. Bridge Replacement	\$ 892,044.65
South Main Street Bridge Rehab.	\$ 636,364.00
Christman Road Bridge Replacement	\$ 1,166,821.51

<b>Drainage Projects</b>	Total Cost
2023 Culvert Repair/Replacement	\$ 346,798.57
Wye Road Flood Mitigation & Improvement - Phase 1	\$ 205,117.50



Christman Rd Bridge Demolition

### Total Value of All Improvements Managed by the Construction Section: \$19,223,328.01

The Construction Section manages the Regional Pavement Maintenance Program. We invite all pavement owners in Summit County to join in joint projects for common roadway maintenance work types. The goal is to achieve savings through economy of scale and standardization of specifications.

The individual entities develop their own scopes and provide their own inspection. This office condenses the numerous smaller projects into larger projects and advertises, awards, and administers the projects. In 2023, 12 individual local governments participated. 30 individual projects were combined into nine larger projects worth \$7.46 million.

<b>Regional Pavement Maintenance Program</b>	SCE Cost	Other Cost	Total Cost
405 Motor Paving	\$ 785,562.10	\$ 1,270,056.00	\$ 2,055,618.10
422 Chip Seal	\$ 235,421.97	\$ 249,293.04	\$ 484,715.01
448 North	\$ 1,342,881.20	\$ 1,574,576.24	\$ 2,917,457.44
448 South	\$ 577,630.14	\$ 222,584.94	\$ 800,215.08
Asphalt Crack Sealing	\$ 77,218.36	\$ 64,463.76	\$ 141,682.12
Asphalt Rejuvenation	\$ 114,258.59	\$ 35,163.10	\$ 149,421.69
Concrete Pavement Repair	\$ -	\$ 243,264.71	\$ 243,264.71
Catch Basin Repair	\$ -	\$ 125,964.50	\$ 125,964.50
Guardrail Repair/Upgrade	\$ 243,264.71	\$ -	\$ 243,264.71
Pavement Marking	\$ 238,190.09	\$ 58,254.75	\$ 296,444.84
<b>Total for Regional Pavement Maintenance Program</b>	<b>\$ 3,614,427.16</b>	<b>\$ 3,843,621.04</b>	<b>\$ 7,458,048.20</b>

### **Permitting:**

The County issued 109 road opening permits, 16 special hauling permits, 6 special use permits, and 22 grading permits (Grading permits are now required for new homes, addition, major landscaping projects, and commercial site construction.)

# Engineering Division Construction Section

The Construction Section provides assistance as requested by townships and various other municipalities, which may include review of construction documents and plans, preparation of cost estimates and bid documents, inspection of construction activities and contract administration. This Section also performs annual inspection of bridges, culverts and roads. In addition the Construction department administers permits for road openings and closings, special hauling, ditch enclosures, and driveway culverts.

## Utility Coordination

Existing utilities, private and public, overhead and underground, conflict with almost every construction project. Our Utility Coordinator is responsible to ensure that all conflicts are identified and addressed before construction begins. This entails detailed reviews of preliminary construction plans, visits to the proposed construction site, and constant coordination with representatives of the utility companies. In addition, to coordinating utilities for this office, our Utility Coordinator also performs this work for other government agencies that do not have a Utility Coordinator.



Construction of the Cuyahoga Valley Pedestrian Bridge

Existing utilities, private and public, overhead and underground, conflict with almost every construction project. Our Utility Coordinator is responsible to ensure that all conflicts are identified and addressed before construction begins. This entails detailed reviews of preliminary construction plans, visits to the proposed construction site, and constant coordination with representatives of the utility companies. In addition, to coordinating utilities for this office, our Utility Coordinator also performs this work for other government agencies that do not have a Utility Coordinator.

## Right-of-Way (ROW) Acquisition

Many projects require the acquisition of additional property from adjacent landowners. This process is tightly regulated by state and federal requirements.

Our office is highly fortunate to have a dedicated ROW Manager to handle our right-of-way acquisitions. He personally does the acquisition himself or oversees consultants who perform the work on our behalf. Furthermore, our ROW Manager is THE ONLY person in the entire state to be qualified by the Ohio Department of Transportation to perform all phases of property acquisition (title research, appraisals, appraisal review, negotiations, and closings). He also possesses an Ohio Certified Residential Appraiser License.

In addition, to acquiring property for this office, he has also acquired property for other government agencies that do not have acquisition capabilities.

## Construction Management, Inspection, and Materials Testing

Our project coordinators and construction inspectors work with the general contractors to ensure that work is performed in conformance with the contract documents. In 2023, the Construction Section managed 21 projects worth \$19,223,328.01.

## Annual Bridge Inspections

The Ohio Revised Code requires that each bridge in Ohio is inspected annually. Our Construction Inspectors are also ODOT qualified Bridge Inspectors and annually verify the material condition of our 280 bridges. Additionally, Summit Metro Parks hires us to manage the inventory and provide annual inspection for 40 of their bridges.

# Engineering Division

## Survey Section

The Summit County Engineer's Survey Section has a field crew working under the direct supervision of a Professional Surveyor, having over 30 years of survey experience. This experience provides a high level of consistency and reliability. The SCE's in-house surveyors provide flexibility for instant response to changes in project priorities.



The Survey Section performs surveying for internal departments and townships and other local government agencies. They use a Trimble S5 robotic total station with Trimble TSC data collectors and Survey Pro software to collect survey data. They also use a 2016 Nikon Nivo total station with reflectorless technology to serve as backup unit. Computers with Civil 3D/AutoCAD and specialized survey software are used to process and analyze the field data to create the base mapping for design, drawings, and field staking purposes. The Survey Section has two Spectra 85 dual frequency GPS receivers to establish horizontal and vertical control on jobsites. The receivers can utilize the Ohio Department of Transportation's (ODOT) Continuously Operating Reference Stations (CORS)/Virtual Reference System (VRS), which provides real time coordinates with survey accuracy. The Survey Section annually prepares and adheres to an efficient and cost-effective budget.

The Survey Section provided various surveying services including record research, plan review, topographical mapping, field staking, calculations to determine road centerline, right-of-way lines, property lines, and the preparation of legal descriptions for easement acquisitions.

The Survey Section provided:

- Surveying to set survey control or to maintain existing survey pins in survey roadway monument boxes defining the centerline of right of way of 12 county highways during road resurfacing projects.
- Surveying to provide centerline of right of way information and plan review for various projects.
- Surveying to determine centerline of right of way, surrounding topography and provide base mapping for over 22,000 linear feet of roadway or ditch. Projects included:
  - Albrecht Road, Springfield
  - Portage Lakes Drive Culvert 075-0082, Coventry
  - Medina Line Culvert 82686, Bath
  - Myersville Road Culvert, Springfield
  - Akron Peninsula Road Culvert, Boston
  - Tow Path Subdivision Drainage, Sagamore Hills
  - Valley View Road, Sagamore Hills
- Surveying projects to determine the centerline or right of way or easements. Projects included:
  - Eastern Road Culvert Replacement, Coventry
  - Heritage Woods Subd., Copley
  - Yellow Creek Road Slide, Bath
  - Minor Road Bridge COP-207-0091, Copley
  - Vanderhoof Bridge FRA-215-0310, New Franklin
  - Wheatley Road Bridge RFT-174-0250, Richfield
  - Glenwood Drive Bridge TWC-126-0114, Twinsburg

# Engineering Division

## Survey Section

The Survey Section provided (continued):

- Assistance to the Subdivision Engineer by reviewing proposed major subdivision/replat final plats.
  - Review of survey drawings and associated legal descriptions for parcel splits or consolidations to help ensure requirements of state and local standards are met.
- Research assistance to surveyors, engineers, and the public for various public and private projects.



### RECORDS ONLINE

The Survey Section maintains a database of geodetic survey monumentation that comprises the foundation of the Summit County GIS Program. There are over 900 survey monuments with accurate horizontal and/or vertical data. The Survey Section continues to inventory these monuments to update information on the data sheets. The Survey Section also maintains a "digital records room" that can be accessed anytime from the internet. Scanned images of surveys, subdivisions and subdivision improvement plans, geodetic monuments, and road records, all from the Summit County Engineer's records archive, are constantly updated and made available through the "FOR SURVEYORS" section on the Summit County Engineer website:

<https://www.summitengineer.net/pages/For-Surveyors.html>

### PUBLIC RECORDS ON FILE

- Geodetic control in Summit County used to reference the GIS
- Records for County and Township Roads
- Road improvement plans
- Road Dedication and Vacation Plats
- Summit County survey field notes
- Survey Drawings of Minor Subdivisions
- Records of Summit County Surveys
- State Road Improvement Plans
- Major Subdivision Plats and Improvement Plans in unincorporated areas
- Ditch and Drainage Records
- Summit County Bridge Records
- Cemetery Maps
- Survey Maps of Ohio-Erie Canal



# Administration Division

## Human Resource Section

The Human Resource functions of the Engineer’s Office are coordinated through our Personnel Administrator and the County Department of Human Resources which reports to the County Executive. The Personnel Administrator assures compliance with all rules and policies established by the County Human Resource Commission, the County Department of Human Resources and any federal, state or county labor laws. The Personnel Administrator also maintains an employee database for all employees of the County Engineer.

In 2023, we had a net increase of 1 employee. The Engineering division is actively working to fill a surveyor position as well as some inspector positions.

A new set of contracts were negotiated in 2021 for all 3 bargaining units. Bargaining unit employees make up over 68% of our total workforce. Heavy Equipment Operators (3 employees) are represented by the International Union of Operating Engineers (IUOE). The remaining bargaining are represented by 2 units of AFSCME. The Clerical and Technical unit includes employees from the Administration and Engineering divisions (9 employees). The Maintenance division employees (except the Heavy Equipment Operators) are included in ASFCME’s Service and Maintenance unit (55 employees).

<b>Employees by Employment Status</b>			
	<b>2021</b>	<b>2022</b>	<b>2023</b>
Bargaining	66	67	67
Non-Bargaining	22	18	20
Unclassified	12	13	12
<b>Total</b>	<b>100</b>	<b>98</b>	<b>99</b>

<b>Employees by Division</b>			
	<b>2021</b>	<b>2022</b>	<b>2023</b>
<b>Maintenance</b>	64	65	65
<b>Engineering</b>	28	26	27
<b>Administration</b>	8	7	7
<b>Total</b>	<b>100</b>	<b>98</b>	<b>99</b>

# Finance Section

## Operating Expenditures

Total operating expenditures increased slightly by 2% in 2023. Personnel accounted for approximately 77% of total operating costs. Our office is essentially debt free as of the end of 2022. The only remaining debt service is due to our office's portion of general fund debt for the county's radio upgrade project which will be paid off in 2024.

Operating Expenditures	2021	2022	2023
Personnel	\$9,119,844	\$9,012,151	\$9,398,764
Operations	\$3,010,920	\$2,749,040	\$2,793,560
Debt Service	\$303,463	\$5,951	\$5,766
<b>Total</b>	<b>\$12,434,227</b>	<b>\$11,965,142</b>	<b>\$12,198,090</b>

## Capital Improvement Program

In 2023, we spent \$5.4 million in local funds in capital project, a reduction over the previous year, however a total of \$14 million was expended total in 2023 combining local and outside grant funding. A major reason for the increase in outside funding is the Bipartisan Infrastructure Law, which moved several bridges to construction in 2023 and 100% of those costs were covered by federal funds.

## Revenue

Total revenue from all sources (including non-tax revenue) decreased by 2% from 2022 to 2023. Alarmingly, the License Tax and Reimbursements were down by \$1,084,423 from the previous year. Tax revenue was up by 5.2%, an increase of \$190,525.00. If this trend continues, we will need to reduce our capital plan in 2024.

Tax Revenue			
	2021	2022	2023
<b>License Taxes</b>	\$15,872,209	\$16,095,777	\$15,011,354
<b>Gasoline Tax</b>	\$3,739,694	\$3,636,628	\$3,827,153
<b>Total</b>	<b>\$19,611,903</b>	<b>\$19,732,405</b>	<b>\$18,838,507</b>

# Current and Upcoming Projects

## ACTIVE Bridge Projects

- **North Revere Road Bridge over Revere Run:** This \$583K project will replace the corrugated pipe bridge built in 1965 with a precast box culvert. Kenmore Construction will be completing this project in October of 2023. Bath Township
- **Granger Road Bridge:** This project includes the replacement of the existing box beam bridge carrying Granger Road over Yellow Creek approximately 0.70 miles west of Cleveland Massillon Road. The project has been awarded to a contractor and will start construction as soon as Dominion East Ohio Gas relocates an existing service line. The project will be completed in 2024. Bath Township
- **Steels Corner Road Bridge Rehabilitation Project:** This \$1.05 million project will repair and resurface this 1,052 foot long bridge at the western edge of Stow. The plan calls for the removal and replacement of the wearing surface, waterproofing and patching the bridge deck/top of beams, new expansion joints, repairs to the parapets encasing the piling and other miscellaneous work. To facilitate the work, the east bound traffic will be re-routed, and west bound traffic will be maintained. Work will take about 5 months to complete. City of Stow
- **Ira Road Bridge Project:** Located about ¾ mile east of Hametown Road, this project will replace the three side-by-side-by-side metal culvert pipes with a single 4 sided concrete box culvert approximately 18' wide x 6' high. The cost of this replacement culvert is approximately \$684K and is funded with Bipartisan Infrastructure Law (BIL) a.k.a. the Infrastructure Investment and Jobs Act (IIJA). This project will start construction in the spring of 2024. Bath Township
- **Minor Rd Bridge :** This project includes replacement of the existing single span reinforced concrete slab structure carrying Minor Road (CR 207) over a branch of Wolf Creek. The structure shall be replaced with a single span reinforced concrete slab with approach slab or 4-side precast box culvert. Work also includes rock channel protection, new embankment and full-depth pavement on/adjacent to structure, erosion protection, pavement marking, and minimal approach roadway work (resurfacing, drainage, guardrail, etc.) necessary to tie-in to existing. It is scheduled for 2024 and is located just West of S. Hametown Road in Copley Township.
- **Medina Line Rd Bridge:** This project includes replacement of the existing single span reinforced concrete slab structure carrying Medina Line Road (CR 2) over Mohler Ditch. The structure shall be replaced with a single span reinforced concrete slab with approach slab or 4-side precast box culvert. Work also includes rock channel protection, new embankment and full-depth pavement on/adjacent to structure, erosion protection, pavement marking, and minimal approach roadway work (resurfacing, drainage, guardrail, etc.) necessary to tie-in to existing. It is scheduled for 2024 and is located just South of Johnson Rd in the City of Norton.
- **Vanderhoof Rd Bridge:** This project includes replacement of the existing single-span reinforced concrete slab structure carrying Vanderhoof Road (CR 215) over a Branch of Tuscarawas River. The structure shall be replaced with a single span reinforced concrete slab with approach slab or 4-side precast box culvert. Work also includes rock channel protection, new embankment and full-depth pavement on/adjacent to structure, erosion protection, pavement marking, and minimal approach roadway work (resurfacing, drainage, guardrail, etc.) necessary to tie-in to existing. It is scheduled for 2024 and is located just east of Van Buren Road in New Franklin.

# Current and Upcoming Projects

## UPCOMING Bridge Projects

- **Snyder Avenue Bridge Project:** Located in the City of Barberton at the Tuscarawas River, this project will replace the existing 61-foot long bridge that was originally built in 1920 and previously rehabilitated in 1963. The cost of this replacement bridge is approximately \$1.736 million and is funded with Bipartisan Infrastructure Law (BIL) a.k.a. the Infrastructure Investment and Jobs Act (IIJA). This project will start construction in the spring of 2025. City of Barberton
- **Brecksville Road Bridge over Furnace Run:** Located on Brecksville Road, north of Townsend Road and south of the I-77 interchange, this project will replace the existing, 91-year-old bridge over Furnace Run with an arch-type concrete structure. This project will be under construction in 2025. Village of Richfield
- **High Level Bridge:** Replace the existing structure with an all-new structure that would be on an offset alignment to allow the existing structure to carry traffic while the new structure is built. There would be minimal disruption to traffic during construction. Additional right of way would be needed to construct the new structure. The new structure would carry four lanes of traffic and two sidewalks.
- **Akron-Peninsula Rd Bridge:** This \$1,480,000 project will be a complete replacement of the existing 28 ft long by 34 ft wide Akron Peninsula Rd. Bridge over Salt Run. It is scheduled for 2026 and is located just south of Truxell Road in Boston Township.
- **West Highland Rd Bridge:** This \$3,000,000 project will be a complete replacement of the existing prestressed concrete box beam structure. It is scheduled for 2026 and is located just east of Riverview Road in Sagamore Hills Township.
- **Glenwood Dr Bridge:** This \$3,476,000 project will be a complete replacement of the existing structure. It is scheduled for 2027 and is located just West of Gary Drive in Twinsburg Township.

## ACTIVE Roadway Projects

- **Canton Road Resurfacing:** In-House Design Complete. Resurfacing of Canton Road from Stark Co.Line to Tisen Road. The project will be bid in March 2024. The County received \$528,000 in Federal Funding for Construction. Construction Cost \$972,000. Springfield Township
- **Ravenna Rd. Part 2:** Environmental Design Group prepared improvement plans for the resurfacing of Ravenna Rd from the Summit/Portage County border to Old Mill Road. 4-foot wide shoulders will be added. The project will be bid in 2024. The County received \$600,000 in Federal Funding for Construction. Design Cost \$85,000, Construction Cost \$1.00 Million. City of Hudson & Twinsburg Township

# Current and Upcoming Projects

## PENDING Roadway Projects

- **Albrecht Avenue Resurfacing:** In-House Design Complete. Resurfacing of Albrecht Road from Akron Corp. Line to State Route 532. 4-foot wide shoulders will be added. The project will be bid in March 2027. The County received \$875,000 in Federal Funding for Construction. Construction Cost \$2.003 Million. Springfield Township & Village of Mogadore
- **South Main Street Resurfacing:** This resurfacing project, estimated at \$1.255 million, will repair and resurface approximately 1.55 miles of South Main Street from the City of Green north Corporation Limit to Warner Road. The project is under design and is scheduled for construction in 2027, however AMATS (our funding partner) is asking us to expedite the project in case one of the other jobs they are funding fails to meet their completion date. Coventry Township
- **Valley View Road Slide:** This project will repair an existing landslide and resurface approximately 2 miles of Valley View Road from the Cuyahoga County Line to Dunham Road. The plan calls for the addition of four-foot-wide shoulders where possible to increase cyclist and pedestrian safety. This \$3 million project is scheduled to be under construction in 2026. Sagamore Hills Township
- **Valley View Road Gap:** This project will repair and resurface approximately 1.45 miles of Valley View Road from just west of Olde Eight Road to Dunham Road. The plan will call for the addition of wider shoulders where possible to increase cyclist and pedestrian safety. The project, estimated at \$1.25 million, is under design and is scheduled for construction in 2027, however AMATS (our funding partner) is asking us to expedite the project in case one of the other jobs they are funding fails to meet their completion date. Sagamore Hills Township & Northfield Center Township
- **Cleveland-Massillon Road Sidewalk:** Consultant prepared plans to create a new sidewalk along the west side of Cleveland Massillon Road from Medina Road to Spring-side Drive. Plans were completed in 2023, right of way acquisitions to be completed in 2024 and project to be sold in the summer of 2024. Federal Funding for Design, Right of Way and Construction totaled \$520,000. Construction Cost estimated at \$515,000 – 80% federal and 20% Township. Bath Township
- **Valley View Rd. Part 2** Sagamore Hills Township: Environmental Design Group prepared improvement plans for the resurfacing of Valley View Road from Olde 8 to Dunham Road. 4-foot wide shoulders will be added. The project will be bid between July 2026 and July 2027. The County received \$787,500 in Federal Funding for Construction. Design Cost \$88,000, Construction Cost \$1.52 Million.
- **S Main Street:** Project to resurface from the bridge over the reservoir to Warner Road intersection in early 2023. We received \$700,000 (the AMATS maximum) plus \$87,500 from Toll Revenue Credit for a total of \$787,500 for getting the project designed ahead of schedule. We estimate the job at \$1.64 million. That job has a sale date of March 2027. Coventry Township.

# Current and Upcoming Projects

## PENDING Roadway Projects (Con't)

- **S Main Street:** Project for pavement replacement, sidewalk replacement, traffic signal, and bridge replacement that starts at Portage Lakes Drive and extends past the Warner Road intersection clear thru to Axline Drive. The local matching funds will total about \$1.5 million, for a total project cost of \$7.5 million. About 18% of the project is in the City of Akron and we have advised them that we will be seeking funds from them. Coventry Township.
- **Martin Road:** In-house design and construction. Plate piles installed on Martin Road to repair landslide between Ira Road and Shade Road. Material cost under \$50,000. Bath Township
- **Yellow Creek Road:** The SCE had S&ME, Inc. install an inclinometer. On the north side of Yellow Creek Road just west of Sand Run Road. S&ME are taking readings and monitoring the landslide to determine a repair type. Failure plane is approximately 23 feet below ground level. Installation cost \$ 20,000. Bath Township
- **Springside Drive:** Consultant prepared plans to create a new sidewalk along the west/north side of Springside Drive from Medina Road to Cleveland Massillon Road. Plans were completed in 2023, no right of way acquisition required. Project to be sold in the summer of 2026 (SFY 27). Bath Township

## Surface Water Management District Projects

- **General Consultation Services:** KE McCartney's General Services Contract to provide engineering services for various storm water projects. Costs \$100,000.
- **Cuyahoga River Watershed Study:** Authorized Tetra Tech to prepare a regional study of the portion of the Cuyahoga River Watershed including the Pond Brook and Aurora Lake Watersheds, located within the watershed district. The study will make recommendations to improve water quality and reduce runoff and erosion in the watershed. Study Costs \$352,800.
- **Tuscarawas River Watershed Study:** Authorized CEC to prepare a regional study of the portion of the Tuscarawas River Watershed located within the watershed district. The study will make recommendations to improve water quality and reduce runoff and erosion in the watershed. Study Costs \$525,000
- **Copley Ditch and Black Pond Outlet:** EnviroScience finalized a study and preliminary plan to improve water quality and reduce runoff and erosion along Copley Ditch and Black Pond Outlet. The cost of the study was \$100,000. The final design will be advanced in 2024 as part of the Copley Meadows area study.

# Current and Upcoming Projects

## Surface Water Management District Projects (Con't)

- **Coventry Twp-Penguin Area/Hinman Ditch:** Authorized Environmental Design Group to prepare a study for the Penguin Drive area to address drainage and erosion concerns. The study will be completed in 2024. Design Costs \$90,000
- **Springfield Lake Outlet Study:** Authorized DLZ to prepare a study of the Springfield Lake Outlet and Outlet Channel. The study will be completed in 2024. Study Costs \$180,000
- **Springfield Lake Watershed Study:** Authorized CT Consultants to prepare a study and preliminary plan to improve water quality and reduce runoff and erosion within the Springfield Lake Watershed. The study will be completed in 2024. Study Costs \$200,000
- **Northfield Center Twp Dorwick Ditch Area:** Authorized B&N to prepare a study and preliminary plan to improve water quality and reduce runoff and erosion near the Dorwick and Marwyck Drive areas. The study will be completed in 2024 and advanced to final design. Study Costs \$242,000
- **Wye Rd Phase 1 and 2:** This project will be done in two phases. Phase 1 will modify existing stormwater management basins and install improved storm sewers and swales at two other locations in the Sanctuary of Bath Estates. Phase 2 will add best management practices such as step-pools, cascades, and riffles at four locations along the stream in the ravine at the northern edge of the Sanctuary of Bath Estates.
- **Idle Brook:** This project will construct bankfull wetlands alongside Idle Brook, Yellow Creek and West Fork to provide for up to 46 acre-feet of floodplain storage volume. This will reduce flooding downstream, reduce flow velocities in the stream (reducing erosion) and create improved habitat for flora and fauna.
- **Chaffee:** Sagamore Hills Twp. The County has selected a consultant and is in the early stages of scope/fee negotiations. The study will make recommendations to improve water quality and reduce runoff and erosion in the watershed.
- **Marwell/Darrow:** Twinsburg Twp. The County has selected a consultant and is in the early stages of scope/fee negotiations. The study will make recommendations to improve water quality and reduce runoff and erosion in the watershed
- **Copley Meadows & Copley Ditch/Black Pond Outlet:** Preliminary & finals design of storm water detention basins, wetland areas and other practices for the Copley Meadows area that will reduce peak flows and pollutants in stormwater runoff flowing into Copley Ditch. The consultant will also prepare the final design and construction drawings for the Copley Ditch and Black Pond Outlet improvements, based on the improvements recommended in the Copley Ditch Study. Cost \$565,000. The plans will be completed in 2025.

# **Alan Brubaker, P.E., P.S. Summit County Engineer**

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**For more information on projects of the Summit County Engineer's Office please contact us or check our website:**

**[www.summitengineer.net](http://www.summitengineer.net)**

## **Pothole Season**

**Summit County Public Services Department is open Monday - Friday 7:30 a.m. – 4:00 p.m. for reporting any potential problems or concerns affecting the roadways throughout the County.**

**We also have a 24/7 reporting system to gather information reports of roadway problems. To report a pothole or roadway defect call 330-643-2860.**

## **Surface Water Management Program**

**Phone: (330) 643-8010**

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**Web: [www.summitengineer.net/services/surface-water-management](http://www.summitengineer.net/services/surface-water-management)**



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