

2020 ANNUAL REPORT

PREPARED BY:
ALAN BRUBAKER, P.E., P.S.



Riverview Road over Furnace Run



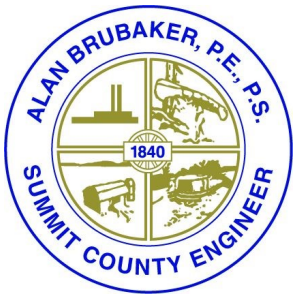
Wright Road Bridge Beam Setting

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, 2021

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 2020. This report reviews the activities of this Office for 2020, 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. In 2020, tax revenue was approximately \$18.7 million, a 1% decrease from the previous year. In 2020, due to uncertainty about COVID-19 impacts on revenue, capital expenses were approximately \$5.6 million, a decrease of \$2.9 million from the previous year. The gas tax collection increased by 23% but it was not enough to offset the sharp decrease in license tax revenues. We are hopeful that the license tax revenue will rebound in 2021 as the state reopens fully and we can once again invest more heavily in our capital program.

2020 was our twelfth year in office and by far our most challenging year. The COVID-19 pandemic resulted in a pause to some of our capital projects, dramatically reduced the license tax collection amounts, and required near constant changes in personnel policy, from instituting work-from-home to procuring and mandating PPE. I'm proud to report SCE employees stepped up to the challenge, either by diligently completing their work from home or by road workers following new safety protocols while still filling potholes and repairing bridges for Summit County motorists.

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 for Bath Township starting in June 2018.
- 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.
- 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, Engineer Conrad, Engineer Marquard, and Engineer Bennett were part of a University of Akron GradTalk panel for County Engineers in 2019.

**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

SCE has a new website! 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
- County maps
- Road and bridge permit forms
- Township services forms

Your Summit County Engineer maintains:

- Over 360 lane miles of roads - in all seasons
- Approximately 280 bridges throughout the County - and inspects each one, **every** year
- 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

New Website for 2020

Summit County Engineer Alan Brubaker, PE, PS, unveiled a new website on Wednesday, April 1, 2020. The updated website includes a project search function, scrolling alert features, and streamlined information for residents, cities and townships, contractors, developers, and surveyors. In addition, there are multiple online forms that website users can fill out and immediately reach the appropriate contact person.

Forms:

- General Contact Form – Use the dropdown box to determine the nature of the question or concern and send your comments directly to the appropriate contact person.
- Township Request for Engineering Services Form – This form is for townships seeking engineering services from the Summit County Engineer's Office.
- Permissive License Fee Allocation Form – This form is for cities seeking reimbursement of the Permissive License funds the County Engineer's Office administers.
- Surface Water Management District Forms
 - Appeals Form
 - ERU Credit Form
 - Drainage Concern Form
- Miniature Bridge Building Registration Forms – Teachers can register their high school's team, students can fill out the release form, and apply for scholarships directly from the website.

reCAPTCHA software, necessary for users to be able to send questions or concerns through the website, could no longer be updated on the previous website, google mapping software for projects was no longer working, and it had no special mobile view. The new website can be viewed on mobile devices, has increased security, and is much more user friendly.

The website address is www.summitengineer.net.

What Changed With COVID-19?

As of April 15, 2021, the Summit County Engineer's Office is still closed to the public. The County Engineer asked all citizens, contractors, and developers to conduct their business with the County Engineer's Office through phone (330-643-2860), fax (330-762-7829), and email (general information email: info@summitengineer.net)

A drop off area was established in the lobby of the main administration building at 538 East South Street for any consultants, contractors or developers needing to hand deliver plans and permits to the office.

Non-essential, in person meetings are still cancelled. SCE now has a conference call line and a Zoom account to handle any meetings that need to be done face-to-face.

From March 18, 2020 until June 1, 2020, non-essential personnel were placed on paid administrative leave. Maintenance workers alternated weeks during that time, so roads could still be maintained but fewer people were in the office at once. In June, all employees returned to work, however work-from-home is still an option for some employees.

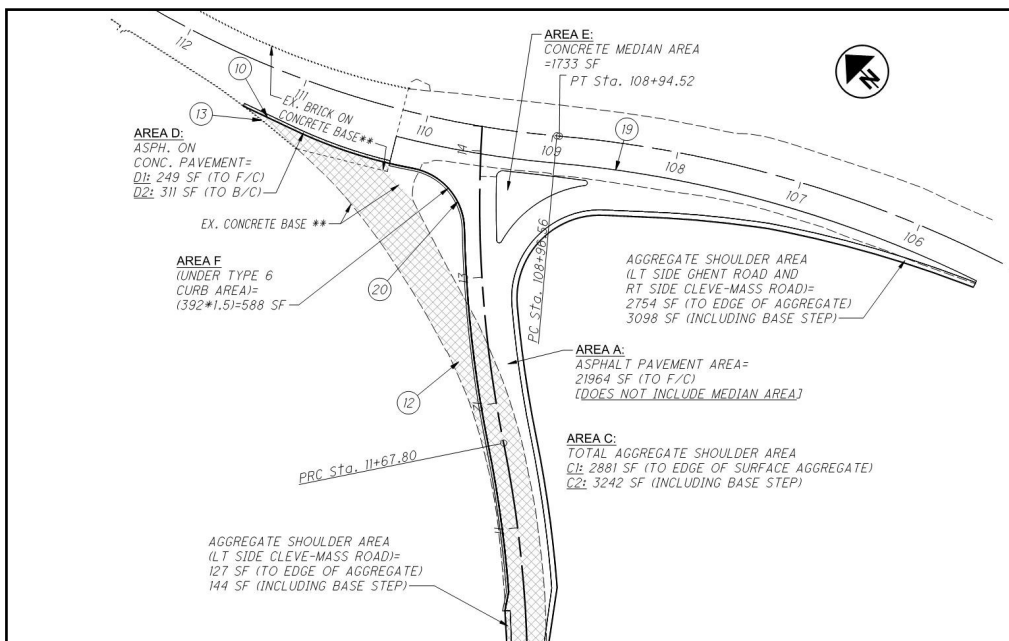
SCE also instituted a temperature policy, work-from-home policy, vacation return to work policy, and many more. SCE employees rose to the occasion to keep themselves and their co-workers safe. While we had an individual case of COVID-19 here and there, there were no outbreaks attributable to the office. Thank you to our SCE employees.

Notable Events

Cleveland-Massillon at Ghent Intersection Improvement

This project involved realigning the intersection from a "Y" shaped intersection to the more traditional "T" shaped intersection. The project also included adding a continuous right turn lane from Cleveland Massillon Road to Ghent Road. This was one of our first Public Private Partnership projects, with funding coming from the Embassy Parkway Landowner's Association, Bath Township, Transportation Improvement District funds, and SCE funds.

This project was difficult from the start of construction. From bad soils, to nearly a year long delay in the delivery of traffic light signal poles, to trying for weeks to get the utility company to hook up the new signals to the power source, work on this intersection improvement is finally substantially complete. Though the contract is still open and the contractor has a few more signs to install so maybe we shouldn't speak so soon.



Riverview Road Bridge over Slipper Run

Speaking of difficulties, on May 25, 2020, a heavy rain storm knocked a tree into Slipper Run. The water surge sent the tree downstream, to get stuck under the Riverview Road Bridge. Rising water caused the tree to bend the culvert pipe and critically damage the bridge embankment. The road was closed and Summit County Council declared the situation an emergency in order to suspend regular contracting rules and allow our office to replace the bridge as soon as possible. SCE obtained emergency project grant funding for \$233,000 of the \$330,000 project. The bridge was reopened less than 5 months later on October 5, 2020.



Public Services Division

The Public Services Division is responsible for maintaining over 360 lane miles of county roadway, 281 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, roadside mowing, 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 salt storage facilities in Lakemore and a new facility in Akron at the Copley Road interchange.

In 2020 a total of 838 requests for service were received and completed throughout the County for roadside mowing, ditching, berm cutting, pot hole repairs, tree trimming, weed control and asphalt patching. The department used approximately 2,000 tons of stone, 560 feet of culvert pipe (various sizes), 1,300 tons of asphalt and 7,250 tons of salt for snow and ice control.



Bath Country Estates Retention Pond Restoration

Public Services Division

Our South District replaced culverts on S. Turkeyfoot, Krumroy Road, Killian Road, Sanitarium Road, and Pressler Road. They also performed culvert repairs and drainage improvements on S. Main Street, Canton Road, State Mill Road, and Killian Road. In addition, roadside mowing, mail-box repairs, bridge repair, ditching, pavement repairs, tree trimming, and weed control were also performed throughout the South District.

Our North District performed culvert replacements on Revere Road, Everett Road, Sand Run Road, Highland Road, and Revere Road. Culvert repairs and drainage improvements were done on Cleveland-Massillon, Riverview Road, Medina Line, Yellow Creek, Wheatley Road, and Akron-Cleveland Road. In addition, roadside mowing, mailbox repairs, bridge repair, ditching, culvert cleaning, berm cutting, pavement repairs, tree trimming, and weed control were also performed throughout the North District.

Our Ditch Crew performed stormwater basin repair projects in the following subdivisions: Bath Country Estates, Pin Oak Circle, Crystal Shores, Bradford Park, Sandstone, and Hawthorne Ridge. In addition, they performed routine maintenance and repairs on other various areas throughout Summit County.



Yellow Creek Road Erosion Repair Project

Guardrail Safety

In 2019 and early 2020, the Public Service Department placed reflectors on every piece of guardrail on County owned roads and bridges. These reflectors have increased safety on County roads, especially those in rural areas with little street lighting. It alerts drivers that curves, steep embankments, or bridges are up ahead. Thank you to the Public Service employees for undertaking such a major project and important project.

Equipment Purchases

	Amount
2 2021 Ford F-150 Single Cab Pick Up Trucks	\$56,385.84
1 2021 Ford F-150 Crew Cab Pick Up Truck	\$34,095.04
1 MicroTraxx Swing Loader	\$114,713.00
1 CAT 926M Loader	\$166,359.00
1 Stainless Steel Salt Conveyor	\$122,316.44

Material Usage

	2016	2017	2018	2019	2020
Salt (in tons)	12,000	11,500	13,200	10,200	7,250
Stone (in tons)	1,200	1,400	2,400	3,000	2,000
Asphalt (in tons)	720	675	700	1,100	1,300
Culvert Pipe (in feet)	700	650	400	420	560

Public Services Division

Bridge Section



Yellow Creek Road Bridge
Erosion Control Project

In 2020, 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 life-line of our commerce. The following highlighted projects demonstrate work performed by this crew in 2020.

Bridge Maintenance Completed

- Barber Rd over Wolf Creek – Bridge expansion joint and approach pavement repairs.
- Bath Rd over Yellow Creek in City of Cuyahoga Falls – Streambank erosion repairs at southeast corner of bridge.
- Hawkins Rd over East Branch Cuyahoga River in Richfield Township – Erosion repairs to bridge foundation, streambank and roadside ditches. Repairs to concrete beams.
- N. Main Street High Level Bridge over Cuyahoga River in City of Akron – Semi-annual bridge maintenance and cleaning, miscellaneous repairs, and tree trimming.
- Revere Rd over Revere Run in Bath Township – Repairs to the metal pipe structure and stream erosion.
- State Rd over Mud Brook in City of Cuyahoga Falls – Repaired large void behind south abutment.
- Yellow Creek Rd over Yellow Creek in Bath Township – Extensive foundation and streambank erosion repairs. Extensive concrete repairs to bridge deck underside and piers.
- Various Bridges throughout County – Bridge railing and approach guardrail repairs and replacement and foundation and stream erosion repairs.

Upcoming Bridge Maintenance

- Bath Rd over Cuyahoga River in City of Akron – Extensive foundation and streambank erosion 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.
- Various Bridges throughout County – Bridge railing and approach guardrail repairs and replacement. Foundation and stream erosion 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 and into construction.

West Bath Road Landslide Repair

This landslide repair project began in 2020 and we estimate the road will be reopened in May of 2021. This project calls for the stabilization and repair of the landslide along West Bath Road. A slope repair will be performed on the downward slope side of the roadway and a retaining wall will be constructed on the upward slope side of the roadway. This project also will reconstruct about 600 feet of West Bath Road with a lower profile. Great Lakes Construction Company is the low bidder with a bid price of \$1,040,068.57. Construction began on November 9, 2020. The contract called for the road to be closed for 210 days.



West Bath Road Landslide Repair—Retaining Wall

Canton Road Resurfacing

This was a highway improvement project consisting of upgrading approximately 0.94 miles of Canton Rd. (CH 66) from Salmon Dr. north to the Tri-County Shopping Plaza (approximately 500 feet south of Springfield Lake Dr.). The project included milling the existing pavement, making pavement repairs as directed, and applying pavement markings. Barbicas Construction was the contractor for this \$383,821.89 project. SCE received grant funding through the Federal Surface Transportation Block Grant to cover 80% of the construction costs.

Portage Lakes Drive Resurfacing

The Summit County Engineer's office also received federal funding through the Federal Surface Transportation Program, awarded through AMATS, for the resurfacing and improvement of Portage Lakes Drive. The resurfacing, including pavement and base repairs, shoulder reconstruction, pavement markings, drainage repairs, curbing, guardrail, loop detector replacement and driveway approaches on Portage Lakes Drive from State Route 93 to Cormany Rd. Barbicas Construction was also the contractor on this \$372,968.75 project.

Cleveland-Massillon at Ridgewood Intersection Improvement

This intersection improvement project was completed in 2020. The project added a southbound right turn lane on Cleveland-Massillon from the Rothrock Circle intersection to Ridgewood Road, added an eastbound left turn lane on Ridgewood Road at the intersection and extending 400 feet west, reconstructed the traffic signal configuration, and improved drainage. This project was funded with Federal Congestion Mitigation Air Quality funds, Copley Township funds, and County funds.

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 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. The Construction Section managed a total of \$15.6 million dollars worth of projects in 2020. Below are some of the county-owned roads included in 2020's pavement maintenance program.

405 (Motor Paving)

Martin Road from Shade to Ira
Medina Line Road from Bath Road to Remsen
Hametown Road from Bath Road to Ira

422 (Chip Seal)

Swartz Road from S. Main St. to Glenmont
White Pond Drive from Copley Road to the Akron line
Dunham Road from Valley View to Sagamore Road
Krumroy Road from SR 241 to Pressler
Stimson Road from Medina Line to Cleveland-Massillon

441 (Hot Mix Asphalt)

N. Turkeyfoot Road from Vaughn Trail to S. Main Street
State Street from SR 93 to Robinson
Waterloo Road from SR 224 to Portage Line
Bath Road from Cleveland-Massillon to Allard
Southern Road from Everett to Richfield Road
Yellow Creek Road from Wye to Cleveland-Massillon
Yellow Creek Road from Yellow Creek Lane to Sand Run
Twinsburg Road from SR 91 to 270 feet east of SR 91
Killian Road from Myersville Road to Canton Road (OPWC funded project)
Canton Road from Salmon to Tri-County Plaza (STBG funded project)

Asphalt Rejuvenating

Cleveland-Massillon Road from Ira to Everett
Medina Line Road from Ridgewood to Granger
N. Turkeyfoot Road from Portage Lakes Drive to Vaughn Trail
Tisen Road from Portage Line Road to Canton Road
Twinsburg Road from SR 8 to Walters Road
Wheatley Road from I-77 North Ramp to Revere Road

Asphalt Crack Sealing Program

Crystal Lake Road from Embassy Parkway to Granger
Highland Road from Olde 8 to Macedonia line
Mayfair Road from Green line to SR 241
Olde 8 Road from SR 82 to SR 8
Riverview Road from Peninsula line to Columbia Road
Sanitarium Road from Canton Road to Portage Line Road
Summit Road from Cleveland-Massillon to Jacoby
Warner Road from La Force to Arlington

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

Home Ave. over Little Cuyahoga River in City of Akron – Total Replacement \$1.8M, single-span, prestressed concrete beam bridge with concrete deck, 74 ft long x 76 ft wide.

Riverview Rd over Furnace Run in City of Cuyahoga Falls / CVNP – Major Rehabilitation in 2020, \$1.3M, 3-span prestressed concrete box beam bridge with concrete deck, 124 ft long x 38 ft wide.

Wright Rd. over Pigeon Creek in Copley Township – Total Replacement in 2020, \$701,000, single-span prestressed concrete box beam bridge 59 ft long x 32 ft wide.

Riverview Rd. over Slipper Run in Village of Peninsula – Emergency repair in 2020, \$233,000. A 30 ft section was replaced due to storm damage of this 130 ft total length structure consisting of a stone arch, concrete box and CMP structure.

Bridge Repair Projects throughout the County:

- Bridge railing and approach guardrail replacement at three bridges (\$75,000).
- Bridge deck waterproofing and asphalt overlays at three bridges (\$75,000).

ONGOING/UPCOMING BRIDGE CONSTRUCTION

Highland Rd over Brandywine Creek in Northfield Center Township – Design/Build Major Rehabilitation Project in 2021, \$575,000, steel beam bridge with concrete deck, 77 ft long x 32 ft wide.

Revere Rd. over Revere Run in Bath Township – Design Build Total Replacement in 2021, \$400K, prestressed concrete box structure, 12 ft span x 90 ft long.

BRIDGE LOAD RATINGS

A consulting engineering firm performed a structural analysis on a total of 40 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 be posted. A total of four bridges had Weight Limit Signs removed in 2021.



Riverview Road over Furnace Run

BRIDGE INSPECTION

Summit County Bridges – Completed required annual inspections and inventory updates for all 281 bridges. SCE's Construction Inspectors are also ODOT qualified Bridge Inspectors who annually inspect / verify the material condition of the County's bridges.

In 2020, a consulting engineering firm provided annual inspection and QA/QC services on a total of 74 of the bridges. In addition, another engineering firm completed a week-long, in-depth inspection on the N. Main Street High Level Bridge which spans 200 feet above the Cuyahoga River Valley to assess the bridge's condition close-up using a hydraulic inspection crane and adapted rock-climbing techniques.

In 2021, an Underwater Inspection will be performed by a Certified Diver on seventeen of the bridges throughout the County to assess potential stream scour and foundation undermining per federal and state inspection requirements.

Summit Metro Parks – Completed the inspection of 9 vehicular bridges and 31 pedestrian and maintenance vehicle bridges for the Summit Metro Parks.

Summit County Engineer Bridge Facts

281 total bridges
119 in Townships
162 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 and Construction Design
- Institute of Transportation Engineers
- American Public Works Association—Northeast Ohio Chapter Director
- Northern Ohio Service Directors Association
- Watershed Management Association of Ohio
- International Erosion Control Association
- Urban and Regional Information Systems Association
- 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 firm 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
- Salt Subcommittee to oversee the administration of salt bidding for the Community University Education Purchasing Alliance
- 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

Engineer Brubaker also finished his term 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

2020 Drainage Projects

Copley	Cleveland-Massillon Road Storm Sewer South of SR 162	Design completed to replace deteriorated storm sewer. Work to be completed in 2021.
Coventry	Portage Lakes Drive Culvert 75-09699 @ N Turkeyfoot Road	Design completed to rehab existing box culvert over feeder canal. Work to be completed in 2021.
Northfield Center	Twinsburg Road Culvert NOR-112-13461	Design completed to replace deteriorating 60" CMP culvert with a 60" RCP culvert. Work to be completed in 2021.
Countywide	Storm Sewer Video/Inspection Contract	Countywide program to provide full inspection of inaccessible drainage systems. Inspection and cleaning to be completed for approximately 17,000 feet on four county highways to be completed in 2021.
Countywide	Summit County Stormwater Drainage Manual	Reviewed and conducted an extensive update to conform to the new Ohio EPA water quality regulations. Revised manual effective January 2020.

2020 Commercial Plan Reviews

Bath

- 1990 N. Cleveland-Massillon Building Addition
- 4655 Medina Road Office Building
- Faith Family Church - Granger Road
- Grace Church - Ghent Road
- Revere Schools Athletic Fields - Spring Valley

Northfield Center

- Dunkin - E. Aurora Road
- Jiffy Lube - E. Aurora Road

Richfield Township

- Becknell - Columbia Road
- St. Peregrine Church New Building Addition

Sagamore Hills Township

- Sagamore Animal Hospital—Valley View

Twinsburg Township

- Green Light Fabricating-Bavaria Court
- Pinewood Gardens—Ray Court
- VMI Parking Expansion—Tower Drive

Copley

- Chick-fil-A Building Addition—Flight Memorial
- Copley Senior Lifestyle Care Facility Ph. 2
- Redwood Apartments—Heritage Woods Drive
- Schulte New Building Addition—Cleve-Mass
- Studio B New Building Addition—Cleve-Mass
- Thomario's Storage Building—Jacoby Road

Coventry

- ANR Electric - State Road
- Helen Scott Builder's Shop—N. Bender Ave
- St. Francis DeSales Additional Building

Springfield

- Carmax-Chenoweth Road
- Dollar General-Massillon Road
- Jana Express-Killian Road
- Monty Enterprises-Killian Road
- Stark State CDL Training Facility-Picton Pkwy
- Storage Zone –Canton Road

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 water quality and 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. Bath Township officials opted to join in 2018 and have been pleased with the results.



Since its inception, the SWMD has collected roughly \$1,050,000 in stormwater fee revenue and spent roughly \$350,000 for preparation of two separate studies. The first study was a comprehensive analysis of the entire Yellow Creek Watershed to identify problems and propose solutions. The second study was focused on a known problem stream along Wye Road, a tributary to Yellow Creek that has flooded the Ghent area and has caused significant erosion upstream. The SWMD uses a watershed approach in its planning strategy and, from the findings in the two reports, there were some 60 potential projects identified in the Yellow Creek Watershed eligible for remediation.

Over our 3 years of operating the SWMD so far, our spending has been efficient: \$31,800 for invoice preparation and processing, \$22,400 for other administrative costs, and \$116,600 for in-house engineering to provide oversight to the consultants, project planning and funding efforts, and guidance to dozens of landowners with drainage concerns. SWMD has a current balance of almost \$600,000 as of 2/28/21, most of which is available for matching funds to attract outside funding for projects. We are pursuing several federal and state grants.

Assisting the Engineer's SWMD is a surface water advisory committee (SWAC) comprised of 7 township residents and 5 alternates. The SWAC was formed to review eligible stormwater projects and make recommendations to the County Engineer on the priority of projects to be undertaken. With the many layers of accountability and oversight, the SWMD is well poised as the best solution for stormwater management in Bath Township and the Yellow Creek Watershed as a whole. All townships, villages and cities in Summit County are invited to join the SWMD to address their local watershed problems of storm water quality and flooding.

SWMD's background, highlights, news, reports, rules, regulations, forms and more can be found on the internet at: <https://www.summitengineer.net/pages/Surface-Water-Management-District.html>

Assessed Subdivisions



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 work that cannot be paid for by our road and bridge funds. Our maintenance crews perform routine inspection and maintenance of the stormwater management facilities (SWMF) within those assessed subdivisions with known drainage issues. In addition, our crews completed major clearing, grading and repair projects at SWMFs in 8 subdivisions in 2020.

In 2020 SCE hired EnviroScience and CT Consultants to perform follow-up inspections at 51 subdivision SWMFs, and hired Davey Resource Group and Emerald Environmental to continue their programs at 72 SWMFs for invasive vegetation control and biomass removal.

In 2020 Davey Resource Group completed a natural streambank stabilization project along West Fork in the Arbour Green allotment in Bath Township to stop erosion and protect an adjacent SWMF pond.

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.

Current Design

CEAO/HSIP -- Guardrail Upgrade Countywide

Current Studies

CEAO Safety Studies -- Revere Road Speed Zone Study

Design Complete/Ready for Construction

Olde Eight/Twinsburg -- Traffic Signal

Safety Studies Completed

CEAO Safety Studies -- Guardrail Inventory

Construction Complete

Copley -- Cleve-Mass/Ridgewood Intersection (Addition of SB & EB Turn Lanes)

Springfield -- Canton Road resurfacing from Salmon to Tri-County Plaza

CEAO Safety Studies -- Pavement Marking Inventory

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.

2020 SUBDIVISION PLAN REVIEW & CONSTRUCTION INSPECTION
Arbor Chase
Blue Jaye Farm
Columbia Road Extension
Heartridge Subdivision
Heritage Centre Allotment
Hidden Ridge
Lions Park Allotment
Meadows of Wintergreen Phase 3
Preserve at Miller's Farm
Reserve at North Revere
Retreat at Liberty Lakes

2020 FINAL PLATS			
TOWNSHIP	SUBDIVISIONS	SUBLOTS	ACRES
Bath	2	3	16
Copley	3	3	9
Coventry	2	3	2
Sagamore Hills	1	13	20
Springfield	4	7	21
Twinsburg	1	31	38
TOTALS	13	60	106

2020 PRELIMINARY PLANS			
TOWNSHIP	SUBDIVISIONS	SUBLOTS	ACRES
Springfield	1	23	10
Twinsburg	1	60	23
TOTALS	2	83	33

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.

2020 Construction Projects

<u>Road Projects</u>	<u>Cost</u>
West Bath Road Landslide Repair	\$ 1,040,068.57
Cleve-Mass/Ghent Intersection Project	\$ 873,811.85
Cleve-Mass/Ridgewood Intersection Project	\$ 444,342.52
Canton Road Resurfacing	\$ 383,821.89
Portage Lakes Drive Resurfacing	\$ 349,334.77
<u>Bridge Projects</u>	<u>Cost</u>
Riverview Road over Furnace Run	\$ 1,096,668.49
Riverview Road over Slipper run	\$ 330,914.51
Wright Road over Pigeon Creek	\$ 710,523.00
<u>Drainage Projects</u>	<u>Cost</u>
Storm Sewer Cleaning and Videotaping	\$ 122,850.00



Riverview Road over Slipper Run Emergency Bridge Replacement

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 2020, 14 individual local governments participated. 37 individual projects were combined into nine larger projects worth \$7.87 Million.

Total Value of All Improvements Managed by the Construction Section: \$15,617,417.44

<u>Regional Pavement Maintenance Program</u>	<u>SCE Cost</u>	<u>Other Cost</u>	<u>Total Cost</u>
405 Motor Paving	\$ 413,043.00	\$ 1,325,808.55	\$ 1,738,851.55
Cold Constructed Asphalt Pavement	\$ 217,612.00	\$ -	\$ 217,612.00
422 Seal Coat	\$ 361,524.50	\$ 635,240.55	\$ 996,765.05
448 North	\$ 965,082.75	\$ 552,966.05	\$ 1,518,048.80
448 South	\$ 1,511,734.60	\$ 1,091,652.15	\$ 2,603,386.75
Asphalt Crack Sealing	\$ 38,928.85	\$ 83,935.84	\$ 122,864.69
Asphalt Rejuvenation	\$ 107,465.20	\$ 36,188.87	\$ 143,654.07
Concrete Pavement Repair	\$ -	\$ 294,622.00	\$ 294,622.00
Pavement Marking	\$ 177,496.10	\$ 57,466.70	\$ 234,962.80
	\$ 3,792,887.00	\$ 4,077,880.71	\$ 7,870,767.71

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.

Other Construction Projects Administered, Inspected, and Tested	
Township	Projects
Bath	4
Boston	0
Copley	4
Coventry	1
Northfield Center	1
Richfield	1
Sagamore Hills	6
Springfield	3
Twinsburg	5
Other	
City of Barberton	1
City of New Franklin	2
Village of Clinton	1
Village of Richfield	1
Summit Metro Parks	2
Total	32

Right-of-Way 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. ROW Manager is qualified by the Ohio Department of Transportation to perform all phases of property acquisition (title research, appraisals, appraisal review, negotiations, and closings). In addition, to acquiring property for this office, he has also acquired property for other government agencies that do not have acquisition capabilities.

Right-of-Way acquisition performed by this office in 2020 is as follows:

- Cleveland Massillon/Ridgewood Rd. Intersection Improvement -2 Easements
- Cleveland Massillon/Ghent Rd. Intersection Improvement -2 Easements
- Bath Rd. Landslide Repair - 3 Easements
- Wright Road Bridge Replacement -4 Easements.
- Riverview Rd. Bridge over Slipper Run -2 Easements

Construction Management, Inspection, and Materials Testing

Our project coordinators and construction inspectors work with our general contractors to ensure that work is performed in conformance with the contract documents.

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 281 bridges. Additionally, Metro Parks Serving Summit County has hired us to provide annual inspection of their 40 bridges.

Engineering Division

Survey Section

The Summit County Engineer's (SCE) Survey Section has a survey field crew and survey office personnel working under the direct supervision of a Professional Surveyor, having over 120 years of combined survey experience. Their 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 SCE performs surveying for internal departments and townships and other local government agencies. They use a Trimble S6 robotic total station and a Ranger data collector with TDS 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 and field staking purposes. The Survey Section has upgraded to 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 Receiver System (CORS)/Virtual Reference System (VRS), which provides real time coordinates having 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 pins or to maintain existing survey pins in survey roadway monument boxes defining the centerline of right of way of 10 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 26,000 linear feet of roadway. Projects include:
 - Pressler Road Ditching
 - Ira Road Ditching
 - Medina Line Ditching and Road improvements
 - Cleveland Massillon Road Storm Sewer improvements
 - Akron Cleveland Road improvements
 - Valleyview Road improvements
 - Olde 8 Road improvements
 - Granger Road Bridge BAT-079-0221
 - Brecksville Road Bridge RFV-017-2461
 - Pressler Road Bridge SPR-137-0002
 - South Main Street Bridge FRS-050-0088
 - Highland Road Bridge NOR-111-0236
 - Revere Road Bridge BAT-114-0320
 - Longmeadow SWM Pond
 - Yellow Creek Stream embankment repair
- Surveying to determine the centerline or right of way or easements.
 - Bradford Park drainage easement
 - Riverview Road over Slipper Run
 - Boston-Angola right of way
 - Brookmont – Brookwall sight distance

Engineering Division

Survey Section

The Survey Section provided (continued):

- Coordination with the Fiscal Office to properly direct certain original plats and replats to the SCE for archive.
- Coordination with Office of Information Technology Department for the installation of the most recent version of Civil 3D 2020 software for SCE surveyors and engineers and the procurement of a highly a respected local professional instructor to provide training
- Assistance to the Subdivision Engineer by reviewing proposed major subdivision/replat final plats, and by verifying that survey pins are set for the centerline of right of way and all lot corners for one subdivision to be released from performance bond.
- 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 SCE 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.

There were eight employees who left the Engineer's Office and seven new hires in 2020 for a net decrease of one employee for the year. At the end of 2020, we still had a vacancy of one heavy equipment operator, one mechanic and one surveyor. There are no current plans to replace the surveyor, but the other positions will be replaced in 2021. We had one additional maintenance worker and one new position created.

Bargaining unit employees continue to be under agreements negotiated in 2018 and represent 67% of the total workforce. Heavy Equipment Operators are represented by the International Union of Operating Engineers (IUOE). The remaining bargaining employees are represented by two units of AFSCME.

Employees by Employment Status		
	2019	2020
Bargaining	66	65
Non-Bargaining	21	20
Unclassified	11	12
Total	98	97

Employees by Division		
	2019	2020
Maintenance	64	63
Engineering	26	26
Administration	8	8
Total	98	97

Finance Section

Operating Expenditures

Overall, operating costs increased by about 2.5% in 2020 despite cuts in non-personnel operating expenses. Personnel costs continued to account for between 70% and 75% of total operating expenses. Despite the net decrease in employees for 2020, personnel costs increased by approximately 5.7% over 2019's year-end total. The increase is primarily due to the Council approved wage increase, payout settlements for those that retired, new hires and promotions. Other operating costs decreased by more than 6% as a result of lower activity due to the COVID-19 Pandemic. Debt service expenditures also continued to decline. However, the combined cost cutting measures were not sufficient to offset the increase in personnel costs.

Operating Expenditures	2019	2020
Personnel	\$8,457,534	\$8,940,900
Operations	\$2,962,226	\$2,778,105
Debt Service	\$312,558	\$308,013
Total	\$11,732,318	\$12,027,018

Capital Improvement Program

In 2020, capital program expenditures dropped significantly due to uncertainty over the impact of the COVID-19 Pandemic. Several projects were reinstated late in the year and will likely impact 2021 capital expenditures. Total capital expenses were just over \$5.6 million in 2020 down from the nearly \$8.5 million spent in 2019.

As a result of the deferred capital expenditures, our total actual expenses for the year dropped from \$20,217,593 in 2019 to \$17,165,120 in 2020. The 2020 expenses were more in line with 2018 expenses prior to the implementation of the new license tax and the state gas tax increase.

Revenue

Total revenue from all sources (including non-tax revenue) decreased by just over 1% in 2020. Our office's primary source of revenue is from vehicle license taxes and gasoline taxes. Total combined tax revenue decreased by almost 1%. License tax continued to be the primary source of revenue for our operations. In 2020, license tax revenue decreased more than 5%.

Gas tax distributions were below our initial budget projections. This shortfall was due to the COVID-19 Pandemic and its impact on vehicle miles traveled during the shutdown. However, the pandemic's impact on actual gas tax collections was more than offset by the impact of the 2019 state gas tax increase. Despite the impact of the COVID-19 Pandemic, actual gas tax distributions increased approximately 23% for the year. Unfortunately, this increase was not enough to offset the decrease in license tax collections.

Tax Revenue		
	2019	2020
License Taxes	\$15,931,291	\$15,089,409
Gasoline Tax	\$2,939,200	\$3,614,207
Total	\$18,870,491	\$18,703,616

Current and Upcoming Projects

- **West Bath Road Landslide Repair:** A \$1 million landslide stabilization project will be constructed this summer and fall. Completion is anticipated in the spring of 2021.
- **Canton Road/US 224.SR 91 improvement:** ODOT is administering this \$12.2 million intersection improvement. ODOT maintains three legs of the intersection and Summit County owns the southern leg of the intersection. Construction began in 2019 and will end in 2021.
- **Boston Mills Road Part 2:** From the Blue Hen Falls parking lot to the end of Part 1, this project will provide wider shoulders for pedestrians and bicyclists and resurface the roadway. The project is estimated to cost \$600,000 and will be under construction in 2021.
- **Cuyahoga Valley National Park Pedestrian Bridge:** Project is under a design contract to construct a new pedestrian bridge over the Cuyahoga River about 200 feet south of Boston Mills Road. The design and construction are 100% federally funded. The project will be constructed in the summer of 2022.
- **White Pond Drive Resurfacing Project:** This project will repair and resurface approximately 0.9 miles of White Pond Drive, from Copley Road to the City of Akron limit. The plan calls for the addition of four foot wide shoulders where possible to increase cyclist and pedestrian safety. The project will be done in 2021.
- **Highland Road Bridge over Brandywine Creek Rehabilitation:** Bridge No. NOR-111-0236, will be a design-build project to rehabilitate the bridge by replacing the bridge deck and approach slabs, semi-integral abutment conversion, bridge painting, guardrail upgrades and miscellaneous other work. Construction is anticipated in fall of 2021.
- **Olde 8 at Twinsburg Road Traffic Signal Installation:** This project involves the construction of a traffic signal at the intersection of Twinsburg Road and Olde 8 in Northfield Center Township, which is currently an intersection operating with a two-way stop. The traffic signal project will include the installation of loop detectors and have a battery backup and will be constructed in 2021.
- **Revere Road Bridge over Revere Run Replacement:** The project will replace the current corrugated pipe bridge (BAT-114-0320) built in 1965 with a precast box culvert. This will be a design/build project in 2021.
- **Brandywine Bridge over Brandywine Creek:** This project includes rehabilitation of the existing three-span, continuous steel beam structure (Structure No. NOR-040-0157) carrying Brandywine Rd (CR 40) over the Brandywine Creek. Rehabilitation work is planned for 2022.
- **Olde 8 Resurfacing:** Olde Eight Part 1 will run from the border of Boston Heights to the southern Highland Road intersection. Part 1 is currently scheduled to be under construction in 2022. SCE received federal Surface Transportation Block Grant funding for this. The total project cost is estimated to be \$875,000 and federal funds will cover \$700,000. This same project will install north bound and south bound left turn lanes on Olde Eight Road at the Twinsburg Road intersection and is planned for 2022.

Current and Upcoming Projects

Resurfacing Projects: Federal funds have been obtained for several resurfacing and shoulder widening projects in the county. Design firms are in the process of being hired this spring to design the following projects:

Project	From	To	Status	Sale Date	Federal Funds
Ravenna Rd Pt. 1	Twinsburg City Limits	Old Mill Rd	Design Pending	June 2021	\$700,000
Olde Eight Rd	Boston Heights Village Limits	Highland Rd.	In Design	June 2022	\$700,000
Cleve-Massillon Rd. Pt 1	Norton City Limits	North of Minor Road	In Design	March 2022	\$700,000
Cleve-Massillon Rd. Pt 2	North of Minor Road	Fairlawn City Limits	Design Pending	April 2022	\$700,000
Smith Road	Fairlawn City Limits	Sand Run Road	In Design	May 2021	\$700,000
White Pond Drive	Copley Road	Akron City Limits	In Design	May 2021	\$600,000
Valley View Road	Olde Eight	State Route 8	Design Pending	June 2022	\$300,000
Akron Cleveland Road	Cuyahoga Falls City Limits	Boston heights Village Limits	Design Pending	June 2022	\$700,000
Swartz Road	S. Main Street	Akron City Limit	Planning Phase	Summer 2023	
Ravenna Road Part 2	Old Mill Rd	Portage County Line	Planning Phase	Summer 2023	

Future Bridge Projects: Federal funds have been obtained for several of the following bridge projects. We are in the process of selecting design firms to prepare the plans.

Bridge Project	Location	Status	Sale Date	Federal Funds
Highland Road Bridge	Over Brandywine Creek	Out To Bid	April 2021	\$0
Revere Road Bridge	Over Revere Run	Design/Build Out To Bid Soon	June 2021	\$0
Brandywine Road	Over Brandywine Creek	In Design	2022	\$ 0
Granger Road	Over Yellow Creek	Planning Phase	2024	\$1,022,000
Pressler Road	Over S. Fork of Tuscarawas River	In Design	2023	\$1,000,000
Christman Road	Over Nimisila Reservoir	Consultant Selection Process	2023	\$923,400

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

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Fax: (330) 762-7829**

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

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 Contact Information Now Available

Phone: (330) 643-8010

Email: SWMD@summitengineer.net

Web: www.summitengineer.net/services/surface-water-management



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