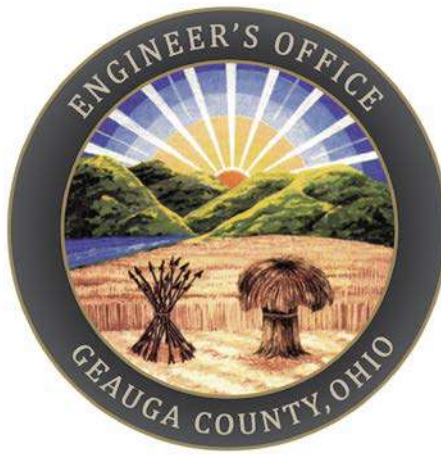


2014

Annual Report

The Geauga County Engineer's Office



2014 Annual Report

The Geauga County Engineer's Office

Executive Summary

Thank you for taking the time to review and learn about the projects and maintenance that the Geauga County Engineer's Office managed in 2014.

Please utilize this document as an overview of the Engineer's responsibilities and performance to help you better understand the essential service that the Geauga County Engineer provides to the residents of Geauga County, Ohio.

The County Engineer is required per the Ohio Revised Code, Section 5543, to perform the following duties on all County roads and all bridges on county and township roads:

- Construction
- Reconstruction
- Improvement
- Maintenance



The County Engineer is also statutorily required to perform engineering services on all township roads.

The following document details the Geauga County Engineer's successful fulfillment of those duties in 2014.

Thank you,



Joe Cattell, PE, PS

Joe Cattell, PE, PS

Joe was elected to the office of Geauga County Engineer in November 2012 and took office on January 7th, 2013.

Prior to his election, Joe served as an employee at the Geauga County Engineer's Office from 1994-2013.

Joe received his Professional Surveyor's license in 2001 and his Professional Engineer's license in 1999.

Joe is a graduate of Cleveland State University in 1993 with a B.S. in Civil Engineering.



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Cost Increases

Costs have gone up exponentially over the past two decades. The Engineer's Office has combatted these rising costs by developing a more efficient and effective workforce that is able to provide more service to residents while doing so with fewer resources. Below is a chart that explains the cost increases to the Engineer's Office over the past two decades.

Type	1996	2006	2013	2014	Percentage Increase since 2006
Aggregates	\$9.00 per ton	\$14.00 per ton	\$20.00 per ton	\$20.25 per ton	44.64%
Asphalt Hot Mix	\$23.00 per ton	\$37.50 per ton	\$62.50 per ton	\$62.50 per ton	66.67%
Cinders	\$10.50 per ton	\$11.75 per ton	\$19.00 per ton	\$19.50 per ton	65.96%
Salt	\$143,000.00	\$300,000.00	\$306,000.00	\$383,817.76	27.94%
Fuel	\$81,000.00	\$187,000.00	\$344,000.00	\$315,278.61	68.60%
Cost to Resurface 1 Mile of Road	\$90,000.00	\$125,000.00	\$180,000.00	\$225,000.00	80.00%
Cost to Reconstruct 1 Mile of Road	\$220,000.00	\$380,000.00	\$600,000.00	\$700,000.00	84.21%

While costs have increased, the Engineer's total budget has not increased proportionately to the rising costs. In fact, while the Engineer's income has increased overall since 1996, the budget has actually **decreased since 2006**.

	1996	2006	2013	2014	Decrease since 2006
Total Budget	\$7,139,629.07	\$9,647,391.70	\$9,168,806.74	\$9,624,245.63	

Accordingly, the Engineer's Office has developed more efficient methods and practices to combat the disproportionately rising costs.

Design, Funding, and Planning Department

Shane E. Hajjar, P.E., Deputy Engineer

The Design, Funding, and Planning Department is responsible for various project design duties on the 235.674 miles of county roads, 187 bridges, and 576.543 miles of township roads. This department uses professional engineering expertise to perform statutory engineering responsibilities on roads and bridges for the Geauga County Commissioners and all 16 Township Boards of Trustees within Geauga County.

The Design Department performs the following statutory duties:

- Design of all bridges, culverts, ditches and roads
- Hydraulic studies
- Preparation of improvement plans, specifications, and estimates
- Right-of-way acquisition

The most recent assessment found that ninety-six percent (96%) of all County roads have a numerical rating of six (6) or higher.

Condition Assessment of County Roads and Bridges

The County reports its roads infrastructure assets using the modified approach. The following disclosures pertain to the condition assessment and budgeted versus actual expenditure in 2014 for the preservation of these assets. The Geauga County Engineer administers a five year program for road and bridge repairs and improvements. This plan changes continually based upon conditional inspections and budget allowances.

A general overall numerical rating ranging from 0 to 9 is assigned to sections of roadways as a result of the yearly visual observations, with 0 being the lowest ranking and 9 being the highest. It is the practice of the Geauga County Engineer's Office to maintain at least eighty percent (80%) of the mileage of the county highway system at an appraisal rating of 6 or more. The most recent assessment found that ninety-six percent (96%) of all County roads have a numerical rating of 6 or higher.

ODOT Ratings	Gauga Road Mileage
Failure (0)	0
Imminent Failure (1)	0
Critical (2)	0
Serious (3)	0
Poor (4)	0
Fair (5)	10.0
Satisfactory (6)	62.3
Good (7)	57.3
Very Good (8)	60.0
Excellent (9)	46.0
Total	235.674

All 235.674 Centerline Miles of Geauga County Roads
have a condition assessment of Fair to Excellent.

County Project	Miles	Bid Amount	Final Cost
Old State Road (Shelf Widening and Drainage)	N/A	\$623,269.00	*\$628,798.75
Ravenna Road GRS Wall and 48" Culvert	N/A	\$115,773.00	\$119,013.00
Bainbridge Road (mill/overlay) (NOACA)	5.93	\$957,545.90	\$919,603.55
Mumford Road Sections E-H (resurfacing)	3.37	\$612,833.00	\$603,158.30
Woodin Road (shoulder paving/resurfacing) (OPWC)	3.47	\$747,571.70	\$737,487.97
Munn Road @ Taylor May Road Intersection	0.25	\$216,028.91	\$207,655.31
Jug Street Sections C-E (resurfacing)	1.81	\$356,724.50	\$342,613.70
Pettibone Road (resurfacing) (NOACA)	2.71	\$589,938.94	\$578,067.24
Polyester Pavement Marking 2014	N/A	\$162,279.75	\$165,540.50
Fowlers Mill Road Bridge Replacement (OPWC)	N/A	\$190,725.00	\$191,420.00
Snyder Road Bridge Replacement	N/A	\$140,639.32	\$134,758.77
2014 County Project Totals	17.54	\$4,713,329.02	\$4,628,117.09

*Final cost is estimated and includes anticipated work to complete project in FY 2015



Through conservative design and diligent project management on County road and bridge projects, Geauga County Engineer inspectors saved taxpayers a total of \$85,211.93 as the difference between the bid price and the actual project cost.

Township	Project	Miles	Bid Amount	Final Cost
Auburn	2014 Chip Seal Project	N/A	\$144,475.00	\$134,042.40
	Resurface Various Roads	2.02	\$408,135.10	\$380,214.00
Bainbridge	Resurface/Reconstruct Snyder Road	1.52	\$826,799.38	\$817,903.77
	Reconstruct Stafford Road	1.38	\$935,077.90	*\$863,203.56
	Resurface Stoneybrook Road	0.95	\$285,068.00	\$276,623.30
Chardon	Reconstruct Colburn Road (OPWC)	1.34	\$959,816.40	*\$919,250.06
	Reconstruct Roryanne & Glenmora Drives	0.76	\$408,290.00	\$398,661.43
Claridon	Resurface Spencer Street (OPWC)	0.65	\$144,965.75	\$39,182.75
	Resurface Essex Court	0.47	\$116,880.00	\$132,066.90
Munson	Resurface Various Roads	1.10	\$212,740.00	\$200,601.70
Newbury	Resurface Various Roads	0.98	\$185,747.00	\$171,823.61
Parkman	Resurface Various Roads (OPWC)	0.51	\$127,000.00	\$126,434.50
Russell	Mill/Resurface Hemlock Point (OPWC)	1.30	\$271,682.00	\$268,201.49
	Resurface Larkspur Lane	0.26	\$44,125.00	\$40,920.00
Troy	Resurface Nash Road	1.65	\$343,918.75	\$356,090.35
2014 Township Project Totals		14.89	\$5,414,720.28	\$5,125,219.82

*Final cost is estimated and includes anticipated work to complete project in FY 2015.

Through diligent project management, Geauga County Engineer inspectors on township roads saved taxpayers a total of \$289,500.46 as the difference between the bid price and the actual project cost.

Construction and Traffic Management Department

Nicholas J. Gorris, PE, Deputy Engineer

The responsibilities of the Construction & Traffic Management Department include:

- All traffic related studies including, but not limited to, volume counts, speed studies, signal warrant studies, crash review and analysis
- The management and inspection of all resurface, reconstruction, culvert, and bridge replacement on all county roads, bridges, and all township roads within the County
- The management of all Subdivision development, plan review of new and expanded subdivisions and permitting
- The issuance of all new and replacement driveway culvert permits
- The issuance and enforcement of Highway Use Permits along all county roadways, including seven (7) of the sixteen (16) townships in Geauga County
- The issuance of overweight/over-width hauling permits



Construction Management & Inspection

County forces completed the management and inspection of the following construction improvement projects:

- The application of over 87,000 tons of Hot Mix Asphalt
- Two (2) Bridge Reconstruction Projects
- Five (5) County Road Resurfacing Projects
- One (1) Intersection Safety/Site Distance Improvement Project
- One (1) County Drainage Improvement Project
- Three (3) Township Reconstruction Projects
- One (1) Township Culvert Replacement Project
- Twelve (12) Township Resurfacing Projects
- The application of over 100 miles of Roadway Restriping

COUNTY PROJECTS

Project	Start Date	Completion Date	Total Working Days
Bainbridge Road, CH 11 (Resurface)	09/15/14	10/27/14	25
Pettibone Road, CH 607 (Resurface)	09/02/14	09/12/14	8
Woodin Road, CH 25 (Widen & Resurface)	07/24/14	08/11/14	10
Old State Road, CH 6 (Drainage Improvements)	10/22/14	12/06/14	35
Pavement Marking 2014	07/24/14	08/01/14	5
Snyder Road, TR 192, Bridge Replacement	07/13/14	07/23/14	8
Jug Street, CH 46, Culvert Replacement	06/14/14	06/28/14	11
Bainbridge Road, CH 11, Culvert Replacement & Extensions	04/13/14	04/19/14	5
Jug Street, CH 46, Sections C-E (Resurface)	05/20/14	06/16/14	10
Mumford Road, CH 24, Sections E-H (Resurface)	05/27/14	06/18/14	10
Munn Road, CH 32 (Intersection Improvements)	06/24/14	08/07/14	24
Ravenna Road, CH 601, Culvert Replacement & Retaining Wall	08/06/14	08/21/14	10
Fowlers Mill Road, TR 108, Bridge Replacement	09/15/14	10/31/14	21

Construction Management & Inspection (continued)

TOWNSHIP PROJECTS

Project	Start Date	Completion Date	Total Working Days
Auburn Township, Chip Seal Project	08/07/14	08/07/14	1
Auburn Township, Resurface Various Roads	09/02/14	09/12/14	8
Bainbridge Township, Reconstruct & Resurface Snyder Road	07/24/14	09/02/14	60
Bainbridge Township, Reconstruct Stafford Road	08/04/14	11/24/14	60
Bainbridge Township, Resurface Stoneybrook Road	06/13/14	07/21/14	13
Chardon Township, Reconstruct Colburn Road	04/07/14	09/01/14	71
Chardon Township, Reconstruct Roryanna and Glenmora Drives	09/11/14	10/20/14	10
Claridon Township, Resurface Spencer Street	08/08/14	08/13/14	4
Claridon Township, Resurface Essex Court	05/22/14	06/07/14	5
Munson Township, Resurface Various Roads	07/26/14	07/22/14	4
Newbury Township, Resurface Various Roads	08/16/14	08/21/14	6
Parkman Township, Resurface Various Roads	08/06/14	08/21/14	10
Russell Township, Mill & Resurface Hemlock Point Road	08/15/14	08/26/14	6
Russell Township, Resurface Larkspur Lane	08/20/14	08/26/14	4
Thompson Township, Stocking Road Culvert Replacement	06/24/14	07/31/14	5
Troy Township, Resurface Nash Road	05/14/14	06/19/14	9

Subdivisions

New subdivision work continues to remain at low levels. In 2014, one subdivision was under active construction, no subdivisions were under maintenance guaranty, and two subdivisions were released from maintenance guaranty.

Permitting

Sixteen (16) Highway Use Permits were issued allowing private contractors to work within the road right-of-way for the installation, maintenance, and/or replacement of private infrastructure projects.

One hundred seventy-three (173) Drive Permits were issued for the installation of new driveway culverts and the replacement of existing driveway culverts.

Eight (8) "Over-Width" permits for annual, single trip and return operations were also issued.



Bridge Department

Andy Haupt, P.E., P.S., Deputy Engineer

The County Engineer is responsible for inspecting and maintaining Geauga County’s 187 bridges located on county and township roads. The County Engineer also provides bridge inspections for seven (7) of the Geauga Park District bridges that are required to be inspected yearly.

The Bridge Department, along with all other state-wide entities, have made the transition to the Ohio Department of Transportation’s Structure Management System for reporting 2014 inspection year condition ratings, work orders, and inventory updates. Through effective management of inspection data, a scheduled maintenance program is being developed to efficiently preserve and extend the life of the county’s most expensive pieces of infrastructure. The Geauga County Engineer administers a five year program for bridge repairs and improvements. This plan changes continually based upon conditional inspections and budget allowances.

Each bridge is evaluated annually based on the State and Federal Law and in accordance with Ohio Department of Transportation (ODOT) recommendations. Each bridge is given an ODOT sufficiency rating and an overall appraisal rating based upon bridge inspection rating factors. It is the practice of the County Engineer to maintain bridges in all unincorporated areas within the County. The most recent inspection assessment found that ninety-nine percent (99%) of the County bridges have a numerical rating of 5 or higher.

**99% of Geauga County Bridges Are Rated
Fair To Excellent.**

ODOT Ratings	Gauga County Bridges
Failure (0)	0
Imminent Failure (1)	0
Critical (2)	0
Serious (3)	0
Poor (4)	2
Fair (5)	9
Satisfactory (6)	29
Good (7)	32
Very Good (8)	94
Excellent (9)	21
Total	187



Survey Department

Andy Haupt, P.E., P.S., Deputy Engineer

The survey department continues to improve and develop as a team.

In 2014, the Engineer's Office acquired new survey equipment consisting of a robotic total station and GPS receiver configured to utilize the Ohio Department of Transportation's VRS (Virtual Reference Station) system which has enabled the survey department to increase efficiency and accuracy, while utilizing fewer staff members. The department provided the Engineer's Office with the following survey related data collection:

- Control
- Topological
- Drainage
- Easement
- Right of way and centerline surveys

The Survey Department supported the Design Department by providing record research, records assembly, and diligent field recovery of monuments.

The Survey Department also supported the townships by performing centerline retracement, right of way staking, drainage surveys, record research of easements, as well as right of way vacations and dedications.



Highway Maintenance Department

Trace Turnbull, Deputy, Highway Superintendent

The Geauga County Engineer Highway Maintenance forces maintain approximately 236 miles of county roads and 187 bridges. During the 2014 calendar year, the Department worked tirelessly to respond to requests from residents. County forces also efficiently and safely provided snow and ice control measures on county roads and bridges.

The Maintenance Department worked closely with the Design and Construction Departments by ditching and grading the roadsides prior to resurfacing projects to ensure proper drainage. The department also maintained all roadside signs on county roads to ensure safe and efficient traffic control.

The list below indicates some of the work completed by the department in 2014.

- Crack Sealing Program
 - Material Used: 106,810.5 Lbs.
- Asphalt Repair Program
 - Asphalt Type 404 – 710.18 tons
 - Asphalt Type 402 – 244.09 tons
 - Asphalt Type 301 – 157.81 tons
- Brush Cutting and Removal
- Culvert Repair and Maintenance
- Ditch Repair and Maintenance
- Sign Management and Replacement





RESOURCE RENTAL PROGRAM

BROUGHT TO YOU BY

**GEAUGA COUNTY ENGINEER
JOE CATTELL, PE, PS**

2014 YEAR END WRAP-UP

The Geauga County Engineer's Resource Rental Program (RRP) helped our community in the past year in the following ways:

May 13 th – 16 th May 14 th May 6 th – 7 th June 3 rd June 3 rd October 14 th – 28 th	Burton Township Mowtrim Operations Mowtrim Operations Culvert Replacement Project Drivepipe Installation Ditching Cleanout Crack Seal	\$12,022.08
August 21 st	Chardon Township Drivepipe Maintenance	\$412.50
September 23 rd - October 3 rd October 10 th November 3 rd – 5 th	Hambden Township Crack Seal Crack Seal Crack Seal	\$22,127.18
March 18 th April 4 th	Huntsburg Township Drivepipe Maintenance Storm Sewer Maintenance	\$270.00
July 9 th - 10 th August 11 th – 20 th	Montville Township Pavement Milling Ditching Cleanout	\$11,803.65
April 23 rd June 16 th – July 2 nd September 3 rd – 9 th September 17 th October 16 th	Parkman Township Culvert Cleanout Pavement Milling Crack Seal Seeding of Right of Ways Seeding of Right of Ways	\$30,404.21

In 2014, the Geauga County Engineer's Office utilized the Resource Rental Program (RRP) to assist numerous townships with highway maintenance work. The goal of the RRP is to encourage resource sharing with Geauga County entities that are responsible for highway maintenance.



March 31 st – April 1 st May 13 th – June 6 th	Thompson Township Drivepipe Cleanout Crack Seal	\$13,507.50
August 10 th – 29 th September 10 th	Troy Township Crack Seal Hot Mix Asphalt	\$14,060.25

Completed Projects

Through these completed joint efforts, local communities with the assistance of the Geauga County Engineer's experienced personnel and equipment, the county and townships were able to exchange knowledge and skills which translated into effective and efficient use of taxpayer funds. Further, this prolific and cooperative use of resources will continue to benefit the residents of Geauga County for the foreseeable future.

Rental Costs Reminder

	GRADALL XL 3100IV Hydraulic Excavator Includes: Operator & Fuel	\$100/hr
	John Deere 6430 Mid-Speed 4WD Cab Tractor with 22' Xtreme Boom, 69" Rotary Mower Includes: Operator & Fuel	\$70/hr
	Crafts Super Shot 125, Diesel Compressor, EZ Series II, 500 Gallon Melter (Crack-sealer) Includes: Operator, Fuel & Material (Material supplied by GCE at RRP cost)	\$65.00/hr plus material
	Dump Truck, Single-Axle, Class 8, 8 CY, 40,000 GVW Includes: Operator & Fuel	\$65.00/hr
	Maintenance of Traffic: Flagger operations- two flaggers with equipment	\$40/hr (Summer Rate)
	CALL FOR ADDITIONAL AVAILABLE RESOURCES	

AN EFFECTIVE RESOURCE PARTNERSHIP

ALL THAT IS REQUIRED FROM YOU TO PARTICIPATE IN THIS PROGRAM:

- AGREE TO AND ACCEPT THE TERMS OF THE RESOURCE RENTAL PROGRAM
- PASS THE RESOLUTION TO PARTICIPATE IN THE GEAUGA COUNTY ENGINEER RESOURCE RENTAL PROGRAM, PROVIDED BY THE GEAUGA COUNTY ENGINEER
- IDENTIFY THE MAINTENANCE PROJECTS OF WHICH YOU REQUIRE ASSISTANCE
- COMPLETE AND SUBMIT A RESOURCE RENTAL PROGRAM REQUEST FORM

FOR MORE INFORMATION, PLEASE CONTACT:
 TRACY TURNBULL, HIGHWAY SUPERINTENDENT
 442.279.1885 or turnbullt@co.geauga.oh.us

Administrative Department

Frank Antenucci, Esq., Deputy, Administrator

The Administrative Department is responsible for providing the support services necessary for the County Engineer's Office. These responsibilities include the following areas of work:

- Human Resources Administration
- Employee Training and Safety Programs
- Drug and Alcohol Training and Testing
- Benefits Administration
- Payroll
- Invoice Procurement and Processing
- Prevailing Wage Compliance
- Contract Negotiations
- Records Retention
- Ohio Public Records Compliance

The administrative department has focused on moving forward by using technological advances to become more effective and efficient. Accordingly, the department has a dual role in supporting and managing the day-to-day activities of the Engineer's Office, and also coordinating the long-term strategic planning and procedural improvements for the office.

The department has been responsible for managing the scanning, digitizing, and organization of all historical records. These historical records once encompassed over twenty file cabinets and included the following documents: survey data, correspondence, and past road project information. They once used a significant amount of office space and required hours of tedious searching to acquire a specific document. The Department is working to scan and digitally index all of these files for efficient storage and easy document acquisition. This ease of document acquisition not only aids engineering staff for faster research, but also aids the public in quicker and more efficient public records research.

Further, the administrative department has worked to rewrite and update specific policies related to the long-term administration of the Engineer's Office.

Safety Committee

Frank Antenucci, Chairman; Tim Crook, Vice-Chairman; Rick Carlson, Bob Hanck, Trace Turnbull

The Engineer's Safety Committee exists to encourage all employees of the Geauga County Engineer's Office to actively participate in suggestions pertaining to health and safety issues relevant to employment and also to recognize outstanding employee performance safety suggestions that make the Geauga County Engineer's Office a safer and healthier place to serve.

The Safety Committee's job is to provide safety planning, problem solving, and strategic safety related leadership for The Geauga County Engineer's Office. The Safety Committee works as a vehicle to ensure that safety suggestions from employees are received, considered, and possibly implemented. Ultimately, the Safety Committee exists to improve safety and heighten awareness of health and safety issues for all employees of the Office.



Tim Crook
Vice-Chairman
and a founding member
of the Safety Committee



SAFETY AWARD WINNERS 2014

Top Award: Dave Tvergyak

Top Award: John Sines



Staffing

As mentioned previously in this report about budget reductions due to a decrease in funding, the Engineer's total budget reduction has necessitated a decrease in staffing. The Engineer has been able to reduce staff through attrition, while still ensuring that the office provides Geauga County with the very best engineering services and highway maintenance.

Since 2012, the Engineer's total staff salaries have decreased by \$301,600.00 annually. For a second consecutive year, the Engineer's Office managed a staffing decrease from 48 employees down to 46 employees. Through careful planning and effective hiring practices, the Engineer's Office was able to efficiently replace five (5) employees with three (3) employees by hiring three (3) highly efficient, qualified, and skill-diverse employees who compliment the current talented and devoted staff.

Promotions/New Additions for 2014

Promotions

Bill Dudinsky – Highway Worker VI
Steve Markey – Engineer Technician II
Kevin Holy – Highway Worker IV
Rick Poff – Highway Worker IV
Robert Hagenbaugh – Maint. Repair Worker II
Mike Farrell – Highway Worker III
Brent Huffman – Highway Worker III
Lee Thomas – Highway Worker III

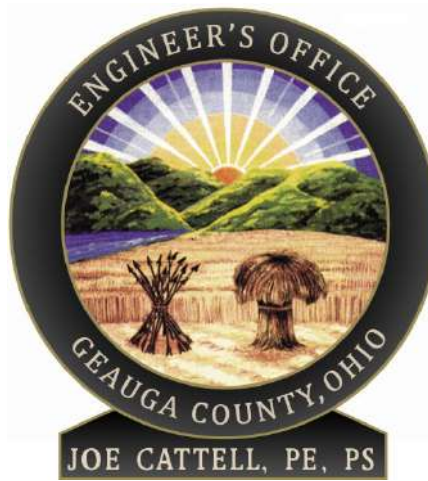
New Additions

David Loucka – Engineer I
Dennis Boyd – Highway Worker II
Zack Sipan – Highway Worker II

Employee Listing

Frank Antenucci, Esq. – Administrator	Ken Lewis – Highway Worker IV
Jeff Baldauf – Highway Worker V	David Loucka – Engineer I
Dennis Boyd – Highway Worker II	Steve Markey – Engineer Technician II
Ray Busser – Highway Worker IV	Carl Matthews – Foreman
Rick Carlson – Highway Worker III	Hugh Mason – Foreman
Tim Crook – Highway Worker V	Mike Pennell – Highway Worker III
Keith Delfs – Survey Technician III	Brian Phillips – Equip./Main. Manager
Mike Donaldson – Mechanic V	Rick Poff – Highway Worker IV
Bill Dudinsky – Highway Worker VI	Alan Prescott – Bridge Designer/Inspector
Mike Farrell – Highway Worker III	Joe Prosser – Highway Worker VI
Kristy Filppi – Fiscal Officer	Ron Quercioli – Highway Worker IV
Nicholas J. Gorris, PE – Deputy Engineer	Darrell Robinson – Highway III
Bob Hagenbaugh – Maintenance Repair Worker II	Tom Ross – Highway Worker V
Shane Hajjar, PE – Deputy Engineer	Kevin Shea – Highway Worker II
Bob Hanck – Assistant Highway Superintendent	Pete Seliskar – Construction Manager
Don Hatch – Mechanic IV	Ben Shrock – Engineer Aide
Andy Haupt, PE, PS – Deputy Engineer	John Sines – Highway Worker IV
Bridget Holy – Clerk/Receptionist	Zach Sipan – Highway Worker II
Kevin Holy – Highway Worker IV	Lee Thomas – Highway Worker III
Brent Huffman – Highway Worker III	Trace Turnbull – Highway Superintendent
Rory Judd – Mechanic III	Dave Tvergyak – Highway Worker V
Nick Kovach – Highway Worker VI	Kirk Walker – Highway Worker V
Paul Kucharski – Engineer Technician I	Scott Warner – Foreman

This report sets forth the condition of the roads, bridges, culverts, and facilities under the responsibility of the County Engineer. It includes an estimate of the funds needed to maintain and improve this infrastructure and complies with the requirements of the Ohio Revised Code Chapter 5543.



2014

End