

City of Findlay

Lydia Mihalik, Mayor

ENGINEERING DEPARTMENT
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Paul E. Schmelzer, P.E., P.S.
Service-Safety Director

January 27, 2016

**Honorable Lydia Mihalik
Mayor, City of Findlay**

**RE: Engineering Department
Annual Report for Calendar Year 2015**

Honorable Mayor:

The City of Findlay Engineering Department has endeavored to provide citizens, developers, contractors, City departments, and other interested parties with the best service possible in regard to all of the following functions:

- Civil Engineering
- Project management
- Engineering records maintenance
- Infrastructure tracking
- Construction inspection
- Plan review
- Infrastructure planning
- Bonding, inspection, tracking of private development
- Contracting for City departments
- Utility/sidewalk permitting
- Address assignment
- GIS development
- Support for USACE Flood Feasibility Study
- Representation to numerous City Committees and Commissions
- Prevailing wage coordination
- Flood Hazard Mitigation
- City mapping
- Airport grant administration

The varied knowledge base, expertise and dedication of the Engineering Department staff make the provision of these services possible. The knowledge of our staff is truly our greatest asset, essential to maintaining cost effective and efficient service. With the support of the Administration, the Department hired a new Project Manager and City Engineer during 2015. With the City Engineer position now filled, the Department had 7 full time employees, listed below for 2015:

Donna Corbin	Project Coordinator
Jeremy Kalb	Project Manager
Dave Jordan	Chief Construction Inspector
Greg Craven	Engineering Technician (GIS)
David Ohl	Records Administrator
Mitch Heacock	Inspector/MS4 coordinator
Brian Thomas	City Engineer

Deidre Ramthun continues to assist the office on a part-time basis as an administrative assistant in addition to her duties with the Civil Service Commission. The contract with the Hancock County Engineer's office under which Steve Wilson provides engineering services to the City on an as needed basis continued during 2015.

The following pages contain the Annual Operations Summary listing detailed statistical information and summaries of the projects the Engineering Department has worked on.

Please do not hesitate to contact me with any questions you may have regarding this information or department operations in general.

Respectfully Submitted,



Brian A. Thomas, PE, PS, CPESC
City Engineer

City Planning Commission (CPC)

The Engineering Department reviewed and made recommendations for the following submittals to the CPC; Twenty eight (28) site plans, one (1) preliminary subdivision plats, three (3) final subdivision plats, and seven (7) street or alley vacations.

Development Inspections

Engineering staff provided inspection and oversight for improvements that impact the City's infrastructure on the following projects; Buren Trace 2nd Addition, Campbell Oil, Centrex, Compressed Natural Gas and Diesel Truck Maintenance Facility, Glenmar Smokies Way Culvert, Hickory Lake Subdivision Sanitary Sewer, Marathon Parking Garages, Marathon Streetscape, Rowmark, Sleep Disorder Center, Somerset Park 1st and 2nd Additions, Speedway on Trenton, Vet Office on Main Street, Warehouse for TH Plastics, and Woods at Hillcrest 8th Addition.

Resurfacing 2014

Cold weather caused a delay in completion of some of the project until 2015. The remaining work included curb replacement on one side of Vincent Street and Parkside Place. Resurfacing was then completed on Vincent Street, Brenda Court, Concord Street, Parkside Place and Cynthia Court. A total of 3,311 feet of curb was replaced and 1.2 miles of roadway was resurfaced.

Resurfacing 2015

Thirteen (13) road sections totaling 3.5 miles in length were resurfaced and 5.1 miles of curb were replaced through the use of a contractor. Paving and milling costs totaled \$555,466.10. Curb, sidewalk and driveway replacements added \$808,511.31 to the final cost of \$1,363,977.41.

Resurfacing 2015 – ODOT Large City funding

Four (4) road sections totaling 2.8 miles in length were resurfaced through the use of a contractor. Funding from the Ohio Department of Transportation (ODOT) provided 80% of the construction cost (\$924,922.68). The remaining 20% (\$231,230.67) was paid with City Permissive License funds.

Sewer Lining Program 2015

This annual program adds a plastic liner to sanitary sewers to prevent storm water and groundwater infiltration and to structurally rehabilitate deteriorating sewers. In 2015, approximately 899 feet of 8" sewer, 2,267 feet of 10" sewer, 2,060 feet of 12" sewer and 292 feet of 15" sewer was lined. The total length of sanitary sewer lined was approximately 5,518 feet. Insight Pipe Contracting LP of Harmony, Pennsylvania performed the work at a cost of \$231,977.44.

Sewer Cleaning Program 2015

This annual program inspects and cleans large diameter sanitary sewers. This year's work was performed on the brick trunk sewer that started at the outlet to High Street, High Street east to Cory Street, Cory Street north to Pine Avenue, Pine Avenue east to Crystal Avenue and approximately 90 feet northeast along Crystal Avenue. Approximately 3,321 feet of 54" sewer and 946 feet of 48" sewer were cleaned. The total length of sewer cleaned was approximately 4,267 feet. Lake County Sewer Company of Willowick, Ohio performed the work at a cost of \$145,319.50.

Sweetwater Road Waterline Replacement

This project replaced 1,385 feet of badly corroded 6” waterline on Sweetwater Road. The waterline was replaced with new 6” plastic waterline. JDR Excavating, Inc. of Findlay, Ohio performed the work at a cost of \$107,860.00.

East Melrose Waterline

This project installed approximately 1,410 feet of 12” waterline on East Melrose Avenue between Breckenridge Road and Romick Parkway and closed a gap in the existing waterline system. Cash Services of Northwood, Ohio performed the work at a cost of \$75,600.00.

Lima Avenue Waterline

This was a county project that involved the construction of approximately 1,321 of 8” waterline along Lima Avenue from Harrison Avenue to Carlin Street. This project created a loop for the existing dead end waterlines to help increase pressure and flow to the existing users. Helms and Sons Excavating of Findlay, Ohio performed the work. The total construction cost for the project was \$83,043.68. The City agreed to pay \$43,570.00 and Hancock County paid the remaining \$39,473.68.

Traffic Signal Upgrades

Traffic signal upgrades are necessary to replace aging span wire systems and install modern traffic control equipment. In 2015, new mast arm poles and foundations were installed at the following intersections:

East Sandusky Street/Osborn Avenue – \$39,297.53 by FET Construction Services LLC, of Sylvania, Ohio

East Sandusky Street/East Street - \$24,415.00 by National Power & Light, of Sandusky, Ohio

New signals and controller was also installed at the intersection by the Traffic Dept. at a price of \$35,000.

Lima Avenue Force Main Replacement

As part of the resurfacing 2015- ODOT Large City funding project, the sidewalk around the existing pump station on Lima Avenue was going to be replaced. As the sidewalk was removed, it was noticed that the existing 4” ductile iron force main was in such bad condition that raw sewage was actually seeping through the pipe. It was determined that the force main needed to be replaced immediately before the road paving project was completed. Helms and Sons Excavating of Findlay, Ohio performed the work. The project cost was \$106,285.00.

North Main Street/Center Street/Tiffin Avenue Curb Replacement

This project involved the replacement of curb, as needed, along Main Street from Trenton Avenue to Center Street, then along Center Street and Tiffin Avenue to the Corporation Limits. Smith Paving & Excavating, Inc. of Norwalk, Ohio performed the work. As part of the project, approximately 4.8 miles of curb was replaced for a cost of \$945,535.95.

G & H Street Sewer Separation

This is the first phase of several projects that will install separate storm sewers in the area bounded by Tiffin Avenue, Blanchard Street, McManness Avenue and the Norfolk & Southern railroad. Sewers will vary in size from 10” to 24”. The total length of storm

sewers being installed is 2,834 feet. The contract was awarded to Hohenbrink Excavating of Findlay for a cost \$377,805.50. Due to weather and contractor's availability, construction will not be starting until the end of January so all of the work will be completed in 2016 and will be included in next year's report.

Fostoria Avenue Storm Sewer Phase 1

This project involved the construction of a large trunk sewer along Fostoria Avenue from Tiffin Avenue to Woodworth Drive with several smaller lateral sewers intended to alleviate drainage concerns along portions of Woodwork Drive and Sycamore Drive. Storm sewers sizes varied from 12" to 54" and included a 54" sewer boring under Tiffin Avenue. The total length of sewer installed as part of this project was approximately 3,454 feet. Helms & Sons of Findlay, Ohio completed the work at a cost of \$1,021,817.72. \$375,000 of the project cost was funded by a grant from Ohio Public Works Commission.

County Road 99 Waterline (Forest Trail to County Road 142)

This project involves the construction of new 24" waterline along County Road 99 between County Road 142 and Forest Trail Drive. This waterline will primarily serve the Woods at Hillcrest Subdivisions, the commercial real estate along County Road 99 and is another section of the City's looped waterline plan. The project includes the installation of approximately 2,320 feet of waterline. The contract was awarded to Cash Services, LLC of Millbury, Ohio for a cost of \$373,133.00. Due to weather and the contractor's availability, construction will not be started until the end of January so all of the work will be completed in 2016 and will be included in next year's report.

West Park Sanitary Sewer (Elyria, Blaine & Newell Streets)

This project involved the construction of a sanitary sewer to serve approximately thirty nine (39) properties that are currently using septic tanks and leach fields. The length of sanitary sewer installed as part of the project is approximately 1,603 feet. Helms & Sons of Findlay, Ohio completed the work at a cost of \$357,965.85. \$85,000 of the project cost was funded by a grant from the Community Development Block Grant.

Elyria Street Waterline

This project involved the replacement of the existing waterline along Elyria Street. The existing waterline varied in size from 1-1/4" to 2". Approximately 430 feet of 6" waterline along with a fire hydrant was installed as part of the project. By installing the larger waterline, the water flow and pressure should increase for the neighborhood. The larger line also allowed a fire hydrant to be installed so fire protection can now be provided. Helms & Sons of Findlay, Ohio completed the work at a cost of \$49,781.00.

Blaine Street Waterline

This project involved the replacement of the existing waterline along Blaine Street. The existing waterline varied in size from 1-1/4" to 2". Approximately 628 feet of 6" waterline along with a fire hydrant was installed as part of the project. By installing the larger waterline, the water flow and pressure should increase for the neighborhood. The larger line also allowed a fire hydrant to be installed so fire protection can now be provided. Helms & Sons of Findlay, Ohio completed the work at a cost of \$49,987.00.

North Water Tower Painting

This project will repair deteriorated steel and paint the water tower located at the north end of town. The project was bid to be completed in 2015 with an alternate if the work could be

completed in 2016. The lowest and best bid was for waiting to perform the work until 2016. The project is expected to be awarded in February of 2016 with a completion date of June 15, 2016. The contractor for the work will be UCL, Inc. of Cincinnati, Ohio at a cost of \$841,100.00.

Water Treatment Plant SCU#1 Painting

This project was a rehabilitation of Solids Contact Unit #1, which is a necessary part of the water treatment process. The parts of the SCU that come into contact with both air and water have corroded. As part of the project, the unit was sandblasted to remove the old paint, repairs were made to the internal steel members and the steel was repainted. Advanced Building Restorations of South Point, Ohio completed the work at a cost of \$215,180.00.

WPC Bar Screens & WTP Clearwell Repairs

These projects were awarded to PAE & Associates of Brookville, Ohio due to cost savings associated with a combined bid. The contractor ended up filing bankruptcy in 2015. Alvada Construction Inc. of Alvada was contracted to finish up the project. There are currently some punchlist items that still need to be completed including some SCADA issues on the WPC Bar Screen Project.

Interstate 75 Widening

The City was requested by ODOT to perform reviews of the proposed construction plans that will affect the City's infrastructure. An existing sanitary sewer in the I-75 right of way between the Norfolk & Southern railroad and West Sandusky Street is proposed to be abandoned which will require the City to provide new sanitary sewer outlets to Freudenberg NOK on Marathon Blvd and the Northern Ohio Sugar plant north of Logan Ave. ODOT will reimburse a portion if not all of these sanitary sewer costs. Plans have been prepared for Freudenberg NOK and plans need to be finalized for Northern Ohio Sugar plant. The plans will be sent to OEPA and bid in the first quarter of 2016 with construction later in the year.

Planning for 2016

Final design and construction plans are nearing completion for the following projects scheduled to be built in 2016:

- Downtown Revitalization Plan (TAP)
- ODOT Large City FY 16 Resurfacing
- Resurfacing 2016
- Fostoria Avenue Storm Sewer Phase 2
- West Hardin Sewer Separation
- Blanchard River/Stanford Parkway Waterline Replacment
- Brandman Area Sewer Diversion and CSO Removal
- Traffic Signal upgrades at:
 - Lima Avenue/South West Street
 - West Sandusky Street/South West Street
 - McManness Avenue/Center Street
 - West Lincoln Street/South West Street

**CITY OF FINDLAY
DEPARTMENT OF ENGINEERING**

**OPERATIONS SUMMARY
FOR THE YEAR OF 2015**

The following information is provided as a report of operations in the Engineering Department for the year 2015. Corresponding years 2013 and 2014 are shown for comparison.

NEW SANITARY SEWER

	<u>2015</u>	<u>2014</u>	<u>2013</u>
8" Force Main	0 LF	0 LF	0 LF
6" Force Main	1,130 LF	0 LF	0 LF
4" Force Main	-1,130 LF	0 LF	0 LF
6"	0 LF	0 LF	0 LF
8"	5,389 LF	1,870 LF	327 LF
10"	0 LF	768 LF	0 LF
12"	0 LF	0 LF	0 LF
15"	0 LF	0 LF	0 LF
18"	0 LF	0 LF	0 LF
TOTALS	<u>5,389 LF</u>	<u>2,638 LF</u>	<u>327 LF</u>

SANITARY SEWER PERMITS ISSUED

	<u>2015</u>	<u>2014</u>	<u>2013</u>
Outside City	56	53	48
Inside City	71	90	53
TOTALS	<u>127</u>	<u>143</u>	<u>101</u>

SANITARY SEWER FEES COLLECTED

	<u>2015</u>	<u>2014</u>	<u>2013</u>
Tap/Inspection Fees	\$11,236.00	\$13,567.00	\$8,505.00
Impact/Capacity Fees	\$123,414.00	\$192,303.00	\$61,545.00
Rotary Fees	\$0.00	\$2,200.00	\$4,686.00
	<u>\$134,650.00</u>	<u>\$208,070.00</u>	<u>\$74,736.00</u>

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DEPARTMENT OF ENGINEERING**

**OPERATIONS SUMMARY
FOR THE YEAR OF 2015**

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NEW STORM SEWER

	<u>2015</u>	<u>2014</u>	<u>2013</u>
6"	0 LF	0 LF	0 LF
8"	0 LF	0 LF	0 LF
10"	0 LF	0 LF	0 LF
12"	198 LF	0 LF	504 LF
15"	20 LF	0 LF	25 LF
18"	0 LF	0 LF	370 LF
21"	0 LF	0 LF	0 LF
24"	55 LF	0 LF	2,666 LF
27"	0 LF	0 LF	0 LF
30"	1,232 LF	0 LF	317 LF
36"	0 LF	0 LF	48 LF
42"	1,353 LF	0 LF	0 LF
48"	330 LF	0 LF	0 LF
54"	266 LF	0 LF	0 LF
60"	0 LF	0 LF	0 LF
84"	0 LF	0 LF	0 LF
TOTALS	<u>3,454 LF</u>	<u>0 LF</u>	<u>3,930 LF</u>

STORM SEWER PERMITS ISSUED

	<u>2015</u>	<u>2014</u>	<u>2013</u>
Outside City	36	46	41
Inside City	49	47	39
TOTALS	<u>85</u>	<u>93</u>	<u>80</u>

STORM SEWER FEES COLLECTED

	<u>2015</u>	<u>2014</u>	<u>2013</u>
Tap/Inspecton Fees	\$7,000.00	\$8,575.00	\$6,930.00

**CITY OF FINDLAY
DEPARTMENT OF ENGINEERING**

**OPERATIONS SUMMARY
FOR THE YEAR OF 2014**

The following information is provided as a report of operations in the Engineering Department for the year 2014. Corresponding years 2012 and 2013 are shown for comparison.

NEW WATERLINE

	<u>2015</u>	<u>2014</u>	<u>2013</u>
2"	(846) LF	0 LF	0 LF
6"	1,144 LF	1,227 LF	600 LF
8"	4,095 LF	655 LF	1,392 LF
10"	0 LF	0 LF	0 LF
12"	1,810 LF	667 LF	0 LF
16"	0 LF	0 LF	0 LF
20"	0 LF	0 LF	0 LF
24"	0 LF	0 LF	0 LF
30"	0 LF	0 LF	0 LF
36"	0 LF	0 LF	0 LF
TOTALS	<u>6,203 LF</u>	<u>2,549 LF</u>	<u>1,992 LF</u>

WATER SERVICE PERMITS ISSUED

	<u>2015</u>	<u>2014</u>	<u>2013</u>
Outside City	61	64	58
Inside City	59	73	42
TOTALS	<u>120</u>	<u>137</u>	<u>100</u>

WATER FEES COLLECTED

	<u>2015</u>	<u>2014</u>	<u>2013</u>
Tap/Meter Fees	\$123,900.00	\$138,625.00	\$106,725.00
Rotary Fees	\$2,420.00	\$41,281.02	\$5,588.00
TOTALS	<u>\$126,320.00</u>	<u>\$179,906.02</u>	<u>\$112,313.00</u>

**CITY OF FINDLAY
DEPARTMENT OF ENGINEERING**

**OPERATIONS SUMMARY
FOR THE YEAR OF 2015**

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NEW PAVEMENT (HARD SURFACE WITH CURB)

	<u>2015</u>	<u>2014</u>	<u>2013</u>
Total(construction and annexations)	0.00 Miles	1.09 Miles	0.23 Miles

STREET RESURFACING

	<u>2015</u>	<u>2014</u>	<u>2013</u>
Total Increase	39,600 LF 7.50 Miles	20,677 LF 3.91 Miles	43,384 LF 8.22 Miles

CURB CUT PERMITS

	<u>2015</u>	<u>2014</u>	<u>2013</u>
Permits Issued	62	62	43
Fees Collected	\$1,500.00	\$1,500.00	\$1,100.00

SIDEWALK PERMITS

	<u>2015</u>	<u>2014</u>	<u>2013</u>
Total Repaired	3681 LF	3327 LF	3424 LF
Total Constructed	946 LF	3400 LF	4239 LF
Permits Issued	106	102	99

ANNEXATIONS

	<u>2015</u>	<u>2014</u>	<u>2013</u>
Total Increase	28.651 Acres 0.045 Sq Mi.	276.623 Acres 0.432 Sq Mi.	0.000 Acres 0.000 Sq Mi.

**CITY OF FINDLAY
DEPARTMENT OF ENGINEERING**

**OPERATIONS SUMMARY
FOR THE YEAR OF 2015**

WATERLINES

Total through 2014	316.57 Miles
Constructed - 2015	1.34 Miles
Removed - 2015	(0.16) Miles
TOTAL through 2015	317.75 Miles

SANITARY SEWERS

Total through 2014	296.50 Miles
Constructed - 2015	1.23 Miles
Removed - 2015	(0.21) Miles
TOTAL through 2015	297.52 Miles

STREET RIGHT-OF-WAY AND PAVEMENT

Hard surface with curb through 2014	133.88 Miles
Hard surface without curb through 2014	61.25 Miles
TOTAL pavement through 2014	195.13 Miles
TOTAL Right-of-Way through 2014	194.75 Miles
Vacated -2015	
Hard surface with curb	0.00 Miles
Hard surface without curb	0.00 Miles
Right-of-way	0.00 Miles
Constructed - 2015	
Hard surface with curb	0.00 Miles
Hard surface without curb	0.00 Miles
Dedicated - 2015	
Right-of-way	0.00 Miles
Annexed - 2015	
Hard surface with curb	0.00 Miles
Hard surface without curb	0.00 Miles
Right-of-way	0.00 Miles
TOTAL Hard Surface with curb	133.88 Miles
TOTAL Hard Surface without curb	61.25 Miles
TOTAL Pavement through 2014	195.13 Miles
TOTAL Right-of-way through 2014	194.75 Miles

ANNEXATIONS

Total through 2014	20.1134 Sq. Miles
Annexations - 2015	28.651 Acres 0.0450 Sq. Miles
TOTAL through 2015	20.1584 Sq. Miles