City of Findlay Engineering Department



2018 Annual Report

Engineering Department

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Paul E. Schmelzer, P.E., P.S. Safety Director

Brian A. Thomas, P.E., P.S. Service Director

January 31, 2019

RE: Engineering Department Annual Report for Calendar Year 2018

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
- 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 Graduate Engineer to fill a vacancy created by a resignation during 2018. The City Engineer also continued the role of Director of Public Service and will continue that role in 2019. The Department had 7 full time employees, listed below for 2018:

Amanda Mooney	Project Coordinator
Jeremy Kalb	Project Manager
Jeff Corbin	Construction Inspector
Greg Craven	Engineering Technician (GIS)
Brooke Weininger	Graduate Engineer
Mitch Heacock	Inspector/MS4 coordinator
Brian Thomas	Director of Public Service/Acting
	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 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, CFM

Director of Public Service/Acting City Engineer

City Planning Commission (CPC)

The Engineering Department reviewed and made recommendations for the following submittals to the CPC; Twenty four (24) site plans, five (5) preliminary subdivision plats, eight (8) final subdivision plats, sixteen (16) zoning amendments, two (2) special use/home occupation requests, six (6) conditional use applications and four (4) street or alley vacations.

Development Inspections

Engineering staff provided inspection and oversight for improvements that impact the City's infrastructure on the following projects; Campbell Soup, Deer Landing 1st Addition, Glenmar 1st Addition Plat 2, AutoLiv, Spring Lake 1st Addition, and South Ridge Estates.

Resurfacing 2018

Fifteen (15) road sections totaling 7.42 lane miles in length were resurfaced and 2.58 miles of curb were replaced through the use of a contractor. Paving and milling costs totaled \$360,918.49. Curb, sidewalk and driveway replacements added \$347,983.50 to the final cost of \$708,901.99.

Resurfacing 2018 - ODOT Large City funding

One (1) road section totaling 9.80 lane miles in length were resurfaced and 1.18 miles of curb were replaced through the use of a contractor. Funding from the Ohio Department of Transportation (ODOT) provided the majority of the construction cost (\$533,374.07). The remainder (\$162,087.45) was paid with City's Capital Improvement Fund. The City will be receiving approximately \$17,000 from ODOT to help cover the expenses of construction inspection services that were provided by the City Inspectors.

Sewer Lining Program 2017

This annual program adds a plastic liner to sanitary sewers to prevent storm water and groundwater infiltration and to structurally rehabilitate deteriorating sewers. In 2018, approximately 3,761 feet of 8" sewer, 4,079 feet of 10" sewer, and 1,982 feet of 12" sewer was lined. The total length of sanitary sewer lined was approximately 9,822 feet. LiquiForce Services of Romulus, Michigan performed the work at a cost of \$406,531.

Park Street Rehabiliation

This project reconstructed Park Street and installed new waterline on Park Street between Lima Street to Hancock Street. The total length of waterline installed was 950 feet. The contract was awarded to Hohenbrink Excavating of Findlay for a cost \$257,219.94.

Fishlock Avenue Improvements

This project replaced the curbs, replaced the waterline and repaved Fishlock Avenue from Sandusky Street to Blanchard Avenue. The total length of curb removed and replaced was 8,130 feet while 3,971 feet of waterline was installed. The contract was awarded to JDR Excavating of Findlay for a cost \$839,788.20.

Area B4-B6 Sewer Separation - Phase I and Phase II

This project installed storm sewers on Foulke Avenue, Allen Avenue, Midland Avenue, Garfield Avenue and George Street (from the railroad tracks to Crystal Avenue). The existing waterline was also replaced on Garfield Avenue and George Street. The total length of storm sewers installed was 5,902 feet, while the total length of waterline installed was 2,389 feet. The contract was awarded to Helms & Sons Excavating of Findlay for a cost \$923,302.75. Funding for the majorty of the project came from grants from Ohio Public Works Commission (\$500,000) and Community Development Block Grant (\$129,000). The remainder of the costs came from the City of Findlay's Water Fund and Capital Improvement Fund.

Key Performance Indicators (KPIs)

In 2018, Engineering continued to measure the Key Perfomance Indicators that were setup in 2016. These include:

- Project Cost Management Looking at the percent of projects that were closed that were at or below the bid price
- Miles Paved Tracking the number of lane miles that were paved during the year. Please not that this includes all paving done in the City (i.e. resurfacing project plus resurfacing ODOT large city funding plus paving done by the Street Department)
- Projects bid versus planned Looking on a quarter by quarter basis at the number of projects that engineering would like to get out to bid versus the actual number that are bid.
- MS4 Compliance Looking at the percentage of days that the City is in compliance with the MS4 requirements established by the Ohio Environmental Protection Agency.

The graphs showing the KPIs as they stand at the end of 2018 is included in this report.

Planning for 2019

Final design and construction plans are scheduled for completion and construction is planned for the following projects in 2019:

ODOT Large City FY 19 Resurfacing

Resurfacing 2019

Lima Avenue/Western Avenue Signal Improvements

Blanchard Street Waterline

Madison and Monroe Sewer Replacment

2019 Annual Sewer & Manhole Lining Program

2019 Annual Sewer Televising

OPERATIONS SUMMARY FOR THE YEAR OF 2018

The following information is provided as a report of operations in the Engineering Department for the year 2018. Corresponding years 2016 and 2017 are shown for comparison.

NEW SANITARY SEWER

		2018	2017	<u>2016</u>
8" Force Main		0 LF	0 LF	0 LF
6" Force Main		0 LF	0 LF	0 LF
4" Force Main		0 LF	0 LF	0 LF
6"		109 LF	0 LF	0 LF
8"		4133 LF	5,904 LF	5,028 LF
10"		1413 LF	354 LF	1,954 LF
12"		1336 LF	0 LF	2,287 LF
15"		0 LF	1,342 LF	0 LF
18"	2	25 LF	LF	0 LF
	TOTALS	7,016 LF	7,600 LF	9,269 LF

SANITARY SEWER PERMITS ISSUED

		<u>2018</u>	2017	2016
Outside City		45	58	69
Inside City		82	62	82
	TOTALS	127	120	151

SANITARY SEWER FEES COLLECTED

	\$142,516.07	\$251,395.00	\$294,997.00
Rotary Fees	\$3,884.47	\$76,172.00	\$37,573.00
Impact/Capacity Fees	\$126,805.60	\$161,828.00	\$243,819.00
Tap/Inspection Fees	\$11,826.00	\$13,395.00	\$13,605.00
	<u>2018</u>	<u>2017</u>	<u>2016</u>

OPERATIONS SUMMARY FOR THE YEAR OF 2018

The following information is provided as a report of operations in the Engineering Department for the year 2018. Corresponding years 2016 and 2017 are shown for comparison.

NEW STORM SEWER

TILW DIO	KIVI SE W EK					
		2018		2017	7	<u>2016</u>
6"		0	LF	0	LF	0 LF
8"		0	LF	280		0 LF
10"		33	LF	150	LF	176 LF
12"		2,128	LF	2,423	LF	502 LF
15"		536	LF	2,261	LF	1,083 LF
18"		1,185	LF	2,361	LF	410 LF
21"		0	LF	0	LF	0 LF
24"		855	LF	953	LF	468 LF
27"		0	LF	0	LF	0 LF
30"		514	LF	2,540	LF	0 LF
36"		1,740	LF	0	LF	0 LF
42"		1,059	LF	0	LF	0 LF
48"		1,147	LF	0	LF	0 LF
54"		384	LF	0	LF	0 LF
60"			LF	0	LF	0 LF
84"		0	LF	0		0_LF
	TOTALS	9,581	LF	10,968	LF	2,639 LF

STORM SEWER PERMITS ISSUED

		<u>2018</u>	<u>2017</u>	<u>2016</u>
Outside City Inside City		10	35	33
Inside City		51	58	51
	TOTALS	61	93	84

STORM SEWER FEES COLLECTED

	<u>2018</u>	<u>2017</u>	2016	
Tap/Inspecton Fees	\$4,655.00	\$7,630.00	\$6,825.00	

OPERATIONS SUMMARY FOR THE YEAR OF 2018

The following information is provided as a report of operations in the Engineering Department for the year 2018. Corresponding years 2016 and 2017 are shown for comparison.

NEW WATERLINE

		2018	<u> </u>	2017	7	2016	
2"		0	LF	865	LF	313	LF
6"		4,900	LF	7,954	LF	3,243	LF
8"		14,417	LF	5,271	LF	8,623	LF
10"		7,574	LF	1,420	LF	0	LF
12"		1,320	LF	932	LF	1,668	LF
16"		3,913	LF	0	LF	0	LF
20"		0	LF	0	LF	1,930	LF
24"		0	LF	0	LF	2,320	LF
30"		0	LF	0	LF	0	LF
36"	S-	0	LF	0	LF	0	LF
	TOTALS	32,124	LF	16,442	LF	18,097	LF

WATER SERVICE PERMITS ISSUED

		10001		
		<u>2018</u>	<u>2017</u>	<u>2016</u>
Outside City Inside City		54	54	73
Inside City		91	84	71
	TOTALS	145	138	144

WATER FEES COLLECTED

		<u>2018</u>	<u>2017</u>	<u>2016</u>
Tap/Meter Fees		\$143,200.00	\$134,225.00	\$143,550.00
Rotary Fees		\$39,642.18	\$24,828.00	\$20,526.00
	TOTALS	\$182,842.18	\$159,053.00	\$164,076.00

OPERATIONS SUMMARY FOR THE YEAR OF 2018

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Idrich Willico	id)	
<u>2018</u>	<u>2017</u>	<u>2016</u>
1.06 Miles	0.17 Miles	0.30 Miles
2018	2017	2016
32,485 LF	61,934 LF	25,648 LF
6.15 Miles	11.73 Miles	4.86 Miles
2018	2017	<u>2016</u>
171	92	66
\$4,275.00	\$2,225.00	\$1,650.00
<u>2018</u>	2017	<u>2016</u>
3933 LF	4595 LF	3267 LF
3159.5 LF	4449 LF	4287 LF
149	105	98
<u>2018</u>	<u>2017</u>	<u>2016</u>
49068.000 Acres	0.000 Acres	0.172 Acres
76.669 Sq Mi.	0.000 Sq Mi.	0.000 Sq Mi.
	2018 32,485 LF 6.15 Miles 2018 171 \$4,275.00 2018 3933 LF 3159.5 LF 149 2018 49068.000 Acres	1.06 Miles 0.17 Miles

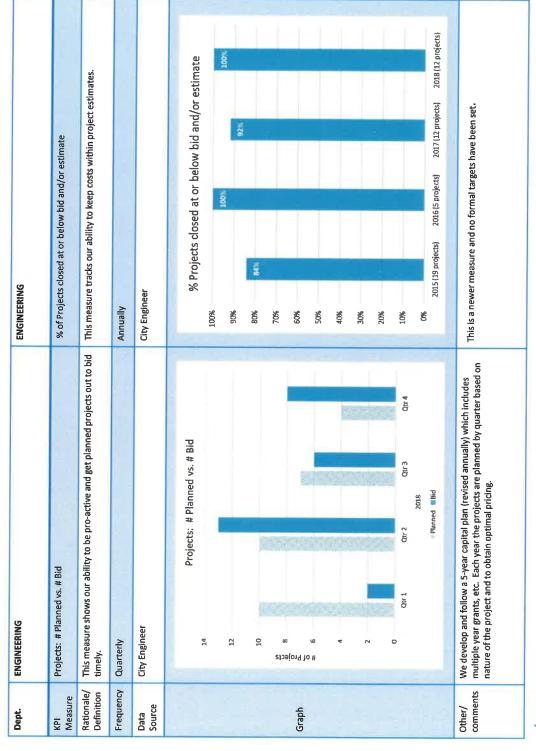
OPERATIONS SUMMARY FOR THE YEAR OF 2018

WATERLINES

	LEIGHTAES	
Total through 2017	324.66	Miles
Constructed - 2018	6.08	Miles
Removed - 2018	0.00	Miles
TOTAL through 2018	330.74	Miles
SANITARY SEWERS		
Total through 2017	300.72	Miles
Constructed - 2018	1.33	Miles
Removed - 2018	0.00	Miles
TOTAL through 2018	302.05	Miles
STREET RIGHT-OF-WAY AND PAVEMENT		
Hard surface with curb through 2017	134.35	Miles
Hard surface without curb through 2017	61.25	Miles
TOTAL pavement through 2017	195.60	Miles
TOTAL Right-of-Way through 2017	195.22	Miles
Vacated -2018		
Hard surface with curb	0.00	Miles
Hard surface without curb		Miles
Right-of-way	0.00	Miles
Constructed - 2018		
Hard surface with curb	0.34	Miles
Hard surface without curb	0.00	Miles
Dedicated - 2018		
Right-of-way	0.34	Miles
Annexed - 2018		
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 - 2018	134.69	Miles
TOTAL Hard Surface without curb - 2018	61.25	
TOTAL Pavement through 2018	195.94	
TOTAL Right-of-way through 2018	195.56	
ANNEXATIONS		
Total through 2017		Sq. Miles
Annexations - 2018		Sq. Miles
TOTAL through 2018		Sq. Miles
		1

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