## City of Findlay Engineering Department



2019 Annual Report

### **Engineering Department**

### Christina M. Muryn, Mayor

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

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

January 23, 2020

### RE: Engineering Department Annual Report for Calendar Year 2019

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. The City Engineer continued the role of Director of Public Service and will continue that role in 2020. The Department had 7 full time employees, listed below for 2019:

Sara Klay	Project Coordinator
Jeremy Kalb	Project Manager
Jeff Corbin	Construction Inspector
Greg Craven	Engineering Technician (GIS)
Brooke Weininger	Engineer (EI)
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 seven (27) site plans, three (3) preliminary subdivision plats, three (3) final subdivision plats, ten (10) zoning amendments, three (3) conditional use applications and one (1) street or alley vacations.

#### **Development Inspections**

Engineering staff provided inspection and oversight for improvements that impact the City's infrastructure on the following projects; Crawford Station, Somerset Park 4<sup>th</sup> Addition, Glenmar 2<sup>nd</sup> Addition, Hickory Lake 2<sup>nd</sup> Addition, Ohio Logistics Building Addition at 1800 Production Drive, AutoLiv.

#### Resurfacing 2019

Thirteen (13) road sections totaling 8.09 lane miles in length were resurfaced and 4.76 miles of curb were replaced through the use of a contractor. Paving and milling costs totaled \$618,613.03. Curb, sidewalk and driveway replacements added \$730,115.53 to the final cost of \$1,348,728.56.

### Resurfacing 2019 - ODOT Large City funding

Two (2) road section totaling 2.67 lane miles in length were resurfaced and 1.64 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 (\$395,969.51). The remainder (\$119,825.00) was paid with City's Capital Improvement Fund. The City will be receiving approximately \$11,223.22 from ODOT as a reimbursement to help cover the expenses of construction inspection services that were provided by the City Inspectors.

### Blanchard Street 16 inch Waterline

This project installed 0.96 miles of 16" waterline on Blanchard Street from Sandusky Street to 6th Street to replace several smaller sized waterlines. The contract was awarded to Helms and Sons Excavating of Findlay for a cost \$1,314,065.28.

#### **Project Designs**

In 2019, the engineering department was responsible for the design of several other projects that will not enter the constructed phase until 2020. Some of these projects were designed by engineering staff while others were designed by consultants and were reviewed and approved by engineering staff. These projects include: Howard Street Sewer Separation, Howard Street Waterline Replacement, Olive Street Waterline Replacement, Rutherford Avenue Waterline Replacement, West Melrose Avenue Waterline Replacement, Sixth Street Waterline Replacement, Madison and Monroe Sewer Replacements, Cimarron Court Drainage Project, Blanchard Street Catch Basin Project, Blanchard St. & Lincoln St. Bike Lanes, Greenway Trail Extension Phase 1 and County Road 236 Widening Project. These projects were all designed so that they could be bid for construction early in the 2020 in an attempt to get better pricing from contractors that will be looking for work to fill up their 2020 construction schedule.

### **Key Performance Indicators (KPIs)**

In 2019, 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. In 2019, 15 out of the 18 projects that were closed were at or below the bid price (83%). This is lower than the goal of 100%.
- Miles Paved Tracking the number of lane miles that were paved during the year. Please note that this includes all paving done on City streets but does not include work done on alleys (i.e. resurfacing project plus resurfacing ODOT large city funding plus paving done by the Street Department). For 2019, a total of 17 lane miles were paved. This was slightly below the goal of 18.93 lane miles. The amount of paving that can be completed in a year depends upon the amount of curb that also needs to be replaced on the street that are being paved. In years where there is less curb work needed, more paving can be completed and vice versa.
- 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. In 2019, a total of 31 projects were bid, which was more than the goal of 24.
- 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. In 2019, the engineering once again met the goal of 100% days in compliance.

The graphs showing the KPIs as they stand at the end of 2019 is included at the end of this report.

### Planning for 2020

Final design and construction plans are scheduled for completion and construction is planned for the following projects in 2020:

Howard Street Sewer Separation Howard Street Waterline Replacement Olive Street Waterline Replacement Rutherford Avenue Waterline Replacement West Melrose Avenue Waterline Replacement Sixth Street Waterline Replacement Madison and Monroe Sewer Replacements Cimarron Court Drainage Project Blanchard Street Catch Basin Project Blanchard St. & Lincoln St. Bike Lanes County Road 236 Widening Project 2020 Annual Sewer & Manhole Lining Program 2020 Annual Sewer Televising Phase 2 of the Cube Parking Lot Repairs Logan Avenue Phase 3 Blue Bonnet and Bittersweet Sanitary Sewers Annual Street Resurfacing/Curb Repairs Blanchard River Greenway Trail, Phase 2

### OPERATIONS SUMMARY FOR THE YEAR OF 2019

The following information is provided as a report of operations in the Engineering Department for the year 2019. Corresponding years 2017 and 2018 are shown for comparison.

#### **NEW SANITARY SEWER**

TID II DIN HILLIAMET DE II EL	-			
	<u>2019</u>		<u>2018</u>	<u>2017</u>
8" Force Main	-	LF	0 LF	0 LF
6" Force Main	-	LF	0 LF	0 LF
4" Force Main	-	LF	0 LF	0 LF
6"	-	LF	109 LF	0 LF
8"	7,124	LF	4133 LF	5,904 LF
10"	456	LF	1413 LF	354 LF
12"	_	LF	1336 LF	0 LF
15"	-	LF	0 LF	1,342 LF
18"	-	LF	25 LF	0 LF
42"	10	LF	0 LF	0 LF
TOTALS	7,590	LF	7,016 LF	7,600 LF

### SANITARY SEWER PERMITS ISSUED

		2019	<u>2018</u>	<u>2017</u>
Outside City		68	45	58
Inside City		76	82	62
	TOTALS —	144	127	120

### SANITARY SEWER FEES COLLECTED

	2019		2017
Tap/Inspection Fees	\$ 12,075.00	\$11,826.00	\$13,395.00
Impact/Capacity Fees	\$ 109,516.00	\$126,805.60	\$161,828.00
Rotary Fees	\$ 12,979.00	\$3,884.47	\$76,172.00
•	\$ 134,570.00	\$142,516.07	\$251,395.00

## **OPERATIONS SUMMARY FOR THE YEAR OF 2019**

The following information is provided as a report of operations in the Engineering Department for the year 2019. Corresponding years 2017 and 2018 are shown for comparison.

#### **NEW STORM SEWER**

ME M PLOMM PE MEK						
	<u>2019</u>	-	2018		<u>2017</u>	
6"	-	LF	0	LF	0	LF
8"	180	LF	0	LF	280	LF
10"	743	LF	33	LF	150	LF
12"	6,563	LF	2,128	LF	2,423	LF
15"	892	LF	536	LF	2,261	LF
18"	1,760	LF	1,185	LF	2,361	LF
21"	_	LF	0	LF	0	LF
24"	2,020	LF	855	LF	953	LF
27"	-	LF	0	LF	0	LF
30"	1,190	LF	514	LF	2,540	LF
36"	1,604	LF	1,740	LF	0	LF
42"	1,059	LF	1,059	LF	0	LF
48"	1,147	LF	1,147	LF	0	LF
54"	384	LF	384	LF	0	LF
60"	-	LF	0	LF		LF
84"	-	LF	0	LF		LF
TOTALS	17,542	LF	9,581	LF	10,968	LF

### STORM SEWER PERMITS ISSUED

DIOIMI DE III	Oldi DE WEIGH EIGHT BIOSCES					
		2019	<u>2018</u>	<u>2017</u>		
Outside City		42	10	35		
Inside City		55	51	58		
	TOTALS —	97	61	93		

#### STORM SEWER FEES COLLECTED

DI CILLI DE 11 ELL EN				
	<u>2019</u>	<u>2018</u>	<u>2017</u>	
Tap/Inspecton Fees	\$ 7,875.00	\$4,655.00	\$7,630.00	

### OPERATIONS SUMMARY FOR THE YEAR OF 2019

The following information is provided as a report of operations in the Engineering Department for the year 2019. Corresponding years 2017 and 2018 are shown for comparison.

### **NEW WATERLINE**

		2019	)	2018		2017		
2"		-	LF		LF	865	LF	
6"		5,585	LF	4,900	LF	7,954	LF	
8"		6,984	LF	14,417	LF	5,271	LF	
10"		10	LF	7,574	LF	1,420	LF	
12"		2,660	LF	1,320	LF	932	LF	
16"		5,062	LF	3,913	LF	-	LF	
20"		-	LF	-	LF	-	LF	;
24"		-	LF	-	LF	-	LF	
30"		-	LF		LF	-	LF	
36"	13		LF		LF		LF	
	TOTALS	20,301	LF	32,124	ĹF	16,442	LF	

### WATER SERVICE PERMITS ISSUED

		<u>2019</u>	<u>2018</u>	<u>2017</u>
Outside City Inside City		68	54	54
Inside City	\2	53	91	84
	TOTALS	121	145	138

### WATER FEES COLLECTED

			2019	<u>2018</u>	<u>2017</u>	
Tap/Meter Fees		\$ 127	7,563.00	\$143,200.00	\$134,225.00	
Rotary Fees		\$ 15	5,098.00	\$39,642.18	\$24,828.00	
	<b>TOTALS</b>	\$ 142	2,661.00	\$182,842.18	\$159,053.00	

### OPERATIONS SUMMARY FOR THE YEAR OF 2019

The following information is provided as a report of operations in the Engineering Department for the year 2019. Corresponding years 2017 and 2018 are shown for comparison.

<b>NEW PAVEMENT</b>	(HARD	<b>SURFACE</b>	WITH	CURB)	)
		DOLUTION	***		/

**Total Increase** 

NEW PAVEMENT (HARD SU	IRFACE WITH CU	JRB)	
,	<u>2019</u>	<u>2018</u>	<u>2017</u>
Total(construction and annexations)	0.99 Miles	1.06 Miles	0.17 Miles
STREET RESURFACING			
	<u>2019</u>	<u>2018</u>	<u>2017</u>
Total Increase	70,117 LF	32,485 LF	61,934 LF
	13.28 Miles	6.15 Miles	11.73 Miles
CURB CUT PERMITS			
	2019	<u>2018</u>	<u>2017</u>
Permits Issued	85	171	92
Fees Collected	\$ 1,475.00	\$4,275.00	\$2,225.00
SIDEWALK PERMITS			
	2019	2018	<u>2017</u>
Total Repaired	3337.5 LF	3933 LF	4595 LF
Total Constructed	1876 LF	3159.5 LF	4449 LF
Permits Issued	130	149	105
A CITITIO IDDAGA			
ANNEXATIONS			
	2019	2018	<u>2017</u>
I/			

36.689 Acres

0.05777 Sq Mi.

0.000 Acres

0.000 Sq Mi.

49.068 Acres

0.077 Sq Mi.

### OPERATIONS SUMMARY FOR THE YEAR OF 2019

### WATERLINES

Total through 2018	330.74	Miles
Constructed - 2019		Miles
Removed - 2019		Miles
TOTAL through 2019	334.58	Miles
SANITARY SEWERS		
Total through 2018	302.05	Miles
Constructed - 2019		Miles
Removed - 2019		Miles
TOTAL through 2019	303.69	Miles
STREET RIGHT-OF-WAY AND PAVEMENT		
Hard surface with curb through 2018	134.69	Miles
Hard surface without curb through 2018	61.25	Miles
TOTAL pavement through 2018	195.94	Miles
TOTAL Right-of-Way through 2018	195.56	Miles
Vacated -2019		
Hard surface with curb		Miles
Hard surface without curb		Miles
Right-of-way	0.00	Miles
Constructed - 2019		
Hard surface with curb		Miles
Hard surface without curb	0.00	Miles
Dedicated - 2019		
Right-of-way	0.99	Miles
Annexed - 2019		
Hard surface with curb		Miles
Hard surface without curb		Miles
Right-of-way		Miles
TOTAL Hard Surface with curb - 2019		Miles
TOTAL Hard Surface without curb - 2019		Miles
TOTAL Pavement through 2019		Miles
TOTAL Right-of-way through 2019	196.55	Miles
ANNEXATIONS		
Total through 2018		Sq. Miles
Annexations - 2019 36.689 Acres		Sq. Miles
TOTAL through 2019	20.2183	Sq. Miles

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