



City of Findlay

Lydia Mihalik, Mayor

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

February 13, 2013

**Ms. Lydia Mihalik
Mayor, City of Findlay
Findlay, OH 45840**

**RE: Engineering Department
Annual Report for Calendar Year 2012**

Ms. Mihalik:

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 for Capital Improvement projects
- 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. At the end of 2012, the Department maintained 7 full time employees, listed below.

Donna Corbin	Finance/Contract Control
Nathan Hoy	Project Manager
Dave Jordan	Chief Construction Inspector
Chad Ritzler	Construction Inspector
Greg Craven	Engineering Technician (GIS)
Glen Springer	Engineering Technician (CAD)
David Ohl	Records Administrator

Meghan Clement, PE, who had acted as engineer for the department in 2012, submitted her resignation in August. In September, the Administration entered into a contract with the Hancock County Engineer's office under which former Hancock County Engineer Steve Wilson, PE, PS, will provide engineering services to the City on an as needed basis. The City reimburses the County Engineer for Wilson's time and expenses. In December, Survey Intern Mark Steward was laid off under the City's program to reduce staff as a result of the failure of the ¼% City Income Tax renewal in the November election.

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,

Steven C. Wilson, PE, PS
Project Manager

Greenwood Street Improvements (West Park)

Greenwood Street was reconstructed between Logan Ave. and Foraker Ave by the installation of new pavement and the addition of curbs, sidewalks, and storm sewers. The final project cost was \$316,000 with funding from Community Development Block Grant (\$151,800), Ohio Public Works Commission grant (\$85,400), and capital improvement and water/sewer funds (\$78,800).

Resurfacing 2012

Ten road sections totaling 2 miles in length were resurfaced through the use of a contractor. Paving and milling costs totaled \$ 345,000. Curb, sidewalk and driveway replacements added \$250,000 to the final cost of \$595,000.

Sewer Lining Program 2012

This is an annual program for lining sanitary sewers to prevent storm and ground water infiltration and to structurally rehabilitate deteriorating concrete sewers. Each sewer that is lined has an extended service life. The lining program also slightly reduces the amount of water treated at the WPC Plant by keeping storm and ground water out of the wastewater system. This allows for reduced treatment costs as well as additional storage capacity at the plant during storm events. In 2012, approximately 3,700 feet of sanitary sewer was lined for a cost of \$146,000.

Sewer Cleaning Program 2012

This is an annual program to inspect and clean sanitary sewers. This year's program focused on the main 36-inch (large diameter) trunk sewer coming from the east into the WPC Plant. This sewer is 25 feet deep and hasn't been visually inspected for at least 80 years. Built-up sediment that has collected over time was removed, and we now have a good visual of the condition of this critical section of pipe. At a cost of \$36,400, 1,850 feet of vitrified sewer pipe was inspected and cleaned. Additionally, 560 feet of pipe was visually inspected only and a leaking manhole was sealed for an additional \$8,000.

Traffic Signal Upgrades

Traffic signal upgrades are an important part of the infrastructure planning due to the aging span wire systems and the need for modern traffic control equipment. As the span wires age, the weights of the signals cause the lines to sag. Damage to the wires often occurs when struck by semi tractor trailers. In 2012, one new signal pole was constructed to accommodate the new drive approach installed at the renovated Warner Nissan facility (intersection of Bright Road and Manor Hill Road) at a cost of \$30,000.

The Engineering Department designed and will manage the following projects in 2013:

- Trenton Avenue/Blanchard Street intersection - Bid in 2012 with construction planned in 2013
- New traffic signal system at Glenwood Middle School – In progress with installation planned in 2013

CR 236 Storm Sewer Improvements

Designed and managed a new storm sewer built along the east side of CR 236 (from State Route 568 to just north of Heatherwood Drive) to replace a failing 110 year old tile which caused a large area on the west side of CR236 to constantly flood from heavy rainfall. This isolated flooding affected local residential property and basements. City crews were required to clean this old section of pipe twice a year which was costly. Punchlist items remain to be completed in 2013. Approximately 1,900 feet of 12"/24" storm sewer pipe was installed at a cost of \$120,000.

Hunter's Gate Headwall

This headwall is currently under construction and replaces a previous headwall that was damaged and deteriorated. Three (3) bids were received in October, and a contract was issued for \$30,000. The headwall will be completed by the end of February 2013 with final cleanup and restoration to be completed in April.

Small Waterlines 2012

Prepared plans for two sections of small waterlines and obtained OEPA approval for installation. The two sections were on TR145 and Lime Street (Donnell Middle School). The Water Distribution Department installed the new waterlines with assistance from the Street Department in repairing the asphalt trench. Both projects were completed by October 2012.

Tiffin Avenue Signal Synchronization

Significant progress was made with this ongoing project by working closely with the consultant EMH&T, City Traffic Department, and ODOT. Final revisions on the construction drawings were addressed and right-of-way acquisition is currently in progress. The final plan package will be submitted to ODOT in March keeping the project on-schedule for bidding in August of 2013.

Parker Building Parking Lot

Designed and managed a rehabilitation of the parking lot to replace significantly deteriorated asphalt, old building slabs, and soft subgrades. Three bids were received, and a contract was issued for \$ 89,000. The project was substantially completed on-time and minor restoration will be completed in the spring of 2013.

Parker Building Roof Replacement

Produced bid documents to replace the 10,000 square foot roof on the building along with some vinyl siding. The roof was receiving continued maintenance and complaints of interior leakage during rainstorms. Three bids were received for the roof replacement, and a contract was issued for \$ 38,000. Construction was completed 1 week prior to the major wind-storm, and no damage or leakage was reported.

Safe Routes to School Program (Donnell Middle School)

This project proposes improvements along Lima Avenue, Lake Cascades Parkway and South West Street. ODOT is administering a \$ 330,000 grant that was received in March of 2011. CT Consultants (formerly Floyd Browne Group) was selected to prepare the project plans and final Stage 1 plans were submitted this week. The status of this project is under review due to the possible impact of the major SR15/68 interchange project.

WPC Carbon Unit

Worked with the Water Pollution Control staff to prepare bid documents and assisted with managing the addition of a Carbon Absorber Odor Control Unit at the plant. A contract of

\$ 42,000 was issued for the work, and the project was successfully completed in the fall of 2012. The City WPC self-performed some of the concrete work in preparation of the new unit.

WTP Solids Contact Clarifier Unit #2 Replacement

Assisted the Water Treatment Plant staff and consultant URS to successfully manage and complete the equipment replacement of the SCU #2. A contract was awarded to Peterson Construction for \$ 891,000, and through value engineering, the design quality was maintained with a final contract price of \$ 854,000. The project was successfully completed in June of 2012.

**CITY OF FINDLAY
DEPARTMENT OF ENGINEERING**

**OPERATIONS SUMMARY
FOR THE YEAR OF 2012**

The following information is provided as a report of operations in the Engineering Department for the year 2012. Corresponding years 2010 and 2011 are shown for comparison.

NEW SANITARY SEWER

	<u>2012</u>	<u>2011</u>	<u>2010</u>
8" Force Main	0 LF	0 LF	0 LF
4" Force Main	0 LF	0 LF	0 LF
6"	0 LF	0 LF	0 LF
8"	2,019 LF	286 LF	1,556 LF
10"	0 LF	0 LF	2,114 LF
12"	0 LF	0 LF	2,672 LF
15"	0 LF	0 LF	0 LF
18"	0 LF	0 LF	0 LF
TOTALS	<u>2,019 LF</u>	<u>286 LF</u>	<u>6,342 LF</u>

SANITARY SEWER PERMITS ISSUED

	<u>2012</u>	<u>2011</u>	<u>2010</u>
Outside City	53	29	37
Inside City	35	61	51
TOTALS	<u>88</u>	<u>90</u>	<u>88</u>

SANITARY SEWER FEES COLLECTED

	<u>2012</u>	<u>2011</u>	<u>2010</u>
Tap/Inspection Fees	\$7,665.00	\$6,825.00	\$7,000.00
Capacity Fees	\$21,419.00	\$41,846.00	\$21,296.00
Rotary Fees	\$6,165.36	\$0.00	\$6,705.82
Impact Fees	<u>\$34,762.00</u>	<u>\$92,323.00</u>	<u>\$38,875.00</u>
	\$70,011.36	\$140,994.00	\$73,876.82

**CITY OF FINDLAY
DEPARTMENT OF ENGINEERING**

**OPERATIONS SUMMARY
FOR THE YEAR OF 2012**

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NEW STORM SEWER

	<u>2012</u>	<u>2011</u>	<u>2010</u>
6"	0 LF	0 LF	0 LF
8"	55 LF	0 LF	(240) LF
10"	90 LF	10 LF	0 LF
12"	3,136 LF	634 LF	2,482 LF
15"	1,712 LF	433 LF	1,007 LF
18"	1,892 LF	233 LF	922 LF
21"	721 LF	0 LF	825 LF
24"	4,984 LF	20 LF	1,116 LF
27"	45 LF	0 LF	560 LF
30"	60 LF	80 LF	0 LF
36"	1,760 LF	666 LF	1,760 LF
42"	0 LF	0 LF	0 LF
48"	2,740 LF	38 LF	2,740 LF
54"	0 LF	0 LF	0 LF
60"	0 LF	0 LF	0 LF
84"	0 LF	0 LF	0 LF
TOTALS	17,195 LF	2,114 LF	11,172 LF

STORM SEWER PERMITS ISSUED

	<u>2012</u>	<u>2011</u>	<u>2010</u>
Outside City	41	25	26
Inside City	36	48	39
TOTALS	77	73	65

STORM SEWER FEES COLLECTED

	<u>2012</u>	<u>2011</u>	<u>2010</u>
Impact Fees	\$6,755.00	\$5,635.00	\$5,285.00

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DEPARTMENT OF ENGINEERING**

**OPERATIONS SUMMARY
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NEW WATERLINE

	<u>2012</u>	<u>2011</u>	<u>2010</u>
6"	968 LF	77 LF	447 LF
8"	5,874 LF	1,680 LF	1,832 LF
10"	13 LF	0 LF	7,727 LF
12"	5,398 LF	(440) LF	0 LF
16"	535 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	12,788 LF	1,317 LF	10,006 LF

WATER SERVICE PERMITS ISSUED

	<u>2012</u>	<u>2011</u>	<u>2010</u>
Outside City	53	29	41
Inside City	29	58	50
TOTALS	82	87	91

WATER FEES COLLECTED

	<u>2012</u>	<u>2011</u>	<u>2010</u>
Tap/Meter Fees	\$91,925.00	\$78,225.00	\$89,575.00
Rotary Fees	\$10,340.00	\$0.00	\$12,870.00
TOTALS	\$102,265.00	\$78,225.00	\$102,445.00

Impact Fees

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**OPERATIONS SUMMARY
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NEW PAVEMENT (HARD SURFACE WITH CURB)

	<u>2012</u>	<u>2011</u>	<u>2010</u>
Total(construction and annexations)	0.35 Miles	0.20 Miles	0.24 Miles

STREET RESURFACING

	<u>2012</u>	<u>2010</u>	<u>2010</u>
Total Increase	20,714 LF 3.92 Miles	16,510 LF 3.13 Miles	4,222 LF 0.80 Miles

CURB CUT PERMITS

	<u>2012</u>	<u>2011</u>	<u>2010</u>
Permits Issued	33	36	48
Fees Collected	\$775.00	\$925.00	\$1,125.00

SIDEWALK PERMITS

	<u>2012</u>	<u>2011</u>	<u>2010</u>
Total Repaired	0 LF	3993 LF	5835 LF
Total Constructed	3112 LF	3618 LF	3735 LF
Permits Issued	2522	131	167

ANNEXATIONS

	<u>2012</u>	<u>2011</u>	<u>2010</u>
Total Increase	0.000 Acres 0.000 Sq Mi.	9.100 Acres 0.015 Sq Mi.	0.822 Acres 0.001 Sq Mi.

**CITY OF FINDLAY
DEPARTMENT OF ENGINEERING**

**OPERATIONS SUMMARY
FOR THE YEAR OF 2012**

WATERLINES

Total through 2011	312.48 Miles
Constructed 2012	2.42 Miles
Removed 2012	0.00 Miles
TOTAL through 2012	314.90 Miles

SANITARY SEWERS

Total through 2011	294.84 Miles
Constructed 2012	0.38 Miles
Removed 2012	0.00 Miles
TOTAL through 2012	295.22 Miles

STREET RIGHT-OF-WAY AND PAVEMENT

Hard surface with curb through 2011	131.02 Miles
Hard surface without curb through 2011	63.01 Miles
TOTAL pavement through 2011	194.03 Miles
TOTAL Right-of-Way through 2011	193.86 Miles
Vacated - 2012	
Hard surface with curb	0.00 Miles
Hard surface without curb	0.00 Miles
Right-of-way	0.00 Miles
Constructed - 2012	
Hard surface with curb	1.78 Miles
Hard surface without curb	(1.22) Miles
Dedicated - 2012	
Right-of-way	0.35 Miles
Annexed - 2012	
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	132.80 Miles
TOTAL Hard Surface without curb	61.79 Miles
TOTAL Pavement through 2012	194.59 Miles
TOTAL Right-of-way through 2012	193.86 Miles

ANNEXATIONS

Total through 2011		19.6308 Sq. Miles
Annexations 2012	0.000 Acres	0.0000 Sq. Miles
TOTAL through 2012		19.6308 Sq. Miles