



City of Findlay

Lydia Mihalik, Mayor

ENGINEERING DEPARTMENT

318 Dorney Plaza, Room 304 • Findlay, OH 45840

Phone: 419-424-7121 • Fax: 419-424-7120

www.findlayohio.com

January 9, 2012

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

**RE: Engineering Department
Annual Report for Calendar Year 2011**

Ms. Mihalik:

Throughout 2011, 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
- Airport grant administration
- Inspection of City owned bridges
- Representation to numerous City Committees and Commissions
- Prevailing wage coordination for Capital Improvement projects
- Flood Hazard Mitigation
- City mapping

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 2011, the Department maintained 9 full time employees, listed below.

Meghan Clement	Professional Engineer
Donna Corbin	Finance/Contract Control
Nathan Hoy	Project Manager
Dave Jordan	Chief Construction Inspector
Chad Ritzler	Construction Inspector
Mark Steward	Surveyor Intern
Greg Craven	Eng. Technician (GIS)
Glen Springer	Engineering Technician (CAD)
David Ohl	Records Administrator

In 2011, the City of Findlay accepted the resignation of Brian Hurt, P.E. the City Engineer. In lieu of the vacancy, Meghan Clement, P.E. worked as the Interim City Engineer until Jim Bischoff, P.E. was hired into the City Engineer job function. At the end of 2011, the new city administration had no further need of his services and he ended his service with the City. Meghan Clement is currently acting as engineer for the department.

Also in 2011, Chad Ritzler was added to the City of Findlay Engineering Department as a Construction Inspector to replace the retirement of Robert Stimmel.

The following pages contain the Annual Operations Summary for the Engineering Department, listing detailed statistical information. Also included are a few summaries of the major projects and undertakings from 2011 that the Engineering Department has assisted in.

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

Respectfully Submitted,



Meghan Clement, P.E.
Professional Engineer

Crystal Ave. Reconstruction (Blanchard Ave. to Melrose Ave.)

The Engineering Department managed a project that reconstructed Crystal Ave. between Blanchard Ave. and Melrose Ave. The construction project included reconstructed pavement, addition of curbs, replacement of waterline, and addition of storm sewers. The contract amount for the reconstruction was approximately 2.8 million dollars with funding from the Ohio Department of Transportation, Capital Improvement, and Water/Sewer funds.

Logan Ave. Reconstruction (West Park)

The Engineering Department managed a project that reconstructed Logan Ave. between Tappan St. and Greenwood St. The construction project included reconstructed pavement, addition of curbs, sidewalks, replacement of waterline, sanitary sewer lining, and addition of storm sewers. The contract amount for the reconstruction was approximately 436,000 dollars with funding from the Community Development Block Grant, Capital Improvement, and Water/Sewer funds.

Resurfacing

In 2011, thirteen roads were chosen along with two parking lots owned by the City to be resurfaced through the use of a contractor. In addition, two roads were resurfaced by the Street Department. The thirteen roads contracted out totaled approximately 3 miles of resurfacing for a cost of around 600,000 dollars.

Sidewalk Program

At the end of 2010, council expressed the desire to start the annual sidewalk repair/installation program again. It had been discontinued in 2005. The first set of notices to homeowners went out in fall of 2010, letting them know that repair or installation of sidewalk was required at their property locations by fall of 2011. In 2011, 46,000 dollars of sidewalks were repaired or installed (29,600 dollars of that assessed back to the homeowners and 16,400 dollars being City owned sidewalk in need of repair). The 2011 notices were sent out at the end of Summer 2011 and construction for that set will begin Spring 2012 at an approximate cost of 58,000 dollars.

Sewer Lining Program

This is an annual program to line sanitary sewers to prevent storm and ground water infiltration. Each sewer that is lined has an extended service life. The lining program also slightly reduces the amount of water treated at the Water Pollution Control Center 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 2011, approximately 4,500 feet of sanitary sewer was lined for a cost of around 200,000 dollars.

Traffic Signal Upgrades

Traffic signal upgrades are an important part of the infrastructure planning due to the aging span wire system. As the span wires age, the weights of the signals cause the line to sag. This lowers the signals at which time semi-trailers hit and damage them. In fall of 2010, two traffic signals were redesigned. Construction on the Main/Howard and Main/Walnut traffic signals began in 2010 with the projects both being finalized in 2011 for an approximate cost of 100,000 each.

WTP Filter Media Replacement

At the Water Treatment Plant, the filter media in the filter beds required removal and replacement. This was completed in 2011 for a total cost of 308,500 dollars. The engineering department assisted the Water Treatment Plant by writing technical specifications for the project as well and bidding and contracting the project.

Geographic Information System (GIS)

The Engineering Department remains the primary developer of the City of Findlay's Geographic Information System (GIS). GIS has proven to be a valuable asset to the City of Findlay. In 2009, the City Engineering department started planning to add a storm sewer layer to the GIS system. Planning and implementation of this layer will take up to 5 years. Work continued on this in 2011.

City-Owned Bridges

The City of Findlay continues to own and maintain four roadway bridges and two pedestrian bridges within the City. These bridges are:

- Blanchard Street Bridge over the Blanchard River
- Dr. Martin Luther King, Jr. Parkway Bridge over the Blanchard River and CSX
- Civitan Park Pedestrian Bridge over the Blanchard River
- East Trenton Avenue Bridge over Howard Run and CSX
- Emory Adams Pedestrian Bridge over Eagle Creek
- Saratoga Drive Bridge over Rush Creek

Annual inspection of vehicular bridges by a certified bridge inspector is required by the Ohio Department of Transportation. Inspections show that the City's structures remain in fair to good condition. Minor deterioration and structural issues with the Dr. Martin Luther King, Jr. Parkway Bridge were noted in 2006. In 2009, a rehabilitation project was completed on the Dr. Martin Luther King, Jr. Bridge that eliminated the issues defined in 2006 and will provide the bridge with an additional 20 years of service life.

There is currently no one on staff certified in bridge inspection.

If the City chooses to accept responsibility for additional bridges within the corporation limits or considers construction of additional bridges, consideration should be given to maintenance personnel, equipment, and funding sources for maintenance and future rehabilitation or replacement projects on these important structures.

USACE Flood Feasibility Study

In response to the flooding events of 2006-present, the City of Findlay has partnered with the US Army Corps of Engineers to undergo a Feasibility Study to find solutions to the flood problems in Findlay. The engineering department has been working along with the County and County Engineer's office to continue the development of the Feasibility Study and future phases of the plan.

**CITY OF FINDLAY
DEPARTMENT OF ENGINEERING**

**OPERATIONS SUMMARY
FOR THE YEAR OF 2011**

The following information is provided as a report of operations in the Engineering Department for the year 2011. Corresponding years 2009 and 2010 are shown for comparison.

NEW SANITARY SEWER

	<u>2011</u>	<u>2010</u>	<u>2009</u>
8" Force Main	0 LF	0 LF	2091 LF
4" Force Main	0 LF	0 LF	1,684 LF
6"	0 LF	0 LF	360 LF
8"	286 LF	1,556 LF	8,373 LF
10"	0 LF	2,114 LF	2,091 LF
12"	0 LF	2,672 LF	293 LF
15"	0 LF	0 LF	969 LF
18"	0 LF	0 LF	0 LF
TOTALS	286 LF	6,342 LF	15,861 LF

SANITARY SEWER PERMITS ISSUED

	<u>2011</u>	<u>2010</u>	<u>2009</u>
Outside City	29	37	15
Inside City	61	51	61
TOTALS	90	88	76

SANITARY SEWER FEES COLLECTED

	<u>2011</u>	<u>2010</u>	<u>2009</u>
Tap/Inspection Fees	\$6,825.00	\$7,000.00	\$21,155.00
Capacity Fees	\$41,846.00	\$21,296.00	\$21,054.00
Rotary Fees	\$0.00	\$6,705.82	\$9,556.96
Impact Fees	\$92,323.00	\$38,875.00	\$42,572.70
	\$140,994.00	\$73,876.82	\$94,338.66

**CITY OF FINDLAY
DEPARTMENT OF ENGINEERING**

**OPERATIONS SUMMARY
FOR THE YEAR OF 2011**

The following information is provided as a report of operations in the Engineering Department for the year 2011. Corresponding years 2009 and 2010 are shown for comparison.

NEW STORM SEWER

	<u>2011</u>	<u>2010</u>	<u>2009</u>
6"	0 LF	0 LF	250 LF
8"	0 LF	(240) LF	490 LF
10"	10 LF	0 LF	415 LF
12"	634 LF	2,482 LF	3,058 LF
15"	433 LF	1,007 LF	1,305 LF
18"	233 LF	922 LF	705 LF
21"	0 LF	825 LF	0 LF
24"	20 LF	1,116 LF	1,630 LF
27"	0 LF	560 LF	0 LF
30"	80 LF	0 LF	875 LF
36"	666 LF	1,760 LF	170 LF
42"	0 LF	0 LF	0 LF
48"	38 LF	2,740 LF	0 LF
54"	0 LF	0 LF	0 LF
60"	0 LF	0 LF	96 LF
84"	0 LF	0 LF	553 LF
TOTALS	2,114 LF	11,172 LF	9,547 LF

STORM SEWER PERMITS ISSUED

	<u>2011</u>	<u>2010</u>	<u>2009</u>
Outside City	25	26	13
Inside City	48	39	46
TOTALS	73	65	59

STORM SEWER FEES COLLECTED

	<u>2011</u>	<u>2010</u>	<u>2009</u>
Impact Fees	\$5,635.00	\$5,285.00	\$4,375.00

**CITY OF FINDLAY
DEPARTMENT OF ENGINEERING**

**OPERATIONS SUMMARY
FOR THE YEAR OF 2011**

The following information is provided as a report of operations in the Engineering Department for the year 2011. Corresponding years 2009 and 2010 are shown for comparison.

NEW WATERLINE

	<u>2011</u>	<u>2010</u>	<u>2009</u>
6"	77 LF	447 LF	1,141 LF
8"	1,680 LF	1,832 LF	16,008 LF
10"	0 LF	7,727 LF	0 LF
12"	(440) LF	0 LF	4,184 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>1,317 LF</u>	<u>10,006 LF</u>	<u>21,333 LF</u>

WATER SERVICE PERMITS ISSUED

	<u>2011</u>	<u>2010</u>	<u>2009</u>
Outside City	29	41	17
Inside City	58	50	44
TOTALS	<u>87</u>	<u>91</u>	<u>61</u>

WATER FEES COLLECTED

	<u>2011</u>	<u>2010</u>	<u>2009</u>
Tap/Meter Fees	\$78,225.00	\$89,575.00	\$53,725.00
Rotary Fees	\$0.00	\$12,870.00	\$4,400.00
TOTALS	<u>\$78,225.00</u>	<u>\$102,445.00</u>	<u>\$58,125.00</u>

Impact Fees

**CITY OF FINDLAY
DEPARTMENT OF ENGINEERING**

**OPERATIONS SUMMARY
FOR THE YEAR OF 2011**

The following information is provided as a report of operations in the Engineering Department for the year 2011. Corresponding years 2009 and 2010 are shown for comparison.

NEW PAVEMENT (HARD SURFACE WITH CURB)

	<u>2011</u>	<u>2010</u>	<u>2009</u>
Total(construction and annexations)	0.20 Miles	0.24 Miles	0.00 Miles

STREET RESURFACING

	<u>2011</u>	<u>2010</u>	<u>2009</u>
Total Increase	16,510 LF 3.13 Miles	4,222 LF 0.80 Miles	0 LF 0.00 Miles

CURB CUT PERMITS

	<u>2011</u>	<u>2010</u>	<u>2009</u>
Permits Issued	36	48	63
Fees Collected	\$925.00	\$1,125.00	\$1,550.00

SIDEWALK PERMITS

	<u>2011</u>	<u>2010</u>	<u>2009</u>
Total Repaired	3993 LF	5835 LF	3284 LF
Total Constructed	3618 LF	3735 LF	6082 LF
Permits Issued	131	167	161

ANNEXATIONS

	<u>2011</u>	<u>2010</u>	<u>2009</u>
Total Increase	9.100 Acres 0.015 Sq Mi.	0.822 Acres 0.001 Sq Mi.	72.435 Acres 0.113 Sq Mi.

**CITY OF FINDLAY
DEPARTMENT OF ENGINEERING**

**OPERATIONS SUMMARY
FOR THE YEAR OF 2011**

WATERLINES

Total through 2010	312.05 Miles
Constructed 2011	0.34 Miles
Removed 2011	0.09 Miles
TOTAL through 2011	312.48 Miles

SANITARY SEWERS

Total through 2010	294.84 Miles
Constructed 2011	0.00 Miles
Removed 2011	0.00 Miles
TOTAL through 2011	294.84 Miles

STREET RIGHT-OF-WAY AND PAVEMENT

Hard surface with curb through 2010	130.77 Miles
Hard surface without curb through 2010	63.07 Miles
TOTAL pavement through 2010	193.84 Miles
TOTAL Right-of-Way through 2010	193.67 Miles
Vacated - 2011	
Hard surface with curb	0.00 Miles
Hard surface without curb	0.00 Miles
Right-of-way	0.00 Miles
Constructed - 2011	
Hard surface with curb	0.25 Miles
Hard surface without curb	-0.15 Miles
Dedicated - 2011	
Right-of-way	0.10 Miles
Annexed - 2011	
Hard surface with curb	0.00 Miles
Hard surface without curb	0.09 Miles
Right-of-way	0.09 Miles
TOTAL Hard Surface with curb	131.02 Miles
TOTAL Hard Surface without curb	63.01 Miles
TOTAL Pavement through 2011	194.03 Miles
TOTAL Right-of-way through 2011	193.86 Miles

ANNEXATIONS

Total through 2010		19.6163 Sq. Miles
Annexations 2011	9.100 Acres	0.0145 Sq. Miles
TOTAL through 2011		19.6308 Sq. Miles

STREET PAVING TABULATIONS FOR 2011

New Pavement Projects		Project #	Original Year	Cost	TBR	City	Assessed	Length	Cost	Remarks
Interstate Court - AG	311038	n/a	n/a	n/a	X			540		
Resurfacing										
Logan Ave Storm Sewer (CDBG-FY2009)	325929	?	?	?						
Western Ave	328101	1995	\$ 35,000	775		\$ 53,474				
Crystal Ave	"	1958	\$ 29,000	2100		\$ 65,000				Lake Cascades Pky to 2100' south
Industrial Dr	"	1987	?	2690		\$ 95,000				Blanchard St to Walnut St
Monroe St	"	?	?	375		\$ 29,000				Bright Rd to 375' east
Morey Ave	"	?	?	970		\$ 22,000				Bolton St to Morey Ave
E Sandusky St	"	?	?	1110		\$ 26,000				Rector Ave to 1110' south
Dr Martin Luther King Pky	"	?	?	470		\$ 25,000				Main St to Beech Ave
W Lincoln St	"	1978	?	885		\$ 52,000				Blanchard St to Clinton St
Norcrest Ave	"	1955	?	1325		\$ 110,000				Liberty St to Western Ave
E Main Cross St	"	1969	?	590		\$ 43,000				Ridgeview Dr to 3201 Norcrest St
Sixth St	"	?	?	1500		\$ 35,000				Osborn Ave to Warrington Ave
Brookside Dr	"	?	?	1740		\$ 36,000				West of Eagle Creek to Amelia Ave
S Main St	"	?	?	830		\$ 19,000				Sixth St to Meadowlark Dr
	"	1980's	?	675		\$ 45,000				Yates Ave to Woodley Ave
TOTAL									540	
MILES									0.1023	
Street Dept. Resurfacing										
Hull Ave	328107	1951	\$ 7,680	845		\$ 58,000				
Jennifer Ln	"	1965	?	385		\$ 35,000				
TOTAL									16510	\$ 655,474
MILES									3.127	
TOTAL									1230	\$ 93,000
MILES									0.23295	

