



City of Findlay

Pete Sehnert, Mayor

ENGINEERING DEPARTMENT

Brian Hurt, P.E., City Engineer

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Jim Barker
Safety Director

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January 25, 2010

**Mr. Pete Sehnert
Mayor, City of Findlay
Findlay, OH 45840**

**RE: Engineering Department
Annual Report for Calendar Year 2010**

Mr. Sehnert:

Throughout 2010, 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 2010, the Department maintained 10 full time employees, listed below.

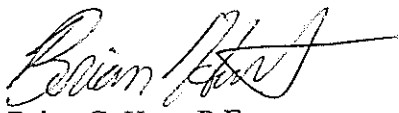
Brian Hurt	Chief Engineer	Greg Craven	Eng. Technician (GIS)
Meghan Clement	Professional Engineer	Glen Springer	Engineering Tech (CAD)
Dave Jordan	Chief Construction Insp.	Donna Corbin	Finance/Contract Control
Robert Stimmel	Construction Inspector	David Ohl	Records Administrator
Mark Steward	Surveyor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

In 2010, Meghan Clement became a Profession Civil Engineer for the State of Ohio. She is the second Professional Engineer that is employed by the City of Findlay. Ms. Clement is paid out of a combination of the Stormwater Fund (50%), Water Fund (25%) and Sewer fund (25%), rather than the General Fund. This funding method allows Ms. Clement to manage the OEPA mandated Stormwater Management Plan. This will also allow her to knowledge of the City's sewer and water systems in hopes to aid the Water and Wastewater departments with engineering issues.

The following pages contain the Annual Operations Summary for the Engineering Department, listing detailed statistical information. In addition, a short written description of the engineering department's involvement in the Sanitary Sewer Lining Project, WPC Storage Building Expansion, Zebra Mussel Control Facility, progress of maintenance on Geographic Information System, status of City-owned bridges and an update of USACE Flood Feasibility Study are included.

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

Respectfully Submitted,



Brian C. Hurt, P.E.
City Engineer

ARRA Funded Sanitary Sewer Lining

The Engineering Department managed a project that lined approximately 10,000 feet of sanitary sewer at more than 20 sites around the City. The liner was placed mostly in areas where sewers were crossing, or running adjacent to, streams or ditches. The liner is made up of a polymer material that provides structural support to a deteriorating sewer. The liner will also eliminate infiltration from groundwater sources located near the sewer. Half of the project funding was supplied by the American Reinvestment and Recovery Act. The remainder of the project was funded through the sewer fund. The final project cost was \$37,000 below the original budgeted amount.

ARRA Funded WPC Storage Building

The Engineering Department managed a project that involved the expansion of the current sewer maintenance building. The project consisted of a 3,000 square foot addition to an existing building. The addition houses sewer maintenance equipment. The project also provided sewer maintenance personnel with new offices and a break room. Half of the project funding was supplied by the American Reinvestment and Recovery Act. The remainder of the project was funded through the sewer fund. The final project cost was \$300 below the original budgeted amount.

Findlay Reservoir Zebra Mussel Control Facility

The Engineering Department managed the design and construction of a Zebra Mussel control facility at the Findlay reservoir. The facility consisted of a small, fenced-in building that contains equipment to disperse sodium permanganate into the raw water outlet of the reservoir. The project also required the installation of chemical feed lines inside the outlet structure, which required the use of specialized divers. The final project cost was \$30,000 below the appropriated amount.

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 2010, the City Engineering department continued to add a storm sewer layer to the GIS system. Planning and implementation of this layer will take a couple more years to complete. The priority for 2011 will be to continue to make more sections of the storm sewer system available for viewing.

Also in 2011, there will be continued efforts to link more scanned documents to the GIS system for viewing and to make the documents easier to find.

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.

Brian C. Hurt, P.E. is a certified bridge inspector through the State of Ohio. He is the only person on staff that is certified in this manner.

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 2006-2009, 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. In 2010, the engineering department along with USACE district office in Buffalo, NY and the Northwest Ohio Flood Mitigation Partnership was able to continue studies that will be incorporated in the Flood Reduction Study. Most of the studies were created to determine the existing conditions that are located in the watershed. The studies documented existing Environmental; Architectural; and Economic Damage conditions. In 2010, the City also negotiated with the Corps to use a consultant to finish the technical activities in the Feasibility Study so it can be brought to completion in a timelier manner.

**CITY OF FINDLAY
DEPARTMENT OF ENGINEERING**

**OPERATIONS SUMMARY
FOR THE YEAR OF 2010**

The following information is provided as a report of operations in the Engineering Department for the year 2010. Corresponding years 2008 and 2009 are shown for comparison.

NEW STORM SEWER

	<u>2010</u>	<u>2009</u>	<u>2008</u>
6"	0 LF	250 LF	919 LF
8"	(240) LF	490 LF	135 LF
10"	0 LF	415 LF	35 LF
12"	2,482 LF	3,058 LF	6,430 LF
15"	1,007 LF	1,305 LF	2,004 LF
18"	922 LF	705 LF	1,250 LF
21"	825 LF	0 LF	681 LF
24"	1,116 LF	1,630 LF	1,135 LF
27"	560 LF	0 LF	896 LF
30"	0 LF	875 LF	933 LF
36"	1,760 LF	170 LF	268 LF
42"	0 LF	0 LF	704 LF
48"	2,740 LF	0 LF	0 LF
54"	0 LF	0 LF	18 LF
60"	0 LF	96 LF	0 LF
84"	0 LF	553 LF	0 LF
TOTALS	<u>11,172 LF</u>	<u>9,547 LF</u>	<u>15,408 LF</u>

STORM SEWER PERMITS ISSUED

	<u>2010</u>	<u>2009</u>	<u>2008</u>
Outside City	26	13	27
Inside City	39	46	70
TOTALS	<u>65</u>	<u>59</u>	<u>97</u>

STORM SEWER FEES COLLECTED

	<u>2010</u>	<u>2009</u>	<u>2008</u>
Impact Fees	\$5,285.00	\$4,375.00	\$7,735.00

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DEPARTMENT OF ENGINEERING**

**OPERATIONS SUMMARY
FOR THE YEAR OF 2010**

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NEW SANITARY SEWER

	<u>2010</u>	<u>2009</u>	<u>2008</u>
8" Force Main	0 LF	2091 LF	0 LF
4" Force Main	0 LF	1,684 LF	0 LF
6"	0 LF	360 LF	575 LF
8"	1,556 LF	8,373 LF	10,896 LF
10"	2,114 LF	2,091 LF	332 LF
12"	2,672 LF	293 LF	475 LF
15"	0 LF	969 LF	893 LF
18"	0 LF	0 LF	0 LF
21"	0 LF	0 LF	0 LF
24"	0 LF	0 LF	0 LF
30"	0 LF	0 LF	0 LF
34"	0 LF	0 LF	0 LF
36"	0 LF	0 LF	0 LF
42"	0 LF	0 LF	0 LF
TOTALS	<u>6,342 LF</u>	<u>15,861 LF</u>	<u>13,171 LF</u>

SANITARY SEWER PERMITS ISSUED

	<u>2010</u>	<u>2009</u>	<u>2008</u>
Outside City	37	15	27
Inside City	51	61	70
TOTALS	<u>88</u>	<u>76</u>	<u>97</u>

SANITARY SEWER FEES COLLECTED

	<u>2010</u>	<u>2009</u>	<u>2008</u>
Tap/Inspection Fees	\$7,000.00	\$21,155.00	\$8,680.00
Capacity Fees	\$21,296.00	\$21,054.00	\$23,958.00
Rotary Fees	\$6,705.82	\$9,556.96	\$15,846.00
Impact Fees	\$38,875.00	\$42,572.70	\$44,644.00
	<u>\$73,876.82</u>	<u>\$94,338.66</u>	<u>\$93,128.00</u>

**CITY OF FINDLAY
DEPARTMENT OF ENGINEERING
OPERATIONS SUMMARY
FOR THE YEAR OF 2010**

The following information is provided as a report of operations in the Engineering Department for the year 2010. Corresponding years 2008 and 2009 are shown for comparison.

NEW WATERLINE

	<u>2010</u>	<u>2009</u>	<u>2008</u>
4"	0 LF	0 LF	0 LF
6"	447 LF	1,141 LF	1,653 LF
8"	1,832 LF	16,008 LF	14,069 LF
10"	7,727 LF	0 LF	2,506 LF
12"	0 LF	4,184 LF	698 LF
16"	0 LF	0 LF	0 LF
20"	0 LF	0 LF	756 LF
24"	0 LF	0 LF	0 LF
30"	0 LF	0 LF	0 LF
36"	0 LF	0 LF	0 LF
TOTALS	<u>10,006 LF</u>	<u>21,333 LF</u>	<u>19,682 LF</u>

WATER SERVICE PERMITS ISSUED

	<u>2010</u>	<u>2009</u>	<u>2008</u>
Outside City	41	17	37
Inside City	50	44	64
TOTALS	<u>91</u>	<u>61</u>	<u>101</u>

WATER FEES COLLECTED

	<u>2010</u>	<u>2009</u>	<u>2008</u>
Tap/Meter Fees	\$89,575.00	\$53,725.00	\$82,275.00
Rotary Fees	\$12,870.00	\$4,400.00	\$33,030.80
TOTALS	<u>\$102,445.00</u>	<u>\$58,125.00</u>	<u>\$115,305.80</u>

Impact Fees

**CITY OF FINDLAY
DEPARTMENT OF ENGINEERING**

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

	<u>2010</u>	<u>2009</u>	<u>2008</u>
Total(construction and annexations)	0.24 Miles	0.00 Miles	1.30 Miles

STREET RESURFACING

	<u>2010</u>	<u>2009</u>	<u>2008</u>
Total Increase	4,222 LF 0.80 Miles	0 LF 0.00 Miles	24,046 LF 4.60 Miles

CURB CUT PERMITS

	<u>2010</u>	<u>2009</u>	<u>2008</u>
Permits Issued	48	63	35
Fees Collected	\$1,125.00	\$1,550.00	\$825.00

SIDEWALK PERMITS

	<u>2010</u>	<u>2009</u>	<u>2008</u>
Total Repaired	5835 LF	3284 LF	
Total Constructed	3735 LF	6082 LF	4201 LF
Permits Issued	167	161	195

ANNEXATIONS

	<u>2010</u>	<u>2009</u>	<u>2008</u>
Total Increase	0.822 Acres 0.001 Sq Mi.	72.435 Acres 0.113 Sq Mi.	14.812 Acres 0.023 Sq Mi.

**CITY OF FINDLAY
DEPARTMENT OF ENGINEERING**

**OPERATIONS SUMMARY
FOR THE YEAR OF 2009**

WATERLINES

Total through 2009	310.16 Miles
Constructed 2010	1.89 Miles
Removed 2010	0.00 Miles
TOTAL through 2010	312.05 Miles

SANITARY SEWERS

Total through 2009	293.64 Miles
Constructed 2010	1.20 Miles
Removed 2010	0.00 Miles
TOTAL through 2010	294.84 Miles

STREET RIGHT-OF-WAY AND PAVEMENT

Hard surface with curb through 2009	129.73 Miles
Hard surface without curb through 2009	63.87 Miles
TOTAL pavement through 2009	193.60 Miles
TOTAL Right-of-Way through 2009	193.43 Miles
Vacated - 2010	
Hard surface with curb	0.00 Miles
Hard surface without curb	0.00 Miles
Right-of-way	0.00 Miles
Constructed - 2010	
Hard surface with curb	1.04 Miles
Hard surface without curb	-0.80 Miles
Dedicated - 2010	
Right-of-way	0.24 Miles
Annexed - 2010	
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	130.77 Miles
TOTAL Hard Surface without curb	63.07 Miles
TOTAL Pavement through 2009	193.84 Miles
TOTAL Right-of-way through 2009	193.67 Miles

ANNEXATIONS

Total through 2009	19.6153 Sq. Miles
Annexations 2010	0.822 Acres 0.0010 Sq. Miles
TOTAL through 2010	19.6163 Sq. Miles

