



WARREN COUNTY ENGINEER'S OFFICE
NEIL F. TUNISON, P.E., P.S.

Annual Report

2010

www.WCEO.us



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Dear Citizens of Warren County,

It is my honor to present the Annual Report for the Office of the Warren County Engineer for the year 2010. This report presents the exciting projects planned and implemented as well as the many other activities of our service to the county. I could not accomplish all that we have without my dedicated staff of 48 professionals and support personnel.

We are committed to working with our Board of County Commissioners, County Prosecutor's Office and other County offices, all of our Township Trustees and Fiscal Officers, municipalities, and ODOT to help you get around our beautiful county!



Neil F. Tunison
Warren County Engineer

Sincerely,

Neil F. Tunison, P.E., P.S.
Warren County Engineer

Financial Highlights for 2010

EXPENDITURES

Payroll	\$ 2,247,192.50
Equipment & Facilities (including Maintenance)	1,682,494.80
Other	20,265.63
Benefits	967,848.74
Road Resurfacing & Maintenance	226,713.37
Capitol Improvements	3,662,985.99
Insurance	28,004.35
	\$ 8,835,505.38

REVENUE

Investments	\$ 0.00
Reimbursement	452,935.69
Sales	334,387.02
GIS	212.37
Gas Tax	2,366,744.74
Vehicle License	5,385,227.50
	\$ 8,539,507.32

Ohio Revised Code 5543.02 Annual Report

The county engineer shall report to the board of county commissioners, on or before the first day of June in each year, the condition of the county roads, bridges, and culverts, and estimate the probable amount of funds required to maintain and repair or to construct any new roads, bridges, or culverts required within the county.

The engineer, on or before the first day of June in each year, shall make an annual estimate for the board of township trustees of each township, setting forth the amount required by the township for the construction, reconstruction, resurfacing, or improvement of the public roads within their jurisdiction. Such estimates shall relate to the year beginning on the first day of March next ensuing, and shall be for the information of the board of county commissioners and board of township trustees, in the making of their annual levies.

The engineer shall approve all estimates which are paid from county funds for the construction, improvement, maintenance, and repair of roads and bridges by the county. The engineer shall approve all estimates which are paid from township funds for the construction, reconstruction, resurfacing, or improving of roads under sections 5571.01, 5571.06, 5571.07, 5571.15, and 5573.01 to 5573.09 of the Revised Code. The engineer shall also approve all estimates which are paid from the funds of a road district for the construction, reconstruction, resurfacing, or improvement of the roads thereof under section 5573.21 of the Revised Code.

For the construction or repair of a bridge, the entire cost of which construction or repair exceeds fifty thousand dollars, the county engineer may request the director of transportation to review and comment on the plans for conformance with state and federal requirements. If so requested, the director shall review and comment on the plans.

2010 Year in Review

The year 2010 for the Warren County Engineer's Office included an assortment of great road improvements which increased the safety for various areas throughout our region.

The intersection of Drake Road and Old State Route 122 in Turtlecreek Township was reconstructed to provide a safe level of sight distance greatly improving the function of the intersection. The intersection of Columbia Road and Socialville-Fosters Road received an expansion to not only better hold traffic but directed traffic more efficiently because of the addition of turn lanes.

This is just the start of a number of completed projects.

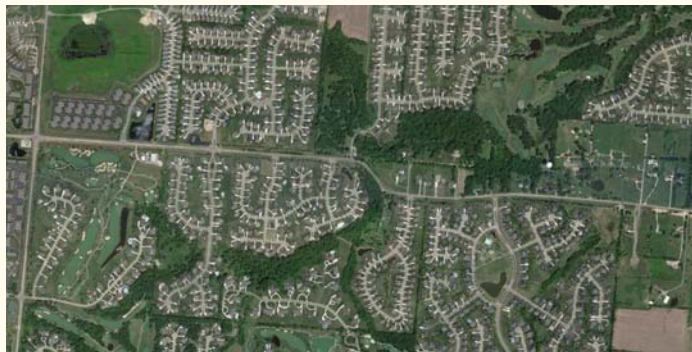


Above: The WCEO Office

Please read on further for the 2010 review of the accomplishments of our team of engineers and support staff who serve Warren County through a variety of engineering, construction, and land record keeping services.

Bethany Road Improvements (Butler-Warren Rd to Mason Corp Limit)

With an average daily traffic count of 9000 vehicles per day, up from 1,000 vehicles per day ten years ago, Bethany Road has become functionally obsolete. The project was identified as a need in the Southwest Warren County Transportation



Study (SWWCTS). The improvement project limits are from Butler-Warren Road to the City of Mason Corp. Limit on Bethany Road. The improvements proposed involve widening the road to add a middle turn lane. The road will be realigned and the

elevation modified to improve sight distance. A portion of the project will also involve replacing the bridge just east of Pinnacle Ln. The total estimated cost for the project is \$6,300,000. Funding is coming from both the Warren County Engineer and federal



Top: Aerial of Bethany Road from Butler-Warren Rd to City of Mason Corp Limit

Left: Deep curve in original road near Pinnacle Dr Intersection

funding through the Ohio Department of Transportation (ODOT). The design consultant on the project is KZF Design who is assisting in the planning, environmental, and engineering phase at a cost of \$487,339. Construction contract bids will be opened on April 28, 2011. The project is slated for Summer 2011 – Fall 2012.

Butler-Warren Road Improvements (Tylersville Road to Bethany Road)



Butler-Warren Road is currently two-lanes and insufficient for its function. Traffic flows have already developed to severe congestion during certain period of times daily. This project was identified as a need in the Southwest Warren County Transportation Study (SWWCTS). The proposed project consists of five lanes with a median two-way left turn lane from Tylersville Road to Bethany Road at an estimated total cost of \$11,200,000. The funding for the project is

provided jointly by the Butler County Engineer and the Warren County Engineer and Federal funding through the Ohio Department of Transportation. The consultant on the project is TranSystems. The Butler County Engineer is leading this project. Bids will be opened in May 2011 with construction period from Summer 2011—Spring 2013.

Chamberlain Road Improvement Project



The Warren County Engineer's Office has completed the inspection of the construction at the intersection of Chamberlain Road and Morningstar Road. This project consists of 220 linear feet of retaining wall, including 36 inch concrete diameter with HP 12x53 and concrete laggings.

Also constructed is an 8x5x60 foot concrete box culvert with 750 feet of pavement. Langenheim and Thomson Company completed work on December 9, 2010 after 13 weeks of construction. \$351,917 of this project

was funded by Franklin Township and OPWC.



Columbia Road and Fields-Ertel Road Intersection Improvements

Currently the intersection of Fields-Ertel Road and Columbia Road (Lebanon Road in Hamilton County) is frequently congested and a high accident area. To improve level of service, the Warren County Engineer's Office and the Hamilton County Engineer's Office are partnering to widen the travel lanes, update the traffic signal system, and add turning lanes. Both the Warren County Engineer and the Hamilton County Engineer are funding the \$1,800,000 for the intersection improvements. The project is currently in design phase with EMH&T as the consultant and construction is not yet scheduled.

Columbia Road and Socialville-Fosters Road

This intersection was highly congested. The improvement project involved adding left-turn lanes on Socialville-Fosters Road. The signals were adjusted to include protected left-turns on the north and south approaches. Minor profile adjustments were also made to correct some uneven pavement. The project's total cost was \$536,372.00. The project was funded by the Warren County Commissioner's Highway Safety Fund. The consultant on the project was PE Group. The project began and was completed in the fall of 2010.



Concrete Bridge Repair Project



This project consisted of repairing concrete structures on seven bridges located on various roads in Warren County.



W.E. Smith Construction completed the repair work during the summer of 2010 for \$65,426.00. The project was funded by the Warren County Engineer.

Drake Road Widening and Old SR 122



The skewed three-way intersection of Drake Road at Old SR 122 has been realigned to have a right angle. In addition, the alignment of Drake Road has been adjusted and widened, from the intersection, south to the Turtlecreek / Clearcreek Township Line. The project cost was \$493,878.87, which was funded by a Ohio Public Works Commission (OPWC) Grant, the Warren County Engineer, and Clearcreek Township. The project was designed by the Warren County Engineer's Office. Construction was completed in August of 2010.



Dry Run Road Bridge #81-0.05



existing concrete bridge and replacing it with a precast concrete box culvert bridge. The project cost \$63,694.06 using funds from the Warren County Engineer.

Warren County replaced the Dry Run Road Bridge #81-0.05 during the fall of 2010. The bridge is located on Dry Run Road over a Branch of Dry Run between Lebanon Road and Snook Road in Union Township. It was a force account project that consisted of removing the



Fosters-Maineville Rd and Butterworth Rd Intersection Improvements

The Warren County Engineer is working on a project to improve the intersection of Fosters-Maineville Road and Butterworth Road. Currently, the high accident intersection has limited sight distance for traffic turning off of Butterworth Road onto Fosters-Maineville Road and for traffic turning left off of Fosters-Maineville Road onto Butterworth Road. Fosters-Maineville Road will be realigned to the south to improve the intersection sight distance to the required ODOT standards. A retaining wall will be added along the south side of the road to accommodate the realignment. A left turn lane will also be added on Fosters-Maineville in an effort to eliminate rear end accidents and to improve sight distance for left turning vehicles. Currently the project is in the design phase, which is being completed by Henderson and Bodwell for \$92,950. Construction, which is estimated to cost \$700,000, is planned for the future depending on available funding.

Greentree Road Improvements - Assessment



Greentree Road, between Shaker Run Blvd. and Meadow View Lane, had a large hump in the road causing poor sight distance. Vertical and horizontal profile improvements were made at a cost of \$750,000 which was funded by the Warren County Commissioner's Highway Safety Fund. The consultant for the project was Bayer & Becker, Inc. and construction is being completed by the John R. Jurgensen Company, set to be complete in 2011.



Irwin-Simpson Road Relocation west of Wilkens Blvd



Deerfield Township and Warren County worked together in a joint construction project which involved the realignment of Irwin-Simpson Road from Nottingham Way to Wilkens Boulevard and the widening of Irwin-Simpson Road to Polo Drive. The construction was funded by Deerfield Township with the construction design and



right-of-way acquisition funded by Warren County. The County Engineer's Office managed the design and construction phases of this project. The project began in the fall of 2009. At the time, Irwin-Simpson Road did not line up at Wilkens Boulevard and so the traffic flow had to utilize Wilkens Boulevard to continue on Irwin-Simpson Road. The project was undertaken to realign 1400 feet of Irwin-Simpson Road from Nottingham Way to Polo Drive at a cost of \$1,980,050.98. Part of the plan was for a portion of the existing Irwin-Simpson Road west of Wilkens Boulevard to be abandoned and a cul-de-sac 350 feet west of Wilkens Boulevard was constructed. The design consultant on the project was American Structurepoint and the construction contract was awarded to Mt. Pleasant Blacktop, Inc. Construction was completed in June of 2010.

Liberty-Keuter Road Culvert #95-0.28



Turtlecreek Township and Warren County in a joint project replaced the Liberty-Keuter Road Culvert #95-0.28 during the summer of 2010.



The culvert is located on Liberty-Keuter Road over a branch of Turtlecreek between SR 123 and Timbercreek Drive in Turtlecreek Township. The existing concrete structure was replaced with a large circular pipe with concrete headwalls. Smith Construction completed the culvert replacement for \$100,172.25. The culvert replacement was funded by Turtlecreek Township, Warren County, and the Ohio Public Works Commission (OPWC) Grant.

Lower Springboro Road Bridge #22-4.76



The City of Springboro and Warren County in a joint project replaced the Lower Springboro Road Bridge #22-4.76 during the summer of 2010. The bridge is located on Lower Springboro Road over Richards Run between East Street and Mound Park Drive in the City of Springboro. The existing pre-stressed concrete box beam bridge was replaced with a pre-stressed composite concrete box beam bridge. SK Construction completed the bridge replacement for \$542,914.00. The bridge replacement was funded by the City of Springboro, the Warren County Engineer, and the Ohio Public Works Commission..

The City of Springboro and Warren County in a joint project replaced the Lower Springboro Road Bridge #22-4.76 during the summer of 2010. The bridge is located on Lower Springboro Road over Richards Run between East Street and Mound Park Drive in the City of Springboro. The existing pre-stressed concrete box beam bridge was replaced with a pre-stressed composite concrete box beam bridge. SK Construction completed the bridge replacement for \$542,914.00. The bridge

Lytle-Ferry Road Bridge #135-0.48



Warren County replaced the Lytle-Ferry Road Bridge #135-0.48 during the summer of 2010. The bridge is located on Lytle-Ferry Road over the North Fork of Newmans Run between Lytle Road and Elm Tree Road in Wayne Township. It was a force account project that consisted of removing the existing concrete bridge and replacing it with an aluminum box culvert bridge. The project cost \$81,071.98 using funds from the Warren County Engineer.

Warren County replaced the Lytle-Ferry Road Bridge #135-0.48 during the summer of 2010. The bridge is located on Lytle-Ferry Road over the North Fork of Newmans Run between Lytle Road and Elm Tree Road in Wayne Township. It was a force account



Mason-Montgomery Road Widening



This project is located within one of the most congested areas of southwest Ohio. The project will include the widening of northbound Mason-Montgomery Road along the east side between Fields-Ertel Road and Parkway Drive in order to provide an additional northbound lane. The existing pavement markings between the I-71 northbound off ramp and Fields-Ertel Road will be modified to allow it to function as a combination "through and right turn" lane. The total estimated cost of the project is \$1,604,500. The project consultant is Kleingers and Associates, Inc. The project is funded by an Ohio Public Works Commission (OPWC) Grant, the Warren County Engineer, and the Hamilton County Engineer. The project design is essentially complete pending completion of a construction plan review by the Ohio Department of Transportation (ODOT) and utility relocation. The advertisement for construction bids are anticipated in May with construction completed by October of this year.

Morrow-Woodville Road Culvert #24-3.03



Warren County replaced the Morrow-Woodville Road Large Culvert #24-3.03 during the spring of 2010. The culvert is located on Morrow-Woodville Road over a branch of Windsor Run between Bindley-Mounts Road and SR 28 in Harlan Township. It was a force account project that consisted of removing the

existing concrete arch and replacing it with a precast concrete box culvert.

The project was completed in June of 2010 at a cost of \$126,429.47, which was funded by the Warren County Engineer.



Western Row Road Bridge #54-4.17



Rehabilitation of the Western Row Road Bridge #54-4.17 over Union Run in Deerfield Township was completed in August of 2010. The bridge is located on Western Row Road between Columbia Road and Northgate Drive. The existing steel

beams were removed and replaced with new ones that increased the bridge deck width from 24 feet to 28 feet. W.E. Smith Construction completed the bridge rehabilitation for \$145,902.37. The project was funded by the Warren County Engineer.



2010 Resurfacing

Cost - \$1,520,803.50

Contractor - John R. Jurgensen

Warren County Roads

	mileage
Oregonia Road (CR 12)	0.420
Greentree Road (CR 20)	1.086
Greentree Road (CR 20)	1.107
Morrow-Woodville Road (CR 24)	0.140
Lytle Five-Points Road (CR 46)	0.882
Shaker Road (CR 48)	1.954
Pekin Road (CR 53)	0.420
Zoar Road (CR 153)	0.908
Ludlum (CR 163)	0.171
Roachester-Osceola Road (CR 200)	2.199
Natorp Blvd (CR 295)	0.222
Duke Drive (CR 296)	1.117
Nunner Road (TR 159)	0.214
Clarksville Road (CR 37)	0.332
Olive Branch (CR 217)	0.105
Jeffery Road (CR 268)	0.140
	11.417

Franklin Township Roads

	mileage
Franklin-Trenton Road (TR 270)	0.222
	0.222

Hamilton Township Roads

	mileage
Maineville Road (TR 34)	0.402
Lakeshore Drive (TR 975)	0.428
Pine View Drive (TR 982)	0.057
Faller Road (TR 1228)	0.149
Pear Tree Lane (TR 1229)	0.078
	1.114

Harlan Township Roads

	mileage
Achterman Road (TR 169)	0.299
Pleasant-Renner Road (TR 172)	0.827
Osceola Road (TR 201)	1.221
	2.347

Salem Township Roads

	mileage
Salem Road (TR 1132)	0.136
	0.136

Union Township Roads

	mileage
Lebanon Road (TR 16)	0.510
Shawhan Road (TR 79)	2.116
Trovillo Road (TR 85)	0.072
	2.698

2010 Stimulus Resurfacing

Cost - \$1,740,288.79 (100% funded by American Recovery and Reinvestment Act)

Contractor - John R. Jurgensen

	mileage
Columbia Road (CR 15)	2.96
Columbia Road (CR15)	1.15
Dixie Hwy (CR19)	1.34
Stubbs Mill Road (CR 35)	0.49
Lytle Five Points Road (CR 46)	2.02
Manchester Road (CR 104)	0.49
Kings Island Drive (CR 110)	0.31
Franklin-Trenton Road (TR 270)	1.48
	2.698

Permits Summary

The Warren County Engineer's Office issues permits for right-of-way work, permits for over-sized trucks to travel on township and county roads, permits for driveways and road frontage, and issues new addresses.

Before work may be performed in public right-of-way on all township and county roads, a permit must be issued. When a new address is issued, the permits supervisor forwards the new address to the building department (if necessary), emergency services, and the post office.

In a subdivision plat with streets having curb and gutter, addresses are pre-assigned and driveway permits are not necessary.

The following are tables showing the average number of permits issued since 2000 and the summaries of 2008, 2009, and 2010:

Right-of-Way Permits

	An Average of 2000-2007	2008	2009	2010
Clearcreek	21.8	23	14	19
Deerfield	55	43	54	57
Franklin	12.8	21	10	21
Hamilton	38.7	21	33	57
Harlan	31.8	23	14	15
Massie	6.25	4	5	2
Salem	11.1	17	10	4
Turtlecreek	32.3	31	14	17
Union	9	2	2	20
Washington	18.5	11	3	3
Wayne	21	6	7	9
Total	258.25	202	166	224

Driveway/Address/Piped Frontage Permits

	An Average of 2000-2007	2008	2009	2010
Clearcreek	162.8	75	38	55
Deerfield	16.1	11	4	4
Franklin	34.7	5	8	13
Hamilton	47.1	25	17	19
Harlan	50.2	17	16	11
Massie	8.7	4	1	1
Salem	25.6	12	12	4
Turtlecreek	84.7	36	20	35
Union	14.8	6	4	3
Washington	47.2	11	10	12
Wayne	45.6	32	21	24
Total	537.5	234	151	181

WARREN COUNTY HIGHWAY DEPARTMENT

The Highway Department fulfills basic county road and bridge maintenance for 276.34 miles of road, 375 bridges, and 1,380 culverts as well as support to surrounding townships and villages. Included in this are functions such as performing speed studies, installing road signage, detour routing, traffic signals, maintenance mechanics, building and grounds maintenance. One dimension of the department is the Highway Maintenance Facility which has (1) Garage Superintendent and (3) full time Mechanics, (1) Building and Grounds Maintenance personnel, (1) Parts Coordinator, and (1) Highway Clerk. The other dimension of the department is the Highway Maintenance Personnel (Road Crew) which consists of (1) Deputy of Operations, (1) Asst. Deputy of Operations, (3) Foreman, (2) and the road crew employees.

The road crew makes up the majority of the Highway Dept. This group of employees is responsible for the maintenance of the existing county highway system. They are required by law to maintain a CDL operator's license.

Types of duties performed --
Tree Trimming, Brush Cutting,
Guardrail Work, Ditch Cleaning,
Culvert Installation and Replacement,
Setting up Work Zones, Roadside Mowing,
Shoulder Repair, Bridge Installation and
Repair, New Road Construction, and Emergency Situations.

Our employees may be called upon for emergency situations, storm clean-up, trees down, flooding, and other road hazards. Snow and Ice Control is our most challenging weather event. We have a call out person that is on call after hours and on weekends to handle emergencies. He has Unit 68 that is equipped with chain saw, road closure signs, etc to handle various types of things that may come up. It is the job of the Highway Department to make travel on our highway system a safe commute, regardless of weather conditions.



Winter Season Summary

The Highway Department's primary function during winter months is keeping Warren County roadways clear of snow and ice. There were 23 snow occurrences during the 2009-2010 winter season that required 2,055.75 hours of overtime by our road crew and consumed 5,952.20 tons of salt to clear the roads.

The entire season cost the county \$527,651. The 2010-2011 season, up to date, has totaled 20 snow occurrences with salt usage totaling 7106 tons, overtime totaling 2,037 hours, costing the county \$481,359.



Functions

The function of the tax map department includes making and keeping accurate record of surveys of land and road lines, determining if survey plats and descriptions satisfy the minimum for boundary surveys pursuant to Chapter 4733, making and keeping up indexes of records, approving subdivisions for the office of Recorder, adopting standards of conveyance and ensure compliance, preparing a report for petitions of annexations, assisting the regional planning commission, reviewing condominium declarations, and making, correcting, and keeping up a complete set of tax maps. Also, we label all legal descriptions by parcel number for identification in the Auditor's office and for indexing in the Recorder's office. We assist the public and other government agencies in utilizing the records we keep on file.

Accomplishments

- Captured all of the paper tax map line data into digital GIS data.
- Completed an archival scan of all 2009 Tax Maps.
- Indexed the 2007 and 2009 Tax Maps into OnBase.
- Developed a new survey closure routine to supplement/replace the existing program.

Developments

- We will be implementing a new HP Designjet T2300 scanner/printer and exploring its capabilities.
- The Data Processing Group GIS Department created templates to print the new GIS Tax Maps once completed.
- The Data Processing Group GIS Department is creating a computer interface known as Flex Viewer to be utilized for document review.
- The Data Processing Group GIS Department created a data entry interface to aid in the map conversion.



Statistics

Major documents processed:	
Deeds	7,545
Mortgages	13,356
Assignments and releases	18,681
Total	39,582

Surveys filed -- 115
Plats filed -- 60
Sherriff's precipe's processed -- 1279

Plans for 2011

- Complete the capture of the paper tax map annotation data into the GIS mapping system.
- Begin quality control of new GIS tax maps.
- Begin printing new GIS tax map pages.
- Complete an archival scan of all 2010 Tax Maps.
- Begin archiving all of the 1977 and 1986 aerial tax maps if the technology is capable.
- Implement the latest Arc 10 GIS software.
- Index the annexation drawings into OnBase.
- Re-organize the right-of-way drawings for easier access.
- Provide access to all plats and surveys over the internet.



Phase II

Warren County was identified as a Small Municipal Separate Storm Sewer System (MS4) community by the USEPA in 1999 and was granted a discharge permit in 2004. We are currently operating under the second five year term of the permit (2009-2014). The Warren County Engineer's Office administers the County's MS4 permit under the National Pollutant Discharge Elimination System (NPDES) commonly known as Phase II. The WCEO coordinates this permit for other MS4 entities including the Townships of Clearcreek, Franklin, Hamilton, Turtlecreek, and Union and the Villages of Maineville and South Lebanon. The WCEO's administration includes annual reporting, planning, and meeting the requirements of the permit by collaborating with other local agencies such as the Warren County Combined Health District (WCCHD) and the Warren County Soil and Water Conservation District (WCSWCD).

The WCEO continues to work to reach the permit's requirements through promoting environmental education for the public, mapping storm water infrastructure, ensuring that appropriate regulations are in place, and by preventing pollution at public facilities.

The WCEO participates in a Regional Stormwater Collaborative that made great progress this year in its public education efforts. A new segment has been launched on WLWT News 5 Cincinnati called

"Project Earth". This segment specifically focuses on environmental education and giving the public information about stormwater. You can find these segments on the nightly news or via the web at: wlwt.com/project-earth. Further advances have been made on the storm sewer system map which represents almost all the infrastructure currently in place. Our goal is that it will be brought to a point where only new infrastructure is being added by 2011.

In addition to continued mapping, the WCEO is set to pass new storm water regulations that include requirements for water quality. The regulations: Warren County Rules and Regulations for the Design of Storm Sewer and Storm Water Management Systems have been revised from their 2003 version and are set to be reviewed by the county prosecutor and presented to the Board of County Commissioners for adoption.

The WCEO, in collaboration with the WCSWCD, also works toward meeting the permit's requirement for pollution prevention at municipal facilities. We have begun developing site specific plans for public facilities. This effort will continue and will include applicable facilities throughout the permitted area. Additionally, we held our first employee training this year covering pollution prevention techniques and will hold subsequent trainings in the years to come.

For more information about storm water and how Phase II affects you and our county please contact our office.



MOVING FORWARD

The Warren County Engineer's Office and its partnering departments (The Warren County Highway Department, The Warren County Tax Map Department, and the Warren County Stormwater District), are currently busy in 2011 fulfilling our duties to the thousands of people who depend on Warren County's transportation, surveying and drainage infrastructure.

Make sure to read next year's annual report which will updates on our first alternative to be completed in our high priority improvements of the I-71, Fields-Ertel Road, Mason-Montgomery Road Interchange. Also set for construction in 2011 are four anticipated road improvements projects and numerous bridge replacements/rehabilitations.

Up-to-date information on our current and future projects can be accessed at <http://www.WCEO.us/>.

2011 Administrative Staff

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Please visit the County Engineer's website for updates on projects, road closures, and other helpful information!!

<http://www.WCEO.us/>



Warren County Engineer's Office
105 Markey Road
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FAX (513) 695-3323

WEBSITE <http://www.WCEO.us/>

2010

