



WILLIAM W. BRAYSHAW, P.E.- P.S.
HAMILTON COUNTY ENGINEER



Blue Rock Road

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Willey Bridge

→ HAMILTON COUNTY OHIO ←

HAMILTON COUNTY ENGINEER'S OFFICE



Blue Rock Road

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HAMILTON COUNTY ENGINEER

www.hamilton-co.org/engineer

2005 ANNUAL MEETING OF COUNTY and TOWNSHIP OFFICIALS



WILLIAM W. BRAYSHAW, P.E.-P.S.
HAMILTON COUNTY ENGINEER

To the County and Township Officials:

Welcome to the annual meeting of County and Township officials. Our common goal is serving the citizens of this County and providing the best possible roadway infrastructure system. This meeting is intended to help attain our common goal by sharing experiences and examining new opportunities to cooperate, for the benefit of the traveling public. It is expected that the year 2005 will have unique challenges, as did the year 2004. The key to successfully meeting future challenges is to continue working together as has been done in the past.

This office is always proud to participate with other governmental agencies in the service of the traveling public. Cooperation is the key component in providing a stellar capital improvement program. Leveraging the County Road and Bridge funds with other Federal, State, Township, Municipal and private funding makes expanded capital improvement programs possible. Pooling the available funding sources continues to generate a construction program that is approximately two times as large as the funding provided from the County Engineer's Road and Bridge fund alone.

The tasks that lie ahead demand that we continue to work together. Ingenuity must be exercised in finding new ways to fund improvement projects that provide relief from gridlock in our urban corridors. Planning must be performed cooperatively to prevent our outlying arterials from becoming corridors of random driveways and congestion. Teamwork must be implemented in a continuing effort to respond to snow and ice, flooding, landslides and other events of nature. It is essential that all governmental entities continue to pursue efficient ways to provide services for the challenges of the year 2005.

Please take a moment to review the displays illustrating our activities of this past year and our goals for the future. Let us all continue in our efforts of making Hamilton County the finest.

The attached report shows the various ways leveraging money has helped our county as a whole. As always, comments or suggestions are welcome.

Very truly yours,

A handwritten signature in blue ink that reads "Bill Brayshaw".



CONTACT INFORMATION

HAMILTON COUNTY, STATE OF OHIO

Formed in 1790, Population 2000 Census 845,303, 414 Square Miles, 504.67 County Road Miles, 593.06 Township Road Miles, 12 Townships, City of Cincinnati, and 36 Municipalities, and over 360,000 parcels of land.

**HAMILTON COUNTY ENGINEER
WILLIAM W. BRAYSHAW, P.E.-P.S.**

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Cincinnati, OH 45202-1258

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Email: William.Brayshaw@hamilton-co.org

Office Hrs Monday Friday: 7:30-4:00



General Information	County Administration Building	946-4250
General Information	Burlington Facility	946-8900
Ted B. Hubbard	Chief Deputy Engineer	946-8903
Cathy Listermann	Administrative Secretary	946-8902
Judith Sellmeyer	Office Manager/Financial Administrator	946-4289
Robert Heidkamp	Deputy Surveyor, GIS	946-4265
David Sellers	Personnel Director	946-4280
Tim Gilday	Planning & Design Engineer	946-8914
Steve Mary	Bridge Engineer & Highway Maintenance Operations	946-8418
Greg Gelhausen	Fleet Superintendent	946-8409
Eric Beck	Construction Engineer	946-8432
Eric Beck	Permit-Subdivision Inspection	946-4269
Patricia M. Day	Fiscal Officer	946-4255
Joe Disque	Tax Map	946-4259
Aaron Fairbanks	Purchasing Agent II (Downtown)	946-4260
Robin Hopper	Purchasing Agent I (Field Office)	946-8401
Michelle McMullen	Road Records Supervisor	946-4250
Todd Long	Storm Water Management	946-4254
Mike Lipps	Western Maintenance	946-4968
Mike Vollhardt	Central Maintenance	946-8920
Bill Hill	Eastern Maintenance	946-4978
Tom Langenbrunner	Traffic Signal & Sign Shops	946-8421

Board of County Commissioners	946-4400	Job & Family Services	946-1000
Community Development	946-8230	Mental Health Board	946-8600
County Administrator	946-4420	Mental Retardation & Developmental	
County Auditor	946-4000	Disabilities Board	794-3300
Building Commissioner	946-4550	Metropolitan Sewer District	244-5500
Clerk of Courts-Auto Title	946-4646	Ohio Kentucky Indiana (OKI)	621-7060
Communications Center	825-2170	Park Board	521-7275
County Prosecutor	946-3000	Public Works	946-4750
Coroner	946-8700	Recorder	946-4600
County Facilities	946-5000	Regional Computer center	352-6400
County Personnel	946-4700	Regional Planning & Zoning	946-4500
Board of Education	674-4200	Section 8	946-8200
Board of Elections	632-7000	Sheriff	946-6400
Emergency Management	851-7080	Soil & Water Conservation	772-7645
Environmental Services	946-7777	Treasurer	946-4800
Animal Shelter (SPCA)	541-6100	Veterans Service Commission	946-3300
Board of Health	946-7800	Zoning	946-4502

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CONTACT US

We strongly recommend our web site at www.hamilton-co.org/engineer for the latest up-to-date, and pertinent information. At the web site you can view project and construction news, Hamilton County Storm Water District information, order maps and much more. Departmental information is available on our web site.

Address: 138 East Court Street, Room 700, Cincinnati, Ohio 45202
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Hamilton County Facts and Data

GENERAL DATA

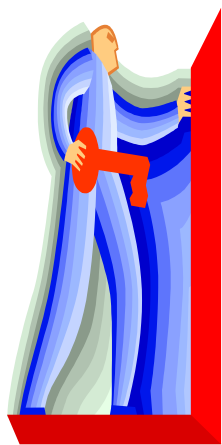
Population (2000) 845,268
 State Rank 3rd

Area 414 square miles

Courthouse elevation 548 Feet
 Highest elevation 1,000 (Rumpke Landfill)
 Lowest elevation 450 Ft. (Ohio River)

2000 POPULATION (UNINCORPORATED AREAS)

Anderson Twp.	43,857	Harrison Twp.	10,000
Colerain Twp.	60,144	Miami Twp.	9,093
Columbia Twp.	4,619	Springfield Twp.	37,587
Crosby Twp.	2,748	Sycamore Twp.	19,675
Delhi Twp.	30,104	Symmes Twp.	14,771
Green Twp.	55,660	Whitewater Twp.	5,564
TOTAL		293,822	



Information available to the public includes:

- Surveys
- Field Notes
- Section Corners and Military Survey Corners
- Benchmarks (survey monuments) with State Plane Coordinates and Elevation
- Tax Maps (shows property lines, roads, subdivision names, Book-Page-Parcel Indexing)



Ohio County Engineer Qualifications

Ohio has the most rigorous standards in the United States for qualifying its Professional County Engineers. Ohio requires its County Engineers to be both a fully licensed Registered Professional Engineer and a Registered Professional Surveyor for the office of County Engineer. To achieve both accreditations requires a minimum of a college degree in engineering and in surveying, four years of experience in engineering, four years of experience in surveying and 16 hours of testing for each license.

As a group, Ohio's County Engineers are recognized leaders in the nation because of their professionalism and innovations relating to the maintenance of highways and bridges. Ohio's requirement for professional licensing in both Engineering and Surveying, the fact that the position is elected and the fact that the gasoline taxes and license plate fees are dedicated to the repair and maintenance of highways and bridges by the state's constitution, allows these elected professionals to utilize the scarce resources in an efficient and professional manner. Ohio's current engineers range in education up to Masters and Juris Doctor degrees, almost 20% of Ohio's County Engineers hold advanced or additional degrees. As a group they represent over 1700 years of public works experience, this averages to 20 years per engineer. On average they have held licenses as Professional Engineers for 25 years and have held licenses as Professional Surveyors for 21 years.



COUNTY OF HAMILTON MOTOR VEHICLE REGISTRATIONS

TYPE OF REGISTRATION	2003 DISTRICT UNITS*	2003 TOWNSHIP UNITS*	2004 DISTRICT UNITS**	2004 TOWNSHIP UNITS**
Passenger Car	602,038	225,742	590,173	227,287
Motor Homes	2,501	1,148	2,409	1,114
Motorcycles	14,051	6,322	14,019	6,609
House Vehicles	4,237	2,398	4,232	2,441
Mopeds	179	56	148	59
Non-Commercial Trailer	17,970	9,653	17,783	9,705
Non-Commercial Trucks	64,813	29,231	63,272	28,895
Farm Trucks	304	227	289	224
Buses	1,578	158	1,638	156
Commercial Trailers	11,529	3,586	13,111	4,074
Non IRP Trucks	39,340	11,417	44,707	12,716
IRP Trucks	6,905	1,242	7,028	1,878
Transfers	39,177	13,676	38,964	14,382
Conversions & Add Weight	106	50	65	11
Replacements/Duplicates	2,569	698	2,322	689
TOTAL REGISTRATION:	807,297	305,604	800,160	310,240

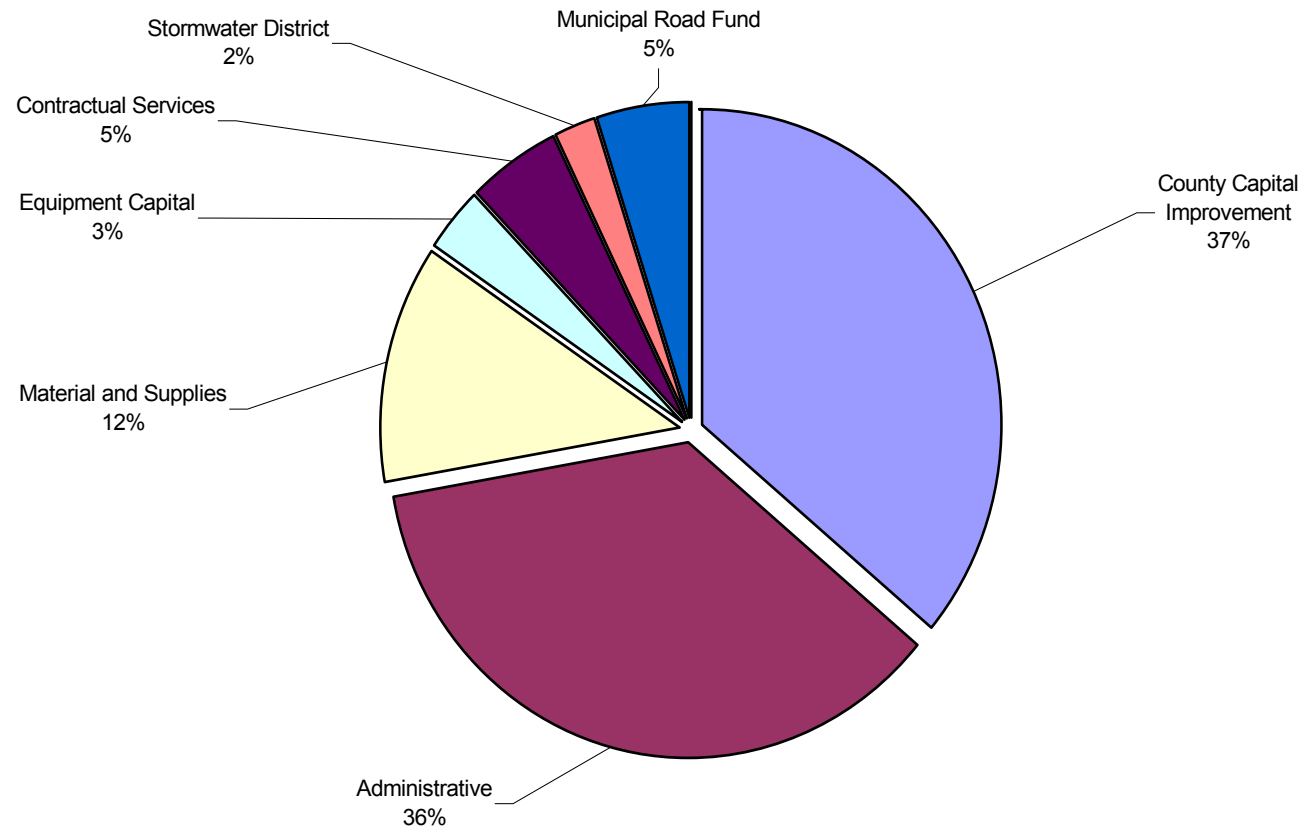
**Source: State of Ohio, Bureau of Motor Vehicles as of Dec 2004

*Source: State of Ohio, Bureau of Motor Vehicles as of Dec 2003

2004 EXPENDITURE

County Capital Improvement	\$10,086,246.80
Administrative	\$10,067,504.90
Material and Supplies	\$3,417,530.24
Equipment Capital	\$925,380.65
Contractual Services	\$1,431,870.93
Stormwater District	\$584,802.41
Municipal Road Fund	\$1,416,476.91
Bond Fund (City & County)	\$11,500.00
Total:	\$27,941,312.84

2004 EXPENDITURES



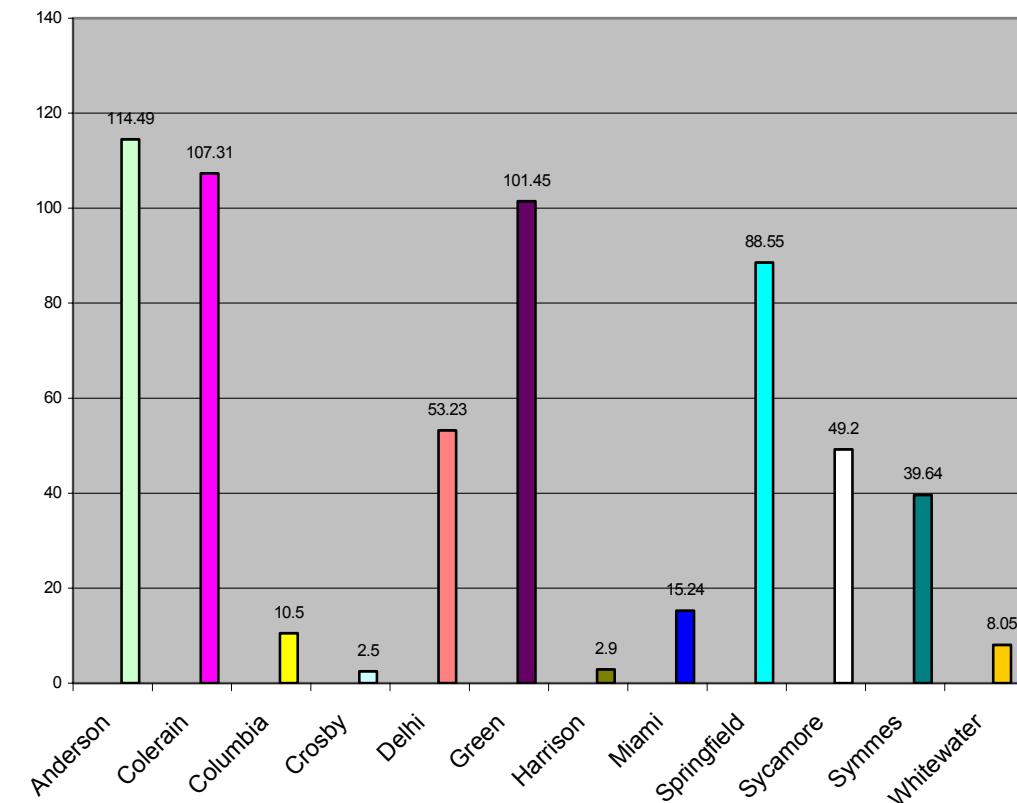
Township Road Mileage

ROAD MILEAGE

<u>County Roads</u>	<u>504.67 miles</u>
<u>Township Roads</u>	<u>593.06 miles</u>

ROAD MILEAGE BY TOWNSHIP

<u>Township</u>	<u>Township Roads</u>
Anderson	114.49
Colerain	107.31
Columbia	10.50
Crosby	2.50
Delhi	53.23
Green	101.45
Harrison	2.90
Miami	15.24
Springfield	88.55
Sycamore	49.20
Symmes	39.64
Whitewater	8.05
Total	593.06



HOUSE BILL 366 ADOPTION PROCEDURE TIME LINE



Initiation of Process. The process of adopting county access management (AM) regulations is initiated by the Board of Hamilton County Commissioners adopting a resolution proposing the consideration of access management regulations.

October 15, 2003. Hamilton-County Commissioners adopted a resolution formally initiating the process.

The next step in the process was the contacting of individuals in the various categories identified in HB366 and inviting them to consider potential membership on the Advisory Committee and to attend an introductory workshop.

December 17, 2003. Workshop/kick-off meeting held in the Hamilton County Commissioners' office.

January 7, 2004. Hamilton County Commissioners adopted a resolution establishing an Access Management Advisory Committee and appointing the interested individuals to it.

January 21, 2004. First meeting of the Access Management Advisory Committee.

Two public hearing were held on September 8 & 22, 2004.

December 1, 2004 Hamilton County Commissioners passed ordinance.

January 1, 2005 Access Management regulations become effective.



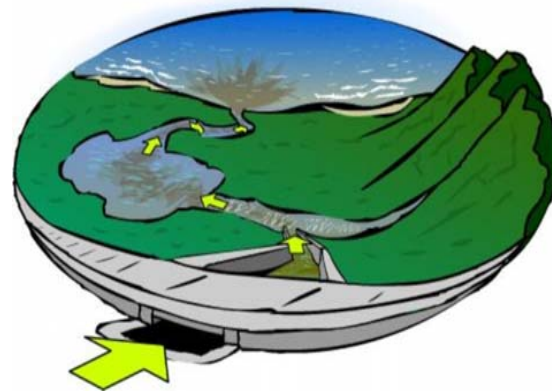
Hamilton County Storm Water District (HCSWD)

Administered by The Hamilton County Engineer's Office -
William W. Brayshaw, P.E.-P.S. County Engineer
In partnership with the H. C. Soil and Water Conservation District,
the H. C. Department of Public Works, the H. C. General Health District,
the City of Cincinnati Stormwater Management Utility, and the
Metropolitan Sewer District of Greater Cincinnati

The Hamilton County Storm Water District has been established in response to the federally mandated Phase II storm water program. The Ohio EPA is issuing a National Pollutant Discharge Elimination System (NPDES) general permit that authorizes operators to discharge storm water from small construction activities.

The Storm Water District represents Hamilton County's commitment to storm water issues. The District membership consists of 45 of the 50 jurisdictions in Hamilton County including all 12 of the townships.

Where Storm Water Goes After the Curb Inlet



We invite you to browse our website :
(www.hamilton-co.org/stormwater) to learn more about storm water and the Storm Water District. New information will continually be added to the Hamilton County Engineers website, with the long range goal being a website that can serve as a central repository for all storm water related material.

Hamilton County Stormwater Districts Mission statement:

Is to Provide an effective organizational and managerial legal structure that will position its members to address the NPDES Phase II storm water permit & regulations efficiently and effectively and manage storm water quality on a watershed basis.

Organizational Structure

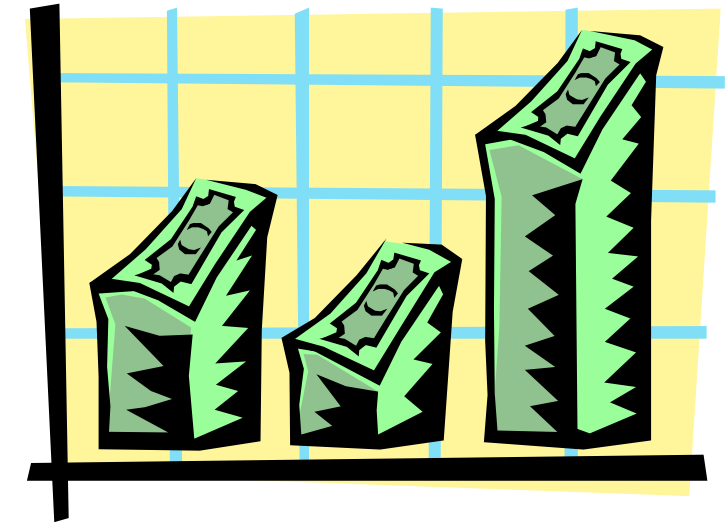
The District is organized in a three tier hierarchy. The Steering Committee, the Support Staff, and the Oversight Board are the three groups with in this hierarchy.

The District is an agency under the Board of Hamilton County Commissioners and therefore the Board of County Commissioners has the ultimate decision making authority.

Financial Report Continued

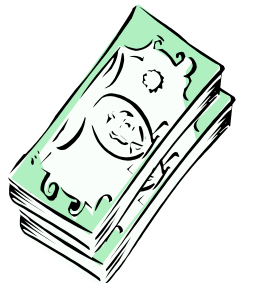
2004 LOCAL FUNDS INVESTED FOR CAPITAL IMPROVEMENTS

Road Reconstruction	\$2,077,939.82
Resurfacing and Surface Treatment	\$3,842,152.30
Bridges, Culverts and Slides	\$1,516,896.15
Engineering	\$1,640,168.90
Administrative, Sidewalk and Road Right-of-Way	\$862,380.15
Testing	\$146,709.48
Total:	\$10,086,246.80



2004 GRANT TOTALS

OPWC	\$2,904,681.78
402 Funded Projects	\$1,358,839.13
Total:	\$4,263,520.91

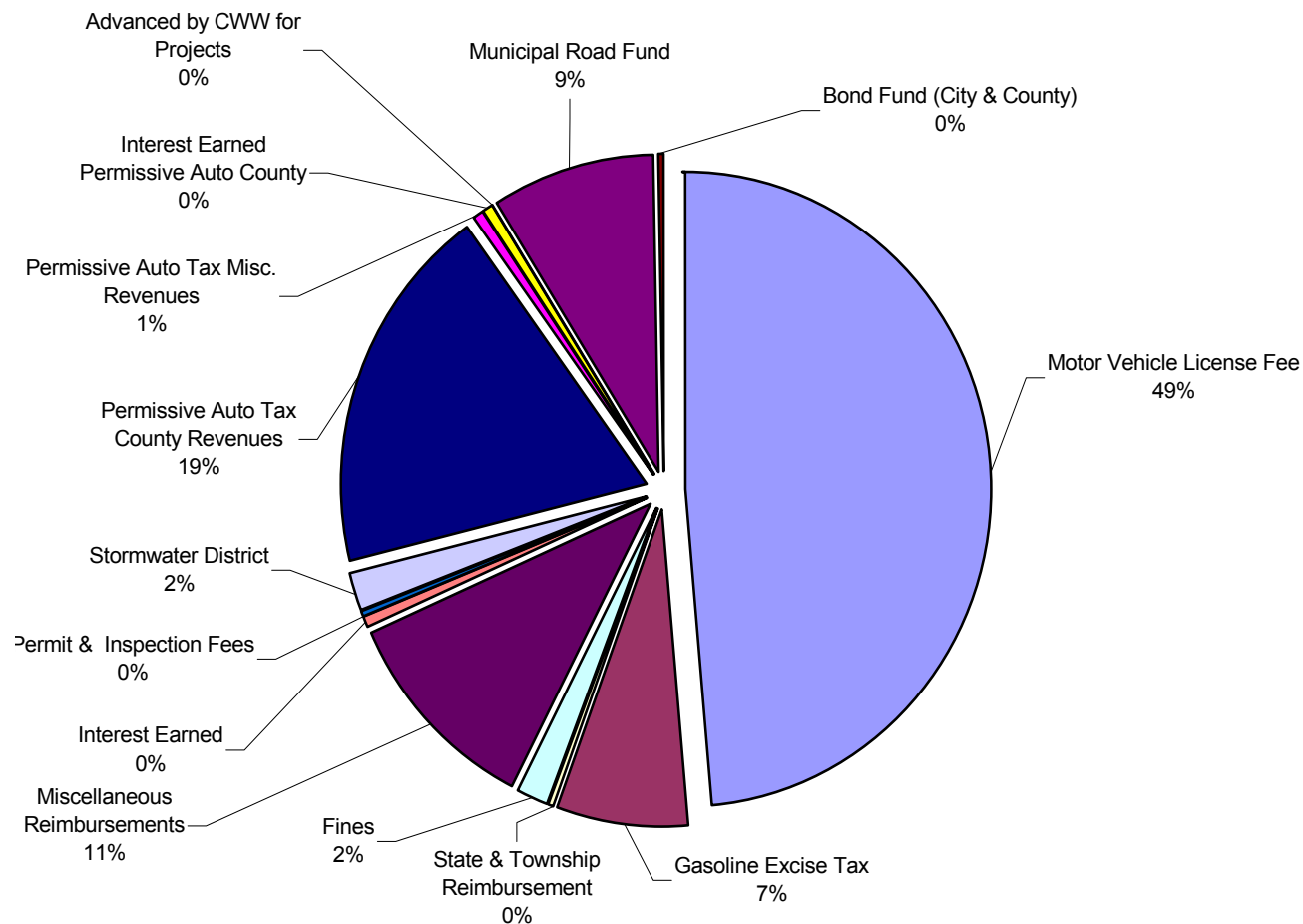


FINANCIAL REPORT

2004 REVENUE

Motor Vehicle License Fee	\$12,311,340.41
Gasoline Excise Tax	\$1,773,449.28
State & Township Reimbursement	\$71,329.50
Fines	\$432,066.43
Miscellaneous Reimbursements	\$2,736,485.28
Interest Earned	\$120,627.10
Permit & Inspection Fees	\$78,270.00
Stormwater District	\$522,100.00
Permissive Auto Tax County Revenues	\$4,779,260.27
Permissive Auto Tax Miscellaneous Revenues	\$158,295.47
Interest Earned Permissive Auto County	\$113,373.69
Advanced by Cincinnati Water Works for Projects	\$42,796.30
Municipal Road Fund	\$2,175,641.24
Bond Fund (City & County)	\$43,402.02
Total:	\$25,358,436.99

2004 REVENUE



LICENSE TAX

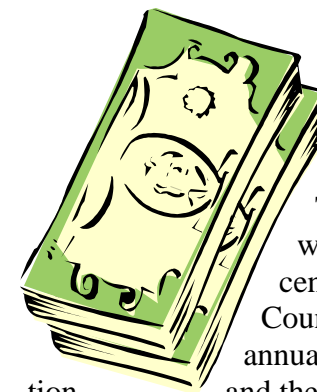
How the 20% License Tax Program works:

Each year the County Engineer has distributed a portion (20%) of the License Tax, added in 1989, to the Townships not to exceed \$200,000.00 annually. Funding amounts this year are based upon the 2004 Motor Vehicle Registrations (MVR). You are encouraged to leverage these funds with a State Capital Improvement Program, Community Development Program, License Tax Improvement Program, etc. This leveraging of funds will have a great impact on improving the infrastructure within Hamilton County and our Townships. The following is a list of the License Tax distribution made to the Townships through 2004. The Office of the Hamilton County Engineer forwards application forms to each township annually. The Townships complete the forms and return them to the Engineer for review and prioritizing. After the review process, the Engineer presents findings and recommendations to the Board of Hamilton County Commissioners for final authorization.

When approved by the Board of Hamilton County Commissioners, the Clerk of the Board issues a Volume and Image number to record the legislation. The townships that have approved projects are sent a letter informing them of the approval.

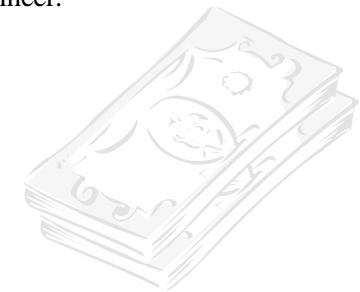
The Township may request a warrant by a letter of invoice to the Engineer for the funds to be dispersed. The letter must include the dollar amount being requested, the project name and year of approval for 20% funding. The Hamilton County Auditor's Office mails the warrant directly to the Township. The funds are for use on the project specified. When the project is complete, the township is expected to submit a full accounting to the Engineer. Funds not required for the named project are to be returned to the Engineer.

Funding Source



The 20% program funding is from funds received from the sale of license plates within the township limits. This year, each township receives an allotment percentage based on the year 2004 annual actual Motor Vehicle Registrations. The County Engineer agreed to this percentage to a maximum expense of \$200,000.00 annually. The Board of Hamilton County Commissioners approves by annual legislation and the Hamilton County Engineer administers the funding.

Funds set aside for a township for a 20% project must be paid to the township, even if these monies ultimately must be returned to the Engineer. For example, in a case where the requested/approved project is to be performed by a consultant/contractor under the Engineer's contract (such as engineering, resurfacing, etc.) the monies shall be requested as detailed and forwarded to the township. The Engineer will notify the township of payment due by copy of consultant/contractor invoice whereby the Township shall send payment to the Engineer who in turn pays the consultant/contractor. If the final contract amount is lower than the funding received from the 20% funds, the Township must return the balance to the Engineer for deposit back into the 20% fund account.



TRAFFIC DEPARTMENT INFORMATION



LED traffic signals have lower maintenance costs because they can last more than seven years, while incandescent bulbs may last only one year. Because LED traffic signals rarely fail prematurely, they also reduce the risk of accidents. Even with the higher initial investment, the annual cost savings, the lower accident risks, and the overall quality improvement, the benefits significantly outweigh the initial cost.

The cost of the LED signal heads has decreased over recent years, which have now made them more cost effective. The payback time on the initial investment is approximately 2 to 3 years.

The Hamilton County Engineer's office plans to use this LED technology on its newly constructed traffic signal locations, as well as initiating a program to upgrade existing signalized intersections with these lower wattage traffic signal lamps.

In 2004 the Hamilton County Engineer upgraded the County-owned traffic signals on the roads and intersections listed on the next page.

TRAFFIC OPERATION SUMMARY 2004



NEW TRAFFIC SIGNAL INCLUDES LOWER ENERGY COST

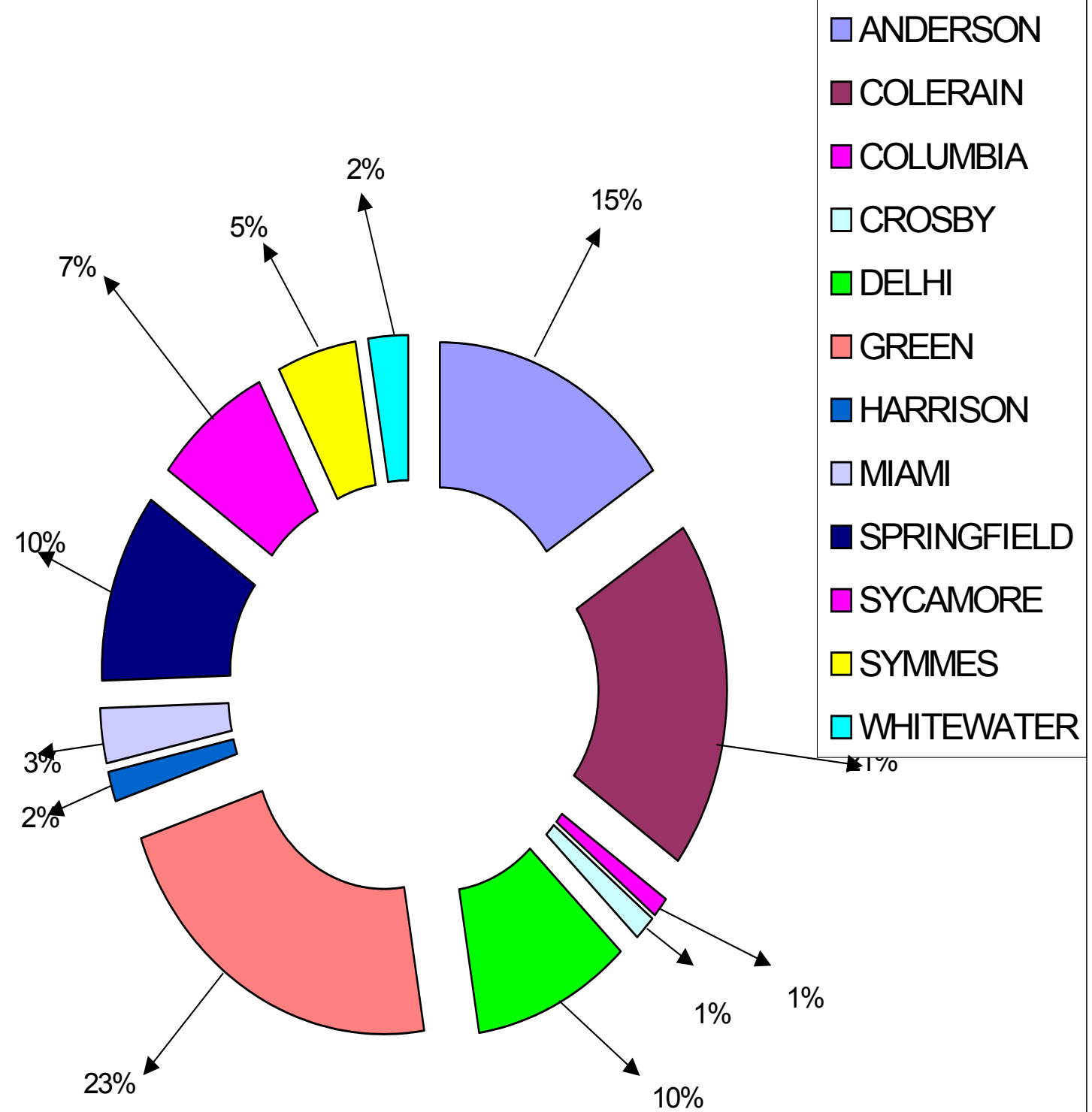
William W. Brayshaw, the Hamilton County Engineer, has decided that all new signal installations will use the new LED traffic signal lenses. Existing traffic signal heads use incandescent lamps with the red and green signals using 135-watt lamps and the yellow signal using 69-watt lamps.

The new LED type traffic signals require much less energy with the red lens using only 15 watts, the green lens 20 watts and the yellow lens using 22 watts of energy. This translates to a sizeable savings on the electric bill of approximately 80%.

LED technology is also used to reduce the energy cost of walk/don't walk signals. The existing pedestrian signal heads will be replaced after all signal heads have been upgraded. Anticipate the changeover for the pedestrian signals to begin in 2007.

This new LED technology uses electrical energy very efficiently and therefore emits a large amount of light from small inputs of power. Operational 24 hours a day, seven days a week, traffic signals that use high wattage incandescent bulbs create a sizeable power bill for state and local government.

2005 TOWNSHIP DISTRIBUTION



License Tax Continued
ANNUAL DISTRIBUTION

<u>TOWNSHIP</u>	<u>PROJECT YEAR</u>	<u>PROJECT</u>	<u>APPROVED</u>	<u>YEAR PAID TWP</u>
ANDERSON	1990	PAVEMENT MANAGEMENT	\$11,050.00	1990
	1991	BARTELS	\$10,275.00	1991
	1992	BARTELS CONSTRUCTION	\$62,741.00	1992
	1994	SIGNAL HILL SLIDE REPAIR	\$50,000.00	1995
	1995	DEBOLT ROAD REHAB	\$10,000.00	1995
	1996	LAWYER POINT CANCELLED	\$0.00	n/a
	1997	PINWELL DRIVE	\$50,000.00	1998
	1998	NAGEL/BEECHMONT	\$60,000.00	2000
	1999	RIVERBY RD	\$18,100.00	2000
	1999	ENGINEERING FOR SCIP PROJECT	\$15,000.00	2000
	2000	AYSHIRE WILSHIRE SUNWAY	\$30,000.00	2001
	2001	FOREST PARK SUBD	\$31,824.00	2001
	2002	FOREST LAKE SUBD	\$30,000.00	2003
	2003	PAVEMENT CONDITION SURVEY	\$12,000.00	2003
2004	BRUNS LANE	\$48,710.00	2005	
ANDERSON TOTAL:			\$439,700.00	
COLERAIN	1990	PAVEMENT REHAB EARL	\$4,600.00	1990
	1990	COLERAIN/SPRINGDALE INTERSECTION	\$20,000.00	1990
	1991	COLERAIN CORRIDOR STUDYG	\$5,000.00	1991
	1991	EARL AVE RECNST, PH II	\$24,105.00	1991
	1991	SHELDON DR RECONST, ENGR ONLY	\$19,366.00	1991
	1992	RNDTP, CLRA, MCGL, PRCHTL	\$31,700.00	1992
	1992	PRECHTEL	\$23,850.00	1997
	1993	1993 ISSUE 2 RESURFACING	\$48,113.00	1993
	1994	1994 RESURFACING	\$40,000.00	1994
	1995	COLERAIN CORRIDOR SUBAREA 1	\$85,630.00	1995
	1997	1997 RESURFACING	\$48,690.00	1998
	1998	1998 STREET REHABILITATION	\$43,580.00	1999
	1999	VARIOUS ROADS REPAIR PROJECT	\$43,580.00	2000
	2000	RESURFACING 2000	\$43,580.00	2000
2001	RESURFACING 2001	\$43,580.00	2001	
2002	RESURFACING 2002	\$42,732.00	2002	
2003	VARIOUS ROAD RESURFACING	\$42,732.00	2003	
2004	2004 STREET REHABILITATION	\$42,522.00	2004	
COLERAIN TOTAL:			\$653,360.00	
COLUMBIA	1992	PAVEMENT EVAL RIDGEWOOD SUBD	\$6,784.00	1992
	1995	1995 ROAD RESURFACING	\$7,116.00	1997
	1997	FAIRHURSE DRIVE	\$4,744.00	1997
	1999	VARIOUS ROADS REPAIR PROJECTS	\$4,744.00	2001
	2000	RESURFACING 2000	\$2,372.00	2000
	2002	BERWICK STREET RESURFACING	\$4,210.00	2002
COLUMBIA TOTAL:			\$29,970.00	
CROSBY	1999	VARIOUS ROADS REPAIR PROJECT	\$23,676.00	1999
	2002	RESURFACING 2002	\$6,988.00	2003
	2004	2004 STREET REHABILITATION	\$4,560.00	2004
CROSBY TOTAL:			\$35,224.00	

2004 Roadway Improvements

This is a listing of projects that were completed during the 2004 construction year.

Asbury Road Emergency
Total construction cost: \$173,854.60

Paddison Road Landslide
Total construction cost: \$74,975.00

Asbury Road
Total construction cost: \$88,286.11

Resurfacing
Total construction cost: \$2,297,435.69

Ayershire/Wilshire/Sunray
Total construction cost: \$583,458.00

Sign Inventory
Total construction cost: \$87,900.00

Camp Dennison Phase I
Total construction cost: \$33,805.00

Sidewalk Constructed in 2004
Total construction cost: \$57,797.00

Cilley Road landslide
Total construction cost: \$77,604.00

Dry Fork/Harrison/Simonson
Total construction cost: \$938,661.47

East Miami River Road Landslide
Total construction cost: \$184,700.00

East Miami River Road
Total construction cost: \$133,240.00

Poole Road
Total construction cost: \$110,395.25

Sheed Road Landslide Correction
Total construction cost: \$51,087.50



Two Bridge Replacements

Harrison Road Bridge
Total construction cost: \$393,553.70

Wyoming Avenue Bridge
Total construction cost: \$465,289.50



2004 Paving

The County Engineer as part of its ongoing roadway maintenance program has performed resurfacing on the following list of roads. Included on this list are roads that were paved by utility companies, Cincinnati Gas & Electric and Greater Cincinnati Water Works, as part of the pavement restoration requirements for new main installations in the roadway. As part of the resurfacing an attempt is made to install paved beams wherever possible. The length of roadways improved in 2004 totals 42.13 miles.

Roads	Limits	Length
Asbury	Forest to DR 125	2150
Bennett	Markley to Birney	5026
Birney	Salem to Burns	1400
Boomer	N. Bend to Reemelin	10137
Buffalo Ridge	East Miami River Road to Wesselman	22257
Cheviot	Poole to Galbraith	5427
Compton	Mt. Healthy to Corp. Line Winton	9223
Eagle Creek	Thompson to Harrison	10091
East Miami River	Harrison to Colerain	47510
Fields Ertel	Reed Hartman to I-71	14800
Forest	SR 125 to Asbury	4624
Harrison	Eagle Creek to Althaus	2500
Harrison	Althaus to Sheed	8012
Jordon	East Miami River Road to Zion Hill	14887
Lawyer	Newtown east 4752'	4752
Markley	SR 125 to Bennet Southbound lane	1050
Mason-Montgomery	Montgomery To I-71 Northbound lane	2640
Morgan	SR 128 to Harrison	12015
Muchmore	Wooster to Walton Creek	700
North Bend	City Corp Line to Centerhill	10000
Rapid Run	Hillside to Cedar Park	7500
River	SR 128 to Blue Rock	12580
Sand Run	Lawrenceburg to Indiana state line	9491
Schweitzerhoff	Daleview to Sheed	2262
Sutton	Salem to City Corp Line	1400
Total:		222,434



License Tax Continued ANNUAL DISTRIBUTION

<u>TOWNSHIP</u>	<u>PROJECT YEAR</u>	<u>P R O J E C T</u>	<u>APPROVED</u>	<u>YEAR PAID TWP</u>
DELHI				
	1990	PAVE MANAGE SURVEY & PROGRAM	\$14,750.00	1990
	1990	PAVEDEX STUDY	\$3,935.00	1990
	1991	PAVEDEX STUDY	\$2,805.00	1991
	1991	FAYSEL DRIVE	\$26,500.00	1991
	1992	PAVEMENT MGMT UPDATE/UPGRADE	\$9,749.00	1992
	1993	DYNAFLECT TESTING OF ROADS	\$13,840.00	1993
	1994	SALT DOME FACILITY	\$105,000.00	1994
	1998	PAVEMENT MGMT STUDY	\$9,355.00	1998
	2000	PAVEMENT MGMT SYSTEM UPGRADE	\$11,300.00	2000
	2001	PAVEMENT MGMT STUDY	\$24,100.00	2002
	2004	PAVEMENT MGMT STUDY	\$15,500.00	2004
DELHI TOTAL:			\$236,834.00	
GREEN				
	1990	WYNBURNNE	\$41,735.00	1990
	1991	WHITE OAK DR REHABILITATION	\$40,000.00	1991
	1991	GREENWAY, WOODHAVEN, MOONRIDGE	\$10,885.00	1991
	1992	RECONSTRUCT/REHAB LA GRANGE LN	\$27,298.00	1992
	1993	RIDGEDALE DRIVE REHAB	\$37,053.00	1993
	1994	TURF LANE REHAB	\$38,000.00	1994
	1995	MENZ LANE	\$39,910.00	1995
	1996	STEVIE LANE	\$41,370.00	1996
	1997	SUMMERDALE DRIVE	\$39,000.00	1997
	1998	1998 STREET REAHABILITATION	\$41,775.00	1998
	1999	CLEARVIEW AV REHABILITATION	\$40,000.00	1999
	2000	HAUBNER RD REHABILITATION	\$41,772.00	2000
	2001	VALLEYBROOK DRIVE	\$39,860.00	2001
	2002	RUEBEL PLACE	\$39,884.00	2002
	2003	TALLOAK COURT RESURFACING	\$39,884.00	2003
	2004	LINSAN DRIVE REHABILITATION	\$40,000.00	2004
GREEN TOTAL:			\$598,426.00	
HARRISON				
	1991	LEES CREEK ROAD	\$18,651.00	1992
	1995	1995 ROAD REHAB	\$3,633.00	1995
	1996	HOPPING SLIDE	\$25,000.00	1997
HARRISON TOTAL:			\$47,284.00	
MIAMI				
	1993	TOWER ROAD RESURFACING	\$5,612.33	1993
	1997	PICKWAY DRIVE	\$53,793.00	1997
	2002	FROGTOWN STREET IMPROVEMENTS	\$11,912.00	2003
	2004	QUADRANT DRIVE RESURFACING	\$11,300.00	2004
MIAMI TOTAL:			\$82,617.33	



License Tax Continued ANNUAL DISTRIBUTION

<u>TOWNSHIP</u>	<u>PROJECT YEAR</u>	<u>P R O J E C T</u>	<u>APPROVED</u>	<u>YEAR PAID TWP</u>
SPRINGFIELD				
	1990	FEASBLTY STDY-DRAINAGE/ST. REHAB	\$27,034.00	1990
	1991	HOLYHCK,FALMTH,CHRSTOPL,RYNRD	\$16,000.00	1991
	1992	HOLYHCK,FALMTH,CHRSTOPL,RYNRD	\$32,823.00	1992
	1993	EDGEMONT TERRACE ENGR	\$24,700.00	1993
	1994	MT HEALTHY HGTS	\$24,634.00	1995
	1995	HOLLYHOCK SUBD	\$24,733.00	1995
	1996	EDGEMONT TERRACE\PO36595	\$24,689.00	1996
	1997	1997 RESURFACING	\$24,689.00	1998
	1998	1998 RESURFACING	\$24,689.00	1999
	1999	VARIOUS ROADS REPAIR PROJECTS	\$24,689.00	1999
	2000	RESURFACING PROJECT 2000	\$24,689.00	2000
	2001	RESURFACING 2001	\$24,689.00	2001
	2002	WINTONDALE SUBD RESURFACING	\$21,668.00	2002
	2003	MILLBROOK SUBD	\$21,668.00	2003
	2004	PAVEMENT MANAGEMENT SYSTEM STUDY	\$14,200.00	2004
	SPRINGFIELD TOTAL:		\$355,594.00	
SYCAMORE				
	1991	91 ROAD IMPROVE PROG (91-04 RESURF)	\$40,000.00	1991
	1993	JUD, HDDLSTN, ESTRMIE REHB	\$19,043.22	1994
	1994	1994 RD IMPROVEMENT	\$6,383.00	1994
	1995	1995 RD IMPROVEMENT	\$17,868.00	1995
	1996	1996 RD RESURFACING	\$13,800.00	1997
	1997	1997 RESURFACING	\$13,800.00	1997
	1998	1998 RESURFACING	\$13,800.00	2000
	1999	RESURFACING PROJECT	\$13,800.00	2000
	2000	KUGLER MILL	\$13,800.00	2001
	2001	HIGH POINT SUBD	\$13,800.00	2002
	2002	2002 RESURFACING	\$15,006.00	2002
	2003	GOLDCOAST, REDSKY, PALACE	\$15,006.00	2004
	2004	GOLDCOAST, REDSKY, PALACE	\$12,983.00	2004
	SYCAMORE TOTAL:		\$209,089.22	
SYMMES				
	1990	ARNOLD LANE IMPROVEMENT	\$12,910.00	1990
	1991	ARNOLD LN IMPROVE, ADD'L ENGR	\$7,975.00	1991
	1992	EMERGENCY SIGNAL	\$3,900.00	1992
	1994	SHORE DR REPAIR	\$9,800.00	1994
	1996	SALT DOME	\$80,495.54	1996
	SYMMES TOTAL:		\$115,080.54	
WHITEWATER				
	1995	MIAMITOWN STORM SEWER & RESURF	\$30,000.00	1995
	1997	FURLONG DRIVE	\$10,000.00	1997
	2000	LUTHER LANE	\$15,696.00	2001
	WHITEWATER TOTAL:		\$55,696.00	
TOTAL TOWNSHIP EXPENDITURES TO DATE			\$2,858,875.09	



County Snow & Ice Continued

THE ROADEO

Long before the season changes and snow once falls on the roadways, the Hamilton County Engineer held its Annual Snow Rodeo the week of August 30th.

William W. Brayshaw, the Hamilton County Engineer, desires all drivers to make safe driving a priority, especially during snow and ice conditions. In preparation for winter, this training/competition is held yearly to make safe driving a priority **especially** during snow and ice conditions.

This event provides the operators a chance to maneuver in tight predicaments that they may encounter while clearing the roadways of snow and ice. After completing the course, drivers are tested on truck maintenance which includes a pre-trip inspection to be sure all parts of the truck and plow are operating properly.

From Monday, August 30th through Wednesday, September 1, 2004, County Engineer William Brayshaw officiated over his Annual "Snow Rodeo". The Rodeo was held outdoors near the Communications Center on Hamilton Avenue. This event included a timed obstacle course and a vehicle maintenance inspection. While the weather could not provide the drivers with conditions that reflected snow and ice control on the roads, situations could be duplicated that provided the drivers with an opportunity to hone their driving skills. Approximately 261 drivers from the County Engineer's, Townships and Municipalities in Hamilton County participated in response to Mr. Brayshaw's invitation. Winners from the Hamilton County Engineer's Office were:

- 1st Ron Ripperger
- 2nd Jim Hetzel
- 3rd Kirk Grimes
- 4th Tom Gessendorf

William Brayshaw presents a plaque to **Ron Ripperger** whom placed **first** at the completion of the 2004 Snow Rodeo.



Ron Ripperger is a Highway Maintenance Foreman with the Western Division.

William Brayshaw presents a plaque to **Jim Hetzel** whom placed **second** at the completion of the 2004 Snow Rodeo.



Jim Hetzel is a Professional Surveyor II with the Survey Department.

The **third** place winner was **Kirk Grimes** (*picture not available). Kirk is a Highway Maintenance Worker with the Eastern Division.

William Brayshaw presents a plaque to **Tom Gessendorf** whom placed **fourth** at the completion of the 2004 Snow Rodeo.



Tom Gessendorf is a Route Marker with the Sign Shop at the Galbraith Division.



Mr. Brayshaw takes a picture with the winners

Ron and Jim went on to compete in the American Public Works Association of Southwest Ohio Sanitation Maintenance Safety Organization's Snow Rodeo in Dayton, Ohio on October, 7, 2004. **Congratulations** to our top drivers that competed this year!!

*Kirk Grimes is not shown

County Snow & Ice

General / Seasonal Roadway Maintenance

The Maintenance Division is the largest in the Engineer's Office. They plow and apply salt to the roadway when it snows and fix potholes and cut brush in the right-of-way in the warm weather months. Maintenance is also responsible for painting and striping the roadways, signing and patching, pavement repair, bridge repair, beam work, guardrail repair, mowing, brush and weed control, and also ditching and drainage projects. Also included is the removal of any debris that poses an immediate safety hazard to the motoring public. Maintenance consists of three geographical divisions serviced by Maintenance Facilities; Eastern-located in Newtown; Central-located in the Burlington area, and Western-located just outside of Miamitown. The Engineer also operates two substations, one in Delhi Township and the other in the City of Harrison. The Hamilton County Engineer's Service Garage and the Traffic Department, in the Hartwell area, are also part of the Maintenance Division.

HAMILTON COUNTY SNOW & ICE LANE MILEAGE MAINTAINED

WESTERN DIVISION

County Roads	503.45
Other Roads	8.47
State Routes	81.72
TOTAL WESTERN:	<u>593.64</u>

EASTERN DIVISION

County Roads	282.06
Other Roads	6.50
Ronald Reagan Highway	39.41
State Routes	97.82
Apple Hill	0.84
TOTAL EASTERN:	<u>426.63</u>

CENTRAL DIVISION

County Roads	371.56
Other Roads	19.44
Ronald Reagan Highway	52.73
State Routes	52.61
TOTAL CENTRAL:	<u>496.34</u>



A snow plow salts & treats the roadway.

There were several new items of equipment purchased in 2004.

The Hamilton County Engineer's Office has changed over to stainless steel beds and spreader systems to reduce the cost of maintenance.



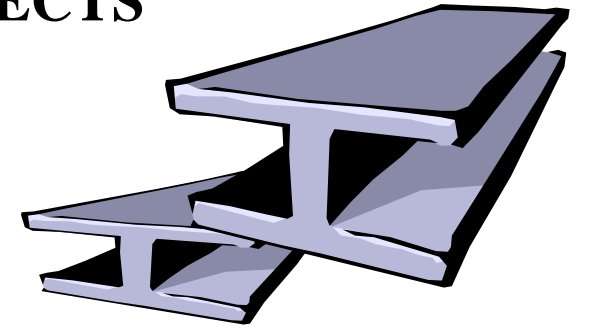
Dump truck with stainless steel bed & snow removal

Changing technology to maintain roadside vegetation.



A-boom tracker used for trimming brush over guardrail and along side of the road with a 17 feet reach.

2004 CONSTRUCTION PROJECTS



<u>PROJECT NAME</u>	<u>CONTRACTOR</u>	<u>AWARDED BID AMOUNT</u>
E509101 Harrison Road	Sunesis Construction Company	\$767,644.00
E500221 Burlington Culvert	Trend Construction	\$288,009.00
E500301 2003-4 Sidewalk Program	Schweitzer Construction	\$69,672.00
E500306 Guardrail Program	Security Fence Group	\$199,630.94
E500309 Compton Road Culverts	Larry Smith	\$146,739.50
E500314 West Bridge B-0270	Sunesis Construction	\$1,196,037.80
E500324 East Miami River Road	NeCamp Construction Company	\$143,493.00
E500331 Cilley Road Slide	Langenheim & Thompson	\$84,092.00
E500407 Resurfacing 04-01	John Jurgensen	\$1,992,451.10
E500415 Sheed Slide Repair	DDK Construction	\$51,875.00
E500417 Resurfacing 04-02	Terry Construction Company	\$407,632.25
E500418 Resurfacing 04-03	Barrett Paving	\$1,557,910.50
E500419 Raised Pavement Markers	Barbour Company	\$51,606.00
E500424 Asbury Road Emergency Pipe	Fred Nemann, Truman Young, Trend Construction	\$418,030.00
T500055 Delhi Springhouse	Architectural Reclamation	\$238,459.00
T500258 Anderson Park & Ride	Sunesis Construction Company	\$1,130,713.00
E500109 Sutton Road Bridge	DDK Construction	\$512,812.30
E500309 Gaines & Harrison Culvert	Larry Smith Contractors	\$139,239.60
Permit Department Resurfacing	Various contractors	\$538,000.00
Colerain Access Management Phase 5 & 8	The Shelly Company	\$2,363,000.00
Camp Dennison Phase I	Symmes Township	\$33,805.00

2004 Construction Project Total: \$12,330,851.99

(Project totals include monies from all participating agencies)

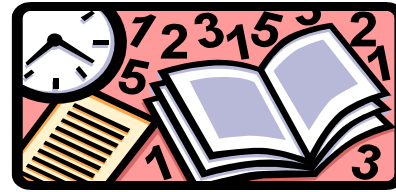


Asbury Road Emergency Pipe



Guardrail Program

**2005 PROJECT DESCRIPTIONS
HAMILTON COUNTY ENGINEER'S OFFICE**



- ▶ **Resurfacing 2005** - Estimated cost of \$2,000,000.00. This program involves resurfacing various roads with asphalt concrete throughout the unincorporated area of Hamilton County.
- ▶ **Culvert Program** - Estimated cost of \$250,000.00. This project involves replacing a culvert on Muchmore Road in the Columbia Township area.
- ▶ **Guardrail Program** - Estimated cost of \$250,000.00. This program involves replacing guardrail on various county roads within the unincorporated area of Hamilton County.
- ▶ **Winton Road Phase III (Reynard to Fleming) Right-of-Way (Optional)** - Estimated cost of \$500,000.00. The project involves the possible early purchase of right-of-way to accommodate proposed improvements on Winton Road from Reynard Drive to Fleming Road in Springfield Township. The proposed future improvement involves the rehabilitation and widening of the roadway to accommodate 4 through lanes with appropriate turn lanes. Project length is approximately 4,900 feet. This project is compatible with the Winton Road Corridor Study completed in 2001.
- ▶ **Anchor Connector** - Estimated cost of \$3,600,000.00. The project involves the construction of a 2-lane connector with appropriate turn lanes from State Route 32 to Broadwell Road in Anderson Township. This work will include the construction of an industrial pavement section, new bridge structure and new intersection improvements. The completed facility will provide safer and more efficient access to the Anchor industrial area. This connector is considered to be a locally motivated project component of the Eastern Corridor Multi Modal Improvement Projects.
- ▶ **Blue Rock Road Extension (Phase I)** – Estimated cost of \$2,500,000.00. The project involves the construction of a 2-lane by-pass with appropriate turn lanes around the community of New Baltimore from River Road to New Haven Road in Crosby Township. This project involves both public and private participation and is recommended in the New Haven Road / Blue Rock Road / Dry Fork Road Corridor Study of 2001.
- ▶ **Mt. Carmel Road & Beechwood Road Intersection** - Estimated Cost of \$500,000.00. The project involves providing improvements in the intersection area to alleviate congestion and improve efficiency. This project is being developed in cooperation with the Clermont County Engineer's Office and is considered to be a locally motivated component of the Eastern Corridor Multi Modal Improvement Projects.
- ▶ **Dry Fork Alignment and Profile Project** - Estimated cost of \$800,000.00. The project is located on Dry Fork Road, south of Harrison Avenue, beginning 1,160 feet south of the Harrison / Whitewater Township line and continuing 570 feet to the north. The improvements involve the reconstruction of a 2-lane roadway with needed geometric, alignment, and drainage upgrades. Project length is 1,760 feet with a uniform width of 24 feet.
- ▶ **Dry Fork Drainage Project** - Estimated cost of \$500,000.00. The project is located 1,872 feet east of the intersection of Dry Fork Road and Kilby Road and continues 562 feet to the east and north in Whitewater Township. This project involves the reconstruction of the roadway, the installation of drainage improvements and the construction of a retaining wall.

**PROJECTED 2005 AND 2006
BRIDGE /SLIDE PROJECTS**



Suspension Bridge Road

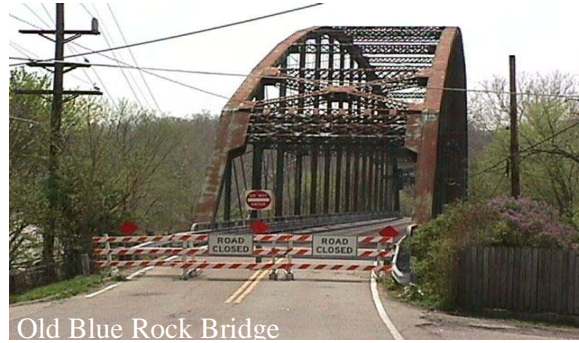
<u>ID NO</u>	<u>NO.</u>	<u>PROJECTS</u>	<u>DESCRIPTIONS</u>	<u>ESTIMATE</u>
		Bridge Maintenance 2005	Various Structures	\$200,000
21	500005	Oxford Road (Historic Truss)	Rehabilitation	\$160,000
22	500310	Camargo Road (B-0034)	Rehabilitation	\$300,000
23	500209	Elliott Avenue (AHT – 0020)	Replacement	\$970,000
24	500406	Sidney Road (B-0002)	Rehabilitation	\$250,000
25	500305	Blue Rock Road (B-0009)	Demolition	\$200,000
26	500421	Eight Mile Road (B-0070)	Rehabilitation	\$400,000
27	500223	Jordan Road	Slide Correction	In House
28	500017	Berkshire Road	Pier Wall	\$200,000
29	509519	Ronald Reagan Highway (Livingston Area)	Embankment	\$100,000
30	500311	E. Miami River Road (7720)	Retaining Wall	\$200,000
31	500230	Old Colerain	Slide Correction	\$150,000
			SUBTOTAL 2005	\$3,130,000
		Bridge Maintenance 2006	Various Structures	\$200,000
32	500422	Miles Road (B-0241)	Replacement	\$300,000
33	500507	E. Stephens (WHT-0104) Optional	Replacement	\$175,000
34	500508	Link Road (B-0032) Optional	Replacement	\$150,000
35	500218	Day Road (B-0021)	Replacement	\$175,000
36	500206	Forrest Road (B-0190) Optional	Rehabilitation	\$230,000
37	500302	Zion Hill Road (B-0097)	Replacement	\$450,000
38	500219	Sekitan Road (ADD-0032)	Replacement	\$250,000
39	500207	Seven Gables (B-0007)	Replacement	\$250,000
40	500426	Pedretti Road	Pier Wall	\$150,000
41	500509	Roebing Road	Pier Wall	\$250,000
42	500305	Blue Rock Road	Slide Correction	\$150,000
43	500311	E. Miami River Road (North of Harrison)	Slide Correction	\$150,000
44	509929	Markley Road – Bennett Road	T' Wall	\$210,000
			SUBTOTAL 2006	\$3,090,000
		TOTAL AMOUNT (2005 & 2006)		\$6,220,000



Springdale Bridge

Note: Projects projected are dependent upon available financial leveraging to secure needed funding

**PROJECTED 2005 AND 2006
ENGINEERING PROJECTS**



Old Blue Rock Bridge

**TOWNSHIP PROJECT DESCRIPTIONS
FOR PROGRAM YEAR 2005
DISTRICT 2 - HAMILTON COUNTY
OPWC FUNDED PROJECTS**



Burlington Facility

MAP ID	NO.	PROJECT NAMES	PROJECT DESCRIPTIONS
45	509617	Winton Road Phase III (Fleming to Greenhills)	Preparation of detailed contract plans to rehabilitate and widen from Fleming Road to Greenhill Corporation.
46	500102	Fields Ertel Road Preliminary Corridor Plan	Preparation of a Corridor Plan Report to identify needed improvements from Reed Hartman Highway to I-71.
47	509624	Wesselman Road and Rybolt Road	Preparation of detailed contract plans to improve and upgrade the existing intersection.
48	500203	Harrison Road, Simonson Road and Campbell Road	Preparation of detailed contract plans to improve and upgrade the existing intersections.
49	500307	Mt. Carmel Road & Beechwood Road	Preparation of detailed contract plans to improve and upgrade the existing intersection.
50	500410	Kemper Road and US 27 Interchange	Preparation of detailed contract plans to improve and upgrade the existing intersection.
51	500212	Blue Rock Alignment Improvement	Preparation of detailed contract plans to improve and upgrade the abrupt alignment.
52	500510	Blue Rock Road and Cheviot (North Intersection)	Preparation of detailed plans for upgrading intersection.
53	500114	Sycamore Road	Preparation of detailed contract plans to improve and upgrade the existing roadway.
54	500511	Harrison Road (Hearne Rd to I-74)	Preparation of detailed contract plans to improve and widen pavement from Hearne to I-74.
55	500411	Fields Ertel & Lebanon Road	Preparation of detailed contract plans to improve and upgrade the existing intersection.
56	500412	Union Cemetery Road & Lebanon Road	Preparation of detailed contract plans to improve and upgrade the existing intersection.
57	500512	Cheviot Road Improvement	Preparation of detailed contract plans to improve and widen pavement from Tallahassee Road to North Bend.
58	500258	Five Mile Road and Beechmont Avenue	Preparation of detailed contract plans to improve and lengthen Five Mile Road left turn storage capacity.
59	500513	North Bend Road Improvements	Preparation of detailed contract plans to improve and widen pavement from Boomer to West Fork.
60	500514	North Bend Rd., Reemelin Road and Delhi Rd. Intersection Improvements	Preparation of detailed contract plans to improve and upgrade the existing intersections.
61	509415	Ragland Road	Preparation of detailed plans to improve and upgrade the existing roadway.
62	500515	Springdale Road and Poole Road	Preparation of detailed plans to improve and upgrade the existing intersection.
63	500421	Eight Mile Road	Preparation of detailed contract plans to improve the profile of the existing road north of US 52.
64	500422	Miles Road (B-0241)	Preparation of detailed contract plans for replacement.
65	500218	Day Road (B-0021)	Preparation of detailed contract plans for replacement.
66	500508	Link Road (B-0032)	Preparation of detailed contract plans for replacement.
67	500315	Berkshire Road	Preparation of detailed contract plans for slide correction.
68	509909	Asbury Road	Preparation of detailed contract plans for slide correction.
69	500409	Forfeit Run Road	Preparation of detailed contract plans for slide correction.
70	500230	Old Colerain Road	Preparation of detailed contract plans for slide correction.
71	500426	Pedretti Road	Preparation of detailed contract plans for a pier wall.
72	500516	Blue Rock Road	Preparation of detailed contract plans for a pier wall.
73	500507	E. Stephens (WHI-0104)	Preparation of detailed contract plans for replacement.
74	500517	Devils Backbone Road (B-0208)	Preparation of detailed contract plans for replacement.
75	500311	E. Miami River Road (N of Harrison)	Preparation of detailed contract plans for a pier wall.
76	500509	Roebing Road	Preparation of detailed contract plans for slide correction.

Hamilton County/Delhi Township – Greenwell/Glenroy/Schroer Road Improvement/Drainage Mitigation Project - Estimated cost of \$1,450,000.00. Project limits are the entire length of Glenroy and Schroer Avenues and Greenwell Road from Delhi Pike to Mt. Alverno Road. Project consists of (Glenroy & Schroer) full depth removal and replacement of roadway and curbs, rolled concrete curb and gutter, underdrains, sidewalk and driveway entrance replacement; (Greenwell) rehabilitation of existing pavement, installation of a new storm sewer system which will pick up ditch drainage and overland flow and place that drainage within an enclosed storm sewer system designed to convey all storm drainage into a stormwater collection basin at the end of Schroer Avenue. The basin will be built on the footprint of properties on the western edge of Schroer Avenue. A grant of \$1,305,000.00 was approved for this project. Construction is to be complete by December 31, 2005.

Springfield Township – Valleydale Street Reconstruction - Estimated cost of \$1,085,000.00. Project limits are entire lengths of Marley Street, Jadwin Street, Newbury Street, Roland Street, Banbury Street, and Mayfair Drive. Project consists of removal of existing pavement to subgrade, undercut and repair subgrade, rebuild catch basins and repair/replace storm pipe where necessary, geogrid fabric, resurface with asphalt concrete. A grant of \$976,500.00 was approved for the project. Construction is expected to be completed by December 31, 2005.

Columbia Township – Ehrling Avenue Reconstruction - Estimated cost of \$500,000.00. Project limits are entire length of Ehrling Avenue. Project consists of full depth removal and replacement of existing pavement and curbs; new storm sewers/catch basins. A grant of \$250,000.00 was approved for this project. Construction is to be complete by December 31, 2005.

Anderson Township – Forestlake Drive Reconstruction – Estimated cost of \$353,250.00. Project limits are from Lancelot Drive to end terminus. Project consists of full depth pavement removal and replacement, new curb and gutters, and a new storm sewer system. A grant of \$176,625.00 was approved for the project. Construction is to be complete by December 31, 2005.

Springfield Township – Stella/Marie Street Reconstruction - Estimated cost of \$880,000.00. Project limits are entire length of both streets. Project consists of installation of underground storm sewer system with curb inlets, removal and replacement of both roadways, installation of vertical curb and gutter for the entire length of both streets, widen both streets to 25 feet back to back of curbs, complete replacement of existing water main and hydrants. A grant of \$512,000.00 was approved for this project. Construction is to be complete by June 20, 2005.

Symmes Township – Camp Road Roadway and Drainage Improvements Phase 2 – Estimated cost of \$680,000.00. Project limits are Camp Road and Adams Lane (entire length). Project consists of removal and replacement of existing roadways; install new storm sewer system; resurface with asphaltic concrete. A grant of \$340,000.00 was approved for this project. Construction is to be complete by August 15, 2005.

Anderson Township – Bruce Lane Storm Sewer and Pavement Reconstruction – Estimated cost of \$300,000.00. Project limits are from Salem Road to Beaconwood Avenue. Project consists of removing existing pavement to subgrade; undercut and remove unsuitable materials; install new storm sewer system; lower pavement to accept proper drainage to the street; reconstruct new asphalt pavement with gravel base. A grant of \$150,000.00 was approved for this project. Construction is to be complete by December 31, 2005.