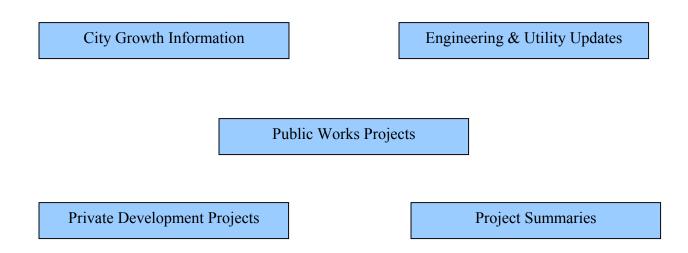
City of Wooster

Division of Engineering

2005 Annual Report



Prepared by: Joel Montgomery, PE City Engineer February, 2006

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Summary & Narrative – Section 1

DIVISION OF ENGINEERING 2005 SUMMARY REPORT March, 2006

INFRASTRUCTURE PROJECTS COMPLETED OR UNDER CONSTRUCTION IN 2005:

1. <u>2005 Sewer Rehab:</u> The Engineer's estimated construction cost for this project was \$116,600. This work consisted of the cured-in-place pipe rehabilitation of sanitary and storm sewer pipes and the cured-in-place rehabilitation of five manholes. The work was performed at four locations in the city: South Street west of Liberty Street; Oak Hill Road between Buchholz Drive and Westridge Drive; Northwestern Avenue between Woodland Avenue and Beechwood Avenue; and Wayne Avenue west of Quinby Avenue. The storm sewer rehabilitation consisted of 445 linear feet of 12" corrugated metal pipe. The sanitary sewer rehabilitation consisted of the following: 348 linear feet of 15" vitrified clay pipe, 72 linear feet of cast iron pipe, and 830 linear feet of 8" vitrified clay pipe. The bid opening was March 16, 2005 with Insituform being awarded the work with a bid of \$114,277. Work began in April and was completed in August at a final cost of \$120,218.08.

2. <u>Cleveland Road Water Service Replacements</u>: The project consisted of abandoning approximately 1300' of 6" water pipe and transferring all service connections to an existing 8" ductile iron waterline on Cleveland Road from Highland Avenue to Timber Lane. The work included replacing old services, installing curb stops and gate valves along with all fittings and appurtenances. The estimated construction cost was \$60,500. Contract awarded to Mushrush Utilities in the amount of \$49,973.00 in May 2005. Project completion was in July with a final cost of \$56,658.60.

3. <u>Nold Ave. Storm:</u> This project was awarded to Buckeye Excavation & Construction Inc. on December 28, 2004 with a bid price of \$341,912.00; the engineer's estimate was \$386,000. The work consisted of furnishing all materials and labor for the installation of approximately 830 feet of 18" thru 60" RCP storm sewer, 720 feet 18" PVC sanitary sewer, 10 manholes and catch basins, and all associated appurtenances. Final cost of project was \$366,865.75.

4. <u>**Carter Water Line Improvements:**</u> The Engineer's estimate for construction was \$77,500. The project consisted of the construction of 785' of 6" D.I. waterline including 10 service connections and all valves and other appurtenances on Carter Drive. R.A. Bores, Inc. was awarded the contract in September 2005 and completed the project by the end of October. The contract amount was \$61,436 with a final construction cost of \$60,510.55.

5. <u>Montclair Sewer Extension</u>: This project consisted of replacing a sanitary force main and removal of a sanitary sewer lift station on Montclair Avenue by construction of a gravity sewer.

The sanitary sewer was redirected to the existing sanitary sewer line on Oak Hill Road. The new gravity sewer consisted of approximately 740' of 8" PVC pipe and 6 manholes. The engineer's estimated construction cost for this project was \$80,000. G.E. Baker was awarded the contract in July 2005 for the amount of \$80,852.50. Construction was completed in October for a final cost of \$86,852.20.

6. Long Road Sanitary Sewer: The work consists of approximately 8,000 linear feet of sanitary sewers from 12 inches to 24 inches in diameter, 26 manholes, 3 borings (state highway, county road and railroad) and pump station removal. The engineer's estimate for this project was \$792,610. The project was bid in November 2005 and the contract was awarded to Underground Utilities in the amount of \$723,474.50 with construction slated to be completed mid-summer 2006.

7. <u>Woodcrest Sanitary Sewer Replacement:</u> This work consisted of installing a new 12" PVC sanitary sewer line and appurtenances to replace an existing 8" clay sanitary sewer line. The new sewer consists of approximately 1,550 linear feet of 12" main sewer pipe and 7 manholes. Work also included the installation of new 6" PVC laterals. The new construction allowed for the abandonment of the existing sanitary sewer system which was undersized and allowed infiltration of ground water. The engineer's estimate for this project was \$275,000. The project was bid in October and awarded to G.E. Baker in the amount \$246,657. Final completion will be during the first part of 2006.

8. <u>Noble Drive Development:</u> This project consisted of the construction of approximately 4000 feet of asphalt street with concrete curb and gutter sidewalks; 8500 feet of sanitary sewer; 7000 feet of waterline; 6500 feet of 12 inch through 54 inch storm sewer and all associated appurtenances. The Engineer's estimated construction cost for this project was \$2,700,000. Project was funded by the Community Development Block Grant (CDBG) Economic Development Program and local government funds. Bid date was May 6, 2005 with a project completion date of November 1, 2005. Stout Excavating, Inc. was awarded the contract in the amount of \$2,055,099. Final completion will be during the first part of 2006.

9. <u>Buchholz Drive Sanitary Sewer:</u> This project consisted of replacing an existing sanitary sewer lift station on Buchholz Drive with a gravity sewer that will connect to an existing sanitary sewer line on Mechanicsburg Road. The new gravity sewer consisted of approximately 880' of 8" PVC pipe. This work included the removal of the existing lift station and installation of 4 new manholes and sewer pipe. The Engineer's estimated construction cost for this project was \$75,500. The contract was awarded to Elite Excavating in the amount of \$63,058 with final completion scheduled for early 2006.

10. <u>Bever/Beall Avenue Storm Sewer:</u> This project consisted of constructing approximately 11 manholes, 2,200 linear feet of 24-inch thru 60-inch storm sewers and appurtenances on

Maple Street, Henry Street, Bever Street, South Street, Liberty Street, North Street, and an alley between North Street and Henry Street east of Bever Street. This project is part of the ongoing City's sanitary/storm sewer separation projects. The engineer's estimate was \$786,000 and the contract was awarded to Elite Excavating, Inc. in November 2005 in the amount of \$696,640. Final completion will be early Spring 2006.

11. <u>Theodore Street Sidewalk:</u> This project consisted of the removal and disposal of existing concrete curb and sidewalk and the construction of approximately 3000 square feet of new 4" concrete walk and 10 linear feet of concrete curb along Theodore Street adjacent to the completed storm sewer project (2004). The Engineer's estimated construction cost for this project was \$44,000. Project was funded by Community Development Block Grant (CDBG) Economic Development Program and local government funds. The contract was awarded to T.R. Snyder Construction in the amount of \$42,130 in June 2005 with the project being completed in the fall at a cost of \$45,541.90.

12: <u>West Liberty Street Storm Sewer Separation</u>: This project consisted of furnishing all materials and labor for the installation of approximately 13 manholes, 17 catch basins and 2155 linear feet of storm sewer ranging in size from 12 inch to 36 inch including all appurtenances. This is another of the sewer separation projects that are scheduled to reduce the amount of storm flows to the Wastewater Treatment Plant. The engineer's estimated construction cost for this contract was \$350,000 with the contract being awarded to Newcomer Concrete in the amount of \$321,051</u>. Project completion is scheduled for Spring 2006.

13. <u>E. Milltown Road Reconstruction:</u> Construction involves approximately 5000 feet of new asphalt roadway and concrete curb and gutter; 38,000 square feet of sidewalk; 5200 feet of 12' through 36' storm sewer; 25,000 cubic yards of excavation and embankment; construction of a pedestrian bridge over the Little Apple Creek ; installing all new traffic control signs and pavement markings; and all associated appurtenances. The engineer's estimate for this project was \$1,444,000. Stout Excavating, Inc. was awarded the contract in November 2005 for a cost of \$1,474,906.47. Utility relocation work started in the fall of 2005 with completion scheduled for Summer of 2006.

14. <u>Melrose Sanitary Sewer:</u> This project consisted of extending the sanitary sewer on Melrose Drive from approximately 155' north of the intersection with Portage Road for approximately 645'. The new gravity sewer consists of approximately 645' of 8" PVC and 160' of 6" PVC lateral pipe. This work includes the installation of new manholes and sewer pipe. The Engineer's estimated construction cost for this project is \$70,000.00. C & C Excavating was awarded the contract in November for a cost of \$67,839.65. The project was scheduled for completion by end of January 2006.

INFRASTRUCTURE PROJECTS SCHEDULED/PLANNED FOR 2006:

1. <u>North Street Bridge Replacement:</u> This project will replace the existing, deteriorating concrete slab bridge with a new concrete poured in place structure. The project also consists of the replacement/rerouting of approximately 475 linear feet of sanitary sewer, 6 new manholes and 370 linear feet of water main. The estimated cost for this project was \$441,000, the contract was awarded to V.O. Menuez & Sons, Inc. for \$511,894.11. Construction is scheduled to start the first week of April.

2. <u>North/Walnut/Grant Streets Storm Sewer:</u> This project is part of the City's Master Plan for Sewer Separation. The project consists of approximately 2000 linear feet of 12" thru 24" storm sewer, 13 manholes and 16 catch basins. It is anticipated for construction to be in conjunction with the North Street Bridge replacement project. The engineer's estimated cost for construction is \$285,000.

3. <u>N. Bever and Quinby Avenue Sidewalk:</u> The work consists of furnishing all materials and labor for the installation of approximately 3000 square feet of concrete sidewalk including grading and seeding. The engineer's estimated construction costs for the project is \$29,000. The contract was awarded to Smith Paving for \$19,779.20. Construction is schedule to begin the first week of March and taking approximately 30 days to complete.

4. <u>**Grant, Walnut, Clark and Saybolt Area Storm Sewers:**</u> Field work has been completed for the installation of storms sewers in this area as per the Master Plan for Sewer Separation, Design is currently being performed by the Engineering Division with construction planned for the Summer and Fall. The engineer's estimated construction cost is \$520,000 which will be partially funded by an OPWC grant and no interest loan.

5. <u>Interceptor Wells I-6 & I-7</u>: This project consists of the installation of two new interceptor wells in the City's south well field complete with well pumps, waterline and air strippers. The engineer's estimated construction cost for this project is \$860,000. The project advertised for bid during February and was awarded to Reynolds, Inc. in the amount of \$617,066.00. Construction will begin in the Spring.

6. <u>Cleveland Road Lift Station</u>: This project consists of replacing the existing lift station on Cleveland Road to meet current sanitary sewer flows and OEPA regulations. The upgrade includes new force main, 4" non-clog explosion proof pumps, 8' diameter wet well, electric work, standby power system, and telemetry and control work. The engineer's estimated construction costs for this project is \$300,000.

7. <u>Christmas Run Waterline Replacement:</u> This project is being designed by the Engineering Division and consists of the construction of approximately 8,100 linear feet of 12" D.I.

waterline including 107 service connections, valves and fire hydrants and other appurtenances on Christmas Run Blvd. from Wayne Avenue to Oldman Road. The engineer's estimated construction costs for this project is \$950,000 with construction slated to begin during May.

8. <u>Beall Ave. Streetscape:</u> This project consists of upgrading Beall Avenue from Liberty Street to Bloomington Avenue. New roadway will be constructed complete with curb and gutters, turn lanes, storm sewer and a boulevard section through the College of Wooster. Engineering plans will be completed in 2006 as well as right-of-way acquired and funding secured. Advertisement should take place during January of 2007. The engineer's estimate for construction of this project is \$12,000,000.

9. <u>Intermediate Zone Water Tank & Booster Station</u>: A proposal is currently being reviewed for updating of the City's water distribution model and for locating and sizing a storage tank on the Intermediate System. The initial estimate for a 1,000,000-gallon water storage tank and booster station is \$1,800,000. The tank will be sized to allow for pumping into the high level zone and for providing storage limits set by the OEPA.

10. <u>Mechanicsburg Road Sanitary Sewer:</u> This project consists of upgrading the sanitary sewer which runs along Mechanicsburg Road then adjacent to Bell & Howell. This upgrade is required to meet the current and future demands from development along the western border of the City. Construction costs are estimated to be \$200,000

11. <u>North High Area Water Tank:</u> Preliminary design has been started by the Engineering Division to locate a new 750,000-gallon water storage tank on the high level system. We anticipate completing this design by fall and initiating the construction process after EPA approval. The initial estimate for this tank is \$1,000,000.

12. <u>WTP CL2 Storage Expansion</u>: The Engineering Division will design an addition to the Water Treatment Plant for Chlorine Storage. The cost estimate for the proposed building is \$30,000.

Private Developments

1. <u>**Private Subdivisions/Commercial Property under Construction:</u> Several large commercial projects were begun in 2005. TGS, Western Reserve, Boys Village and Frito Lay all submitted site improvement plans for expansion. The Frito Lay project is still in process for the upcoming 2006 year.</u>**

Reserve at Deer Creek, Villages of Wetherington – Phase 4, and Summerlin Subdivision – Phase 5 were all private subdivisions begun in 2005.

2. <u>Subdivision Plan Review Table:</u> In addition to the major private subdivisions and commercial developments under construction in 2005, several minor commercial developments were reviewed by the Engineering Department. The table below lists all subdivisions and developments submitted for review in 2005.

City of Wooster Engineering Development Permits					2005			
DEVELOP.	PERMIT	PROJECT	NAME / DESCRIPTION		SITE IMP.S	PL/	AN REVIEW	DATE
#	NO.	NO.		СС	OST ESTIMATE		FEE	RECEIVED
1	05001	043016	TGS Site Development	\$	500,000.00	\$	1,687.55	02/02/05
2	05002	043034	Reserve at Deer Creek	\$	694,000.00	\$	11,149.45	2/18/2005
3	05003	043042	Wooster Hospital Expansion	\$	120,000.00	\$	1,659.50	04/01/05
4	05004	053009	COW Parking Lot #3	\$	140,000.00	\$	761.00	04/28/05
5	05005	053010	Luk Parking Phase II	\$	125,000.00	\$	761.00	04/12/05
6	05006	053012	Dominion Mohican Line #234		\$200,000	\$	280.00	42/28/05
7	05007	053014	Acres of Fun	\$	100,000.00	\$	1,333.50	05/04/05
8	05008	053016	WESTERN RESERVE SERVICE BLDG	\$	610,000.00	\$	853.25	05/20/05
9	05009	053019	United Titanium	\$	30,000.00	\$	1,377.00	06/21/05
10	05010	043031	Boys Village Expansion	\$	600,000.00	\$	5,827.00	07/08/05
11	05011	053022	COW Guest House Parking Lot	\$	5,500.00	\$	244.00	06/21/05
12	05012	053023	WESTERN RESERVE - BENDEN GRADING	\$	10,000.00	\$	400.50	06/24/05
13	05013	053015	Frito Lay Expansion	\$	1,000,000.00	\$	1,485.60	
14	05014	053007	Arby's Beall Ave.	\$	80,000.00	\$	305.00	08/05/05
15	05015	053008	TCBY Yogurt	\$	40,000.00	\$	784.00	08/09/05
16	05016	053028	Villages of Wetherington, Ph. 4 (Woods & Forests)	\$	10,000.00	\$	7,605.00	11/17/05
17	05017	053029	Grace Brethren Church Parking Lot					
18	05018	053036	Pallotta Ford Expansion					
19	05019	053035	Wayne Co Justice Center Sanitary	\$	40,000.00	\$	232.50	11/02/05
20	05020	053037	Summerlin Subdivision Ph. V					
21	05021	033020	Jankov Utility Extensions - Milltown Road	\$	10,000.00	\$	499.00	
22								
23								
	TOTALS			\$	4,314,500.00	\$	37,244.85	

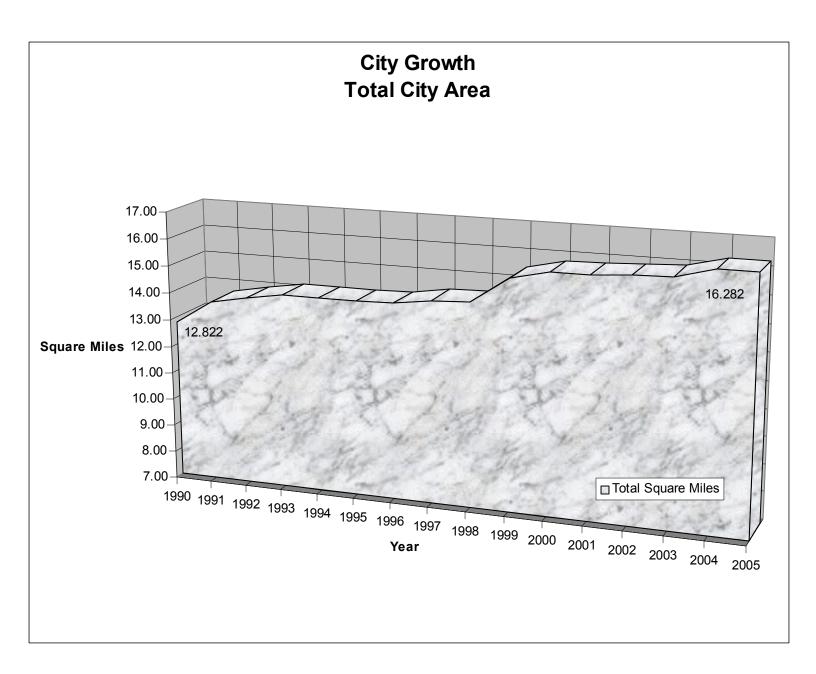
ENGINEERING FEES AND REVENUES FOR 2005:

The following breakdown details the revenues received in 2004 and 2005 by the Division of Engineering.

	2004	2005
Single Inspection	\$ 6,074.00	\$ 1,790.00
Street Cut Permit/Deposit	\$ 5,150.00	\$ 850.00
Construction Inspection Deposit	\$ 36,798.85	\$ 15,522.00
Plan Review Fee	\$ 25,897.80	\$ 36,674.61
Plan Copies	\$ 1,845.95	\$ 9,406.66
Yard Pipe Permit Sanitary Sewer Permit	\$ 1,172.00 \$ 4,411.00 \$ 26,229.50	\$ 354.00 \$ 2,338.00
San. Sewer Availability Charge	\$ 36,238.50	\$ 13,530.00
Water Availability	\$ 12,311.12	\$ 5,229.40
Water Service Permit	<u>\$ 548.00</u>	<u>\$ 582.00</u>
Total Fees Collected:	<u>\$130,447.22</u>	<u>\$ 86,276.67</u>

Except for development permits, total number of permits were down in 2005 compared to 2004. Total permits were down 32%; totals revenues were down 33%. Based on actual costs involved, fees should be increased just to cover costs.

City Growth Statistics – Section 2



City Area Statistics

Year	Increases (Acres)	Total Acres	Total Square Miles	% Increase
				<u> </u>
1965	0.000	4,966.400	7.760	0.000
1966	648.890	5,615.290	8.774	13.066
1967	0.000	5,615.290	8.774	0.000
1968	0.000	5,615.290	8.774	0.000
1969	331.550	5,946.840	9.292	5.904
1970	62.470	6,009.310	9.390	1.050
1971	0.000	6,009.310	9.390	0.000
1972	181.810	6,191.120	9.674	3.025
1973	54.380	6,245.500	9.759	0.878
1974	173.858	6,419.358	10.030	2.784
1975	4.000	6,423.358	10.036	0.062
1976	19.532	6,442.890	10.067	0.304
1977	25.032	6,467.922	10.106	0.389
1978	79.990	6,547.912	10.231	1.237
1979	56.819	6,604.731	10.320	0.868
1980	3.000	6,607.731	10.325	0.045
1981	135.195	6,742.926	10.536	2.046
1982	2.730	6,745.656	10.540	0.040
1983	47.046	6,792.702	10.614	0.697
1984	148.203	6,940.905	10.845	2.182
1985	0.000	6,940.905	10.845	0.000
1986	45.319	6,986.224	10.916	0.653
1987	0.000	6,986.224	10.916	0.000
1988	187.711	7,173.935	11.209	2.687
1989	1,031.835	8,205.770	12.822	14.383
1990	0.000	8,205.770	12.822	0.000
1991	541.763	8,747.533	13.668	6.602
1992	166.072	8,913.605	13.928	1.899
1993	160.949	9,074.554	14.179	1.806
1994	1.080	9,075.634	14.181	0.012
1995	0.000	9,075.634	14.181	0.000
1996	23.626	9,099.260	14.218	0.260
1997	123.047	9,222.307	14.410	1.352
1998	40.564	9,262.871	14.473	0.440
1999	610.865	9,873.736	15.428	6.595
2000	217.389	10,091.125	15.767	2.202
2000	2.781	10,093.906	15.772	0.028
2001	64.491	10,158.397	15.872	0.639
2002	24.120	10,182.517	15.910	0.033
2003	226.640	10,409.157	16.264	2.226
2004	11.090	10,420.247	16.282	0.107

2005 Annexations

No.	Description	Date	Area
1	Mechanicsburg Road	2/22/2005	4.93 Ac
2	Mechanicsburg Road	3/21/2005	5.52 Ac
3	Melrose Drive	4/13/2005	0.64 Ac

City Growth Information

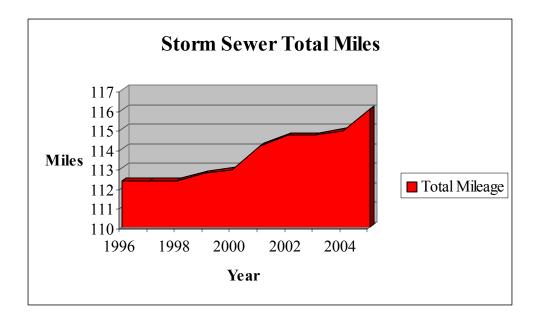
Year	City Population	City Area	City Streets
1000	22,427.()	10.0000 G M	10(42)(1
1990	22, 427 (a)	12.8222 Sq. Mi.	106.42 Miles
1999	26,100 (b)	15.428 Sq. Mi.	119.38 Miles
2000	24,811 (a)	15.767 Sq. Mi.	120.41 Miles
2001	25,047 (b)	15.772 Sq. Mi.	120.79 Miles
2002	25,342 (b)	15.872 Sq. Mi.	121.55 Miles
2003	25,420(b)	15.910 Sq. Mi.	122.87 Miles
2004	25,801 (b)	16.264 Sq. Mi.	125.39 Miles
2005	26,166 (b)	16.282 Sq. Mi.	127.20 Miles

(a) Census (b) Estimated

Utility Statistics – Section 3

-	Year	Increase in Miles	Total Mileage	% Increase
			112.35	
	1996	0	112.35	0.00%
	1997	0	112.35	0.00%
	1998	0	112.35	0.00%
	1999	0.38	112.73	0.34%
	2000	0.18	112.91	0.16%
	2001	1.22	114.13	1.08%
	2002	0.55	114.68	0.48%
	2003	0	114.68	0.00%
	2004	0.24	114.92	0.21%
	2005	1.11	116.03	0.97%

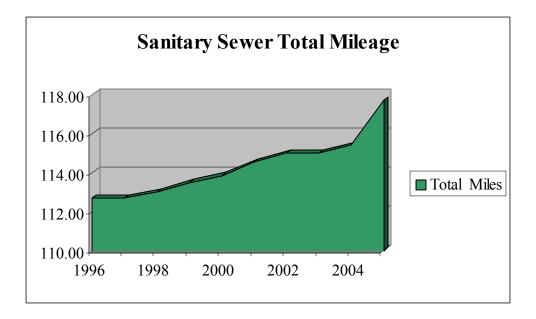
Storm Sewer Mileage



The increase in storm mileage was primarily due to the construction of Noble Drive and extension of Benden Drive to Geyers Chapel Road.

Year	Increase in Miles	Total Miles	% Increase
		112.7	
1996	0	112.70	0.00%
1997	0	112.70	0.00%
1998	0.29	112.99	0.26%
1999	0.49	113.48	0.43%
2000	0.37	113.85	0.33%
2001	0.68	114.53	0.60%
2002	0.47	115.00	0.41%
2003	0	115.00	0.00%
2004	0.41	115.41	0.36%
2005	2.33	117.74	2.02%

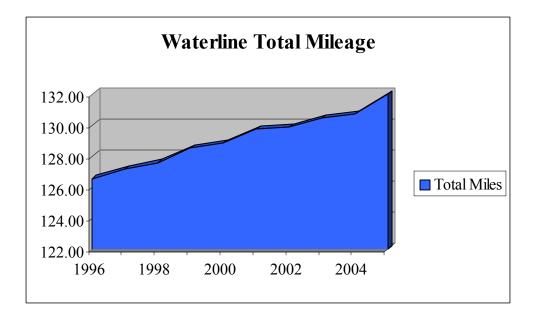
Sanitary Sewer Mileage



The increase in sanitary sewer mileage was primarily due to the need to service the proposed businesses on Noble Drive and the extension of Benden Drive.

Year	Increase in Miles	Total Miles	% Increase
		126.55	
1996	0.00	126.55	0.00%
1997	0.60	127.15	0.47%
1998	0.43	127.58	0.34%
1999	0.94	128.52	0.74%
2000	0.32	128.84	0.25%
2001	0.91	129.75	0.71%
2002	0.10	129.85	0.08%
2003	0.59	130.44	0.45%
2004	0.26	130.70	0.20%
2005	1.30	132.00	0.99%

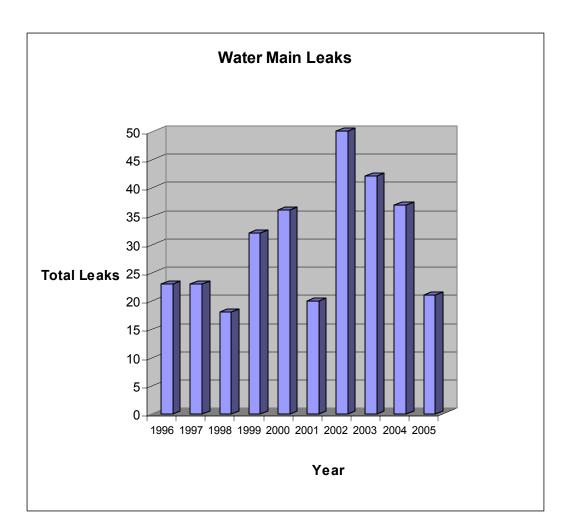
Waterline Mileage



Like the storm sewer and sanitary sewer, waterline mileage increased to service the new businesses on Noble Drive and Benden Drive extension. Part of the increase was to complete a waterline loop through Boys Village to the water storage tank on Old Airport Road.

Water Main Leaks

Year	Number
1995	28
1996	23
1997	23
1998	18
1999	32
2000	36
2001	20
2002	50
2003	42
2004	37
2005	21



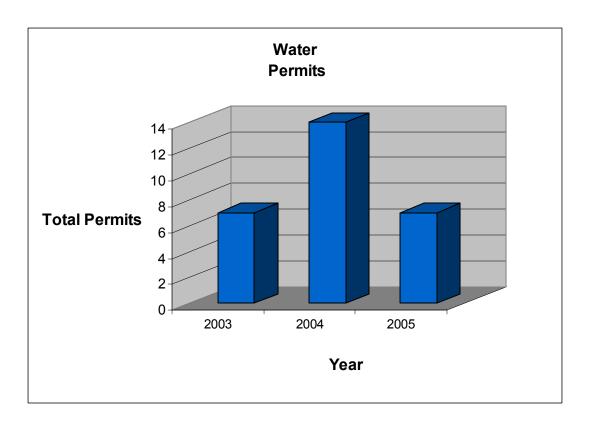
Sewer	Permits
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Year	Number
2000 2001 2002	9 24 14
2002 2003 2004 2005	17 28 9



Water Permits

Year	Number
2003	7
2003	14
2005	7



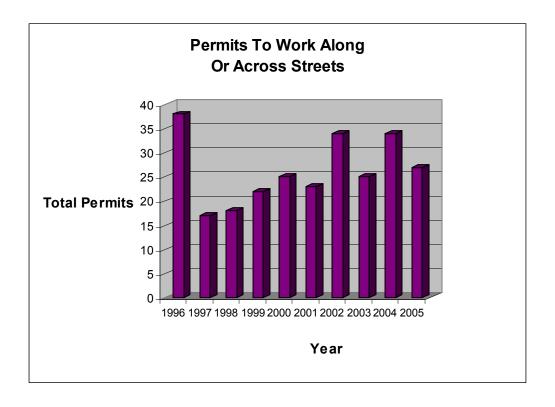
Street Cut Permits

1996 27	
1997 27	
1998 21	
1999 34	
2000 31	
2001 26	
2002 28	
2003 32	
2004 15	
2005 8	



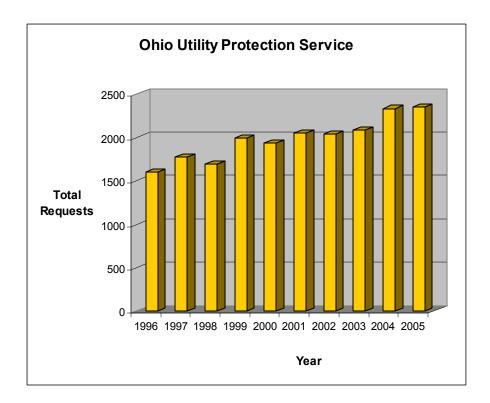
Or Across Streets				
Number				
38				
17 18				
22 25				
23				
34 25				
34 27				

Permits To Work Along



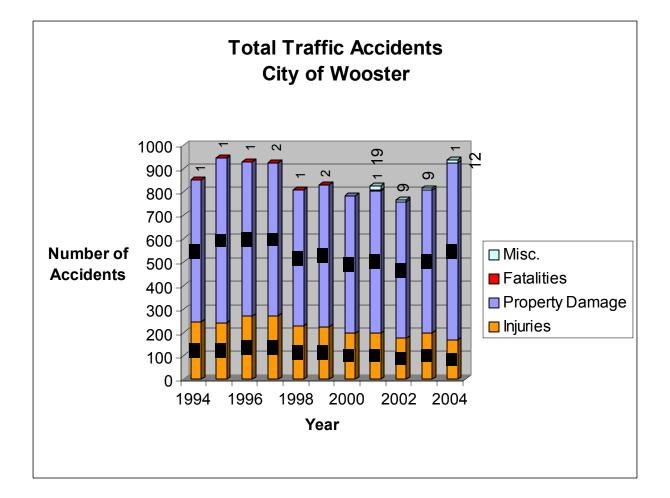
Ohio Utility Protection Service
Location Requests

Year	Number
1996	1598
1997	1776
1998	1697
1999	1992
2000	1932
2001	2047
2002	2043
2003	2087
2004	2334
2005	2356



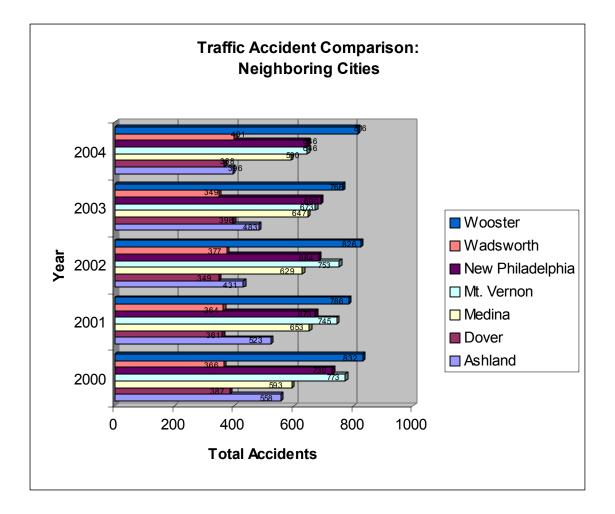
Traffic Statistics – Section 4

City Of Wooster Traffic Accidents							
Year	Injuries	Property Damage	Fatalities	Misc.			
1994	247	605	1				
1995	243	701	1				
1996	269	660	1				
1997	273	651	2				
1998	229	580	1				
1999	224	606	2				
2000	197	587					
2001	197	609	1	19			
2002	175	582		9			
2003	198	609		9			
2004	168	757	1	12			



Traffic Accident Comparison Totals By Neighboring Cities

					New		
Year	Ashland	Dover	Medina	Mt. Vernon	Philadelphia	Wadsworth	Wooster
1995							945
1996							928
1997	514	357	716	707	601	362	926
1998	548	389	605	735	726	374	810
1999	558	387	603	773	730	366	832
2000	523	361	593	745	673	364	786
2001	431	349	653	753	684	377	826
2002	483	398	629	673	690	349	766
2003	396	368	647	646	646	401	816
2004	440	319	590	697	650	414	757



Engineering Design Statistics – Section 5

DIVISION OF ENGINEERING 2005 Annual Report PROJECT SUMMARY

(Projects Designed or Constructed in 2005)

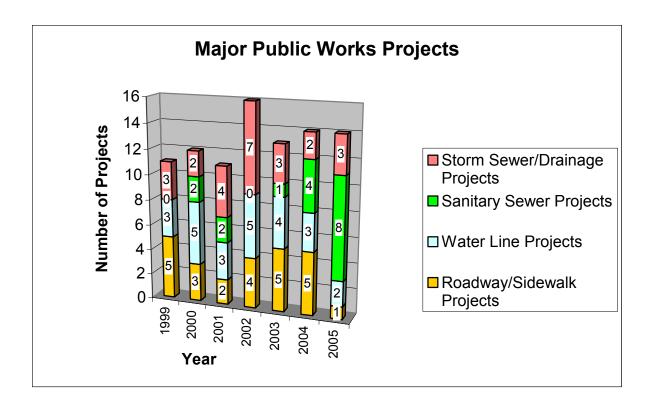
				ESTIMATED		
PROJECT	DESIGNER/CONSULTANT	DESIGN COST	CONTRACTOR	CONST. COST	BID PRICE	FINAL COST
GIS Mapguide	Imaginit Technologies		Imaginit Technologies		N/A	
Cleveland Road Water Services	Wooster Engineering Div.	\$0.00	Mushrush Utility	\$60,500.00	\$49,973.00	\$56,658.60
Cleveland Road W/L & Storm	Engineering Associates	\$52,000.00	GE Baker Const.	\$560,000.00	\$611,785.75	\$633,471.51
Nold Ave. Storm & Sanitary	EDG	\$29,500.00	Buckeye Exc	\$386,000.00	\$341,912.00	\$366,865.75
2005 Sewer Rehab	Wooster Engineering Div.	\$0.00	Isituform	\$116,600.00	\$114,277.00	\$120,218.08
Noble Drive Development	Shaffer, Johnston	\$110,500.00	Stout Exc.	\$2,700,000.00	\$2,055,099.00	UC
Woodcrest Sanitary Sewer	Wooster Engineering Div.	\$0.00	GE Baker Const.	\$275,000.00	\$246,657.00	UC
Carter Drive W/L Imp.s	Wooster Engineering Div.	\$0.00	RA Bores	\$77,500.00	\$61,436.00	\$60,510.55
Montclair Sewer Extension	Wooster Engineering Div.	\$0.00	GE Baker Const.	\$80,000.00	\$80,852.50	\$86,852.50
Long Road Sanitary Sewer	Jones & Henry	\$10,000.00	Underground Utilities	\$792,610.00	\$723,475.50	UC
Buchholz Drive Sanitary Sewer	Wooster Engineering Div.	\$0.00	Elite Excavating	\$75,500.00	\$63,058.00	UC
Bever/Beall Sewer Seperation	Arcadis	\$29,100.00	Elite Excavating	\$786,000.00	\$696,400.00	UC
Milltown Road East	Shaffer, Johnston	\$170,000.00	Stout Exc.	\$1,444,000.00	\$1,474,906.47	UC
Theodore St. Sidewalk	Wooster Engineering Div.	\$0.00	TR Snyder	\$44,000.00	\$42,130.00	\$45,541.90
Melrose Sanitary Sewer	Wooster Engineering Div.	\$0.00	C & C Excavating	\$70,000.00	\$67,839.65	UC
W. Liberty Storm Sewer	Engineering Associates	\$23,000.00	Newcomer	\$350,000.00	\$321,051.00	UC
Subtota	ls	\$424,100.00		\$7,817,710.00	\$6,950,852.87	
North Street Bridge Repl.	Engineering Associates	\$65,000.00	N/A	\$441,000.00	N/A	DC
Campbell W/L Imp.s	Wooster Engineering Div.	\$0.00	N/A	\$75,000.00	N/A	DC
Clark W/L Imp.s	Wooster Engineering Div.	\$0.00	N/A	\$30,500.00	N/A	DC
Bever/Quinby Sidewalk	Wooster Engineering Div.	\$0.00	N/A	\$29,000.00	N/A	DC
Grant/Walnut/Clark W/L & Sewer	Wooster Engineering Div.	\$0.00	N/A	\$520,000.00	N/A	DC
St. Rt. 83 Resurfacing	ODOT	\$0.00	N/A	\$290,000.00	N/A	DC
Subtota	ls	\$65,000.00		\$1,385,500.00		
North/Walnut/Grant Storm Sewer	GGJ	\$20,075.00	N/A	\$307,000.00	N/A	UD
North High Area Water Tank	Wooster Engineering Div.	\$0.00	N/A	\$1,000,000.00	N/A	UD
Buckeye Booster Station	Arcadis	\$50,000.00	N/A	\$500,000.00	N/A	UD
Mechanicsburg Booster Station	Arcadis	\$78,700.00	N/A	\$750,000.00	N/A	UD
Mechanicsburg Water Tank	Wooster Engineering Div.	\$0.00	N/A	\$1,000,000.00	N/A	UD
Beall Avenue Streetscape	Brandstetter, Carroll Inc.	\$645,000.00	N/A	\$10,046,750.00	N/A	UD
Christmas Run Blvd. W/L Replace	Wooster Engineering Div.	\$0.00	N/A	\$935,000.00	N/A	UD
Subtota	ls	\$793,775.00		\$14,538,750.00		

Major Public Works Projects

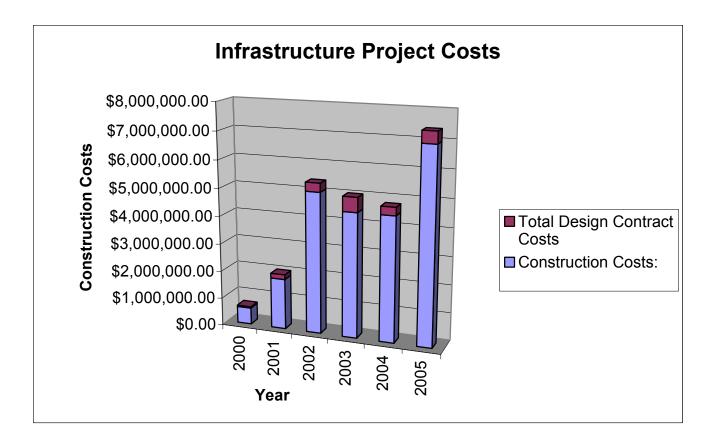
Project Information	2001	2002	2003	2004	2005
Roadway/Sidewalk Projects	2	4	5	5	1
Water Line Projects	2	5	4	3	2
Sanitary Sewer Projects	2	0	1	4	8
Storm Sewer/Drainage Projects	4	7	3	2	3
Total Projects	10	15	13	14	· 14
Projects Designed In-House	5	5	4	3	8
Consultant Designed Projects	5	10	9	11	6
Total Design Contract Costs	\$172,500.00	\$319,008.00	\$528,700.00	\$291,700.00	\$424,100.00
Construction Costs:	\$1,826,000.00	\$5,059,426.00	\$4,471,061.89	\$4,480,225.77	\$6,950,852.87

1. Only projects with construction activity occurring in the designated year have been included.

2. Construction and Design costs represent the total contract amounts.



The above projects were completed due to industrial development, the need to eliminate lift stations and to complete waterline loops.



The City had \$6,950,853 of infrastructure projects in 2005 and associated design contracts of \$424,100. This represents 6.1% of construction costs for outside design services which is a reduction of 0.5% from 2004.