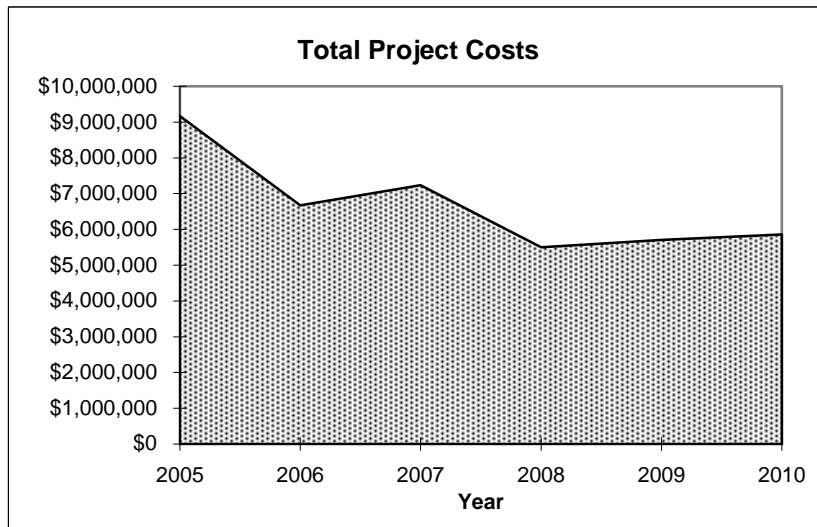


## 2005 Capital Budget Capital Improvement Program

Agency Name: **Sewer Utility**

Agency Number: 54

Project Name	Capital Budget	Future Year Estimates				
	<u>2005</u>	<u>2006</u>	<u>2007</u>	<u>2008</u>	<u>2009</u>	<u>2010</u>
1 Field Operations Veh. & Equip.	\$ 512,600	\$ 565,000	\$ 495,000	\$ 425,000	\$ 525,000	\$ 550,000
2 GIS Migration	0	50,000	50,000	10,000	0	0
3 State Street Replacements	110,000	340,000	400,000	0	0	0
4 In-Place Sewer Rehabilitations	400,000	300,000	300,000	300,000	300,000	300,000
5 Hudson Park/Lake Monona	285,000	150,000	150,000	150,000	150,000	150,000
6 Additions to Collection System	1,520,000	250,000	250,000	250,000	250,000	250,000
7 Lift Station Rehabilitations	75,000	100,000	100,000	100,000	100,000	100,000
8 Improvements to Sewer Study Areas	750,000	250,000	250,000	0	0	0
9 Sewer with Reconstructed Streets	3,863,450	3,775,000	3,905,000	4,025,000	4,145,000	4,265,000
10 Lead Sewer Replacements	240,000	240,000	240,000	240,000	240,000	240,000
11 Hoard Street Area Replacements	325,000	325,000	0	0	0	0
12 E Washington Ave Replacements	1,089,500	325,000	1,100,000	0	0	0
<b>Total</b>	<b>\$ 9,170,550</b>	<b>\$ 6,670,000</b>	<b>\$ 7,240,000</b>	<b>\$ 5,500,000</b>	<b>\$ 5,710,000</b>	<b>\$ 5,855,000</b>





## Capital Budget

### Sewer Utility

#### Field Operations Veh. & Equip.

Project No. 1 Fund No.

GO \$ 0 Replacement of the following vehicles and equipment which have exceeded their useful life:  
Other 512,600 #3114 (1997 Vactor) used to perform preventive maintenance and emergency cleaning of  
\$ 512,600 sanitary sewer facilities; #2060 (1988 GMC 3/4 Ton Truck) used to perform repairs to utility  
owned facilities and equipment; #2091 and #2092 (1987 small pick up trucks) used to  
perform locating/marketing and inspection of private work being performed in rights of way to  
protect Utility owned facilities; #2357 (1996 heavy duty utility vehicle) used by Leadworker to  
transport necessary equipment, tools and supplies to repair sewer facilities; #2646 (1995  
Survey Van) used to transport crew, equipment and supplies to perform survey work; #5906  
(1990 Case 1085C-H Cruz-Aire Wheeled Excavator) used to perform excavation work  
associated with sewer repairs. Reliable equipment is essential to maintaining current level of  
service provided.

#### GIS Migration

Project No. 2 Fund No.

GO \$ 0 This project is for consulting services to: (1) analyze Engineering Division's current  
Other 0 GIS/mapping system software and data structure; (2) make recommendations for the  
\$ 0 migration of that system and data to new software; (3) prepare a migration implementation  
plan and cost estimate. The GIS software that has been used for the last 12 years is nearing  
the end of its lifecycle and will not be supported by the vendors in future computer operating  
system upgrades. The Water Utility, Parks Division, Traffic Engineering Division, and  
Planning and Development Department also use the core CAD software used by this system.  
This system is used to create and maintain the City's base maps, ownership parcel maps,  
storm and sanitary sewer maps, impervious area maps, water utility maps, and various other  
map sets. These maps are used by numerous City agencies on a daily basis. Funding for the  
actual migration is proposed for the 2006, 2007 and 2008 budgets.

#### State Street Replacements

Project No. 3 Fund No.

GO \$ 0 This item is shown separately for budget purposes, as it is a multi-year, multi-phase project.  
Other 110,000 The project began in 2004 and continues for 3 more years. The schedule calls for the 200  
\$ 110,000 block in 2005, the 300 & 400 blocks in 2006, and the 500 & 600 blocks in 2007. Other  
funding is to be derived from TID #32.

#### In-Place Sewer Rehabilitations

Project No. 4 Fund No.

GO \$ 0 This project shall rehabilitate failing sewers that meet certain criteria that does not necessitate  
Other 400,000 the need for a complete replacement by means of open cutting. New technology allows  
\$ 400,000 greater lengths of sewer at a much lower cost under this program, and postpones indefinitely  
the need to make a full replacement of these sewers. Some are also rehabilitated (or lined)  
to address inflow and infiltration problems, where clear water flow enters the sewer system  
stealing capacity and increasing treatment costs. This item includes \$100,000 to line the  
Pennitto Creek Sewer (Inflow / Infiltration problem); \$50,000 for smaller 'point' repairs; and  
\$250,000 for main lines rehabs. The main line item will repair approx 1.75 miles of sewer  
main, on a prioritized basis. To replace an equivalent amount of sewer with conventional  
construction practices would cost \$1,615,000.

**Hudson Park/Lake Monona**Project No. **5** Fund No.

GO \$ 0 This project is for urgent and emergency type repairs that are separate from new extensions or accompanying street construction. These projects arise on very short notice and are unpredictable from year to year. One planned major project is a sewer replacement (or rehabilitation or relocation) in coordination with shoreline improvements along Lake Monona in the Hudson Beach area. Estimated cost of this project (alone) is \$285,000.

Other 285,000  
\$ 285,000

**Additions to Collection System**Project No. **6** Fund No.

GO \$ 0 This project is assessable sewer facilities for new development. Projects proposed: Burke Annexation East of the Interstate and South of the Railroad tracks to Milwaukee Street centered around Lien and Felland, (\$530,000); a West side extension to serve the proposed University Research Park (\$365,000); the next phase of the Center for Industry & Commerce (\$100,000); South High Point Road (\$75,000); Lien Road (\$100,000); and Pleasant View Road (\$350,000).

Other 1,520,000  
\$ 1,520,000

**Lift Station Rehabilitations**Project No. **7** Fund No.

GO \$ 0 This project is for necessary capital improvements to any of the City's 28 public sewerage lift stations. These stations need periodic improvements beyond the normal operating maintenance expenditures. These improvements reduce operating costs, improve efficiency, or bring the station into compliance with present standards for design, safety, and operation. Work is proposed for Fremont Pump Station Wetwell, and \$50,000 is budgeted for contingencies.

Other 75,000  
\$ 75,000

**Improvements to Sewer Study Areas**Project No. **8** Fund No.

GO \$ 0 This project is for the construction and enlargement of: (1) the sewer interceptor on Midvale Blvd. from Regent to University and/or nearby streets (\$650,000 for 2005); (2) sewer line relining and manhole rehabilitation in the Truax area to reduce clear water inflow and infiltration.

Other 750,000  
\$ 750,000

**Sewer with Reconstructed Streets**Project No. **9** Fund No.

GO \$ 0 This project involves replacement of older, problematic sanitary sewers in conjunction with street reconstruction projects and street resurfacing. This is primarily replacement of 6 inch diameter sewers, which are not installed as mains using today's standards. Replacement of these sewers is best done when the street is being reconstructed, to save on cost and inconvenience to the public. Additionally, the City encourages residents to replace the portion of their sewer lateral that lies within the public right-of-way. This is done by offering to pay for 75% of the replacement cost in accordance with a policy adopted by the City in 1997. All 6 inch mains under 'reconstruction' streets will be replaced. Those 6 inch mains under 'resurfaced' streets are evaluated for replacement on a case-by-case basis. Includes \$25,000 for lateral abandonments and \$130,000 for an anticipated project at Regent & Monroe.

Other 3,863,450  
\$ 3,863,450

**Lead Sewer Replacements**Project No. **10** Fund No.

GO \$ 0  
 Other 240,000  
\$ 240,000

The City has embarked upon a program to replace existing water services that were installed using lead pipe. The goal of the program and a requirement of the stipulation executed by the City with the Wisconsin Department of Resources is to replace all lead services within 10 years commencing in 2001. This requires the replacement of approximately 650 - 660 services per year at an estimated average cost to the property owner of \$1,400 per service of which one-half the cost (up to \$1,000) is rebated by the City. Funding for the program is from communication rental fees from the City's elevated water tanks and the Madison Sewer Utility, the latter being in recognition of the avoidance of placing phosphorous compounds in the public water supply - the other alternative which was considered.

**Hoard Street Area Replacements**Project No. **11** Fund No.

GO \$ 0  
 Other 325,000  
\$ 325,000

In 1993 and again in 1996, residents in this area (several blocks centering around Hoard at Kedzie) suffered sanitary sewerage flooding into their basements. Subsequently, the City performed a detailed study to seek solutions to lessen the chance of future flooding. Implementation for this area began with the replacement of the sewer interceptor on Johnson Street in 1997. This is Phase 3. Included streets are Kedzie from East Johnson to East Washington, East Lawn from North to Kedzie, and East Dayton from North to Kedzie. Phase 4 in 2006 will include East Johnson from North Lawn to East Washington, East Washington from East Johnson to Oak, Oak from East Washington to Hoard, and Hoard from Oak to Street End. The budget requests under this item are only for sanitary sewer related costs. Street and Storm Sewer costs are budgeted separately.

**E Washington Ave Replacements**Project No. **12** Fund No.

GO \$ 0  
 Other 1,089,500  
\$ 1,089,500

This project is the replacement of existing, aged sanitary sewer facilities in the East Washington Avenue street right-of-way and some adjoining side streets, in conjunction with a proposed major street reconstruction project, over several years. It is anticipated that the project shall consist of a few sewer main abandonments and many main replacements. Design work was completed in 2004 with Phase 2 (Segment 5) construction to start in 2005. Subsequent phases are preliminarily identified in future years. Cost estimates shall be refined in future budgets as engineering work progresses.

Note: Unless otherwise specified, other funding is to be derived from Sewer Utility revenue bonds.

**2005  
Capital Budget  
Summary**

**Agency Name: Sewer Utility**

**Agency Number: 54**

Project Name	Agency Request	CIRC	Executive	Executive		
				G.O. Debt	Other Funding	Total
1 Field Operations Veh. & Equip.	\$ 512,600	\$ 513,000	\$ 512,600	\$ 0	\$ 512,600	\$ 512,600
2 GIS Migration	10,000	0	0	0	0	0
3 State Street Replacements	110,000	110,000	110,000	0	110,000	110,000
4 In-Place Sewer Rehabilitations	400,000	400,000	400,000	0	400,000	400,000
5 Hudson Park/Lake Monona	285,000	285,000	285,000	0	285,000	285,000
6 Additions to Collection System	1,520,000	1,520,000	1,520,000	0	1,520,000	1,520,000
7 Lift Station Rehabilitations	75,000	75,000	75,000	0	75,000	75,000
8 Improvements to Sewer Study Areas	750,000	750,000	750,000	0	750,000	750,000
9 Sewer with Reconstructed Streets	4,250,000	3,863,450	3,863,450	0	3,863,450	3,863,450
10 Lead Sewer Replacements	240,000	490,000	240,000	0	240,000	240,000
11 Hoard Street Area Replacements	325,000	325,000	325,000	0	325,000	325,000
12 E Washington Ave Replacements	1,089,500	1,089,000	1,089,500	0	1,089,500	1,089,500
<b>Total</b>	<b>\$ 9,567,100</b>	<b>\$ 9,420,450</b>	<b>\$ 9,170,550</b>	<b>\$ 0</b>	<b>\$ 9,170,550</b>	<b>\$ 9,170,550</b>