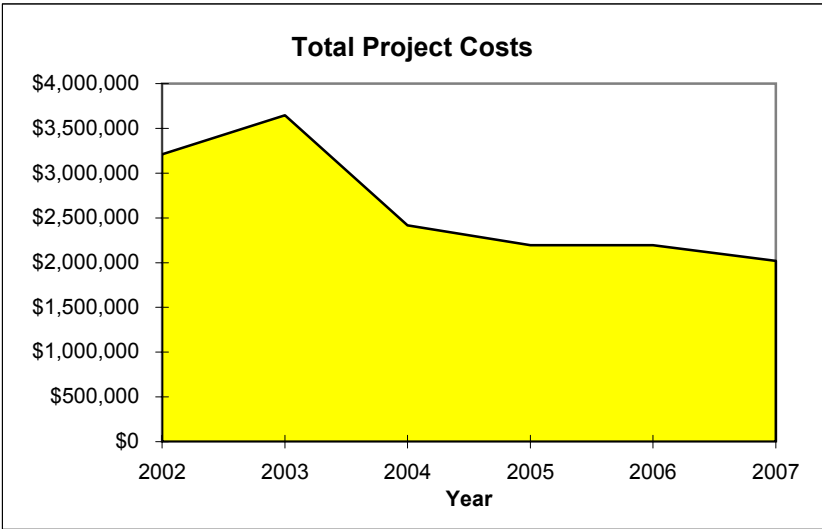


**2002
Capital Budget
Capital Improvement Program**

Agency Name: **Stormwater Utility**

Agency Number: **53S**

Project Name	Capital Budget		Future Year Estimates			
	<u>2002</u>	<u>2003</u>	<u>2004</u>	<u>2005</u>	<u>2006</u>	<u>2007</u>
1 Accompanying Storm Sewer	\$ 450,000	\$ 450,000	\$ 450,000	\$ 450,000	\$ 450,000	\$ 450,000
2 Greenway Improvements	150,000	150,000	150,000	150,000	150,000	150,000
3 EPA / NPDES Permit	180,000	180,000	42,000	120,000	120,000	120,000
4 Stormwater Basins	350,000	250,000	250,000	250,000	250,000	250,000
5 Odana Pond Dredging	58,500	340,000	250,000	250,000	250,000	250,000
6 Inter-Municipal Storm Sewers	50,000	50,000	50,000	50,000	50,000	50,000
7 Tiedemann Pond Pump Station	25,000	25,000	25,000	25,000	25,000	25,000
8 Storm Box Replacement / Cleaning	100,000	100,000	100,000	100,000	100,000	100,000
9 Major Roadway Culvert Crossings	100,000	100,000	100,000	100,000	100,000	100,000
10 Assessable Drainage Improvements	175,000	175,000	175,000	175,000	175,000	175,000
11 Shorelines	365,000	400,000	400,000	250,000	250,000	250,000
12 Local Drainage Problems	100,000	100,000	100,000	100,000	100,000	100,000
13 Madison-Sun Prairie Detention Pond	0	0	150,000	0	0	0
14 Hoard Street Sewer Replacements	325,000	0	0	0	0	0
15 Vactor w/Chassis	275,000	0	0	0	0	0
16 CCTV Inspection Transporter	45,000	0	0	0	0	0
17 Utility Locating & Marking Vehicle	5,000	0	0	0	0	0
18 Access Structure Inspection Camera	4,125	0	0	0	0	0
19 Time Tracking Hardware & Software	10,000	0	0	0	0	0
20 One Call Hardware & Software	8,250	0	0	0	0	0
21 SE Industrial Park Storm Water	135,000	575,000	0	0	0	0
22 Far West Storm Water Mgmt.	200,000	575,000	0	0	0	0
23 Wingra Creek Corridor	35,000	175,000	175,000	175,000	175,000	0
24 Clam Bucket Attach. for Backhoe	10,000	0	0	0	0	0
25 Design-Survey HW/SW	15,000	0	0	0	0	0
26 Emil St. Remodeling - HVAC Upgrade	30,000	0	0	0	0	0
27 Global Positioning System	10,000	0	0	0	0	0
Total	<u>\$ 3,210,875</u>	<u>\$ 3,645,000</u>	<u>\$ 2,417,000</u>	<u>\$ 2,195,000</u>	<u>\$ 2,195,000</u>	<u>\$ 2,020,000</u>

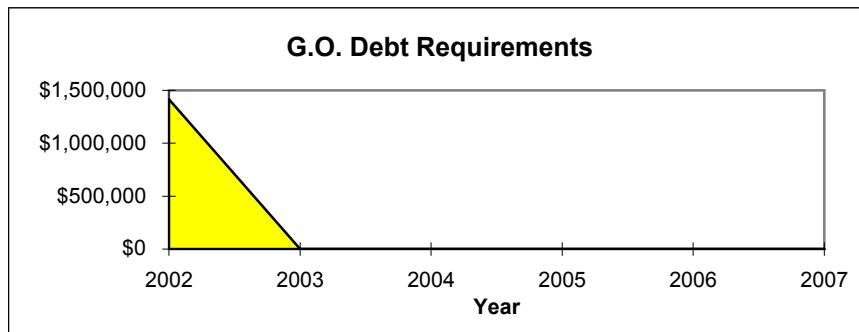


**2002
Capital Budget
Expenditure Categories and Funding Sources**

Agency Name: **Stormwater Utility**

Agency No.: 53S

All Projects	Capital Budget	Future Year Estimates				
	<u>2002</u>	<u>2003</u>	<u>2004</u>	<u>2005</u>	<u>2006</u>	<u>2007</u>
Expenditures:						
Planning Studies	\$ 228,500	\$ 205,000	\$ 67,000	\$ 145,000	\$ 145,000	\$ 120,000
Eng / Design	325,227	309,545	154,545	144,545	144,545	144,545
Land Acquisition	490,000	715,000	215,000	215,000	215,000	215,000
Land Development	0	0	0	0	0	0
Construction	1,759,773	2,390,455	1,955,455	1,665,455	1,665,455	1,515,455
Remodelling	0	0	0	0	0	0
Equipment/Furnish	382,375	0	0	0	0	0
Cost Applied	25,000	25,000	25,000	25,000	25,000	25,000
Other	0	0	0	0	0	0
Total Costs	<u>\$ 3,210,875</u>	<u>\$ 3,645,000</u>	<u>\$ 2,417,000</u>	<u>\$ 2,195,000</u>	<u>\$ 2,195,000</u>	<u>\$ 2,020,000</u>
Funding Sources:						
Available Funds	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0
Federal Sources	35,000	35,000	21,000	40,000	40,000	40,000
State Sources	20,000	20,000	0	0	0	0
County Contrib	0	0	0	0	0	0
Private Contrib	0	0	0	0	0	0
TIF	375,000	575,000	0	0	0	0
Revenue Bonds	810,875	1,965,000	1,921,000	1,680,000	1,680,000	1,505,000
Utility Reserves	10,000	0	0	0	0	0
Special Assessments	425,000	800,000	225,000	225,000	225,000	225,000
Other	120,000	250,000	250,000	250,000	250,000	250,000
Total "Other"	<u>\$ 1,795,875</u>	<u>\$ 3,645,000</u>	<u>\$ 2,417,000</u>	<u>\$ 2,195,000</u>	<u>\$ 2,195,000</u>	<u>\$ 2,020,000</u>
G.O. Debt	<u>\$ 1,415,000</u>	<u>\$ 0</u>	<u>\$ 0</u>	<u>\$ 0</u>	<u>\$ 0</u>	<u>\$ 0</u>



Capital Budget

Stormwater Utility

Accompanying Storm Sewer

Project No. 1 Fund No.

GO	\$	400,000	This project is for the design and installation of storm sewer systems that 'accompany' street projects. This is a continuing program to provide mainline storm sewer improvements, replacements, and rehabilitation in conjunction with City streets being reconstructed and resurfaced. Additionally, this project consists of installing various conduits to serve streets being improved with curb and gutter and bituminous pavement, as directed by the Common Council. Other funding is from special assessments. This item also includes the annual 'Waterway Repairs' Contract that makes several smaller drainage related repairs on City streets throughout the City.
Other		<u>50,000</u>	
	\$	<u>450,000</u>	

Greenway Improvements

Project No. 2 Fund No.

GO	\$	150,000	This is an annual drainage improvement program. Open channels (greenways) are used to transport stormwater runoff. This program includes acquisition, if necessary, and construction of new greenways and various types of channel improvements to existing greenways. Known areas in need of repair projects include greenways in Owen Park, Jetty Drive, Old Sauk Trails, Westmoreland Park, and Sauk Creek. This item also includes the annual Restoration / Landscaping Contract that makes miscellaneous, minor greenway-related repairs throughout the City as the need arises.
Other		<u>0</u>	
	\$	<u>150,000</u>	

EPA / NPDES Permit

Project No. 3 Fund No.

GO	\$	125,000	This is a continuing program and permit process to comply with the U. S. Environmental Protection Agency and NPDES regulations promulgated on November 16, 1990. It is anticipated that this funding will be needed to continue the monitoring requirements of the permit. Additionally, the Wisconsin Department of Natural Resources assesses an annual permit fee of \$10,000, which is paid through the Operating Budget. Other funding is an USGS Grant. The specific monitoring project chosen for the next three years is determining the pollutant removal efficiency for a high efficiency Street Sweeper (Envirowhirl). Past levels of funding for this item have generally been in the range that has been budgeted. Other funding is from Federal (\$35,000) and State (\$20,000) sources.
Other		<u>55,000</u>	
	\$	<u>180,000</u>	

Stormwater Basins

Project No. 4 Fund No.

GO	\$	0	This program provides stormwater detention / retention and stormwater quality improvements to regional basins at various locations throughout the City. Potential projects include construction of a wet pond regional retention facility at Nelson Road near the landfill. Other funding of \$110,000 is from the Detention Trust Fund (Fund #SO76). This item would also include any major repair work or expansion within existing basins. Another potential project would be the acquisition of detention lands to allow proper drainage of the proposed improvement of Femrite Drive in 2002. Other funding also includes TIF funding of \$240,000.
Other		<u>350,000</u>	
	\$	<u>350,000</u>	

Odana Pond DredgingProject No. **5** Fund No.

GO \$ 0
 Other 58,500
\$ 58,500

Preliminary and final design, including permitting and disposal requirements associated with the proposed dredging of the Retention Pond at Odana Hills Golf Course. This dredging request is the highest priority dredging project among several City sites that are presently in need of dredging. It is anticipated that this will be a continuing project for the other sites, annually, on a prioritized basis. Other sites known to be in need of dredging include Strickers Pond Forebay, Morningside Retention Basin, and Warner Park Lagoon outlet channel. All other City ponds are being monitored for siltation and shall be incorporated into the schedule accordingly. Other funding for 2002 is from an anticipated Lake Management Planning Grant for the feasibility analysis for a dredge project at Odana. Future years funding beyond that needed for Odana, shall be for dredge projects other than Odana.

Inter-Municipal Storm SewersProject No. **6** Fund No.

GO \$ 50,000
 Other 0
\$ 50,000

This item is for resolving drainage problems within neighboring municipalities. Typically these problems are on the fringes of new City development and are at least partially attributable to City stormwater increases. The City Engineer attempts to resolve these problems by participating in the funding, on a 50/50 basis or prorated based on drainage area, previous agreement, or other reasonable method of split. Potential projects could include: Rambling Acres Pipe / Greenway (Town of Blooming Grove) - \$50,000 and Lake Forest Detention Basin (Town of Madison) - \$35,000.

Tiedemann Pond Pump StationProject No. **7** Fund No.

GO \$ 25,000
 Other 0
\$ 25,000

Stricker and Tiedemann Ponds receive runoff from the City of Madison (60%) and the City of Middleton (40%). The ponds have operated for years as 'infiltration' ponds, but are no longer infiltrating in adequate capacity to prevent water levels from rising, to the point of flooding trees, parklands, and threatening some private residences in Middleton. The City of Middleton proposes installing a pump station / force main solution, with cost participation on a 60 / 40 basis. Madison's share is estimated to be \$250,000, paid over 10 years. Year 1 was 1999, Year 10 shall be 2008.

Storm Box Replacement / CleaningProject No. **8** Fund No.

GO \$ 100,000
 Other 0
\$ 100,000

This is a continuing program to systematically replace aged and failing storm sewer box culverts. Many areas have been identified from emergency repairs and previous problems. These include: East Washington Avenue, East Dayton Street, Bassett Street, Speedway Road, Miller Avenue, and Railroad Street. Additionally, many storm boxes that are structurally sound are in need of maintenance in the form of cleaning. Sediment has accumulated in the storm sewers, cutting conveyance efficiencies by up to 50% or more. Many segments of storm sewer have been identified as needing this cleaning and maintenance. This item shall fund either a cleaning project or a replacement project, or a combination of both, depending on priorities and available funding.

Major Roadway Culvert Crossings Project No. **9** Fund No.

GO \$ 100,000
Other 0
\$ 100,000

This project is for major (large size) stormwater culvert crossings under roadways in areas of new development or in areas impacted by new development. When the crossing is entirely within a newly platted street, it is proposed that the City pay only for the proportion of the total project cost that can be attributed to a culvert end area in excess of 64 square feet. The flooding event of 2000 has shown that a high priority should be given to the replacement of the culvert crossing at Hayes Road and Portage Road.

Assessable Drainage Improvements Project No. **10** Fund No.

GO \$ 0
Other 175,000
\$ 175,000

This item anticipates the need for major improvements to the stormwater management system in outlying, newly developing areas where the upstream lands are not fully developed and can justifiably be charged for these improvements as they develop. Additionally, these projects could include planning, particularly when wetlands and floodplains are involved. Other funding is from special assessments.

Shorelines Project No. **11** Fund No.

GO \$ 365,000
Other 0
\$ 365,000

The shoreline Improvement Program is for large-scale improvements to the shoreline of lakes, creeks, and rivers. Requested projects are numerous and include most shoreline areas. Funding will first go to complete any unfunded portions of the repairs at Brittingham, Olbrich, and Warner, followed by improvements on a prioritized basis as to be determined upon the recommendation of the Parks Division and City Engineer, with approval of the Common Council. Funding under this item was increased in 2001 to allow for additional major repair work as a result of the Flood of 2000 and the effects of deferred maintenance. Other work under this item may include underwater video inspections and surveys of the shoreline of the Monona Terrace Convention Center structure, or similar projects.

Local Drainage Problems Project No. **12** Fund No.

GO \$ 100,000
Other 0
\$ 100,000

In 1993, the City experienced a rainfall event that had a probability of occurring about once every 10 years. In 1996, the City experienced an even heavier flooding event on the magnitude of a 25 to 100 year recurrence interval. Both storm events revealed many local drainage problems (flooding) that both caused property damage and presented a significant safety concern. City Engineering maintains a database of the identified drainage problems and plans for solutions as time and money allows. The flood of 2000 added significantly to that database (over 200 now). This budget item would continue to implement solutions to the drainage problems on a prioritized basis, as determined by the City Engineer and the Common Council.

Madison-Sun Prairie Detention Pond Project No. **13** Fund No.

GO \$ 0 In 1996, the Cities of Madison and Sun Prairie entered into an agreement to purchase open space land separating the two municipalities in the vicinity of Hoepker Road and USH 151. Other 0 As part of the agreement, the City is obliged to construct an 20 acre (approx) retention pond for stormwater management for both municipalities. The 2000 Budget funded the initial construction of the pond system. The City completed a substantial portion of the construction in 2000 - 2001 and anticipates final construction when needed to accommodate development, but not prior to a highway ramp installation by WDOT adjacent to this pond. \$ 0

Hoard Street Sewer Replacements Project No. **14** Fund No.

GO \$ 0 This project shall replace all sanitary and storm sewers on Hoard Street from Kedzie to Starkweather Creek. In 1993 and again in 1996, residents in this area (several blocks centering around Hoard at Kedzie) suffered sanitary sewerage flooding into their basements. Other 325,000 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 (1997). Further recommendations (prioritized) include replacement of both the storm and sanitary sewers identified with this project, as the poor condition of both facilities allows the storm sewer to 'leak' into the sanitary during rainfall events. Replacement of both facilities will necessitate replacement of the street in its entirety. Future phases shall replace similar problem lines on the following: Kedzie from Hoard to Fairfield; Fairfield from Kedzie to Maywood; Dayton from North to Kedzie; and Kedzie from East Lawn Court to East Washington. Total cost is split equally between storm and sanitary budgets. \$ 325,000

Vector w/Chassis Project No. **15** Fund No.

GO \$ 0 Purchase of an additional vector with chassis. This equipment will be used to clean storm sewer catchbasins and inlets. Other 275,000 \$ 275,000

CCTV Inspection Transporter Project No. **16** Fund No.

GO \$ 0 Purchase of a transporter to be used with existing CCTV Inspection System to inspect large diameter storm pipes. Other 45,000 \$ 45,000

Utility Locating & Marking Vehicle Project No. **17** Fund No.

GO \$ 0 Small station wagon for utility locating and marking (67% Sanitary Sewer Utility; 33% Storm Sewer Utility - cost represents Storm portion only). Other 5,000 \$ 5,000

Access Structure Inspection Camera Project No. **18** Fund No.

GO \$ 0 Storm and Sanitary Access Structure camera and video recorder (67% Sanitary Sewer Utility;
Other 4,125 33% Storm Sewer Utility - cost represents Storm portion only).
\$ 4,125

Time Tracking Hardware & Software Project No. **19** Fund No.

GO \$ 0 Hardware and software to collect employee time and attendance data (67% Sanitary Sewer
Other 10,000 Utility; 33% Storm Sewer Utility - cost represents Storm portion only).
\$ 10,000

One Call Hardware & Software Project No. **20** Fund No.

GO \$ 0 One-call utility locating and marking hardware and software (67% Sanitary Sewer Utility; 33%
Other 8,250 Storm Sewer Utility - cost represents Storm portion only).
\$ 8,250

SE Industrial Park Storm Water Project No. **21** Fund No.

GO \$ 0 This project is the survey, design, permitting, acquisition of lands, and construction of a
Other 135,000 regional storm water management system consisting of greenways, retention ponds,
\$ 135,000 wetlands, and environmental corridor buffer lands. Surveying has been completed in 2001.
Some of the necessary lands shall be dedicated in 2001 with development. Many
components of this system may be eligible for funding from TID #24. Land Acquisition and
permitting will continue in 2002 with construction in 2003.

Far West Storm Water Mgmt. Project No. **22** Fund No.

GO \$ 0 This project is the survey, design, permitting, acquisition of lands, and construction of a
Other 200,000 regional storm water management system consisting of greenways, retention ponds,
\$ 200,000 wetlands, and environmental corridor buffer lands. Surveying has been completed in 2001.
Some of the necessary lands may be dedicated or purchased in 2001. Costs incurred may
be recouped from drainage connection fees levied against future developing properties.
Land Acquisition and permitting will continue in 2002 with construction in 2003.

Wingra Creek Corridor Project No. **23** Fund No.

GO \$ 0 The Wingra Creek Corridor is in need of shoreline and embankment work to enhance
Other 35,000 stormwater conveyance and water quality as well as provide a more enhanced corridor for
\$ 35,000 pedestrian usage.

Clam Bucket Attach. for Backhoe Project No. **24** Fund No.

GO	\$	0	Clam bucket attachment for use with existing backhoes (67% Sanitary Sewer Utility; 33% Storm Sewer Utility - cost represents Sanitary portion only).
Other		<u>10,000</u>	
		<u>\$ 10,000</u>	

Design-Survey HW/SW Project No. **25** Fund No.

GO	\$	0	A continuing project to purchase and upgrade the Engineering's high-end PC workstations and software used for engineering design. This project will involve purchase of software to be used for downloading the City's Total Station electronic data to the Engineering Design Software. The project also includes a change in design software in order to stay compatible with the CADD software that is being used throughout the City. Cost are shared between the Storm Sewer Utility, Sanitary Sewer Utility and General Obligation Debt. Only Storm Utility costs are shown.
Other		<u>15,000</u>	
		<u>\$ 15,000</u>	

Emil St. Remodeling - HVAC Upgrade Project No. **26** Fund No.

GO	\$	0	The Engineering Division is looking to improve the working area of the Construction Inspectors and help in the area of working with the public and contractors that visit the Engineering Division Service Building. Costs include the removal of walls and the purchasing of workstations and partitions to give each of the inspectors a work area to keep records and perform their daily work activities while in the office. The HVAC upgrade is to improve the air quality in the Engineering Service Building by monitoring and removing the emissions produced in the garage area of the building. Cost are shared between the Storm Sewer Utility and Sanitary Sewer Utility. Only Storm Utility costs are shown.
Other		<u>30,000</u>	
		<u>\$ 30,000</u>	

Global Positioning System Project No. **27** Fund No.

GO	\$	0	This year's project will be the acquisition of a Global Positioning System (GPS) base station and receiver to be used by the Surveyors and Technicians in the Division. GPS is a series of satellites which orbit the earth. These 27 satellites are in known locations controlled from a central control and three other tracking stations around the world. These satellites have the ability to transmit radio signals to GPS receivers on the ground to determine the horizontal and vertical location of a point. The base station will be available to not just the public sector but also the private sector which will allow them to purchase their own equipment and use the signal from the City's base station to obtain more accurate data and share that data with the City for various projects. Cost are shared between the Sanitary Sewer Utility and General Obligation Debt. Only the Storm Utility portion is shown.
Other		<u>10,000</u>	
		<u>\$ 10,000</u>	

Note: Unless otherwise specified, "other funding" within the Stormwater Utility is to be derived from utility reserves.

**2002
Capital Budget
Summary**

Agency Name: Stormwater Utility

Agency Number: 53S

Project Name	Agency Request	CIRC	Executive	Executive		
				G.O. Debt	Other Funding	Total
1 Accompanying Storm Sewer	\$ 450,000	\$ 450,000	\$ 450,000	\$ 400,000	\$ 50,000	\$ 450,000
2 Greenway Improvements	150,000	150,000	150,000	150,000	0	150,000
3 EPA / NPDES Permit	180,000	180,000	180,000	125,000	55,000	180,000
4 Stormwater Basins	350,000	350,000	350,000	0	350,000	350,000
5 Odana Pond Dredging	58,500	58,500	58,500	0	58,500	58,500
6 Inter-Municipal Storm Sewers	50,000	50,000	50,000	50,000	0	50,000
7 Tiedemann Pond Pump Station	25,000	25,000	25,000	25,000	0	25,000
8 Storm Box Replacement / Cleaning	100,000	100,000	100,000	100,000	0	100,000
9 Major Roadway Culvert Crossings	100,000	100,000	100,000	100,000	0	100,000
10 Assessable Drainage Improvements	175,000	175,000	175,000	0	175,000	175,000
11 Shorelines	365,000	365,000	365,000	365,000	0	365,000
12 Local Drainage Problems	100,000	100,000	100,000	100,000	0	100,000
13 Madison-Sun Prairie Detention Pond	0	0	0	0	0	0
14 Hoard Street Sewer Replacements	325,000	325,000	325,000	0	325,000	325,000
15 Vactor w/Chassis	275,000	275,000	275,000	0	275,000	275,000
16 CCTV Inspection Transporter	45,000	45,000	45,000	0	45,000	45,000
17 Utility Locating & Marking Vehicle	5,000	5,000	5,000	0	5,000	5,000
18 Access Structure Inspection Camera	4,125	4,125	4,125	0	4,125	4,125
19 Time Tracking Hardware & Software	10,000	10,000	10,000	0	10,000	10,000
20 One Call Hardware & Software	8,250	8,250	8,250	0	8,250	8,250
21 SE Industrial Park Storm Water	135,000	135,000	135,000	0	135,000	135,000
22 Far West Storm Water Mgmt.	200,000	200,000	200,000	0	200,000	200,000
23 Wingra Creek Corridor	35,000	35,000	35,000	0	35,000	35,000
24 Clam Bucket Attach. for Backhoe	10,000	10,000	10,000	0	10,000	10,000
25 Design-Survey HW/SW	15,000	15,000	15,000	0	15,000	15,000
26 Emil St. Remodeling - HVAC Upgrade	20,000	30,000	30,000	0	30,000	30,000
27 Global Positioning System	10,000	10,000	10,000	0	10,000	10,000
Total	\$ 3,200,875	\$ 3,210,875	\$ 3,210,875	\$ 1,415,000	\$ 1,795,875	\$ 3,210,875