

**City of Madison 2018 Capital Improvement Plan**  
*Agency Request Summary*

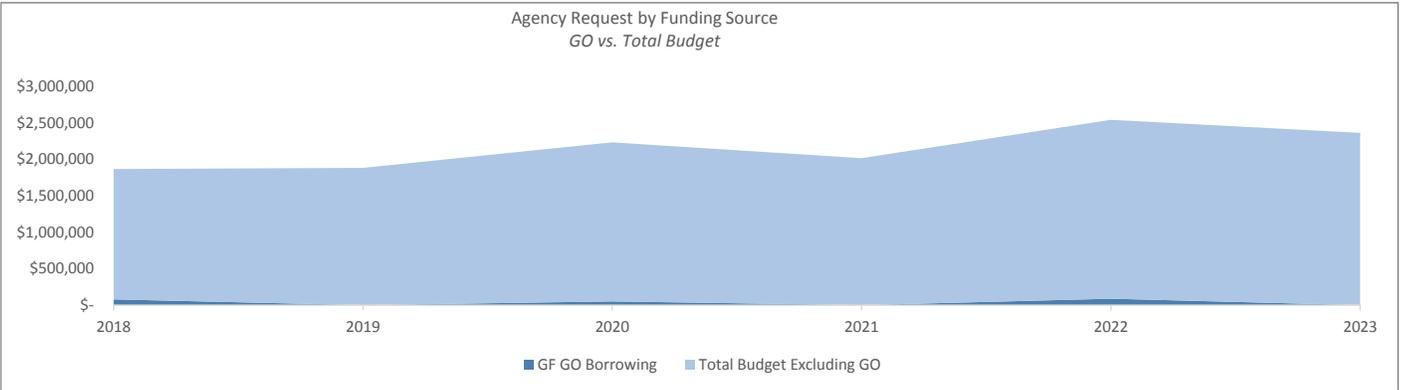
Agency : Engineering - Other Projects

Agency Request by Project (All Funds)

Project	2018	2019	2020	2021	2022	2023
Aerial Photo / Orthophotos	50,000	-	50,000	-	70,000	-
Equipment and Vehicle Replacement	1,478,400	1,566,400	1,700,985	1,700,985	1,930,500	2,025,000
Right of Way Landscaping & Trees	150,000	155,000	160,000	172,240	175,000	175,000
Service Building Improvements	127,300	134,100	140,420	140,420	154,813	162,500
Warning Sirens	60,000	-	30,000	-	60,000	-
Waste Oil Collection Sites	-	25,000	150,000	-	150,000	-
<b>Total</b>	<b>\$ 1,865,700</b>	<b>\$ 1,880,500</b>	<b>\$ 2,231,405</b>	<b>\$ 2,013,645</b>	<b>\$ 2,540,313</b>	<b>\$ 2,362,500</b>

Agency Request by Funding Source

Project	2018	2019	2020	2021	2022	2023
GF GO Borrowing	80,000	-	50,000	-	88,000	-
Transfer In From General Fund	150,000	155,000	160,000	172,240	175,000	175,000
Reserves Applied - Water	10,000	-	10,000	-	14,000	-
Reserves Applied	62,000	75,700	79,000	79,000	90,435	97,250
Reserves Applied - Sewer	931,000	992,400	1,175,770	1,015,770	1,312,073	1,191,000
Reserves Applied - Stormwater	498,300	515,000	602,000	592,000	685,305	683,750
Sale Property/Capital Asset	134,400	142,400	154,635	154,635	175,500	215,500
<b>Total</b>	<b>\$ 1,865,700</b>	<b>\$ 1,880,500</b>	<b>\$ 2,231,405</b>	<b>\$ 2,013,645</b>	<b>\$ 2,540,313</b>	<b>\$ 2,362,500</b>





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Steven B. Danner-Rivers

**Date: May 10, 2017**

**To: David Schmiedicke, Finance Director**

**From: Robert Phillips, P.E., City Engineer**

**Re: 2018 Capital Budget Proposal  
Engineering - Other Projects**

**Introduction**

The Engineering - Other Budget funds projects that don't fit within the Engineering Divisions five major budgets, Facilities Management, Major Streets, Bicycle / Pedestrian, Storm Sewer and Sanitary Sewer Budgets

The "Engineering – Other Projects" budget proposes changes to the capital budget including removing "Underground Storage Tanks", transferring "Public Drinking Fountains" to Parks Department for inclusion in their capital budget, and updating "Waste Oil Collection Sites" financial requests to complete work as planned.

"Engineering – Other Projects" has prioritized for 2018 "Warning Sirens" and maintaining "Equipment and Vehicle Replacement" and funding "Waste Oil Collection Sites". The waste oil collection sites funding has been revised to reflect past bids and make an effort to complete the renovation of the four (4) City sites by 2021. The lowest priority for this budget proposal is "Right of Way Landscaping & Trees" however it is a very popular program that contributes to the quality of life in the City.

**Prioritized List**

1. Warning Sirens
2. Equipment and Vehicle Replacement
3. Waste Oil Collection Sites
4. Service Building Improvements
5. Aerial Photo/Orthophotos
6. Right of Way Landscaping & Trees

**Discussion of Criteria**

City Engineering prioritized the "Engineering – Other Projects" budget by maintaining the City's level of services provided to users, safety and environmentally sensitive projects. The City's warning siren system is needed to provide for developing areas. The equipment and vehicle replacement program provides a key component for operations of the City's sanitary sewer, storm sewer and landfill infrastructure. Without the current level of funding, vehicle maintenance costs would rise due to an aging fleet. The City's waste oil collection sites are environmentally sensitive and in need of renovation. This program would improve spill prevention and environmental impacts with a plan to complete upgrades of all City sites by 2021.

## Capital Budget Proposals

### Section 1: Identifying Information

#### Agency

Engineering - Other Projects

#### Proposal Name

Aerial Photo / Orthophotos

#### Munis #

11086

#### Proposal Description

This program provides updates to the City's GIS base mapping of the aerial photography for the existing City lands as well as adjacent areas into which the City may expand. The goal of this program is to provide data and imagery from these mapping efforts to support efficiency in the City's operations and planning efforts. Data from the program is utilized by City Utilities, Planning, and Public Safety agencies.

#### Proposal Type

Program

### Section 2: Budget Information

#### Budget by Year

Funding Source	2018	2019	2020	2021	2022	2023
GF GO Borrowing	20,000		20,000		28,000	
Reserves Applied - Stormwater	10,000		10,000		14,000	
Reserves Applied - Sewer	10,000		10,000		14,000	
Reserves Applied - Water	10,000		10,000		14,000	
<b>Total</b>	<b>\$50,000</b>	<b>\$0</b>	<b>\$50,000</b>	<b>\$0</b>	<b>\$70,000</b>	<b>\$0</b>

Insert Funding Source

Expense Category	2018	2019	2020	2021	2022	2023
Other	50,000		50,000		70,000	
<b>Total</b>	<b>\$50,000</b>	<b>\$0</b>	<b>\$50,000</b>	<b>\$0</b>	<b>\$70,000</b>	<b>\$0</b>

Insert Expense Category

### Section 3: Proposal

#### Minor Projects

List the minor projects, estimated amounts and locations currently planned for 2017

Minor Project Name	Estimated Cost	Minor Project Location

Insert Minor Project

#### Service Level

What are the end products (asset or infrastructure type) provided by this program?

End Product	Product Unit	# of Units Provided
Other	N/A	

Insert End Product

On average, what is the standard useful life for assets maintained by this program?

Approximately 2 years for the Aerial Photos and approx 10 years for the orthophotos (contours)

Is the City currently on track for meeting this standard?

Yes  No

#### Program Goals

What is the program's desired outcome for the customer?

Ability for City Utilities (Water, Sewer, Stormwater) and other City Agencies (Planning, Fire, etc) to use the data for numerous parts of their daily tasks. The Development Community now also is able to access the data.

How is the outcome currently being measured?

There is no good way to measure.

#### Operating Costs

What are the ongoing operating costs associated with proposed projects within the program?

Any operating costs are absorbed by the Engineering Mapping Section, who maintains this data along with their other regular duties.

#### Matching Funds

Have matching funds been secured for any projects within the program?

Yes  No

Re-Edit

## Capital Budget Proposals

### Section 1: Identifying Information

#### Agency

Engineering - Other Projects

#### Proposal Name

Equipment and Vehicle Replacement

#### Munis #

10576

#### Proposal Description

This program purchases both new and replacement vehicles and equipment utilized by the Landfill, Sewer, and Stormwater Utilities. The goal of this program is to sufficiently provide the necessary transportation and equipment resources for the services provided by these agencies.

#### Proposal Type

Program

### Section 2: Budget Information

#### Budget by Year

<i>Funding Source</i>	<i>2018</i>	<i>2019</i>	<i>2020</i>	<i>2021</i>	<i>2022</i>	<i>2023</i>
Reserves Applied	49,000	62,000	65,000	65,000	75,000	81,000
Reserves Applied - Sewer	845,000	887,000	931,350	931,350	1,055,000	1,093,500
Reserves Applied - Stormwater	450,000	475,000	550,000	550,000	625,000	635,000
Sale Property/Capital Asset	134,400	142,400	154,635	154,635	175,500	215,500
<b>Total</b>	<b>\$1,478,400</b>	<b>\$1,566,400</b>	<b>\$1,700,985</b>	<b>\$1,700,985</b>	<b>\$1,930,500</b>	<b>\$2,025,000</b>
<input type="checkbox"/> Insert Funding Source						
<i>Expense Category</i>	<i>2018</i>	<i>2019</i>	<i>2020</i>	<i>2021</i>	<i>2022</i>	<i>2023</i>
Machinery and Equipment	1,478,400	1,566,400	1,700,985	1,700,985	1,930,500	2,025,000
<b>Total</b>	<b>\$1,478,400</b>	<b>\$1,566,400</b>	<b>\$1,700,985</b>	<b>\$1,700,985</b>	<b>\$1,930,500</b>	<b>\$2,025,000</b>
<input type="checkbox"/> Insert Expense Category						

### Section 3: Proposal

#### Minor Projects

List the minor projects, estimated amounts and locations currently planned for 2017

<i>Minor Project Name</i>	<i>Estimated Cost</i>	<i>Minor Project Location</i>

Insert Minor Project

#### Service Level

What are the end products (asset or infrastructure type) provided by this program?

<i>End Product</i>	<i>Product Unit</i>	<i># of Units Provided</i>
Machinery and Equipment	Pieces of Machines/Equipment	8

Insert End Product

On average, what is the standard useful life for assets maintained by this program?

Average useful life ranges from 5 to 20 years depending on type of vehicle/equipment and intended use.

Is the City currently on track for meeting this standard?

Yes  No

#### Program Goals

What is the program's desired outcome for the customer?

- Convey wastewater to the Nine Springs Wastewater Treatment Plant with minimum inflow, infiltration and exfiltration.
- Prevent public health hazards.
- Reduce inconvenience and damage by responsibly handling service interruptions.
- Eliminate claims and legal fees related to backup by providing immediate, concerned and efficient service to all emergency calls.
- Protect municipal investment by increasing the useful life and capacities of the system and parts.
- Use operating funds efficiently.
- Perform all activities safely and avoid injury.

How is the outcome currently being measured?

- Number of sanitary sewer back ups
- TSS reduction
- Number of methane migrations outside landfill limits

**Operating Costs**

What are the ongoing operating costs associated with proposed projects within the program?

\$90,000 annual costs in fuel, maintenance and repairs

**Matching Funds**

Have matching funds been secured for any projects within the program?

Yes  No

Re-Edit

## Capital Budget Proposals

### Section 1: Identifying Information

#### Agency

Engineering - Other Projects

#### Proposal Name

Right of Way Landscaping & Trees

#### Munis #

11082

#### Proposal Description

This program installs landscaping in boulevards and other areas within existing right of ways across the City. The goal of the program is to minimize storm water runoff and improve general aesthetics.

#### Proposal Type

Program

### Section 2: Budget Information

#### Budget by Year

Funding Source	2018	2019	2020	2021	2022	2023
Transfer In From General Fund	150,000	155,000	160,000	172,240	175,000	175,000
<b>Total</b>	<b>\$150,000</b>	<b>\$155,000</b>	<b>\$160,000</b>	<b>\$172,240</b>	<b>\$175,000</b>	<b>\$175,000</b>

Insert Funding Source

Expense Category	2018	2019	2020	2021	2022	2023
Land Improvements	150,000	155,000	160,000	172,240	175,000	175,000
<b>Total</b>	<b>\$150,000</b>	<b>\$155,000</b>	<b>\$160,000</b>	<b>\$172,240</b>	<b>\$175,000</b>	<b>\$175,000</b>

Insert Expense Category

### Section 3: Proposal

#### Minor Projects

List the minor projects, estimated amounts and locations currently planned for 2017

Minor Project Name	Estimated Cost	Minor Project Location

Insert Minor Project

#### Service Level

What are the end products (asset or infrastructure type) provided by this program?

End Product	Product Unit	# of Units Provided

Insert End Product

On average, what is the standard useful life for assets maintained by this program?

Is the City currently on track for meeting this standard?

Yes  No

#### Program Goals

What is the program's desired outcome for the customer?

The program contributes to the quality of our neighborhoods by providing access to the City's lakes and by adding landscaping to City Streets.

How is the outcome currently being measured?

No ability to measure.

#### Operating Costs

What are the ongoing operating costs associated with proposed projects within the program?

New landscaping does impact operating costs over time with more maintenance required by City Forestry and/or the Parks department.

#### Matching Funds

Have matching funds been secured for any projects within the program?

Yes  No

Re-Edit

## Capital Budget Proposals

### Section 1: Identifying Information

#### Agency

Engineering - Other Projects

#### Proposal Name

Service Building Improvements

#### Munis #

10192

#### Proposal Description

This program is for the replacement of existing mechanical equipment at the Engineering Services Building located at 1600 Emil Street. The goal of the program is to upgrade the aged mechanical equipment to maintain the facility's operational functions. This is a continuing program with itemized improvement projects prioritized annually.

#### Proposal Type

Program

### Section 2: Budget Information

#### Budget by Year

Funding Source	2018	2019	2020	2021	2022	2023
Reserves Applied	13,000	13,700	14,000	14,000	15,435	16,250
Reserves Applied - Sewer	76,000	80,400	84,420	84,420	93,073	97,500
Reserves Applied - Stormwater	38,300	40,000	42,000	42,000	46,305	48,750
<b>Total</b>	<b>\$127,300</b>	<b>\$134,100</b>	<b>\$140,420</b>	<b>\$140,420</b>	<b>\$154,813</b>	<b>\$162,500</b>

Insert Funding Source

Expense Category	2018	2019	2020	2021	2022	2023
Building	127,300	134,100	140,420	140,420	154,813	162,500
<b>Total</b>	<b>\$127,300</b>	<b>\$134,100</b>	<b>\$140,420</b>	<b>\$140,420</b>	<b>\$154,813</b>	<b>\$162,500</b>

Insert Expense Category

### Section 3: Proposal

#### Minor Projects

List the minor projects, estimated amounts and locations currently planned for 2017

Minor Project Name	Estimated Cost	Minor Project Location

Insert Minor Project

#### Service Level

What are the end products (asset or infrastructure type) provided by this program?

End Product	Product Unit	# of Units Provided
Building	Square Feet	66000

Insert End Product

On average, what is the standard useful life for assets maintained by this program?

10 to 50 years

Is the City currently on track for meeting this standard?

Yes  No

#### Program Goals

What is the program's desired outcome for the customer?

Provide a safe, healthy, comfortable work environment that meets building user needs.  
Scheduled replacement and upgrade of building systems and components to maximize useful life of facility and preserve City's investment.  
Reduce reliance on fossil fuels.

How is the outcome currently being measured?

We are working on an asset management plan which will identify and incorporate specific measurable outcomes.

#### Operating Costs

What are the ongoing operating costs associated with proposed projects within the program?

Scheduled replacements and upgrades of existing systems and components is integral to controlling operating and maintenance costs of facilities. Deferring replacement and upgrades leads to increased operating costs (i.e. increased utility costs to run less efficient equipment; increased labor costs to keep outdated systems running, etc.)

#### Matching Funds

Have matching funds been secured for any projects within the program?

Yes  No

Re-Edit

## Capital Budget Proposals

### Section 1: Identifying Information

#### Agency

Engineering - Other Projects

#### Proposal Name

Warning Sirens

#### Munis #

11087

#### Proposal Description

This program funds major upgrades and expansion of the City's emergency warning sirens. The goal of this program is maintain an adequate alert system provided by the network of warning sirens.

#### Proposal Type

Program

### Section 2: Budget Information

#### Budget by Year

Funding Source	2018	2019	2020	2021	2022	2023
GF GO Borrowing	60,000		30,000		60,000	
<b>Total</b>	<b>\$60,000</b>	<b>\$0</b>	<b>\$30,000</b>	<b>\$0</b>	<b>\$60,000</b>	<b>\$0</b>

Insert Funding Source

Expense Category	2018	2019	2020	2021	2022	2023
Other	60,000		30,000		60,000	
<b>Total</b>	<b>\$60,000</b>	<b>\$0</b>	<b>\$30,000</b>	<b>\$0</b>	<b>\$60,000</b>	<b>\$0</b>

Insert Expense Category

### Section 3: Proposal

#### Minor Projects

List the minor projects, estimated amounts and locations currently planned for 2017

Minor Project Name	Estimated Cost	Minor Project Location

Insert Minor Project

#### Service Level

What are the end products (asset or infrastructure type) provided by this program?

End Product	Product Unit	# of Units Provided
Other	N/A	

Insert End Product

On average, what is the standard useful life for assets maintained by this program?

30 years

Is the City currently on track for meeting this standard?

Yes  No

#### Program Goals

What is the program's desired outcome for the customer?

Adequate coverage for City residents to hear the storm warning sirens.

How is the outcome currently being measured?

City of Madison Land Area Served. Percent of City Land Area Served.

#### Operating Costs

What are the ongoing operating costs associated with proposed projects within the program?

Operating costs are electrical service fees and repairs as needed.

#### Matching Funds

Have matching funds been secured for any projects within the program?

Yes  No

Re-Edit

## Capital Budget Proposals

### Section 1: Identifying Information

#### Agency

Engineering - Other Projects

#### Proposal Name

Waste Oil Collection Sites

#### Munis #

11085

#### Proposal Description

This program provides funding for the planned replacement of the City's four waste oil collection sites. The goal of this program is to bring the facilities within compliance of current code guidelines and to better isolate any illicit dumping of PCB contaminated waste oil.

#### Proposal Type

Project

### Section 2: Budget Information

Total Project Budget

#### Budget by Year

Funding Source	2018	2019	2020	2021	2022	2023
Reserves Applied - Sewer <input type="text" value="0"/>	0	25,000	150,000		150,000	0
<b>Total</b>	\$0	\$25,000	\$150,000	\$0	\$150,000	\$0

Insert Funding Source

Expense Category	2018	2019	2020	2021	2022	2023
Other <input type="text" value="0"/>	0	25,000	150,000	0	150,000	0
<b>Total</b>	\$0	\$25,000	\$150,000	\$0	\$150,000	\$0

Insert Expense Category

### Section 3: Proposal

#### Project Status

What is the location of the proposed project?

Any of the 4 waste oil drop off sites. Wheeler & Glenway planning in 2018. Monona planned for 2021.

Is the property currently owned by the City of Madison?

Yes  No

What is the current status of the project?

Design Completion

What is the planned schedule for the project?

2018	2019	2020	2021	2022	2023
Planning <input type="text" value="0"/>	Design Completion <input type="text" value="0"/>	Construction <input type="text" value="0"/>	Planning <input type="text" value="0"/>	Construction <input type="text" value="0"/>	Construction Completion <input type="text" value="0"/>

#### Project Justification

Is the proposed project the replacement of an existing asset or the construction of a new asset?

New Asset  Existing Asset

Is this project called for in an approved master plan?

Yes  No

What is the desired outcome of the proposed project?

Replace all 4 of the City's waste oil collection facilities and bring them up to a current code compliance, along with implementing a split tank collection method to better isolate any illicit dumping of PCB contaminated waste oil

How will this outcome be measured?

Gallons of waste oil collected and City expenditures due to illegal dumping.

#### Operating Costs

Will the proposed project result in operational efficiencies and/or savings? Please Explain.

There are ongoing operating costs that will not change significantly with the planned upgrades.

What's the annual operating costs associated with the project?

Describe, by major, the operating costs associated with the project. Include the number of newly created positions required by the project.

It will vary greatly depending on the price of oil. When oil was greater than \$100 per barrel, the operating costs were actually a net positive. A contract for pick up is currently held.

#### Matching Funds

Have matching funds been secured for the project?

Yes  No

Re-Edit