

## CITY OF OAK CREEK WATER & SEWER UTILITY

### OFFICIAL NOTICE

**PLEASE TAKE NOTICE** that the Water and Sewer Utility Commission will meet virtually on Tuesday, December 8<sup>th</sup>, 2020, at 9:00 am.

#### **Important Notice**

This meeting will be held by video conference. Persons wishing to participate in this public meeting need to register via <http://ocwi.org/register> prior to the start of the meeting.

The webinar will start at 8:50 am so those that registered may log in.

Persons requiring other reasonable accommodations may contact the City at 414-766-7000.

Requests should be made as far in advance as possible.

The purpose of this meeting will be to discuss the topics listed on the attached agenda.

It is possible that members of and possibly a quorum of members of our governmental bodies of the municipality may be in attendance at the above-stated meeting to gather information; no action will be taken by any governmental body at the above-stated meeting other than the governmental body specifically referred to above in this notice.

### **PUBLIC NOTICE**

**Please Note:** Upon reasonable notice, a good faith effort will be made to accommodate the needs of disabled individuals through sign language interpreters or other auxiliary aid at no cost to the individual to participate in public meetings. Due to the difficulty in finding interpreters, requests should be made as far in advance as possible, preferably a minimum of 48 hours. For additional information or to request this service, contact the Oak Creek City Clerk at 414-766-7023 or write to the ADA Coordinator at the Health Department, City Hall, 8040 South 6<sup>th</sup> Street, Oak Creek, Wisconsin, 53154.

**DATED**, at Oak Creek, Wisconsin, this the 3<sup>th</sup> day of December, 2020.

/s/ Michael J. Sullivan  
General Manager

**A G E N D A**  
**WATER AND SEWER UTILITY COMMISSIONERS**  
**CITY OF OAK CREEK**

**TIME**  
9:00 am

**DATE**  
Tuesday  
December 8, 2020

**LOCATION**  
Via Video  
Conference Only

**Important Notice**

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- 1.0 OPENING OF MEETING**
  - 1.1 Roll Call
  - 1.2 Minutes Approval - Regular Meeting 11-10-20
- 2.0 CLOSED SESSION**
  - 2.1 Closed Session in accordance with Section 19.85 (1)(e) and (g) of the Wisconsin State Statutes for the following purpose:
    - 2.1.1 Wholesale Water Contract
  - 2.2 Consider a motion to take action, if required
- 3.0 PROJECT APPROVALS**
  - 3.1 Change Order Number 2 – Jewell Street Sanitary Sewer
  - 3.2 Change Order Number 3 – Jewell Street Sanitary Sewer
  - 3.3 Change Order Number 4 – Jewell Street Sanitary Sewer
  - 3.4 Award Weatherly Drive Water Main Contract
- 4.0 MISCELLANEOUS MATTERS**
  - 4.1 Amendment #3 to the Professional Services Agreement with CH2M Hill Engineers, Inc.
  - 4.2 2021 Chemical Costs
- 5.0 FINANCIAL MATTERS**
  - 5.1 Voucher Approval
  - 5.2 Utility Investments
  - 5.3 2021 Capital Improvement Program
  - 5.4 Project Payment Approval
    - 5.4.1 Jewell Street Lift Station Abandonment, \$188,001.75
- 6.0 ADMINISTRATIVE & OPERATIONS REPORTS**
  - 6.1 Aldermanic Report
  - 6.2 Administrative Report
  - 6.3 Engineering Operations Report
  - 6.4 Distribution Operations Report
  - 6.5 Plant Operations Report
  - 6.6 Manager's Report
- 7.0 ADJOURN**

**MINUTES OF A REGULAR MEETING  
WATER AND SEWER UTILITY COMMISSION  
TUESDAY, NOVEMBER 10, 2020**

ROLL CALL Present at the 9:00 a.m. beginning were: Commissioners Siepert, Gehl, Richards, and Cigale. Members of the Utility staff in attendance were: General Manager Sullivan, Accounting Manager Danner, Utility Engineer Johnston, Distribution Manager Allard, and Plant Manager Robe (all via video conference).

PREVIOUS MINUTES APPROVED Minutes of the last regular meeting, held on October 13, 2020, were approved as recorded with a motion by Commissioner Siepert and seconded by Commissioner Cigale. Roll call vote, all voted aye.

CLOSED SESSION The meeting went into closed session at 9:00 a.m. with a motion by Commissioner Siepert, and a second by Commissioner Cigale, in accordance with Section 19.85 (1)(e) and (g) of the Wisconsin State Statutes for the following purpose:

A. Wholesale Water Contract

Roll call vote, all voted aye.

Commissioner Siepert, with Commissioner Gehl seconding, made the motion to reconvene into open session at 9:08 a.m. Roll call vote, all voted aye.

A. Wholesale Water Contract

- No action was taken on this agenda item.

MISCELLANEOUS MATTERS Commissioner Cigale, with Commissioner Gehl seconding, made the motion to approve the Hold Harmless Agreement with the Oak Creek Franklin School District. Roll call vote, all voted aye.

VOUCHER APPROVAL Vouchers incurred during October, 2020, totaled \$564,054.84. Commissioner Cigale, with Commissioner Gehl seconding, made the motion to approve payment of all invoices. Roll call vote, Commissioners Gehl, Richards, and Cigale voted aye. Commissioner Siepert lost video conference connection.

Commissioner Siepert, with Commissioner Gehl seconding, made the motion to approve the 2020 Operating Budget. Roll call vote, all voted aye.

11/10/2020

ALDERMANIC  
REPORT

Commissioner Gehl updated the Commission and staff on operations occurring in the City during October, 2020.

ENGINEERING  
OPERATIONS  
REPORT

Utility Engineer Johnston reported engineering operations during October, 2020. A copy of the report is on file.

DISTRIBUTION  
OPERATIONS  
REPORT

Distribution Manager Allard reported distribution operations during October, 2020. A copy of the report is on file.

PLANT  
OPERATIONS  
REPORT

Plant Manager Robe reported plant operations during October, 2020. A copy of the report is on file.

MANAGER'S  
REPORT

General Manager Sullivan introduced and welcomed Accounting Manager Derrick Danner to the Utility.

ADJOURN

Commissioner Siefert, with Commissioner Gehl seconding, adjourned the meeting at 9:39 a.m. Roll call vote, all voted aye.

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Dale J. Richards, President

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Fredrick R. Siefert, Secretary

11/10/2020



D.F. Tomasini Contractors, Inc.
N70 W25176 Indian Grass Lane - Sussex, WI 53089
Phone: (262) 820-8300 Fax: (262) 820-8400

CONTRACT CHANGE / MODIFICATION # 2R2

PROJECT NAME: Jewell Street Sanitary Sewer

PROJECT # 17106

PROJECT MANAGER / FOREMAN: Craig Derouin

JOB# 2139

PROJECT ENGINEER OR CUSTOMER: Oak Creek Water and Sewer Utility/Brian Johnston

D.F. Tomasini Contractors is requesting to make the following changes / modifications as stated below for compensation on the project listed above:

Table with 4 columns: QTY., UOM, DESCRIPTION, UNIT PRICE, TOTAL. Lists various labor and equipment items with their respective costs.

REASON FOR CHANGE / MODIFICATION:

Break concrete around existing manhole to remove existing concrete stub. Break concrete below existing stub and existing flow line to establish the correct elevation.

NOTE:

ACCEPTED: The above prices and specification of this change / modification are satisfactory and are hereby accepted. All work, which is the subject of this change / modification is to be performed under the same terms and conditions as specified in the original contract unless otherwise stipulated.

D.F. Tomasini Contractors, Inc.

Company Name

Craig Derouin

Signature of Authorized Agent

Oak Creek Water and Sewer Utility/Brian Johnston

Project Engineer / Customer

Signature of Authorized Agent

11/30/2020

Date of Acceptance

Date of Acceptance



D.F. Tomasini Contractors, Inc.  
 N70 W25176 Indian Grass Lane - Sussex, WI 53089  
 Phone: (262) 820-8300 Fax: (262) 820-8400

**CONTRACT CHANGE /  
 MODIFICATION  
 # 3**

**PROJECT NAME:** Jewell Street Sanitary Sewer

**PROJECT #** 17106

**PROJECT MANAGER / FOREMAN:** Craig Derouin

**JOB#** 2139

**PROJECT ENGINEER OR CUSTOMER:** Oak Creek Water and Sewer Utility/Brian Johnston

D.F. Tomasini Contractors is requesting to make the following changes / modifications as stated below for compensation on the project listed above:

QTY.	UOM	DESCRIPTION	UNIT PRICE	TOTAL
11.75	Hrs	Foreman/Operator (9/11, 9/14, 9/16)	\$96.00	\$1,128.00
2.50	Hrs	Foreman/Operator Premium Time	40.00	100.00
10.50	Hrs	Laborer (9/11, 9/14, 9/16)	94.00	987.00
1.50	Hrs	Laborer Premium Time	36.00	54.00
9.25	Hrs	Pickup Truck w/Misc. Hand Tools	60.00	555.00
1.25	Hrs	Backhoe (70,000#)	140.00	175.00
1.25	Hrs	Backhoe (30,000#)	110.00	137.50
1.25	Hrs	Loader	90.00	112.50
1.00	Days	36 KW Generator	175.00	175.00
1.25	Hrs	3" Electric Pump and Hoses	25.00	31.25
1.25	Hrs	OSHA Repair Shield	25.00	31.25
1.00	LS	Fuel	127.53	127.53
1.00	LS	Manhole Coring	577.50	577.50
1.00	LS	Concrete	113.47	113.47
1.00	LS	Manhole Boot	137.50	137.50
			<b>GRAND TOTAL:</b>	<b>\$4,442.50</b>

**REASON FOR CHANGE / MODIFICATION:**

Connect 15" sanitary sewer from manhole #1 to existing manhole per your direction.

**NOTE:**

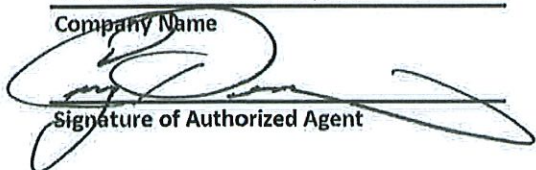
**ACCEPTED:** The above prices and specification of this change / modification are satisfactory and are hereby accepted. All work, which is the subject of this change / modification is to be performed under the same terms and conditions as specified in the original contract unless otherwise stipulated.

D.F. Tomasini Contractors, Inc.

Oak Creek Water and Sewer Utility/Brian Johnston

Company Name

Project Engineer / Customer

  
 Signature of Authorized Agent

Signature of Authorized Agent

10/30/2020

Date of Acceptance

Date of Acceptance



D.F. Tomasini Contractors, Inc.  
N70 W25176 Indian Grass Lane - Sussex, WI 53089  
Phone: (262) 820-8300 Fax: (262) 820-8400

**CONTRACT CHANGE /  
MODIFICATION  
# 4**

PROJECT NAME: Jewell Street Sanitary Sewer

PROJECT # 17106

PROJECT MANAGER / FOREMAN: Craig Derouin

JOB# 2139

PROJECT ENGINEER OR CUSTOMER: Oak Creek Water and Sewer Utility/Brian Johnston

D.F. Tomasini Contractors is requesting to make the following changes / modifications as stated below for compensation on the project listed above:

QTY.	UOM	DESCRIPTION	UNIT PRICE	TOTAL
1	LS	Additional Asphalt Paving	\$7,200.00	\$7,200.00
			<b>GRAND TOTAL:</b>	<b>\$7,200.00</b>

**REASON FOR CHANGE / MODIFICATION:**

Additional paving per your request

**NOTE:**

**ACCEPTED:** The above prices and specification of this change / modification are satisfactory and are hereby accepted. All work, which is the subject of this change / modification is to be performed under the same terms and conditions as specified in the original contract unless otherwise stipulated.

D.F. Tomasini Contractors, Inc.

Company Name

*Craig Derouin*

Signature of Authorized Agent

11/30/2020

Date of Acceptance

Oak Creek Water and Sewer Utility/Brian Johnston

Project Engineer / Customer

Signature of Authorized Agent

Date of Acceptance

## Weatherly Drive Water Main Contract Award

Project No.: 20102

Date: December 8, 2020

**RECOMMENDATION: That the Commission consider a motion to approve the Weatherly Drive Water Main project and award a construction contract to the lowest responsive, responsible bidder, Five Star Energy Services based on the bid amount of \$149,411.00.**

This project will install 933 LF of 8" PVC water main by horizontal directional drilling. The water main will be installed on the north side of W. Weatherly Drive from S. Wilding Drive to S. Waring Drive connecting 2 dead end mains. This line will go under the box culverts and creek along Weatherly Drive. This is part of the 2020 Capital Improvement Plan. This will improve the fire flow capacity and water quality in the area. The work will take place on City owned property and road right-of-way. The engineering estimate on the project was \$171,000.

The work was advertised, and the following bids were received:

<b>Contractor</b>	<b>Bid Amount</b>
<b>Five Star Energy Services</b>	<b>\$149,411.00</b>
Advance Construction	\$168,381.00
DK Contractors	\$202,294.00
American Sewer Services	\$222,977.00
IHC Construction	\$256,800.00
MJ Construction	\$316,316.00
Mid City Construction	\$331,175.00
Globe Contractors	\$341,241.00



**Amendment #3 to the Professional Services Agreement with CH2M Hill Engineers, Inc.**

Date: December 8, 2020

**RECOMMENDATION: That the Commission consider a motion to authorize the Utility Engineer to amend the existing professional services agreement with CH2M Hill Engineers, Inc. (Jacobs) in the not to exceed amount of \$100,000.**

The Utility has contracted with CH2M Hill (Jacobs) for several years to provide treatment plant engineering services. The original contract was started in 2012 and the first amendment was in 2014 and the second in 2019. Services under the general services contract usually are not associated with a specific capital project. Currently, there is about \$23,000 remaining on the existing contract. These funds will be used with the PLC replacement project. The project is estimated at \$97,000 for engineering services.

The renewed agreement will allow staff to engage Jacobs on an as-needed basis to assist in future miscellaneous engineering services at the treatment plant. The contract will be limited to \$100,000 before requiring additional Commission approval. On average we have spent \$28,000 per year over the past 7 years with Jacobs on various projects.

## Oak Creek Water Treatment Plant 2021 Chemical Cost

Date: December 8, 2020

**The following information is the cost and vendor for each chemical used at the Oak Creek Water Treatment Plant. This information reflects any change in cost for 2021 and estimated annual usage.**

The chemical costs for 2021 are as follows:

**Coagulant H1050A**

**2021 Cost \$0.27500/lb**

2020 Cost \$0.2600/lb

Est. Usage 325,000 lbs

Est. Cost \$89,375.00

Vendor: ChemTrade, two-year price lock at \$.2600/lb. (\$4,875.00 savings)

**Disinfectant Sodium Hypochlorite**

**2021 Cost \$0.07500/lb**

2020 Cost \$0.07800/lb

Est. Usage 550,000 lbs

Est. Cost \$41,250.00 (\$1,650.00 decrease)

Vendor: Milport Chemical, former supplier and low bid

**Fluoride Hydrofluosilicic Acid**

**2021 Cost \$0.1895/lb**

2020 Cost \$0.1680/lb

Est. Usage 75,000 lbs

Est. Cost \$14,212.50 (\$1,612.50 increase)

Vendor: Alexander Chemical-low bid, current supplier

**Potassium Permanganate**

Carus Free Flowing

**2021 Cost**     **\$3.55/lb**

2020 Cost     \$3.55/lb

Est. Usage     6,000 lbs

Est. Cost     \$21,300.00 (no change)

Vendor:     Hawkins Chemical-only bid, current supplier

**Powdered Activated Carbon**

CarbPure 500

**2021 Cost**     **\$0.6800/lb**

2020 Cost     \$0.7150/lb

Est. Usage     21,600 lbs

Est. Cost     \$14,688.00 (\$756.00 decrease)

Vendor:     Thatcher Company-low bid, current supplier

# 2021 CAPITAL BUDGET SUMMARY SHEET

## Capital Budget Financed by Operations:

Administrative and General	\$	10,000.00
Distribution		261,000.00
Engineering		25,000.00
Treatment Plant		522,000.00
Capital Improvement Projects		2,250,000.00
Projects in Progress		<u>16,513,800.00</u>
<b>Total 2021 Capital Budget</b>	<b>\$</b>	<b><u>19,581,800.00</u></b>

## 2021 CAPITAL BUDGET

		<u>Total</u>	<u>Water</u>	<u>Sewer</u>
Administration	Telephone System Replacement	\$ 10,000.00	\$ 7,000.00	\$ 3,000.00
Distribution	Construction Coordinator Vehicle Replacement	35,000.00	35,000.00	-
	Meter Exchange Program	46,000.00	46,000.00	-
	Meter Reading Vehicle Replacement	30,000.00	30,000.00	-
	Tandem Dump Truck Replacement	70,000.00	70,000.00	-
	Fire Hydrant Refinishing	20,000.00	20,000.00	-
	Sewer Cleaner/Hydro-excavator Truck	60,000.00	-	60,000.00
	<b>Subtotal</b>	<b>261,000.00</b>	<b>201,000.00</b>	<b>60,000.00</b>
Engineering	Satellite Water Leak Detection	25,000.00	25,000.00	-
Treatment Plant	Replacement and re-lining of Chlorine Storage Tanks	52,000.00	52,000.00	-
	Replacement of Plant PLC's	360,000.00	360,000.00	-
	Sluice Gate sealing and repair	60,000.00	60,000.00	-
	Upgrade HVAC operating system and controls	40,000.00	40,000.00	-
	Inspection of Chlorine Contact Tank	10,000.00	10,000.00	-
	<b>Subtotal</b>	<b>522,000.00</b>	<b>522,000.00</b>	<b>-</b>
Projects	Howell Avenue Water Relay	1,000,000.00	1,000,000.00	-
	Rawson Avenue Hydrant Relocate	75,000.00	65,000.00	10,000.00
	Centennial Drive Sanitary Sewer	150,000.00	-	150,000.00
	Low Lift Drive Maintenance	275,000.00	275,000.00	-
	Various Sanitary Sewer Repairs	750,000.00	-	750,000.00
	<b>Subtotal</b>	<b>2,250,000.00</b>	<b>1,340,000.00</b>	<b>910,000.00</b>
<b>TOTAL</b>		<b>\$3,068,000.00</b>	<b>\$2,095,000.00</b>	<b>\$973,000.00</b>

### Five Year History

<u>Year</u>	<u>Total</u>	<u>Water</u>	<u>Sewer</u>
2020	\$7,752,000.00	\$6,739,100.00	\$1,012,900.00
2019	\$2,411,466.00	\$2,052,866.00	\$ 358,600.00
2018	8,309,087.00	7,161,102.00	1,147,985.00
2017	4,764,150.00	3,328,500.00	1,435,650.00
2016	4,969,650.00	4,197,250.00	772,400.00

# 2021 CAPITAL BUDGET

## ADMINISTRATIVE AND GENERAL

**Utility Billing Software** \$ 10,000.00

The existing phone system is at least 18 years old and well beyond its useful life. Since there is a fiber optic cable between the Utility building and City Hall, additional phones can be added to the City system economically. The new phone system will also include more modern features such as voicemail to text and incoming line forwarding to mobile numbers. Finally, the new phone system would allow transferring of calls between City facilities. This project does not include upgrading the phones at the treatment plant at this time.

Water	7,000.00
Sewer	3,000.00

**TOTAL ADMINISTRATIVE AND GENERAL BUDGET**

**\$ 10,000.00**

<b>Water</b>	7,000.00
<b>Sewer</b>	3,000.00
<b>\$</b>	<b><u>10,000.00</u></b>

# 2021 CAPITAL BUDGET

## DISTRIBUTION

<p><b>Construction Coordinator Vehicle Replacement</b></p> <p>This vehicle is a 2011 GMC Canyon that is used in the engineering department. It has proven to be too small for the requirements of the job. The truck has roughly 55,000 miles on it. This is the only compact pickup in the fleet. Changing this to a full-sized pickup would make tool and equipment hauling more efficient. The new vehicle would be a ½ ton, four-wheel drive, extended cab pickup truck.</p> <p style="margin-left: 20px;"><b>Water</b>            <b>35,000.00</b></p>	<p>\$    35,000.00</p>
<p><b>Meter Exchange Program</b></p> <p>The meter department will continue the exchange program, exchanging 225 meters and Orion heads this year. The price is \$201.74 per unit and valid until 6/8/2021.</p> <p style="margin-left: 20px;"><b>Water</b>            <b>46,000.00</b></p>	<p>46,000.00</p>
<p><b>Meter Reading Vehicle Replacement</b></p> <p>This vehicle is a 2012 model year Ram Cargo Van with 85,000 miles on it. Utility wide, the most miles are put on this vehicle throughout the year. This vehicle is used for meter reading, meter exchanges and installs, and hydrant fitting installations. Maintenance is becoming more frequent and costly. The new vehicle would be another van-type cargo vehicle of similar size.</p> <p style="margin-left: 20px;"><b>Water</b>            <b>30,000.00</b></p>	<p>30,000.00</p>
<p><b>Tandem Dump Truck</b></p> <p>The Freightliner tandem dump truck is a 2000 model with 43,000 miles and 5,600 hours on it. This truck is used to pull the trailer with the excavator and hauling materials when doing water main and lateral repairs. This truck is underpowered to pull the excavator and the hitch/frame is showing wear/fatigue from the added stress of the heavy equipment. The replacement cost today is about \$150,000.00. There was \$20,000.00 put into the reserve fund in 2016 and 2017 and \$40,000 added in 2020 to replace this truck. The total reserve fund for the dump truck is currently at \$80,000.</p> <p style="margin-left: 20px;"><b>Water</b>            <b>70,000.00</b></p>	<p>70,000.00</p>
<p><b>Fire Hydrant Refinishing</b></p> <p>Many fire hydrants are in need of paint removal to bare metal to be able to refinish them with fresh primer and paint. After a company blasted the hydrants, utility employees can refinish them. I estimate \$100 per hydrant to blast and would like to do roughly 200 hydrants.</p> <p style="margin-left: 20px;"><b>Water</b>            <b>20,000.00</b></p>	<p>20,000.00</p>
<p><b>Sewer Cleaner/Hydro-excavator Truck (Reserve Fund)</b></p> <p>The Vac-Con sewer cleaning machine is a 2014 model with 20,000 miles and 5,700 hours on it. This truck is used to clean and maintain sewers. We also use this truck on excavations when the need arises due to varying circumstances. The replacement cost today is about \$400,000.00. This is the first installment into the reserve fund. The forecasted replacement year is 2025/2026.</p> <p style="margin-left: 20px;"><b>Sewer</b>            <b>60,000.00</b></p>	<p>60,000.00</p>
<p><b>TOTAL DISTRIBUTION BUDGET</b></p>	<p><b>\$    261,000.00</b></p>
	<p><b>Water</b>            201,000.00</p> <p><b>Sewer</b>            60,000.00</p> <p><b>\$    261,000.00</b></p>

# 2021 CAPITAL BUDGET

## ENGINEERING

### Satellite Water Leak Detection

\$ 25,000.00

This is a satellite water leak detection program. The company uses a satellite radar and then runs it through an algorithm to determine areas of possible water leaks. Staff would then go to these located areas and search for possible water leaks. This program was conducted in Green Bay this year with successful results of locating leaks. We have not been able to find surrounding communities to partner with to reduce costs. We budgeted \$15,000 to this project in the 2020 budget.

Water 25,000.00

### TOTAL ENGINEERING BUDGET

\$ 25,000.00

Water 25,000.00

Sewer -

\$ 25,000.00



# 2021 CAPITAL BUDGET

## TREATMENT PLANT

### Replacement and re-lining of Chlorine Storage Tanks

\$ 52,000.00

The project includes replacing or relining of the Chlorine storage tanks. It is recommended that Chlorine storage tanks are replaced every ten years. The plant has two 5600 gallon bulk storage tanks and two 564 gallon day tanks which were installed in 2010. There is an option to re-line the bulk tanks with a predicted life span on the coating of 6-10 years. The re-lining process can be repeated when needed which will extend the life of the bulk tanks considerably. The day tanks are too small to get re-lining equipment inside. Re-lining of the bulk tanks will eliminate the installation cost which includes removing part of the roof and lifting the tanks into place. This cost is to replace the day tanks and re-line the bulk tanks.

**Water 52,000.00**

### Cost breakdown for new bulk tanks and new day tanks:

Bulk tanks (2) \$27,440 = \$54,880  
Day tanks (2) \$7,525 = \$15,050  
Freight to the Plant = \$10,000  
Installation of tanks = \$15,000  
Disposal of old tanks = \$ 5,000  
**Total: \$99,930.00 CIP Number: \$100,000.00**

### Cost breakdown of re-lining bulk tanks and replacing day tanks

Re-lining bulk tanks (2) \$13,200= \$26,400  
Replacement of day tanks (2) \$7,525 = \$15,050  
Freight to the Plant = \$10,000  
**Total: \$51,450 CIP Number: \$52,000**

**Replacement of Plant PLC's (programmable logic controller)**

360,000.00

The goal of the project will be to upgrade the existing control platform to one that uses current technology that is supported by the manufacturers and can be readily maintained. The PLC's at the treatment plant are past their life expectancy. The manufacturer has listed our PLC hardware as "Active Mature". This means that it is still supported for now but replacement parts will be more expensive than buying new. The Plant currently has five PLC's that are 21 years old, four PLC's that are 11 years old, and one PLC that is five years old. PLC's are a critical part of operations and it is time to plan for replacing them. This cost, along with money budgeted in 2020, will allow us to replace all the PLC's at the treatment plant and maintain a supply of spare parts.

**Water 360,000.00**



**Sluice Gate sealing and repair**

60,000.00

This project will seal up the common opening between the filter clearwell and the high lift clearwell. Potentially, water from the filter clearwell could leak into the high lift clearwell bypassing the chlorine contact chamber. Sealing this opening will eliminate any chance of this happening. In addition, there is another sluice gate between the South high lift clearwell and the North high lift clearwell. This sluice gate is currently inoperable. The sluice gate between the North and South high lift clearwell needs to be repaired to operational condition so scheduled inspections and maintenance can be completed without shutting down the plant.

**Water            60,000.00**



**Upgrade HVAC operating system and controls**

40,000.00

This project will upgrade the Plant HVAC computer, operating system and controls. The current system has been in operation since 2003 and controls some but not all of the equipment and thermostats. Some of the thermostats are still controlled with original pneumatics. These upgrades will give us a more reliable and complete HVAC operating system.

**Water 40,000.00**

**Inspection of Chlorine Contact Tank**

10,000.00

This project consists of a dive crew performing an inspection of the underground Chlorine Contact Tank. The interior inspection of the tank will include inspection of the floor, walls, pillars, ladders, piping and curtains for any defects or deterioration. The last time the tank was inspected was May 31st, 2018. Inspection of the Chlorine Contact Tank every two or three years is recommended to document the integrity of the tank. The latest WIDNR sanitary survey listed this tank as a deficiency, so it is critical to monitor the condition of the tank. Due to the tank being underground with limited access, a nine-person crew is required to meet all Federal and State OSHA Commercial Diving Rules and Regulations.

**TOTAL TREATMENT PLANT BUDGET**

\$ 522,000.00

Water  
Sewer

522,000.00

-

\$ 522,000.00

# 2021 CAPITAL BUDGET

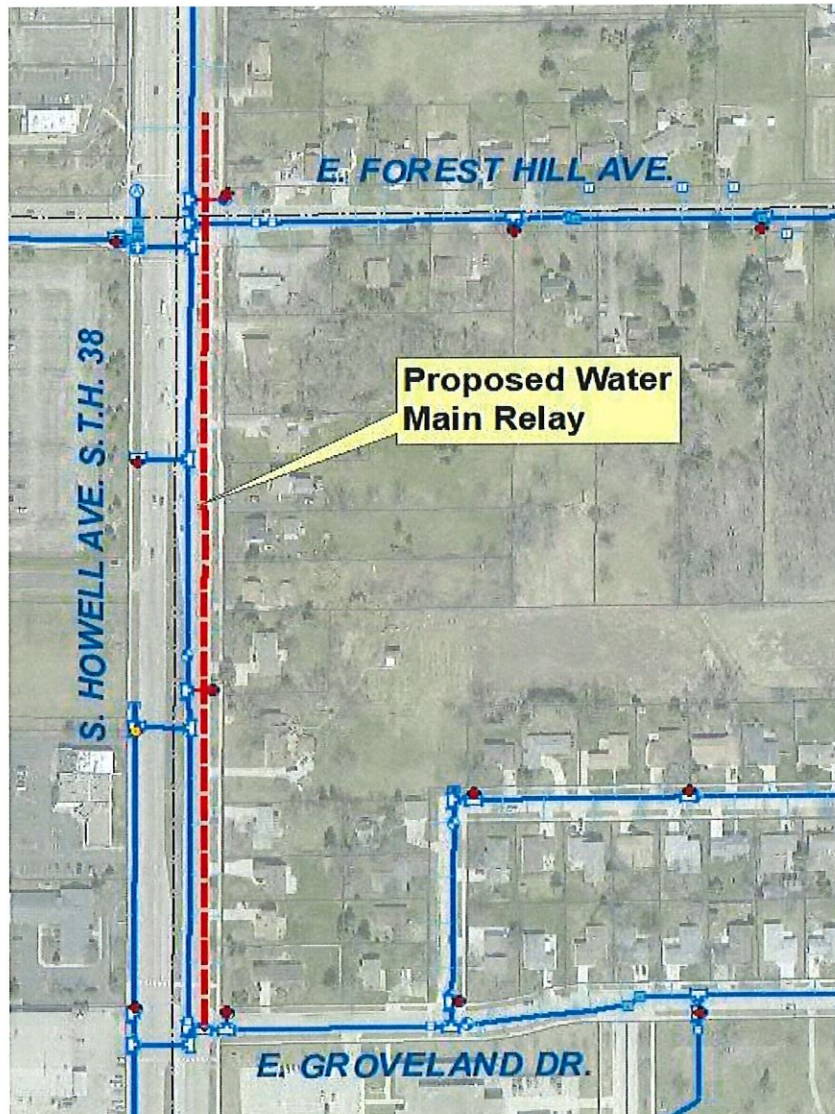
## CAPITAL IMPROVEMENT PROJECTS

### Howell Avenue Water Relay

\$ 1,000,000.00

The project includes directional boring approximately 1540 LF of 12" water main in S. Howell Avenue from E. Groveland Avenue to 200 feet north of Forest Hill Avenue. This project will relay the existing 1956 cast iron water main. We have had roughly 30 breaks on this section of main over the years. The proposed alignment will run in the curb lane of Howell Avenue. This will be helpful in the future to be outside of the travel lane. This is a high priority main for replacement per the Water Master Plan.

**Water**      **1,000,000.00**



### Rawson Avenue Hydrant Relocate

75,000.00

This project will relocate the hydrants on W. Rawson Avenue between S. 27<sup>th</sup> Street and S. 20<sup>th</sup> Street. This is required to relocate the hydrants in front of the Milwaukee County project scheduled for 2022 to reconstruct Rawson Avenue. The project will also include curb box, valves and manhole adjustments. This will require coordination with Milwaukee County.

Water	65,000.00
Sewer	10,000.00

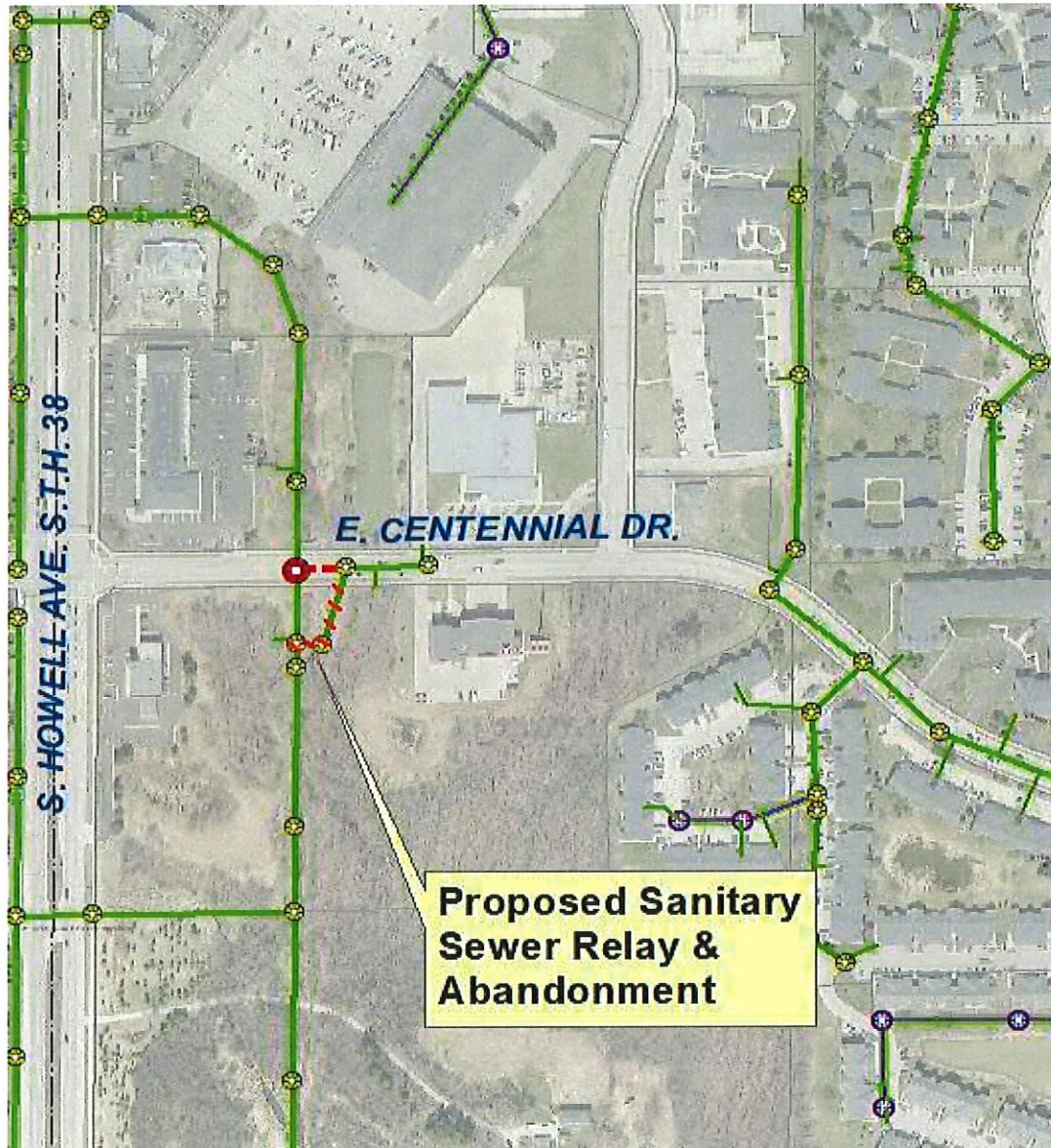


**Centennial Drive Sanitary Sewer**

150,000.00

This project will abandon the existing sanitary sewer line and manhole west of Fire Station No. 1. The existing drainage ditch is eroding the land around the existing manhole structure. Access is an issue to maintain the sewer and potential collapse of the structure. The proposed 8" sanitary will need to be bored under the existing box culvert in Centennial Drive. Both proposed manhole structures will be drop manholes with a depth around 26 feet. The existing sanitary sewer will be abandoned in place.

**Sewer 150,000.00**



**Low Lift Drive Maintenance**

275,000.00

This project will provide concrete patching and crack filling along the low lift drive. We will also add lighting and an additional camera for security at the building. The project will address the drainage issues around the building. Currently, the concrete flume on the north side of the building is failing and undermined. We will add a new flume and underdrain along the building. The project proposes to install stairs on the south side of the building to access the roof. Currently, staff crawls up the concrete drainage flume to get to the roof. This is a safety concern when the concrete is wet and slippery. The project will also add a trench drain along the east wall to collect runoff and prevent icing in the winter. The 2020 budget set aside \$125,000 for this project.

**Water 275,000.00**



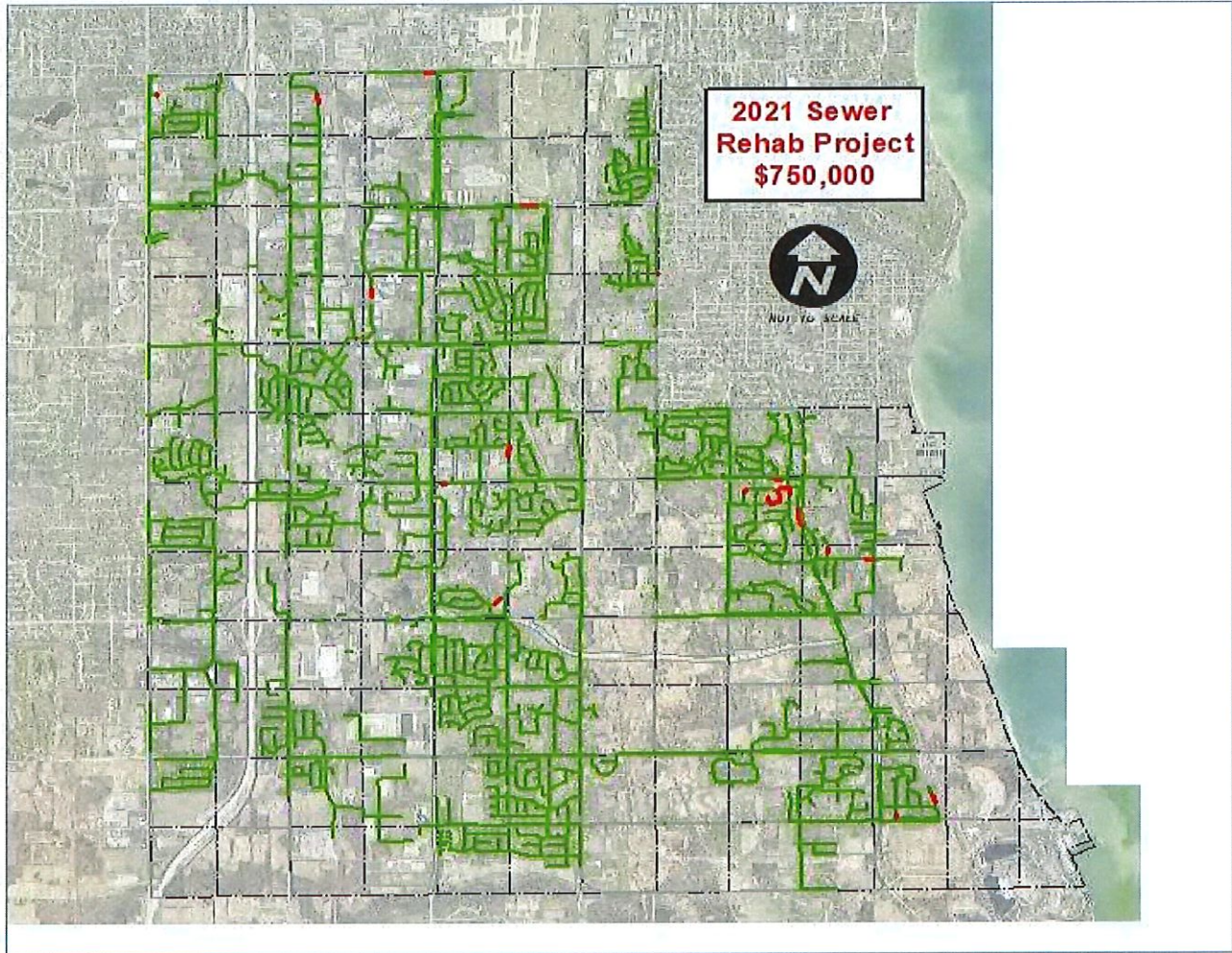


**Various Sanitary Sewer Repairs**

750,000.00

This project is part of the sanitary sewer rehabilitation program. The project continues to identify and correct deficiencies in the sanitary sewer system throughout the City of Oak Creek. The Utility uses the NASSCO rating system to evaluate the sewer repairs based on the camera work completed on the system. The repairs utilize different construction techniques in complete pipe relays, lining, spot repairs and spot lining.

**Sewer 750,000.00**



**TOTAL CAPITAL IMPROVEMENT PROJECTS BUDGET**

**\$ 2,250,000.00**

<b>Water</b>	1,340,000.00
<b>Sewer</b>	910,000.00
	<b>\$ 2,250,000.00</b>

## 2021 CAPITAL BUDGET

### PROJECTS IN PROGRESS

	<u>Total Budgeted</u>	<u>Amount Remaining as of 12/31/20</u>	<u>Water</u>	<u>Sewer</u>
17111 Water Quality Improvement Project (2016, 2017, 2018, 2020)	\$ 12,000,000.00	\$ 12,000,000.00	\$ 12,000,000.00	\$ -
17106 Jewell Street Sanitary Sewer Lift Station Replacement (2017, 2020)	1,530,000.00	216,415.31	-	216,415.31
19104 Full Water System Master Plan (2018, 2020)	450,000.00	103,180.00	103,180.00	-
19107 Security Upgrades (2017)	250,000.00	241,591.55	169,114.09	72,477.46
19106 Sanitary Sewer Master Plan (2018, 2019)	250,000.00	112,560.79	-	112,560.79
697 Sewer Machine Dump Site (2016)	50,000.00	39,091.12	-	39,091.12
701 Tandem Dump Truck Reserve (2016, 2017, 2020)	80,000.00	80,000.00	80,000.00	-
721 Replacement of Treatment Plant West Effluent Meter (2018)	40,000.00	40,000.00	40,000.00	-
19105 Electrical Feasibility Study at Water Treatment Plant (2018, 2019)	53,800.00	2,402.71	2,402.71	-
74200 Replacement of Plant PLC's	360,000.00	360,000.00	360,000.00	-
20101 Satellite Water Leak Detection	15,000.00	15,000.00	15,000.00	-
743 Replacement of Particle Counters (2020)	60,000.00	60,000.00	60,000.00	-
20102 Weatherly Water main Loop (2020)	375,000.00	358,662.12	358,662.12	-
20103 Rawson Avenue Water Main Relay (2020)	575,000.00	552,931.75	552,931.75	-
20105 Low Lift Drive Maintenance (2020)	125,000.00	101,194.29	101,194.29	-
20106 Howell Avenue Water Main Lining (2020)	300,000.00	285,254.96	285,254.96	-
<b>TOTAL PROJECTS IN PROGRESS BUDGET</b>	<b>\$ 16,513,800.00</b>	<b>\$ 14,568,284.60</b>	<b>\$ 14,127,739.92</b>	<b>\$ 440,544.68</b>

**OAK CREEK WATER AND SEWER UTILITY  
PROGRESS PAYMENT REPORT**

PROJECT NO. 17106- Jewel Street Lift Station Abandonment

Item No.	Item Description	Bid Quantity	Unit	Price	Total Price	Partial Payment No. 1 May 14, 2020		Partial Payment No. 2 June 9, 2020		Partial Payment No. 3 July 14, 2020		Partial Payment No. 4 August 11, 2020		Partial Payment No. 5 October 13, 2020		Partial Payment No. 6 November 10, 2020	
						Quantity Complete	Cost Complete	Quantity Complete	Cost Complete	Quantity Complete	Cost Complete	Quantity Complete	Cost Complete	Quantity Complete	Cost Complete	Quantity Complete	Cost Complete
D.F. Tomasini Contractors, Inc. N70W25176 Indian Grass Lane Sussex, WI 53089																	
1	15-INCH PVC SANITARY SEWER SDR-35 1-1/4" TB	15	LF	\$500.00	\$7,500.00		\$0.00		\$0.00		\$0.00		\$0.00	10.00	\$5,000.00		\$0.00
2	18-INCH PVC C900 SANITARY SEWER 1-1/4" TB	55	LF	\$500.00	\$27,500.00		\$0.00		\$0.00		\$0.00	55.00	\$27,500.00		\$0.00		\$0.00
3	18-INCH PVC C900 SANITARY SEWER SPOIL BACKFILL	1,887	LF	\$405.00	\$764,235.00		\$0.00	545.70	\$221,008.50	1272.50	\$515,362.50	68.80	\$27,864.00		\$0.00	114.25	\$46,271.25
4	SANITARY SEWER MANHOLE 48" ID	178	VF	\$1,300.00	\$231,400.00		\$0.00	101.00	\$131,300.00	91.62	\$119,106.00	9.50	\$12,350.00		\$0.00	-2.95	-\$3,835.00
5	ABANDON AIR RELEASE & SANITARY MANHOLE	2	EA	\$7,500.00	\$15,000.00		\$0.00		\$0.00		\$0.00		\$0.00	2.00	\$15,000.00		\$0.00
6	ABANDON 4-INCH FORCE MAIN	135	LF	\$35.00	\$4,725.00		\$0.00		\$0.00		\$0.00		\$0.00	135.00	\$4,725.00		\$0.00
7	ABANDON 18-INCH SANITARY SEWER	165	LF	\$45.00	\$7,425.00		\$0.00		\$0.00		\$0.00		\$0.00	165.00	\$7,425.00		\$0.00
8	ABANDON LIFT STATION	1	LS	\$30,000.00	\$30,000.00		\$0.00		\$0.00		\$0.00		\$0.00	1.00	\$30,000.00		\$0.00
9	REMOVE 8-INCH SANITARY SEWER	15	LF	\$150.00	\$2,250.00		\$0.00		\$0.00		\$0.00	15.00	\$2,250.00		\$0.00		\$0.00
10	REMOVE SANITARY MANHOLE	1	EA	\$2,500.00	\$2,500.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00
11	ASPHALT PAVEMENT REMOVAL	329	SY	\$13.00	\$4,277.00		\$0.00		\$0.00	165.00	\$2,145.00		\$0.00	164.00	\$2,132.00		\$0.00
12	SAWCUTTING EXISTING PAVEMENT FULL DEPTH	75	LF	\$15.00	\$1,125.00		\$0.00		\$0.00	42.00	\$630.00		\$0.00	2.00	\$30.00		\$0.00
13	REMOVE 57 X 36-INCH ARCH CMP	27	LF	\$82.00	\$2,214.00		\$0.00		\$0.00		\$0.00	27.00	\$2,214.00		\$0.00		\$0.00
14	REMOVE GUARDRAIL	30	LF	\$50.00	\$1,500.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00
15	PIPE ARCH CORRUGATED STEEL 57 X 36-INCH	27	LF	\$300.00	\$8,100.00		\$0.00		\$0.00		\$0.00	27.00	\$8,100.00		\$0.00		\$0.00
16	APRON ENDWALLS FOR PIPE ARCH STEEL 57 X 36-INCH	2	EA	\$2,000.00	\$4,000.00		\$0.00		\$0.00		\$0.00	2.00	\$4,000.00		\$0.00		\$0.00
17	HMA PAVEMENT TYPE 4 LT, PG 58-28 S	4	TON	\$1,200.00	\$4,800.00		\$0.00		\$0.00		\$0.00		\$0.00	4.00	\$4,800.00		\$0.00
18	STONE TRACKING PAD	1	EA	\$4,000.00	\$4,000.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00
19	DEWATERING	1	LS	\$145,000.00	\$145,000.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00
20	CLEARING AND GRUBBING	1	LS	\$26,000.00	\$26,000.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00
21	TURF RESTORATION	1	LS	\$29,000.00	\$29,000.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00
22	TRENCH STABILIZATION (UNDISTRIBUTED)	750	TON	\$55.00	\$41,250.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00
23	EROSION CONTROL	1	LS	\$17,000.00	\$17,000.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00
24	TRAFFIC CONTROL	1	LS	\$10,000.00	\$10,000.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00
E-1	Plan Changes to Final Construction Documents	1	LS	\$53,255.00	\$53,255.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00
E-2	Connection to Existing Manhole	1	LS	\$17,923.00	\$17,923.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00
E-3	Retention of Existing MH along Jewel Street	1	LS	\$4,442.50	\$4,442.50		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00
E-4	Additional Asphalt for Road Patch	1	LS	\$7,200.00	\$7,200.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00
<b>TOTAL ITEMS 1-24 (inclusive)</b>							\$97,000.00		\$352,308.50		\$637,243.50		\$84,276.00		\$105,646.80		\$241,256.75

Sub-Total Completed To Date	\$1,517,735.55
Less Allowance for testing and approval	\$0.00
Less Retainage (5% to 50% complete)	-\$21,342.15
<b>Total</b>	<b>\$1,496,393.40</b>
Less Previous Payments	\$1,308,391.65
<b>TOTAL PAYMENT DUE THIS PERIOD</b>	<b>\$188,001.75</b>

Recommended for Commission Approval by: *Brian Z. Johns* Date: 12/02/2020

**ADMINISTRATIVE OPERATIONS**  
November 2020

**Capital Budget:**

Accounting Manager Danner prepared the Utility's capital budget for 2021.

**Refunding Bonds:**

The 2011 revenue bonds were refunded in November. This will save the Utility \$802,172 in interest from 2021 – 2031.

**Penalties:**

The Utility has not been charging late fees or penalties, but starting in November, the 1% per month was included on all accounts that did not pay by the due date.

**Delinquent Notices:**

Senior Accountant Leranth compiled a list of delinquent accounts to be placed on the City of Oak Creek's tax roll. The following table summarizes the accounts rolled to the tax bills for 2020, 2019 and 2018:

	<u>2020</u>	<u>2019</u>	<u>2018</u>	<u>Variance</u> <u>2020 vs. 2019</u>	<u>Variance</u> <u>2019 vs. 2018</u>
<b>Number of delinquent notices</b>	1,183	1,376	1,498	(14.03) %	(8.14) %
<b>Number of customers rolled</b>	561	669	708	(16.14) %	(5.51) %
<b>Amounts rolled:</b>					
Water	\$ 184,633	\$ 223,920	\$ 245,593	(17.54) %	(8.82) %
Water penalties	18,279	22,063	24,564	(17.15)	(10.18)
Total	202,912	245,984	270,157	(17.51)	(8.95)
Sewer	51,865	63,959	69,213	(18.91)	(7.59)
Sewer penalties	5,157	6,317	6,917	(18.36)	(8.68)
Total	57,022	70,276	76,130	(18.86)	(7.69)
Metro	82,881	98,314	101,583	(15.70)	(3.22)
Metro penalties	8,193	9,668	10,077	(15.26)	(4.05)
Total	91,074	107,982	111,660	(15.66)	(3.29)
<b>TOTAL</b>	<b>\$ 351,008</b>	<b>\$ 424,242</b>	<b>\$ 457,947</b>	<b>(17.26) %</b>	<b>(7.36) %</b>

**Workload:**

Other administrative tasks included the following:

- Added 10 customer account for the month.
- Billed 3,338 water customers and 3,455 sewer customers.

**Gallons Billed (in thousands):**

	YTD 2020	YTD 2019	YTD 2018	YTD 2017	YTD 2016	Average
Residential	393,254	359,481	371,774	368,337	394,149	377,399
Commercial	438,829	424,429	421,140	434,106	424,804	428,662
Industrial	453,804	474,517	481,483	414,828	405,463	446,019
Public Authority	10,375	12,203	12,821	13,239	13,858	12,499
Wholesale	1,131,589	1,066,464	1,041,948	1,030,386	1,130,097	1,080,097
Total	2,427,851	2,337,094	2,329,166	2,260,896	2,368,371	2,344,676
% Change to Prior Year	3.9%	0.3%	3.0%	-4.5%	N/A	
% Change to Average	3.5%	-0.3%	-0.7%	-3.6%	1.0%	

**New Customers:**

	YTD 2020	YTD 2019	YTD 2018	YTD 2017	YTD 2016	Average
Residential	55	25	31	26	26	32.6
Commercial	19	21	20	27	27	22.8
Industrial	1	0	0	0	0	0.2
Public Authority	4	0	1	0	1	1.2
Wholesale	0	0	0	0	0	-
Total	79	46	52	53	54	56.8

**New Residential Customers (YTD 2020):**

1485 E. Maple View Drive, 1515 E. Maple View Drive, 1545 E. Maple View Drive, 1587 E. Maple View Drive, 3380 E. Oakwood Road, 1138 W. Morningside Lane, 1153 W. Morningside Lane, 1049 W. Sunrise Pass, 1053 W. Sunrise Pass, 1054 W. Sunrise Pass, 1079 W. Sunrise Pass, 1110 W. Sunrise Pass (2 accounts including lawn), 1127 W. Sunrise Pass, 1141 W. Sunrise Pass, 1546 E. Arbor Creek Drive, 9259 S. Arbor Creek Drive, 9279 S. Arbor Creek Drive, 9300 S. Arbor Creek Drive, 9316 S. Arbor Creek Drive, 9325 S. Arbor Creek Drive, 9375 S. Arbor Creek Drive, 3916 E. O'Brien Road, 8418 S. Nighthawk Trail, 8426 S. Nighthawk Trail, 8439 S. Nighthawk Trail, 8494 S. Nighthawk Trail, 8788 S. 6<sup>th</sup> Avenue, 1308 E. Golden Lane (lawn), 1316 E. Golden Lane, 1330 E. Golden Lane, 1344 E. Golden Lane, 1359 E. Golden Lane, 1373 E. Golden Lane, 4020 E. Fitzsimmons Road, 9627 S. Wintergreen Drive, 9991 S. Shepard Avenue, 3980 E. Cooper Court, 3507 E. American Avenue, 1324 E. Wild Ginger Way (lawn), 1056 W Morningside LN, 1152 W Sunrise Pass, 1401 E Golden Lane, 1546 E Maple View DR, 1357 E Hickory Creek CT, 1034 Willow Creek DR, 3977 E Oakwood RD

**New Commercial Customers (YTD 2020):**

HSI Orchard Hills, LLC (9 accounts), NHI-Reit of WI, LLC (2 accounts), SSV Oak Creek II LLC, 9079 S. 5<sup>th</sup> Avenue, Commerce 94 Project, LLC (3 accounts), Boyland Properties

**Public Authority (YTD 2020):**

Oak Creek-Franklin School District (3 accounts including soccer, concession and lawn), U.S.P.S (1 account)

**Industrial (YTD 2020):**  
Electro-Tek Group

# **ENGINEERING OPERATIONS**

**November 2020**

## **Sanitary Master Plan**

Brown & Caldwell has received the additional flow monitoring data from the MMSD installed meters. They are using this data to calibrate the model. It is anticipated that in December the modeling work will be completed.

## **Risk and Resiliency Assessment**

Strand is working on the Risk and Resiliency Assessment that is required to be submitted to the EPA by December 31, 2020. The cybersecurity section of the report was submitted and reviewed. The report will be submitted in December.

## **Howell Avenue Water Main Lining Project**

The Howell Avenue Water Main Lining Project is postponed to spring. Mid City's subcontractor Michel's was delayed on starting the project. The decision was made to hold until spring so that a change order is not needed for cold weather construction on the concrete and asphalt replacements.

## **Development Project with Utility Construction**

The following development projects which involve utility construction are actively underway:

- Highgate – Punch list items remain.
- Orchard Hills – Punch list items remain.
- Rawson Business Park – Punch list items remain.
- Hub13 – Punch list items remain.
- Creekside Crossing – Punch list items remain.
- Condos at Oak View – Punch list items remain.

## **DISTRIBUTION & COLLECTION OPERATIONS**

**November 2020**

### **Water Main Breaks:**

On November 1<sup>st</sup>, crews were sent to fix the 24" DIP main on E. Puetz Rd. approximately 750' east of S. Pennsylvania Ave. The water was blowing about 30' in the air. A large blowhole (4") was found in the pipe that was installed in 1968. A 24" long clamp was used to fix the main.

### **Water Lateral Repairs:**

There were no lateral repairs in the month of November

### **Hydrant Repairs/Maintenance:**

Two fire hydrants were fixed that were found broken during annual flushing. The remaining hydrants that require winterizing were completed.

### **Valve Repairs:**

On November 19<sup>th</sup>, crews excavated a valve on E. American Ave. to aide in the Treatment Plant shutdown for a meter replacement. A new operating nut was installed on the 30" butterfly valve. Shutdown will be happening once scheduled with the installing contractor.

### **Sewer Repairs/Maintenance:**

Dukes Root Control came in to treat 14 problematic lines and 3 manholes that needed root treatment.

Utility Workers performed sewer cleaning and televising.

### **Miscellaneous:**

Remote water and sewer mains were checked.

Utility workers repaired 3 curb stop and valve boxes.

Utility workers assisted the Engineering Dept. with storm line issues on the Peter Cooper site.



**DISTRIBUTION GOALS 2020**

JOB DESCRIPTION	GOALS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTALS
Meter Testing & Exchanges	650	174	166	187	4	23	8	1	2	9	11	2		587
New Installs	50	10	11	4	11	7	3	14	3	7	13	4		87
Cross Connection Inspections	450	6	45	44	11	8	2	6	5	6	10	6		149
Industrial Inspections		8	21	26	-	9	16	27	11	167	70	71		426
Orion Replacements	450	43	81	62	14	12	4	10	5	9	15	6		261
Water Main Repairs		1	-	-	1	1	3	3	2	2	-	1		14
Water Lateral Repairs		1	2	-	-	-	-	-	-	-	1	-		4
Annual Hydrant Flushing	2,221		-	-	-	246	481	473	380	578	63	-		2,221
Semi-annual Flushing	109		-	-	109	-	-	-	-	-	109	-		218
Quarterly Flushing	2x52 (104)	52	-	-	52	-	-	27	25	-	52	-		208
Flush Emergency Connections	3		-	-	-	-	-	-	-	-	3	-		3
Watermain Crossings	63		63	-	-	-	-	-	-	-	-	-		63
Hydrant Greasing - Caps	2,221		-	-	-	246	481	473	380	578	63	-		2,221
Hydrant Greasing - Packing	25		-	-	-	-	-	-	-	22	-	-		22
Hydrant Painting	150		-	-	-	-	38	67	46	-	-	-		151
Winterize Hydrants	72		-	-	-	-	-	-	-	-	4	68		72
Clean Sewers	145,000	546	7,173	24,172	-	-	12,125	12,079	11,889	15,368	24,559	9,639		117,550
Camera Sewers	145,000	365	7,173	23,430	216	121	12,125	11,505	14,039	15,368	23,483	9,113		116,939
Root treatment (lines - manholes)		13,897	1,513	-	-	-	-	-	-	-	-	14 - 3		15,410
Manhole Maintenance Flowlines														-
Grout Manholes	25		-	-	-	-	-	-	-	-	-	-		-
Repair Manhole Chimneys			-	-	-	-	-	1	-	-	1	-		2
Replace Manhole Cover Seals		1	2	2	-	-	-	-	-	7	1	-		13
Check Problem Sewers	4x58 (232)	58	-	-	58	-	-	58	-	-	58	-		232
Check Remote Sewer Mains	42		-	-	-	-	-	-	-	-	-	42		42
Check Remote Water Mains	28		-	-	-	-	-	-	-	-	-	28		28
Operate Valves	750		-	-	-	-	-	263	210	-	-	-		473
Valve Boxes Repaired or Adjusted		9	5	6	4	2	-	-	3	1	2	3		35
Stop Boxes Repaired or Adjusted		3	1	4	-	5	1	1	2	4	2	2		25
Concrete/Asphalt/Landscaping		1	-	-	-	9	-	4	12	6	2	-		34
Catholic Protection Tests	11		-	-	-	-	-	-	-	11	-	-		11
Winterize Equipment					Done							Done		
Summerize Equipment					Done							Done		
Run All Equipment		Done			Done									
Tier II Report							Done							
MMSD Annual CMOM Report							Done							
DNR eCMAR							Done							
Cross Connection Survey			Done											

## PLANT OPERATIONS

November 2020

<b>PUMPAGE REPORT</b>	<b>2020</b>	<b>2019</b>	<b>% Change</b>	<b>5 Year %</b>
Monthly Pumpage	211,639,964	212,539,700	-0.4	+2.7
Monthly Average Day	7,054,665	7,084,657	-0.4	+2.7
Monthly Peak Day	(11/05) 9,060,000	(11/23)8,790,000	+3.0	+2.3
Yearly Pumpage	2,619,822,441	2,590,061,600	+1.1	+2.7
Yearly Average Day	7,797,090	7,754,675	+0.5	+2.1
Yearly Peak Day	(08/22)11,660,000	(07/17)12,280,000	-5.0	-2.8
West Zone Pumpage	92,440,000	93,100,000	-0.7	+4.7
West Zone Yearly Total	1,197,910,000	1,133,598,000	+5.7	+3.5

<b>WATER QUALITY REPORT</b>	<b>Raw Water</b>	<b>Finished Water</b>
Average Free Chlorine		1.57 mg/l
Total Chlorine		1.74 mg/l
Average Alkalinity	110.2 mg/l	110.2 mg/l
Average pH	8.29	8.12
Average Fluoride	0.14 mg/l	0.69 mg/l
Average Turbidity	1.79 NTU	0.032 NTU
High Temperature	<b>High 47.7 F Low 44.3 F</b>	
Hardness	137 mg/l	137 mg/l

**Preventative Maintenance Tasks:** Staff completed 158 preventative maintenance tasks and 2 safety sessions during the month.

**Work Orders:** Staff completed 6 work orders. Some of the tasks include installing a backwash water turbidity meter, rebuilding booster station valves, replacing chlorine transfer pump, installing conduit for PLC upgrade, and repairing a chlorine feed pump leak.

**Plant:** UCMR4 testing has been completed. Testing began in July 2019 and results indicated no secondary testing was needed.

