



Common Council Chambers
8040 S. 6th Street
Oak Creek, WI 53154
(414) 766-7000

Robert Cigale
Kenneth Gehl
Chris Guzikowski
Fredrick Siepert- Alternate
Rich Duchniak

BOARD OF PUBLIC WORKS AND CAPITAL ASSETS

November 8, 2022
9:00 A.M.

The City's Vision

Oak Creek: A dynamic regional leader, connected to our community, driving the future of the south shore.

1. Call Meeting to Order.
2. Roll Call.
3. Approval of Minutes – 10/11/2022
4. **Informational:** Review of Common Council actions related to Public Works & Capital Assets.

GENERAL GOVERNMENT CAPITAL ASSETS

None

PUBLIC WORKS & UTILITIES

5. **Motion:** Consider a *motion* to authorize the Utility Engineer to amend the existing professional services agreement with Jacobs in the not to exceed amount of \$100,000.
6. **Motion:** Consider a *motion* to reject all bids for the Centennial Sanitary Relay project (Project No. 21104) (3rd Aldermanic District).
7. **Motion:** Consider a *motion* to approve Utility vouchers for payment in the amount of \$235,948.49.
8. **Informational:** Administrative and Operations reports.

CAPITAL ASSETS

9. **Motion:** Consider a *motion* to approve various capital asset and project requests contained in the staff's recommended 2023 Water and Sewer Capital Improvement Plan Budget.

TRAFFIC & SAFETY

10. **Motion:** Consider a *motion* to recommend road improvement projects to be advertised for public bid for construction in 2023 to the Common Council for approval.

11. Adjournment.

Dated this 3rd day of November, 2022.

Public Notice

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 414-766-7000, by fax at 414-766-7976, or by writing to 8040 S. 6th Street, Oak Creek, Wisconsin 53154.

It is possible that members of and possibly a quorum of members of other governmental bodies of the municipality may attend 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



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BOARD OF PUBLIC WORKS AND CAPITAL ASSETS

October 11, 2022
9:00 A.M.

The City's Vision

Oak Creek: A dynamic regional leader, connected to our community, driving the future of the south shore.

1. Call Meeting to Order.

Alderman Guzikowski called the meeting to order at 9:02 a.m.

2. Roll Call.

All Board Members were present with the exception of Board Member Cigale.

Also present: City Administrator Andrew Vickers, Public Works Director Matt Trebatoski, City Engineer Matt Sullivan, Utility General Manager Mike Sullivan, and Management Assistant Carly Persson.

3. Approval of Minutes – 09/14/2022

Alderman Gehl made a motion to approve the minutes of September 14, 2022, seconded by Board Member Siepert. All aye; motion carried.

4. **Informational:** Review of Common Council actions related to Public Works & Capital Assets.

City Administrator Vickers reported the Annual Budget Workshop on Friday, October 7 went well, and the Common Council looks to be including the entire CIP budget for 2023 as recommended by the Board. The City budget will be formally adopted at a November Common Council meeting. Vickers also reported Common Council rejected the Abendschein Pavilion bids at their October 4th meeting and awarded the Forest Hill water relay project in the amount of \$726,159.50 to Willkomm.

GENERAL GOVERNMENT CAPITAL ASSETS

None

PUBLIC WORKS & UTILITIES

5. **Motion:** Consider a *motion* to approve amendment No. 1 to the general services agreement with Strand with a not to exceed amount of \$50,000.

General Manager Sullivan explained there are several general service contracts for distribution and evaluation and cell phone review. The contract is open and Utility would like to kick the amount up.

Alderman Gehl made a motion to approve amendment No. 1 to the general services agreement with Strand with a not to exceed amount of \$50,000. Alderman Duchniak seconded. On roll call: all voted aye. Motion carried.

6. **Motion:** Consider a *motion* to approve the Change Order No. 1 for the 2022 Sanitary Rehabilitation project to Globe Contractors in the amount of \$6,335.00.

General Manager Sullivan reported the asphalt around the rehabilitation project has been deteriorating significantly. While it does not complete the project, the \$6,335.00 amount is a very good value. Next will be the testing and sealing of lateral connections.

Board Member Siepert made a motion to approve the Change Order No. 1 for the 2022 Sanitary Rehabilitation project to Globe Contractors in the amount of \$6,335.00. Alderman Duchniak seconded. On roll call: all voted aye. Motion carried.

7. **Motion:** Consider a *motion* to approve the progress payment No. 1 for the 2022 Sanitary Rehabilitation project to Globe Contractors in the amount of \$143,797.45.

General Manager Sullivan explained this is the first project payment and most of the payment is covered here. The final payment will be much smaller. While the rehabilitation project is ongoing, the City is performing this on an annual basis so all sanitary sewers are cleaned every five years. Cameras can identify defects to ensure efficiency.

Alderman Gehl made a motion to approve the progress payment No. 1 for the 2022 Sanitary Rehabilitation project to Globe Contractors in the amount of \$143,797.45. Board Member Siepert seconded. On roll call: all voted aye. Motion carried.

8. **Motion:** Consider a *motion* to approve Utility vouchers for payment in the amount of \$756,634.36.

Alderman Gehl made a motion to approve Utility vouchers for payment in the amount of \$756,634.36. Board Member Siepert seconded. On roll call: all voted aye. Motion carried.

9. **Motion:** Consider a *motion* to approve the 2023 Operating Budget for the Oak Creek Water and Sewer Utility.

General Manager Sullivan gave an overview of the 2023 Operating Budget for the Water and Sewer Utility. Sullivan highlighted that 2023 rates were approved and expenses were higher, at about 3% over 2021 costs for expenses going forward. The 2023 Utility Capital Budget will be presented at the November BOPWACA meeting. As for Sewer, there are relatively even revenue (4%) and expenses (1%). Rates may need to be adjusted in the future.

Board Member Siepert made a motion to approve motion to approve the 2023 Operating Budget for the Oak Creek Water and Sewer Utility. Alderman Duchniak seconded. On roll call: all voted aye. Motion carried.

10. **Informational:** Administrative and Operations reports.

General Manager Sullivan reported the Utility met with WE Energies about water rates as they have been using more water than usual. This is difficult to address due to the siloed WE Energies campus. The Susan Water Main project will not be tackled until next year as valves are currently unavailable. There is also difficulty procuring the correct valves to correct the Puetz barricade water leak.

TRAFFIC & SAFETY

None

11. Adjournment.

Board Member Siepert made a motion to adjourn at 9:38 a.m. Alderman Gehl seconded. On roll call: all voted aye. Motion carried.

Dated this 2nd day of November, 2022

Public Notice

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STAFF REPORT

Item: Amendment #5 to the Professional Services Agreement with Jacobs

Recommendation: That the Board considers a motion to authorize the Utility Engineer to amend the existing professional services agreement with Jacobs in the not to exceed amount of \$100,000.

Fiscal Impact: Funds for this project have been allocated in the 2022 Capital Budget.

Critical Success Factor(s):

- Vibrant and Diverse Cultural Opportunities
- Thoughtful Development and Prosperous Economy
- Safe, Welcoming, and Engaged Community
- Inspired, Aligned, and Proactive City Leadership
- Financial Stability
- Quality Infrastructure, Amenities, and Services
- Not Applicable

Background: The Utility advertised a Request for Proposals for the Underground Facilities Rehabilitation project and received two proposals. Staff reviewed the proposals and selected Jacobs as the preferred consultant. The project will define alternative designs to address the non-conforming items in the water treatment plant. The WDNR identified seven non-conforming items related to the Chlorine Contact Tank and the clear well. These are problems in the drinking water system with the potential to cause serious health risks or represent long-term health risks to consumers. The process is expected to take 15 months to complete the identification and evaluation of the alternatives.

Options/Alternatives: The Board could choose not to award the design contract at this time.

Respectfully submitted:

Andrew J. Vickers, MPA
City Administrator

Prepared:

Brian L. Johnston, PE
Utility Engineer

Fiscal Review:

Michael J. Sullivan, PE
General Manager

Approved:

Michael J. Sullivan, PE
General Manager

Attachments:



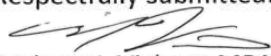
STAFF REPORT

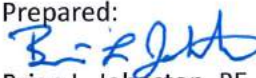
- Item:** Project rejection for the Centennial Sanitary Relay Project
- Recommendation:** That the Board consider a motion to reject all bids for the Centennial Sanitary Relay project. (Project No. 21104) (3rd Aldermanic District)
- Fiscal Impact:** This project was budgeted \$150,000 with the 2021 Capital Improvement Project funding.
- Critical Success Factor(s):**
- Vibrant and Diverse Cultural Opportunities
 - Thoughtful Development and Prosperous Economy
 - Safe, Welcoming, and Engaged Community
 - Inspired, Aligned, and Proactive City Leadership
 - Financial Stability
 - Quality Infrastructure, Amenities, and Services
 - Not Applicable

Background: The proposed project would abandon the existing sanitary sewer manhole on the west side of the drainage and relocate the manhole on the east side of the ditch west of Fire Station No. 1. The existing drainage ditch is eroding the land around the existing manhole structures. Access is an issue to maintain the sewer and potential collapse of the structure. The proposed 8" sanitary would be relayed approximately 60 feet east of the existing east manhole. We have worked with the DNR and ACOE to obtain buy in with the proposed restoration of the stream banks and the permits for the project. The submitted bids are almost triple what the original cost estimate was for the project. The benefit for the relay does not justify the cost at this time.

Bidder	Original Bid
Advance Construction	\$261,270.00
Globe Contractors	\$356,470.00
A.W. Oaks	\$477,000.00

Options/Alternatives: The Board could award to the lowest bidder or request to rebid at a later time.

Respectfully submitted:

 Andrew J. Vickers, MPA
 City Administrator

Prepared:

 Brian L. Johnston, PE
 Utility Engineer

Fiscal Review:

Approved:

Michael J. Sullivan, PE
 General Manager

Michael J. Sullivan, PE
 General Manager

Attachments:

ACCOUNTS PAYABLE SUMMARY

November 2022

Vendor	Description	Dollar Amount
American Waterworks Assoc.	2023 Annual Membership	\$ 2,427.00
Badger Meter Manufacturing	Meters and Meter Parts	2,859.04
Baxter & Woodman	2022 Sanitary Rehab	1,117.50
Cedar Corporation	Tsunami Car Wash	1,557.16
Chase Card Services	Charge Card Invoices	6,961.69
Core & Main LP	Hydrant Parts and Valve Boxes	5,540.02
Corpro Companies	Cathodic Protection Anodes	8,089.48
DLT Solutions, Inc.	2023 AutoCAD License and Maintenance	3,514.50
Ferguson Waterworks	Glow Medallion Repair Parts and Brass Goods	11,346.40
Keller-Heartt Oil	Plant Equipment Oil	2,100.30
Kwik Trip Extended Network	Gas for Truck Fleet	5,173.04
Milwaukee Metropolitan Sewerage District	Metro Bills	48,885.55
Mid City Plumbing & Heating	Tanglewood Valve Repair	6,879.39
Moser, Christopher-Electrotek	Electrotek Bankruptcy Reimbursement	9,608.80
Oak Creek Utility	Utility's Metro Bill	8,744.76
POSM Soft, LLC.	2023 Sewer Televising Software Maintenance Contract	5,500.00
R.A. Smith National	Susan Drive Water Relay, Rawson Ave Water Relay, Oakes at 8100, Broadacre	31,844.25
Revspring, Inc.	Processing of Billing-September	3,166.54
Wisconsin Electric Power Company	Electric/Gas Bills	55,110.54
Subtotal		<u>220,425.96</u>
Remaining Invoices		15,522.53
TOTAL OF ACCOUNTS PAYABLE INVOICES TO BE PAID		<u>\$ 235,948.49</u>

DATE: 11/02/22
 TIME: 10:05:40
 ID: AP441000.WOW

Oak Creek Water & Sewer Utility
 DETAIL BOARD REPORT

INVOICES DUE ON/BEFORE 11/08/2022

INVOICE #	INVOICE DATE	INVOICE ITEM #	DESCRIPTION	ACCOUNT #	P.O. #	PROJECT	DUE DATE	ITEM AMT
01230			ACE HARDWARE-SOUTH MILWAUKEE					
66200	10/19/22	01 02	ADHESIVE	082462602 082664302			10/19/22	14.15 14.14 28.29
			INVOICE TOTAL:					
66203	10/19/22	01 02	DUST CONTROL PLASTIC	082462602 082664302			10/19/22	13.55 13.55 27.10
			INVOICE TOTAL:					
66260	10/19/22	01	RESERVOIR GATE KEYS	082867202			10/19/22	23.20 23.20
			INVOICE TOTAL:					
66315	10/26/22	01	JANAT LED BULBS	082463302			10/26/22	29.08 29.08
			INVOICE TOTAL:					
66343	10/26/22	01 02	ANT KILLER, FOIL, PLANT TOOLS	082462602 082664302			10/26/22	53.71 53.71 107.42
			INVOICE TOTAL:					
66381	11/01/22	01	RESERVOIR GATE KEYS	082867202			11/01/22	17.40 17.40
			INVOICE TOTAL:					
66387	11/01/22	01 02	MISCELLANEOUS SUPPLIES	082462602 082664302			11/01/22	0.76 0.75 1.51
			INVOICE TOTAL:					
66425	11/02/22	01 02	MISCELLANEOUS SUPPLIES	082462602 082664302			11/02/22	94.82 94.82 189.64 423.64
			INVOICE TOTAL:					
			VENDOR TOTAL:					
03650			ALL AMERICAN GASKET					
18011	10/26/22	01	METER PARTS	080234602			10/26/22	414.20 414.20 414.20
			INVOICE TOTAL:					
			VENDOR TOTAL:					

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06250	AMERICAN INDUSTRIAL								
2022-11		11/02/22	01	RUG/COVERALL CLEANING SERVICES	082462602			11/02/22	133.29
			02		082664302				133.29
			03		082866202				304.38
			04		092882702				76.10
									647.06
									647.06
07500	AMERICAN WATERWORKS ASSOC.								
S06441		10/26/22	01	ANNUAL MEMBERSHIP	083293002			10/26/22	2,427.00
									2,427.00
									2,427.00
11250	BADGER METER MANUFACTURING								
1535959		11/01/22	01	METERS	080234600			11/01/22	349.12
									349.12
1536940		11/01/22	01	METER REPAIR PARTS	080234600			11/01/22	2,509.92
									2,509.92
									2,859.04
11640	CHASE CARD SERVICES								
2022-11-DA		11/01/22	01	ALLARD-TRUCK PARTS, DNR	083693302			11/01/22	346.34
			02	LICENSE-STRUEBING	083292602				32.13
			03		093285402				13.77
									392.24
2022-11-DN		11/01/22	01	NIEMI-WIRING CONNECTOR,	080122106			11/01/22	170.96
			02	TELEPHONE REPLACEMENT, FIBER	080174600				619.72
			03	PROJECT, CABLES, MONITORS	082866202				25.83
			04		083293002				1,242.50
			05		092882702				11.07

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11640			CHASE CARD SERVICES					
2022-11-DN	11/01/22	06		093285602			11/01/22	532.49
							INVOICE TOTAL:	2,602.57
2022-11-MR	11/02/22	01	ROBE-GLOVES, WEATHER BOX,	082462602			11/02/22	274.64
		02	SHIPPING, LAB SUPPLIES, HATCH	082463102				24.81
		03	PIT SWITCH, KATHABAR OIL,	082463302				108.62
		04	CLEANING SUPPLIES, POWER	082664202				296.92
		05	WASHER, LED BULBS, FLAME	082664302				295.67
		06	SENSOR	082665102				24.80
		07		082665202				67.49
							INVOICE TOTAL:	1,092.95
2022-11-MS	11/01/22	01	SULLIVAN-SCADA REPLACEMENT	082462602			11/01/22	507.46
		02	PARTS, CONFERENCE REG	082664302				507.45
		03		082462602				322.59
		04		082664302				322.58
		05		083292602				70.00
		06		093285402				30.00
							INVOICE TOTAL:	1,760.08
2022-11-NB	11/01/22	01	BUTLER-PHONE & INTERNET	082260302			11/01/22	15.00
		02	CHARGES	082462402				15.00
		03		082462602				163.35
		04		082664302				163.34
		05		082866202				25.00
		06		082866222				8.05
		07		082866502				28.37
		08		083292102				392.35
		09		083292102				20.99
		10		083841622				16.09
		11		092882002				25.00
		12		092882022				8.05
		13		092882702				77.55
		14		093285102				155.71
							INVOICE TOTAL:	1,113.85
							VENDOR TOTAL:	6,961.69

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Oak Creek Water & Sewer Utility
 DETAIL BOARD REPORT

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INVOICE #	INVOICE DATE	ITEM #	DESCRIPTION	ACCOUNT #	P.O. #	PROJECT	DUE DATE	ITEM AMT
12252			BATTERIES PLUS LLC					
P55636971	10/26/22	01	LAB INSTRUMENT BATTERIES	082664302			10/26/22	13.30
							INVOICE TOTAL:	13.30
P55833806	10/19/22	01	ALARM SYSTEM BATTERIES	082462602			10/19/22	13.77
		02		082664302				13.76
							INVOICE TOTAL:	27.53
P56037738	10/27/22	01	TOWER UPS BATTERIES	082867202			10/27/22	70.18
							INVOICE TOTAL:	70.18
							VENDOR TOTAL:	111.01
12258			BAXTER & WOODMAN					
238740	10/19/22	01	2022 SANITARY SEWER REHAB	090122103			10/19/22	1,117.50
							INVOICE TOTAL:	1,117.50
							VENDOR TOTAL:	1,117.50
13750			BLIFFERT LUMBER					
2210-510373	10/19/22	01	MAIN BREAK SUPPLIES	082867302			10/19/22	164.60
							INVOICE TOTAL:	164.60
							VENDOR TOTAL:	164.60
16455			VICTOR CARATINI					
2022-11	DOUBLE PAYME	11/01/22	01	CUST REIMB-DOUBLE PAYMENT	082046110		11/01/22	124.29
							INVOICE TOTAL:	124.29
							VENDOR TOTAL:	124.29
16476			CEDAR CORPORATION					
113161	11/01/22	01	TSUNAMI CAR WASH	090122057			11/01/22	1,557.16
							INVOICE TOTAL:	1,557.16
							VENDOR TOTAL:	1,557.16

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INVOICE #	INVOICE DATE	ITEM #	DESCRIPTION	ACCOUNT #	P.O. #	PROJECT	DUE DATE	ITEM AMT
43075	FIRST SUPPLY LLC							
13432782-00	10/26/22	01	JANAY VALVE FLANGE GASKETS	082463302			10/26/22	36.76
							INVOICE TOTAL:	36.76
							VENDOR TOTAL:	36.76
43152	FLAG CENTER							
109163-IN	10/19/22	01	RESERVOIR FLAG ROPE	082867202			10/19/22	51.30
							INVOICE TOTAL:	51.30
							VENDOR TOTAL:	51.30
46975	WW GRAINGER INC.							
9482350148	10/26/22	01	TRUCK REPAIR PARTS	083693302			10/26/22	56.14
							INVOICE TOTAL:	56.14
9493468566	11/01/22	01	TRASH CAN LINERS	082462602			11/01/22	24.96
		02		082664302				24.96
							INVOICE TOTAL:	49.92
							VENDOR TOTAL:	106.06
46912	GFL ENVIRONMENTAL							
U80000180977	10/26/22	01	PLANT DUMPSTER	083292302			10/26/22	213.07
							INVOICE TOTAL:	213.07
							VENDOR TOTAL:	213.07
55350	IDEXX DISTRIBUTION CORP.							
3115604645	10/19/22	01	LAB SUPPLIES	082664202			10/19/22	61.65
							INVOICE TOTAL:	61.65
							VENDOR TOTAL:	61.65
56561	JOHNSON SAND & GRAVEL INC.							
94393	10/19/22	01	SAND-WATER MAIN BREAK	082867302			10/19/22	685.73
							INVOICE TOTAL:	685.73
							VENDOR TOTAL:	685.73

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56563			JOHNSTONE SUPPLY					
3158220	10/26/22	01	HANGING HEATER FLAME SENSOR	082462602			10/26/22	18.75
		02		082664302				18.75
								37.50
								37.50
56860			KELLER-HEARTT OIL					
422880-IN	11/02/22	01	EQUIPMENT OIL-PLANT	082462602			11/02/22	1,069.05
								1,069.05
422881-IN	11/02/22	01	EQUIPMENT OIL-PLANT	082462602			11/02/22	1,031.25
								1,031.25
								2,100.30
58150			KWIK TRIP EXTENDED NETWORK					
NP63151930	11/01/22	01	TRUCK FLEET GAS	083693302			11/01/22	5,173.04
								5,173.04
								5,173.04
62501			LINCOLN CONTRACTORS SUPPLY					
121933	11/01/22	01	JACKHAMMER PARTS	082866202			11/01/22	20.65
		02		092882702				8.85
								29.50
								29.50
64825			MASIK TOOL & DIE CORP					
21051	10/26/22	01	SILUDGE PUMP SHAFT, HYDRANT	082665202			10/26/22	320.00
		02	SHAFT	082867702				675.00
								995.00
								995.00
65454			MAUGHAN, RYAN					

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Oak Creek Water & Sewer Utility
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INVOICE #	VENDOR #	INVOICE DATE	ITEM #	DESCRIPTION	ACCOUNT #	P.O. #	PROJECT	DUE DATE	ITEM AMT
65611	MENARDS								
50492		11/01/22	01	WM RIVER CROSSING CHECK PARTS	082866202			11/01/22	129.32
								INVOICE TOTAL:	129.32
50689		11/01/22	01	SHOP SUPPLIES, TOOLS, GROUT	082866202			11/01/22	109.79
			02		092882702				47.05
								INVOICE TOTAL:	156.84
50804		11/02/22	01	LEG PINS	082462602			11/02/22	5.56
			02		082664302				5.56
								INVOICE TOTAL:	11.12
								VENDOR TOTAL:	428.25
65625	MILWAUKEE METRO. SEWERAGE DIST								
234-22		10/26/22	01	METRO BILL	091023202			10/26/22	48,885.55
								INVOICE TOTAL:	48,885.55
								VENDOR TOTAL:	48,885.55
65670	MID CITY PLUMBING & HEATING								
95855		11/01/22	01	TANGLEWOOD VALVE REPAIR	082867702			11/01/22	6,879.39
								INVOICE TOTAL:	6,879.39
								VENDOR TOTAL:	6,879.39
67267	CHRISTOPHER MOSER, PLAN AGENT								
2022-11	CUST REIMB	11/02/22	01	CUST REIMB-ELECTROTEK	082046110			11/02/22	9,608.80
								INVOICE TOTAL:	9,608.80
								VENDOR TOTAL:	9,608.80
70020	NAPA AUTO PARTS								
431982		10/19/22	01	TRUCK PARTS	083693302			10/19/22	74.97
								INVOICE TOTAL:	74.97

DATE: 11/02/22
 TIME: 10:05:40
 ID: AP441000.WOW

Oak Creek Water & Sewer Utility
 DETAIL BOARD REPORT

INVOICES DUE ON/BEFORE 11/08/2022

INVOICE #	INVOICE DATE	ITEM #	DESCRIPTION	ACCOUNT #	P.O. #	PROJECT	DUE DATE	ITEM AMT
70020			NAPA AUTO PARTS					
435009	11/01/22	01	WIPER BLADES	083693302			11/01/22	34.20
							INVOICE TOTAL:	34.20
435712	11/01/22	01	MISC. MATERIALS	083693302			11/01/22	97.99
							INVOICE TOTAL:	97.99
							VENDOR TOTAL:	207.16
70557			NORTHERN LAKE SERVICE INC.					
427940	10/26/22	01	WATER TESTS	082664202			10/26/22	79.80
							INVOICE TOTAL:	79.80
428113	10/26/22	01	WATER TESTS	082664202			10/26/22	65.43
							INVOICE TOTAL:	65.43
428342	11/01/22	01	WATER TESTS	082664202			11/01/22	309.76
							INVOICE TOTAL:	309.76
							VENDOR TOTAL:	454.99
72570			OAK CREEK UTILITY					
2022-11	10/26/22	01	UTILITY'S METRO BILL	082664202			10/26/22	8,744.76
							INVOICE TOTAL:	8,744.76
							VENDOR TOTAL:	8,744.76
73762			POSM SOFT LLC					
2022-2983	11/01/22	01	SEWER TELEVISION SOFTWARE~	093285202			11/01/22	5,500.00
		02	YEARLY MAINTENANCE CONTRACT					
							INVOICE TOTAL:	5,500.00
							VENDOR TOTAL:	5,500.00
73790			WINDSTREAM ENTERPRISE					
75219375	11/02/22	01	LONG DISTANCE CHRGES: PLT/DIST	082462602			11/02/22	13.98

** COMMENT **

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Oak Creek Water & Sewer Utility
 DETAIL BOARD REPORT

INVOICES DUE ON/BEFORE 11/08/2022

INVOICE #	INVOICE DATE	INVOICE ITEM #	DESCRIPTION	ACCOUNT #	P.O. #	PROJECT	DUE DATE	ITEM AMT
76862	REVSPRING INC.							
INV1317375	10/19/22	01	PROCESSING OF BILLING-SEPT	083090302			10/19/22	2,216.58
		02		093084002				949.96
								3,166.54
								3,166.54
81000	FULL CYCLE ENTERPRISES, LLC							
105196	10/19/22	01	RESTORATION	082867302			10/19/22	280.00
								280.00
								280.00
82879	STAPLES BUSINESS ADVANTAGE							
3518952915	10/19/22	01	OFFICE SUPPLIES	083292102			10/19/22	8.55
		02		093285102				3.66
								12.21
3519769666	10/19/22	01	OFFICE SUPPLIES	083292102			10/19/22	27.13
		02		093285102				11.62
								38.75
3519977891	10/19/22	01	PLANT TONER	083292102			10/19/22	381.67
								381.67
352011816	10/19/22	01	OFFICE SUPPLIES	083292102			10/19/22	35.50
		02		093285102				2.64
								38.14
3520943781	11/01/22	01	OFFICE SUPPLIES, SEWER CAMERA	083292102			11/01/22	10.17
		02	TONER	093285102				4.36
		03		093285102				167.36
								181.89
								652.66
83010	STRAND ASSOCIATES, INC.							

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 TIME: 10:05:40
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Oak Creek Water & Sewer Utility
 DETAIL BOARD REPORT

INVOICES DUE ON/BEFORE 11/08/2022

INVOICE #	INVOICE DATE	INVOICE ITEM #	DESCRIPTION	ACCOUNT #	P.O. #	PROJECT	DUE DATE	ITEM AMT
83010			STRAND ASSOCIATES, INC.					
188966	10/19/22	01	SERVICE AGREEMENT REVIEW	083292302			10/19/22	464.37
							INVOICE TOTAL:	464.37
							VENDOR TOTAL:	464.37
84000			SUPERIOR CHEMICAL					
347804	11/01/22	01	NITRILE GLOVES	083292102			11/01/22	263.26
		02		093285102				112.82
							INVOICE TOTAL:	376.08
							VENDOR TOTAL:	376.08
87556			THE RECYCLING CENTER &					
8102	10/19/22	01	CRUSHED ROCK-WM BREAK REPAIR	082867302			10/19/22	2,048.96
							INVOICE TOTAL:	2,048.96
							VENDOR TOTAL:	2,048.96
93100			USA BLUE BOOK					
134768	10/19/22	01	LAB CHEMICALS, GLASSWARE	082664102			10/19/22	224.00
		02	BRUSHES	082664202				125.88
							INVOICE TOTAL:	349.88
136238	10/19/22	01	LAB SUPPLIES	082664202			10/19/22	76.31
							INVOICE TOTAL:	76.31
143644	10/19/22	01	WATER MAIN SCRAPER, METAL	082866202			10/19/22	614.98
		02	DETECTOR	082867302				614.97
							INVOICE TOTAL:	1,229.95
							VENDOR TOTAL:	1,656.14
93593			WADE, MICHAEL					
2022-SAFETY BOOTS	11/01/22	01	REIMB-SAFETY BOOTS	083292602			11/01/22	120.08

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Oak Creek Water & Sewer Utility
 DETAIL BOARD REPORT

INVOICES DUE ON/BEFORE 11/08/2022

INVOICE #	INVOICE DATE	INVOICE ITEM #	DESCRIPTION	ACCOUNT #	P.O. #	PROJECT	DUE DATE	ITEM AMT
93593	WADE, MICHAEL							
2022-SAFETY BOOTS	11/01/22	02		093285402			11/01/22	51.46
							INVOICE TOTAL:	171.54
							VENDOR TOTAL:	171.54
96250	WISCONSIN ELECTRIC POWER COMP.							
2022-11-01-E	10/19/22	01	ELECTRIC/GAS BILLS	082462302			10/19/22	35,886.50
		02		082462602				3,807.40
		03		082664202				1,970.50
		04		082664302				4,926.14
							INVOICE TOTAL:	46,590.54
2022-11-04-E	10/19/22	01	ELECTRIC/GAS BILLS	082462302			10/19/22	6,129.40
		02		082462602				28.61
		03		082866102				27.16
		04		092482102				147.59
							INVOICE TOTAL:	6,332.76
2022-11-10-G	10/26/22	01	ELECTRIC/GAS BILLS	082462602			10/26/22	904.09
		02		082664202				1,082.43
		03		082664302				50.18
		04		082866102				50.18
		05		082866502				50.18
		06		083292102				50.18
							INVOICE TOTAL:	2,187.24
							VENDOR TOTAL:	55,110.54
97751	WI STATE LABORATORY OF HYGIENE							
724282	10/19/22	01	FLUORIDE SAMPLES	082664202			10/19/22	26.00
							INVOICE TOTAL:	26.00
							VENDOR TOTAL:	26.00
							TOTAL ALL INVOICES:	235,948.49

ADMINISTRATIVE OPERATIONS

October 2022

Workload:

Other administrative tasks included the following:

- Added 4 customer accounts for the month.
- Billed 935 water customers and 961 sewer customers.

Gallons Billed (in thousands):

	YTD 2022	YTD 2021	YTD 2020	YTD 2019	YTD 2018	Average
Residential	341,934	361,863	353,641	324,288	334,776	343,300
Commercial	422,193	424,013	398,284	386,659	383,762	402,982
Industrial	519,602	452,733	412,400	434,094	435,673	450,900
Public Authority	13,942	10,180	8,284	9,443	9,944	10,359
Wholesale	1,150,080	1,174,255	1,131,589	1,066,464	1,041,948	1,112,867
Total	2,447,751	2,423,044	2,304,198	2,220,948	2,206,103	2,320,408
% Change to Prior Year	1.0%	5.2%	3.7%	0.7%	N/A	
% Change to Average	5.5%	4.4%	-0.7%	-4.3%	-4.9%	

New Customers:

	YTD 2022	YTD 2021	YTD 2020	YTD 2019	YTD 2018	Average
Residential	24	66	43	18	24	35.0
Commercial	13	7	15	9	17	12.2
Industrial	0	0	0	0	0	-
Public Authority	0	0	3	0	1	0.8
Wholesale	0	0	0	0	0	-
Total	37	73	61	27	42	48.0

ENGINEERING OPERATIONS

October 2022

2022 Sanitary Rehabilitation

Visu-sewer will be back in November to test and grout the lateral connections.

Susan Water Relay

Globe will start construction on the Susan water relay project in the spring of 2023.

Forest Hill Manor Water Relay

Willkomm will start construction on the Forest Hill Manor water relay project in the spring of 2023.

Howell Avenue Water Relay

A.W. Oaks will start construction on the Howell Avenue water relay project in the spring of 2023.

PLC Replacement at the WTP

Next Electric had the last of the parts for the project delivered to the plant. These parts were not expected to be delivered until next March. Jacobs is working on adjusting their schedule to start on the programming of the new PLC's. We expect this work to commence in December.

Developer projects

- Residences at Oak View Condos - Punch list items remain.
- Oakes at 8100 - Punch list items remain.
- Peak Car Wash - Private sanitary connection made and the DNR approved the public water plans.
- Broadacre - Debelak has completed 90% of the public water main construction. Private interceptor sanitary construction started.
- Lakeshore Commons - Punch list items remain.
- Stonebrook - Engineer submitted plans for review comments.

DISTRIBUTION & COLLECTION OPERATIONS

October 2022

Water Main Breaks:

A small leak was reported on S. Wayland Dr. in the vicinity of a leak earlier in the year. We exposed the existing repair and it is leaking from a different location. Repair will take place in early November.

Water Lateral Repairs:

There were no laterals repaired in the month of October.

Hydrant Repairs/Maintenance:

Maintenance of broken hydrants continued.

Semi-annual dead end hydrants were flushed.

Winterization of hydrants has begun.

Valve Repairs:

No valves were repaired in the month of October.

Sewer Repairs/Maintenance:

Workers continued with sewer cleaning and televising.

Miscellaneous:

Work continued on isolating pressure on the 30" watermain on Howell & Puetz in preparation to make a repair on a leak there once parts arrive.

Utility workers attended the Greenfield Expo Show.

Out of Service:

There are currently three fire hydrants out of service in need of repair. There are currently 41 valves jammed open in need of repair.

DISTRIBUTION GOALS 2022

JOB DESCRIPTION	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTALS	GOALS
Meters														
Meter Exchanges	12	16	120	142	65	85	37	11	1	1			490	600
Cross Connection Inspections	-	6	109	137	66	87	44	13	4	4			470	300
Industrial Inspections	32	25	45	59	34	40	38	17	54	66			410	420
Water														
Annual Hydrant Flushing	-	-	-	375	1,017	-	1	1	250	6			1,650	2,259
Semi-annual Flushing	-	-	-	19	60	-	25	-	2	103			209	2x109 (218)
Quarterly Flushing	-	-	-	45	5	-	49	-	-	51			150	4x49 (196)
Flush Emergency Connections	-	-	-	-	-	-	-	-	-	-			-	3
Watermain Crossings	63	-	-	-	-	-	-	-	-	-			63	63
Operate Valves	-	-	-	-	1	200	242	41	-	-			484	1,000
Hydrant Painting	-	-	-	-	-	-	53	28	-	-			81	150
Cathodic Protection Tests	-	-	-	-	-	-	-	-	11	-			11	11
Check Remote Water Mains	-	-	-	-	-	-	-	-	-	-			-	28
Sewer														
Clean Sewers	4,545	10,042	45,233	21,368	23,300	14,033	4,859	16,352	18,306	26,697			184,735	185,000
Camera Sewers	4,903	17,900	47,226	13,688	27,100	20,735	10,265	14,630	7,480	24,082			188,009	185,000
Check Problem Sewers	88	-	-	88	-	-	91	-	22	72			361	308
Check Remote Sewer Mains	-	-	-	-	-	-	-	-	-	-			-	42
Admin														
Tier II Report	Done													
MMSD Annual CMOM Report					Done									
DNR eCMAR					Done									
DNR River Crossing Stations										Done				
Cross Connection Survey		Done												

PLANT OPERATIONS

October 2022

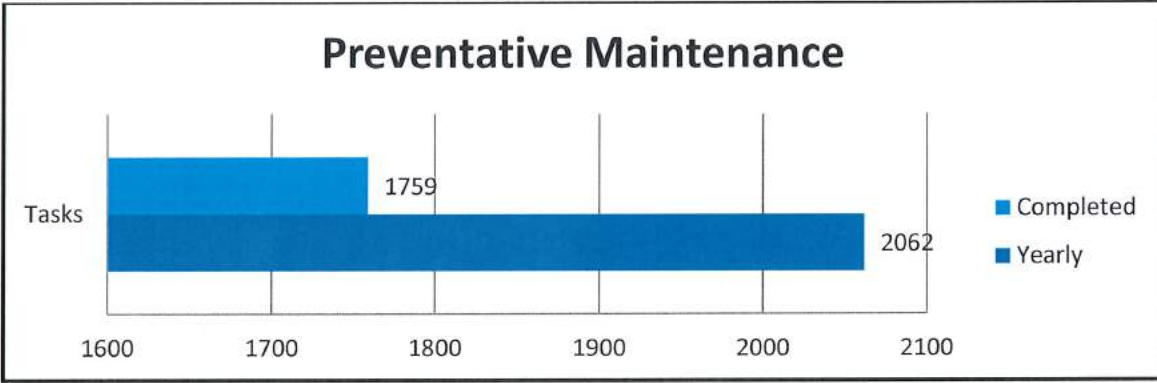
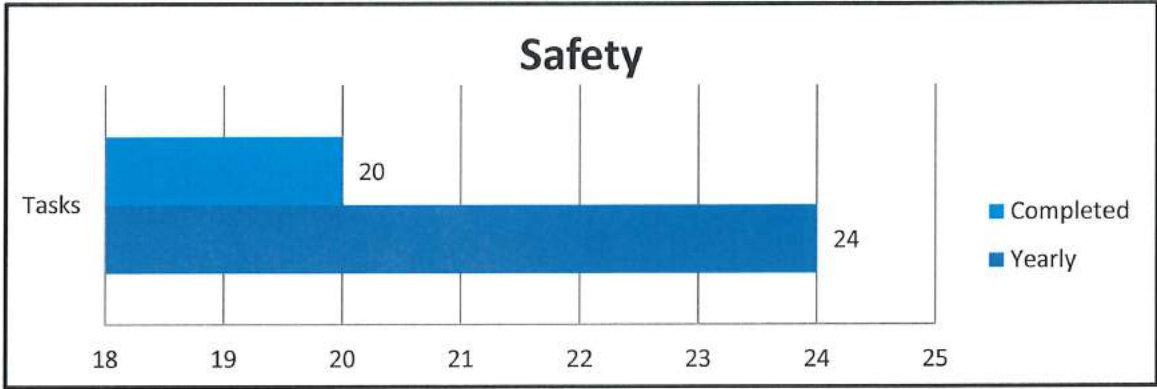
PUMPAGE REPORT	2022	2021	% Change	5 Year %
Monthly Pumpage	248,710,000	240,830,000	+9.7	+9.3
Monthly Average Day	8,022,903	7,768,710	+9.7	+9.3
Monthly Peak Day	(10/3) 11,640,000	(10/27)10,490,000	+9.0	+8.2
Yearly Pumpage	2,546,844,782	2,507,500,504	+9.8	+9.3
Yearly Average Day	8,377,779	8,248,356	+9.8	+9.3
Yearly Peak Day	(8/06) 13,400,000	(8/16) 13,740,000	-2.5	+9.0
West Zone Pumpage	105,910,000	99,640,000	+9.4	+9.8
West Zone Yearly Total	1,099,840,000	1,138,362,000	-3.5	+9.8

WATER QUALITY REPORT	Raw Water	Finished Water
Average Free Chlorine		1.57 mg/l
Total Chlorine		1.75 mg/l
Average Alkalinity	108.9 mg/l	110.4 mg/l
Average pH	8.35	8.16
Average Fluoride	0.16 mg/l	0.71 mg/l
Average Turbidity	2.88 NTU	0.04 NTU
High Temperature	High 63.6 F Low 53.4 F	
Hardness	120 mg/l	137 mg/l

Preventative Maintenance Tasks: Staff completed 167 preventative maintenance tasks and 2 safety sessions during the month.

Work Orders: Staff completed 9 work orders during the month. Some of the tasks include replacing a control valve on Janat booster pump 1, repairing hanging heaters, removing a concrete pump base, and replacing highlift pump 3 lantern ring and packing.

Plant: Plant Manager Robe worked on budgetary items for 2023. Franklin High School AP Environmental Science students toured the plant on October 26th – 27th. Operators Ludke, Thorgaard, and Plant Manager Robe provided the tours. Dan Niemi has been working hard on the ground work for the new phone system and fiber connections. Fiber installation contractors have removed their equipment from the plant yard and completed grounds restoration. Contractor work on sludge pump replacement continues and should be completed early November.



WATER & SEWER UTILITY 2023 CAPITAL BUDGET

			<u>Total</u>	<u>Water</u>	<u>Sewer</u>
Distribution	23101	Meter Exchange	105,000	105,000	-
	23102	Truck Replacement	55,000	49,500	5,500
	22112	1.5 Ton Dump Truck	20,000	18,000	2,000
	23103	Cross Connection Control Software	10,000	10,000	-
	21111	Sewer Cleaner/Hydro-Excavator Truck	190,000	19,000	171,000
		Subtotal	380,000	201,500	178,500
Treatment Plant	23104	Low Lift Pump 4 Check Valve	16,000	16,000	-
	23105	Low Lift Shorewell Cleaning	15,000	15,000	-
	23106	Chlorine Contact Tank Inspection And Engineering Review	20,000	20,000	-
	23107	Replacement of Two Chlorine Feed Pumps	15,000	15,000	-
	23108	Repair of Filter 7 and 8 Corner Cracking	12,500	12,500	-
	23109	HVAC Replacement at the Water Treatment Plant	325,000	325,000	-
	23110	Autoclave Replacement	16,000	16,000	-
		Subtotal	419,500	419,500	-
Projects	23111	E. Forest Hill Avenue Water Main Replacment	275,000	275,000	-
	22108	W. Rawson Ave Water Main Spot Replacement & Hyd. Relocation	700,000	670,000	30,000
	23112	6th Street and Marquette Avenue Water Main Design	350,000	350,000	-
	23113	13th Street (Drexel to Puetz) Hyd Relocation and Manhole Adj.	200,000	170,000	30,000
	23114	Security and Access Control Replacement (Plant & HQ)	150,000	120,000	30,000
	23115	Remote Station Radio Replacement	100,000	70,000	30,000
	23116	Sanitary Lining Large Mains	750,000	-	750,000
	23117	Sanitary Model Update and System Plans	50,000	-	50,000
	22118	Underground Facilities Rehabilitation (UFR) Project	5,000,000	5,000,000	-
		Subtotal	7,575,000	6,655,000	920,000
TOTAL			8,374,500	7,276,000	1,098,500

Five Year History

<u>Year</u>	<u>Total</u>	<u>Water</u>	<u>Sewer</u>
2022	3,713,500	2,908,100	805,400
2021	3,988,000	3,015,000	973,000
2020	7,752,000	6,739,100	1,012,900
2019	2,411,466	2,052,866	358,600
2018	8,309,087	7,161,102	1,147,985



2023 CAPITAL IMPROVEMENT/EQUIPMENT PROGRAM (CIP/CEP)

Department: Water & Sewer Utility (Distribution)	Contact Person: Darrin Allard, Distribution Manager
Request Title: Meter Exchange	
General Description: Water meters are replaced as scheduled	
Justification and Intent: Meters need to be replaced before their life cycle is met.	
Description of Alternatives: None per the PSC. Meters are required to be replaced on a 20-year cycle.	
Description of Disposal, if Applicable: Old meters are torn apart and scrapped	
Impact on other Projects: None	
Cost Analysis: (Quotes, estimates, breakdown of potential cost and how you arrived here) \$105,000 for 450 meters and reading heads at \$231.75 per unit.	
Annual Impact on Operating Budget: (Will we have an additional reoccurring operating cost?) None	



2023 CAPITAL IMPROVEMENT/EQUIPMENT PROGRAM (CIP/CEP)

Department: Water & Sewer Utility (Distribution)	Contact Person: Darrin Allard, Distribution Manager
Request Title: Truck Replacement	
General Description: Replace one pickup truck that is used as general purpose in the fleet	
Justification and Intent: This 2011 model is due for replacement based on our vehicle replacement policy	
Description of Alternatives: Let the vehicle keep getting older and in need of more repairs	
Description of Disposal, if Applicable: The vehicle will either be traded in or sold at auction	
Impact on other Projects: None	
Cost Analysis: (Quotes, estimates, breakdown of potential cost and how you arrived here) \$55,000 to purchase a similar vehicle due for replacement	
Annual Impact on Operating Budget: (Will we have an additional reoccurring operating cost?) None	



2023 CAPITAL IMPROVEMENT/EQUIPMENT PROGRAM (CIP/CEP)

Department: Water & Sewer Utility (Distribution)	Contact Person: Darrin Allard, Distribution Manager
Request Title: 1.5 Ton Dump Truck Replacement	
General Description: The dump truck is over 20 years old and is in need of replacement. It is used on all excavations and most restoration projects.	
Justification and Intent: The dump body, hydraulics and chassis are all in need of repair. The engine and hydraulic systems have leaks.	
Description of Alternatives: Spend roughly \$25,000 or more to make the systems function properly again and fix rust/rot issues.	
Description of Disposal, if Applicable: Vehicle will be traded in or sold at auction with anticipated value of \$5,000	
Impact on other Projects: None	
Cost Analysis: (Quotes, estimates, breakdown of potential cost and how you arrived here) \$20,000 additional to the \$70,000 already budgeted in 2022.	
Annual Impact on Operating Budget: (Will we have an additional reoccurring operating cost?) None	



2023 CAPITAL IMPROVEMENT/EQUIPMENT PROGRAM (CIP/CEP)

Department: Water & Sewer Utility (Distribution)	Contact Person: Darrin Allard, Distribution Manager
Request Title: Cross Connection Control Software	
General Description: Our current software will no longer be supported in the near future. We would like to purchase a new one that comes with support.	
Justification and Intent: When we purchased new billing software, we opted to not take the cross connection software that was offered so that we can order the one that fits our needs better.	
Description of Alternatives: Continue using the existing software in hopes we don't need support.	
Description of Disposal, if Applicable: N/A	
Impact on other Projects: None	
Cost Analysis: (Quotes, estimates, breakdown of potential cost and how you arrived here) \$10,000 for software, training, first year support and a data collection device.	
Annual Impact on Operating Budget: (Will we have an additional reoccurring operating cost?) \$1,200 annual fee for support.	



2023 CAPITAL IMPROVEMENT/EQUIPMENT PROGRAM (CIP/CEP)

Department: Water & Sewer Utility (Distribution)	Contact Person: Darrin Allard, Distribution Manager
Request Title: Sewer cleaner/hydro-excavator truck (reserve fund)	
General Description: Add funds for the anticipated replacement of the Vac-Con in 2024. The truck will have 9,500 hours on it at the time of replacement, which is the equivalent of over 525,000 miles.	
Justification and Intent: To replace the 2014 model Freightliner when it is roughly 10 years old	
Description of Alternatives: Budget the money all in the same year	
Description of Disposal, if Applicable: Vehicle will be traded in or sold at auction for an anticipated \$75,000	
Impact on other Projects: None	
Cost Analysis: (Quotes, estimates, breakdown of potential cost and how you arrived here) \$190,000 towards the anticipated \$500,000 replacement cost. The reserve fund currently has \$210,000.	
Annual Impact on Operating Budget: (Will we have an additional reoccurring operating cost?) None	



2023 CAPITAL IMPROVEMENT/EQUIPMENT PROGRAM (CIP/CEP)

Department: Water and Sewer Utility (Treatment Plant)	Contact Person: Mike Robe, Treatment Plant Manager
Request Title: Low Lift Pump 4 Check Valve Replacement	
General Description: Replacement of the 16" Check Vale on low lift pump four.	
Justification and Intent: The check valve on low lift pump number four is worn out and at the end of its useful life. The valve has been in service for over 15 years and rebuilding efforts in 2022 were unsuccessful. The current condition of this check valve leaves our largest low lift pump in a use only in emergency status. The original valve was not recommended for this application, installing the correct valve for the application should provide a longer life span on the new check valve.	
Description of Alternatives: Run the pump until it the check valve fails then have an emergency repair.	
Description of Disposal, if Applicable: Included in cost	
Impact on other Projects: Completion of this replacement will allow us to explore repair options on low lift pump eight.	
Cost Analysis: (Quotes, estimates, breakdown of potential cost and how you arrived here) \$16,000 is the quoted cost of the new direct replacement check valve, installation, and freight. This price reflects a \$3,000 credit from 2022 repairs on this valve.	
Annual Impact on Operating Budget: (Will we have an additional reoccurring operating cost?) No reoccurring cost.	



2023 CAPITAL IMPROVEMENT/EQUIPMENT PROGRAM (CIP/CEP)

Department: Water and Sewer Utility (Treatment Plant)	Contact Person: Mike Robe, Treatment Plant Manager
Request Title: Cleaning of the Shorewell	
General Description: Complete vacuuming of silt that has accumulated in the low lift shorewell	
Justification and Intent: The low lift shorewell has not been cleaned of silt in over 25 years. The silt has accumulated to five feet in some areas of the basin. This silt is stirred up upon pump starts and affects the raw water turbidity. Removal of this silt would improve water quality by improving turbidity and removing any contaminants that are holding in the aged silt. A cleaned shorewell will also allow staff to inspect the basin for any cracking or defects.	
Description of Alternatives: Do nothing and continue to have turbidity spikes at pump start up.	
Description of Disposal, if Applicable: Included in cost	
Impact on other Projects: None	
Cost Analysis: (Quotes, estimates, breakdown of potential cost and how you arrived here) \$15,000 is the estimated cost of having a vac truck remove all the silt from the shorewell basin. The silt will be dumped at the headquarters dump station and dewatered to save disposal cost.	
Annual Impact on Operating Budget: (Will we have an additional reoccurring operating cost?) No reoccurring cost.	

2023 CAPITAL IMPROVEMENT/EQUIPMENT PROGRAM (CIP/CEP)





2023 CAPITAL IMPROVEMENT/EQUIPMENT PROGRAM (CIP/CEP)

Department: Water and Sewer Utility (Treatment Plant)	Contact Person: Mike Robe, Treatment Plant Manager
Request Title: Chlorine Contact Tank Inspection and Engineering Review	
General Description: Diver video inspection of the chlorine contact chamber with and engineer review	
Justification and Intent: It is recommended that the underground chlorine contact chamber be inspected every two years. The integrity of the tank needs to be inspected to assure the underground basin is sound and free of leaks. A diver inspection is required due to our inability to take the basin offline long enough to drain. To verify the divers report, a structural engineer will be hired to observe the dive and review the video of the inspection and complete their own report.	
Description of Alternatives: No Alternative	
Description of Disposal, if Applicable: Included in cost	
Impact on other Projects: None	
Cost Analysis: (Quotes, estimates, breakdown of potential cost and how you arrived here) \$20,000 is the estimated cost of having a certified dive crew inspect and video the inside of the basin. This cost also includes an engineer review and report of the divers' findings. This estimate is based on the cost of the same procedure in 2021.	
Annual Impact on Operating Budget: (Will we have an additional reoccurring operating cost?) No reoccurring cost.	



2023 CAPITAL IMPROVEMENT/EQUIPMENT PROGRAM (CIP/CEP)

Department: Water and Sewer Utility (Treatment Plant)	Contact Person: Mike Robe, Treatment Plant Manager
Request Title: Replacement of Two Chlorine Feed Pumps	
General Description: Replacing two of the current chlorine diaphragm pumps with peristaltic pumps.	
Justification and Intent: The current chlorine feed pumps are over 20 years old and are nearing the end of their useful life. These are diaphragm pumps and have many of ancillary parts. These parts are costly and need frequent replacement and maintenance. The new peristaltic pumps do not require any ancillary parts to perform pumping operations. The new pumps will eliminate check valve plugging, off gassing and increasing maintenance.	
Description of Alternatives: Continue with current pumps and costly maintenance.	
Description of Disposal, if Applicable: Included in cost	
Impact on other Projects: None	
Cost Analysis: (Quotes, estimates, breakdown of potential cost and how you arrived here) \$15,000 is the estimated cost of a pump trial, replacement of two chlorine feed pumps, start up and programming. If the pumps perform as anticipated, the other chemical feed pumps will be looked at for replacement in the future.	
Annual Impact on Operating Budget: (Will we have an additional reoccurring operating cost?) No reoccurring cost.	

2023 CAPITAL IMPROVEMENT/EQUIPMENT PROGRAM (CIP/CEP)

Department: Water and Sewer Utility (Treatment Plant)	Contact Person: Mike Robe, Treatment Plant Manager
Request Title: Repair of Filter 7 and 8 Corner Cracking	
General Description: Repair cracks at the plant expansion joint in filters seven and eight	
Justification and Intent: The filter room has settled since the expansion of filters 7-10. Due to this settling the corners of filters seven and eight have developed cracks. If left as is, the cracks could potentially get larger and allow water to infiltrate the filter bed. A flexible sealing system has been determined to be the best option as it will flex with the movement of the filter room.	
Description of Alternatives: Let the cracks continue to widen leading to leakage or infiltration.	
Description of Disposal, if Applicable: Included in cost	
Impact on other Projects: None	
Cost Analysis: (Quotes, estimates, breakdown of potential cost and how you arrived here) \$12,500 is the estimated cost of the material and labor required to repair the cracks in the two filters. Finding contractors that perform this work proved to be very difficult and only one contractor came to look at this repair.	
Annual Impact on Operating Budget: (Will we have an additional reoccurring operating cost?) No reoccurring cost.	





2023 CAPITAL IMPROVEMENT/EQUIPMENT PROGRAM (CIP/CEP)

Department: Water & Sewer Utility (Engineering)	Contact Person: Brian Johnston, Utility Engineer
Request Title: HVAC replacement at the Water Treatment Plant	
General Description: Design and replacement of the existing HVAC system with a new air handling unit	
Justification and Intent: <p>The existing system was installed in 1977 when the facility was constructed. Several modifications and additions to the building have changed the needs and efficiency of the HVAC system. In February Clark Dietz completed an assessment of the HVAC system and recommends a complete replacement of the system along with a new air handling unit. This will allow the system to be designed to current building code standards. The design will also look at enhancing the air flow in the locker room and creating a negative pressure for the lab to meet current standards.</p>	
Description of Alternatives: <p>The Clark Dietz report includes options that could be eliminated from the project. The negative pressure for the lab was estimated at \$11,800 option. Replacing the split system with a heat pump split system was estimated at \$9,600. The locker room zoning and adding perimeter heating was estimated at \$18,500.</p>	
Description of Disposal, if Applicable: <p>The contractor will remove and dispose of the existing HVAC system and ductwork as needed for the project.</p>	
Impact on other Projects: N/A	
Cost Analysis: (Quotes, estimates, breakdown of potential cost and how you arrived here) <p>The design and replacement of the HVAC system at the water treatment plant is estimated at \$325,000.</p>	
Annual Impact on Operating Budget: (Will we have an additional reoccurring operating cost?) <p>The new HVAC system should be more energy efficient and be a positive impact on the operating budget.</p>	



2023 CAPITAL IMPROVEMENT/EQUIPMENT PROGRAM (CIP/CEP)

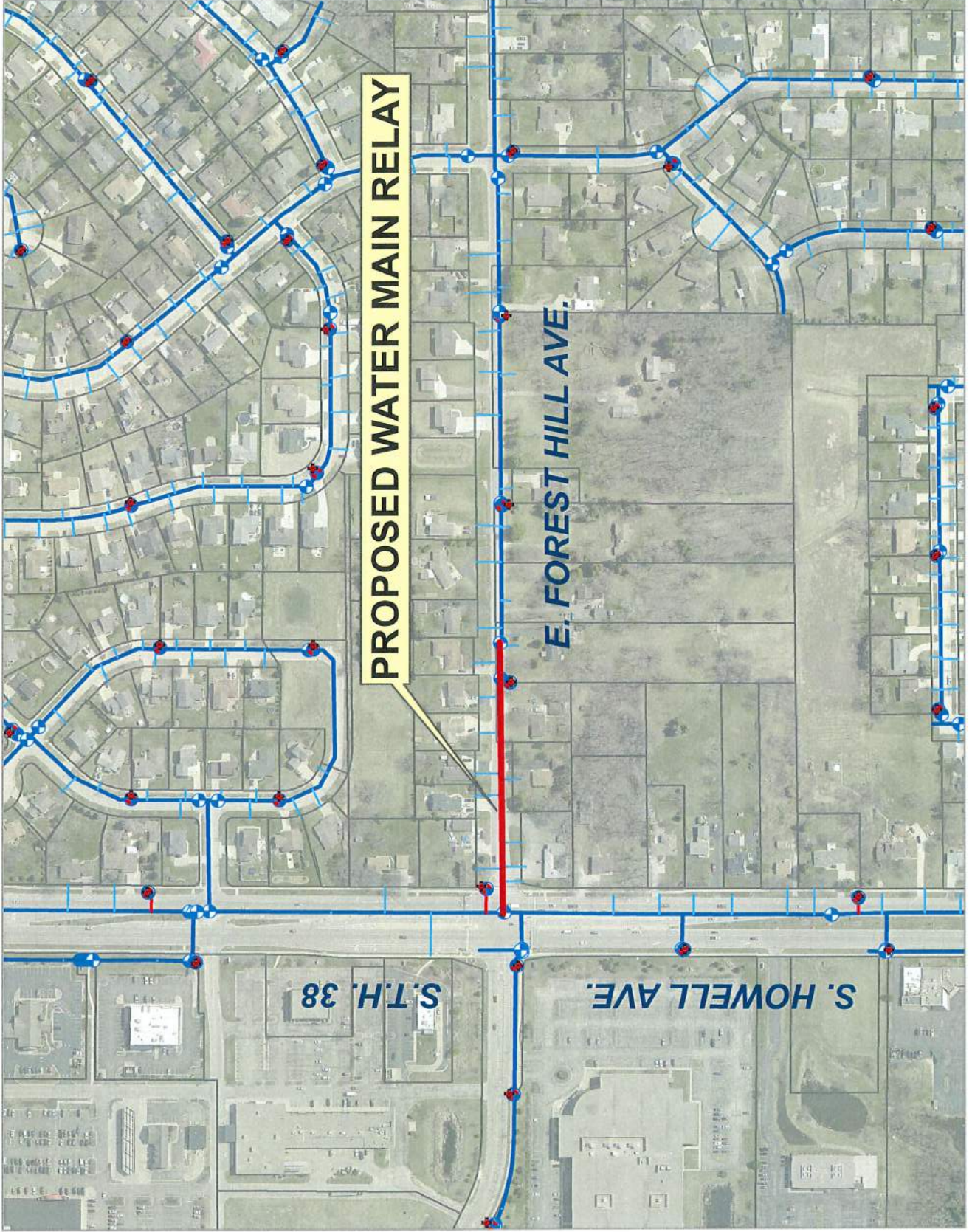
Department: Water and Sewer Utility (Treatment Plant)	Contact Person: Mike Robe, Treatment Plant Manager
Request Title: Autoclave Replacement	
General Description: Replacing the plant autoclave with a new unit.	
Justification and Intent: The autoclave unit at the plant is in need of costly repairs. The current autoclave is 18 years old and past its 15-year life expectancy. The autoclave is currently useable but needs \$2,500 in repairs to bring it back to proper operating parameters. This money would be better spent putting it toward a new unit. The autoclave is used to sterilize glassware and sample vessels and is critical that it operates at the required range.	
Description of Alternatives: Continue to spend money on this old unit to keep it running correctly.	
Description of Disposal, if Applicable: Included in cost	
Impact on other Projects: None	
Cost Analysis: (Quotes, estimates, breakdown of potential cost and how you arrived here) Several suppliers have provided pricing on a new autoclave. All of the quotes were within one hundred dollars at \$16,350. Duraline Biosystems will give us \$1,000 dollar credit by trading in our old unit. This brings the cost down to \$15, 395, with shipping and installation the cost will be \$16,000.	
Annual Impact on Operating Budget: (Will we have an additional reoccurring operating cost?) No reoccurring cost.	



2023 CAPITAL IMPROVEMENT/EQUIPMENT PROGRAM (CIP/CEP)

Department: Water & Sewer Utility (Engineering)	Contact Person: Brian Johnston, Utility Engineer
Request Title: E. Forest Hill Avenue Water Main Replacement	
General Description: Relay the 605 LF of 8" PVC water main in E. Forest Hill Avenue.	
Justification and Intent: This project will replace the existing 605 LF of 8-inch 1963 cast iron pipe with an 8-inch PVC main. We have had 5 breaks on this main over the years and the project will impact 9 homes and 1 business.	
Description of Alternatives: N/A	
Description of Disposal, if Applicable: N/A	
Impact on other Projects: N/A	
Cost Analysis: (Quotes, estimates, breakdown of potential cost and how you arrived here) The design and construction of the water relay project is \$275,000.	
Annual Impact on Operating Budget: (Will we have an additional reoccurring operating cost?) No impact to the operation budget.	

2023 PROPOSED PROJECT



1 inch = 300 feet

WaterMain

Hydrant

◆ No Flow Data

Valves

● Butterfly Valve

● Gate Valve

● Hydrant Valve

Mains

— Potable Water

— Public Lateral

— Hydrant Lead





2023 CAPITAL IMPROVEMENT/EQUIPMENT PROGRAM (CIP/CEP)

Department: Water & Sewer Utility (Engineering)	Contact Person: Brian Johnston, Utility Engineer
Request Title: W. Rawson Avenue Water Main Spot Replacement and Hydrant Relocation	
General Description: Relay 250 LF of 20" DIP and relocate hydrants, adjust valves and manholes along W. Rawson Avenue from S. 13 th Street to S. Howell Avenue	
Justification and Intent: The project will relay 250 LF of 20" DIP from 1968. We have had 9 breaks on this section of main over the years with three events in 2022. This project will relocate the 15 hydrants as needed along W. Rawson Avenue from S. 13 th Street to S. Howell Avenue. There are 15 valves to be adjusted and 15 manholes to be adjusted. This project is being planned to get the relay completed prior to the 2025 Milwaukee County reconstruction project of W. Rawson Avenue. Construction would be anticipated in 2024. There is a one-year lead time for the 20" DIP.	
Description of Alternatives: N/A	
Description of Disposal, if Applicable: N/A	
Impact on other Projects: N/A	
Cost Analysis: (Quotes, estimates, breakdown of potential cost and how you arrived here) The design and construction of the hydrant relocation project is \$700,000 (\$670,000 water and \$30,000 sewer)	
Annual Impact on Operating Budget: (Will we have an additional reoccurring operating cost?) No impact to the operation budget.	

2023 PROPOSED PROJECT



1 inch = 700 feet

**WATER MAIN RELAY, HYDRANT, VALVE,
AIR VENT, CURBSTOP AND MANHOLE
ALTERATIONS**

Items to adjust

- Manhole (8)
- Hydrant (11)
- Valve (16)
- Air Vent (4)
- Curbstop (5)
- Water main

Sanitary Sewer

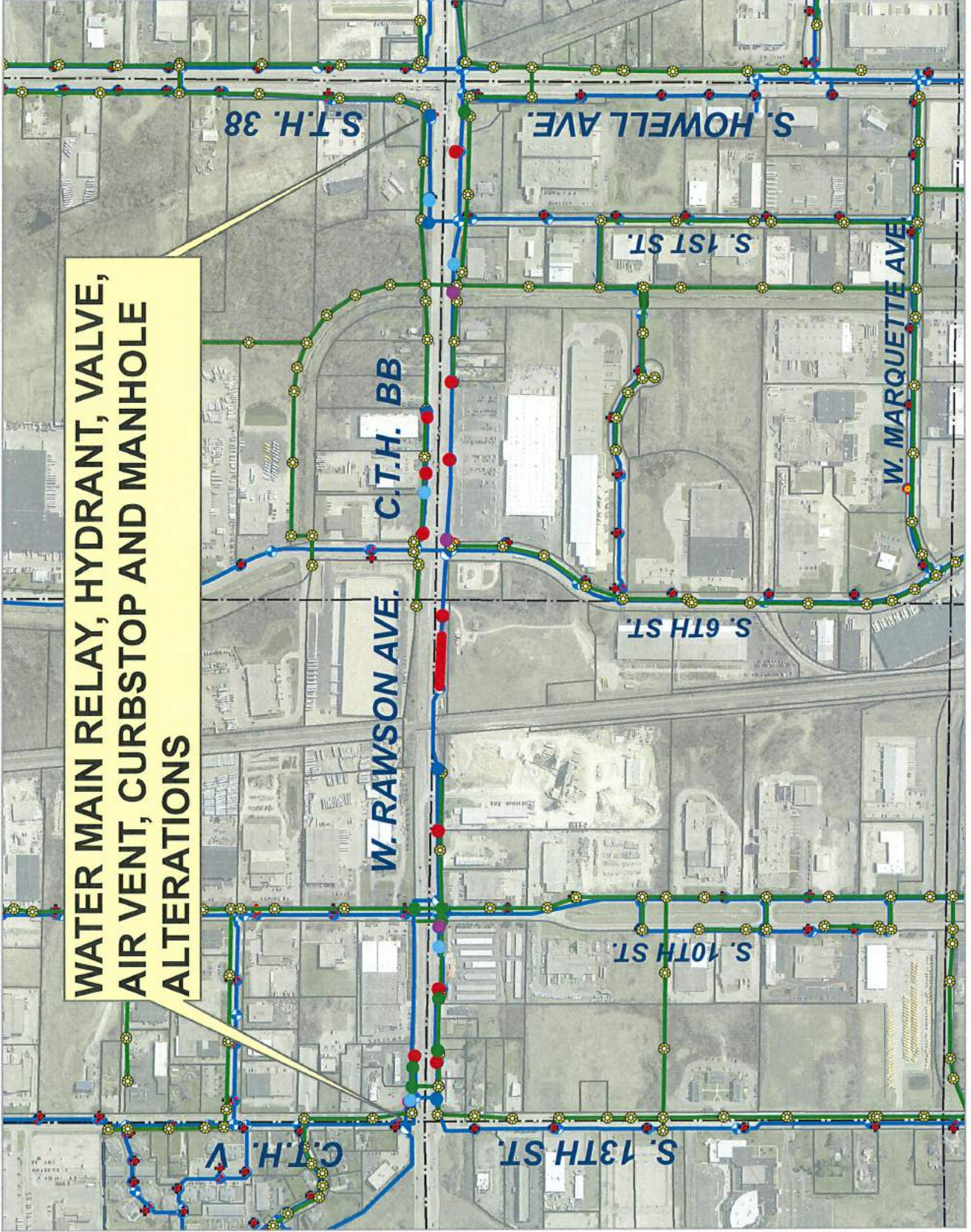
- Manhole
- Sanitary Sewer
- Sewer Lateral

WaterMain

- Hydrant**
- No Flow Data
- Valves**
- Butterfly Valve
 - Gate Valve
 - Hydrant Valve

Mains

- Potable Water
- Public Lateral
- Hydrant Lead





2023 CAPITAL IMPROVEMENT/EQUIPMENT PROGRAM (CIP/CEP)

Department: Water & Sewer Utility (Engineering)	Contact Person: Brian Johnston, Utility Engineer
Request Title: 6 th Street and Marquette Avenue Water Main Replacement (design only)	
General Description: Design of the water main along S. 6 th Street from W. Drexel Avenue to W. Rawson Avenue and W. Marquette Avenue from S. 6 th Street to S. Howell Avenue	
Justification and Intent: The project will design approximately 8,000 LF of 12-inch ductile iron pipe from 1965 and 1966. We have had 65 breaks on this section over the years with 12 of them in the past 10 years. This project will impact 28 businesses. This project is being planned to get the relay completed in phases in conjunction with the city bridge and road project starting in 2025. Construction would be anticipated to start with phase one on the south section of S. 6 th Street in 2024, the north section of S. 6 th Street in 2025 (ahead of the Milwaukee County project on Rawson) and W. Marquette Avenue in 2026.	
Description of Alternatives: N/A	
Description of Disposal, if Applicable: N/A	
Impact on other Projects: N/A	
Cost Analysis: (Quotes, estimates, breakdown of potential cost and how you arrived here) The design S. 6 th Street water relay project is \$350,000.	
Annual Impact on Operating Budget: (Will we have an additional reoccurring operating cost?) No impact to the operation budget.	

2023 PROPOSED PROJECT



1 inch = 600 feet

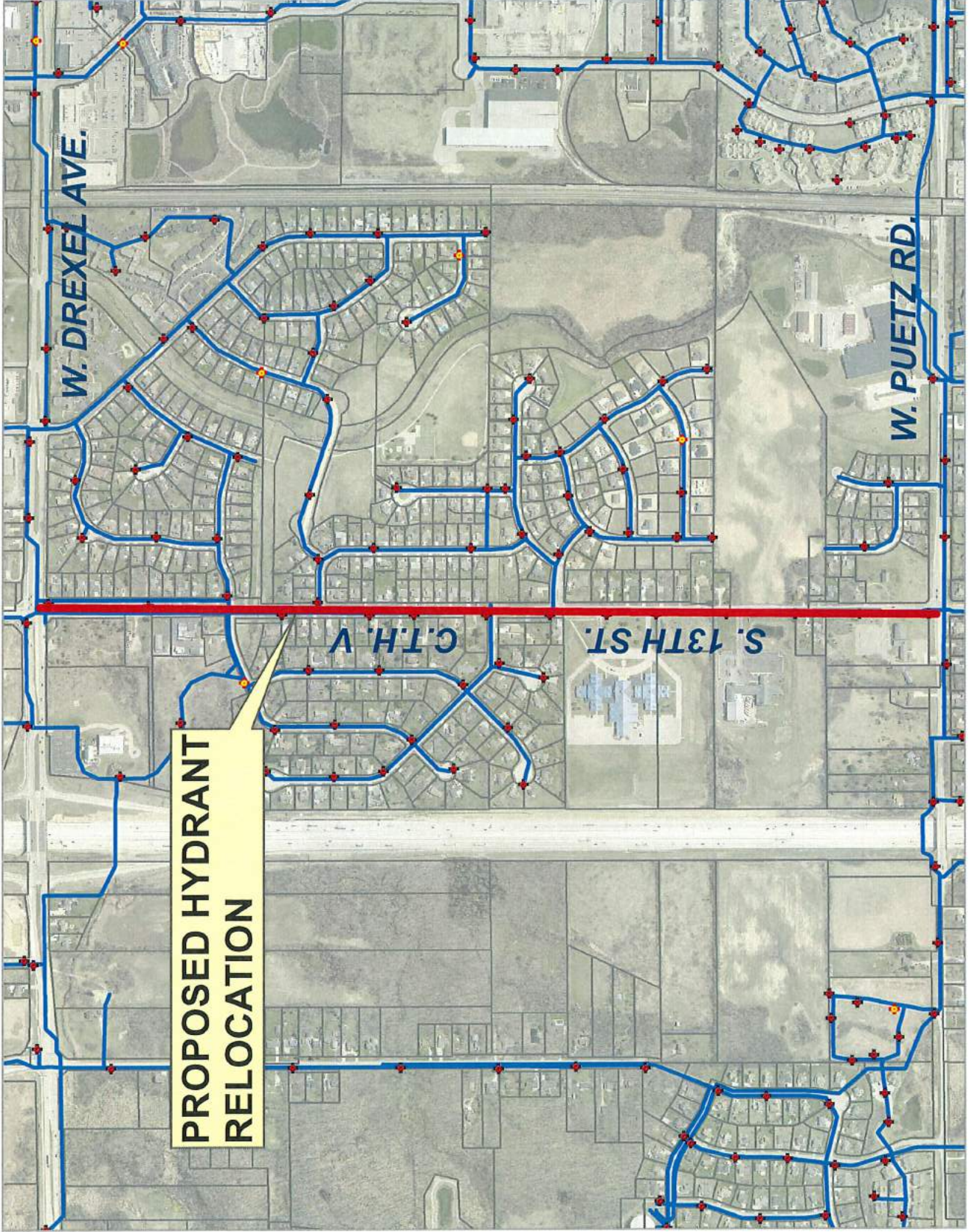
- WaterMain**
- Hydrant**
 - No Flow Data
- Valves**
 - Butterfly Valve
 - Gate Valve
 - Hydrant Valve
- Mains**
 - Potable Water
 - Public Lateral
 - Hydrant Lead



2023 CAPITAL IMPROVEMENT/EQUIPMENT PROGRAM (CIP/CEP)

Department: Water & Sewer Utility (Engineering)	Contact Person: Brian Johnston, Utility Engineer
Request Title: 13 th Street (Drexel to Puetz) Hydrant Relocation and Manhole Adjustment	
General Description: Relocate hydrants, adjust valves and manholes along S. 13 th Street from W. Puetz Road to W. Drexel Avenue.	
Justification and Intent: This project will relocate the 12 hydrants as needed along S. 13 th Street from W. Puetz Road to W. Drexel Avenue. There are 9 valves to be adjusted and 15 manholes to be adjusted. This project is being planned to get the relay completed prior to the 2024 Milwaukee County reconstruction project of S. 13 th Street. Construction would be anticipated in 2023.	
Description of Alternatives: N/A	
Description of Disposal, if Applicable: N/A	
Impact on other Projects: N/A	
Cost Analysis: (Quotes, estimates, breakdown of potential cost and how you arrived here) The design and construction of the hydrant relocation project is \$200,000 (\$170,000 water and \$30,000 sewer)	
Annual Impact on Operating Budget: (Will we have an additional reoccurring operating cost?) No impact to the operation budget.	

2023 PROPOSED PROJECT



1 inch = 800 feet

WaterMain

Hydrant

◆ No Flow Data

Valves

● Butterfly Valve

● Gate Valve

● Hydrant Valve

Mains

— Potable Water

— Public Lateral

— Hydrant Lead





2023 CAPITAL IMPROVEMENT/EQUIPMENT PROGRAM (CIP/CEP)

Department: Water & Sewer Utility (Engineering)	Contact Person: Brian Johnston, Utility Engineer
Request Title: Security and Access Control Replacement (Plant and HQ)	
General Description: Design and replacement of the security system at the treatment plant and headquarters	
Justification and Intent: The software for the existing C Cure system is outdated and is not upgradable to the new windows format. We will need to evaluate the software and compatibility with the City's security system. This will impact the treatment plant, headquarters and remote stations with card readers. It is currently unknown if the software upgrade will impact the existing card readers throughout the system. This may impact the remote stations with card readers and video surveillance systems as well. The newest components in the system were installed in 2010.	
Description of Alternatives: N/A	
Description of Disposal, if Applicable: N/A	
Impact on other Projects: N/A	
Cost Analysis: (Quotes, estimates, breakdown of potential cost and how you arrived here) The design and replacement of the security system is estimated at \$150,000.	
Annual Impact on Operating Budget: (Will we have an additional reoccurring operating cost?) No impact to the operation budget.	



2023 CAPITAL IMPROVEMENT/EQUIPMENT PROGRAM (CIP/CEP)

Department: Water & Sewer Utility (Engineering)	Contact Person: Brian Johnston, Utility Engineer
Request Title: Remote Station Radio Replacement	
General Description: Design and replacement of the existing radios in the remote stations	
Justification and Intent: <p>The remote stations use radio waves to send information from the station back to the water treatment plant. These radios allow the treatment plant operators to control the functions of the equipment at the stations and gather data on system operations at the stations. The stations include Sycamore tower, Howell tower, Treatment Plant, 22nd Street Booster Station, Police Department, Janat Drive Booster Station, Orchard Way Reservoir, Headquarters, Rawson meter, Drexel meter, Puetz meter, Ryan meter and Franklin tower. This gives the operator run time on pumps, tower elevation, chlorine residual, and turbidity at the stations. They also allow access control and support the video surveillance system. The existing AirMux radios were installed around 2013 and some of the CalAmp radios were installed in 2005. We have had several failures of the radio equipment due to age. This system and the communication it facilitates is critical to the utility operations. Even with the construction of fiber optic cable to some of the facilities, the radio system will be required as an online redundant path. The existing units software is not compatible with the new radio units. The replacement will provide reliable communication with the remote stations and the treatment plant. The project will also replace the phone line communications at Garden Place lift station, Clement lift station, and Ryan Road Storm lift station with radios.</p>	
Description of Alternatives: N/A	
Description of Disposal, if Applicable: N/A	
Impact on other Projects: N/A	
Cost Analysis: (Quotes, estimates, breakdown of potential cost and how you arrived here) The design and replacement of the radios at the remote stations is estimated at \$100,000.	
Annual Impact on Operating Budget: (Will we have an additional reoccurring operating cost?) No impact to the operation budget.	



2023 CAPITAL IMPROVEMENT /EQUIPMENT PROGRAM (CIP/CEP)

Department: Water & Sewer Utility (Engineering)	Contact Person: Brian Johnston, Utility Engineer
Request Title: Sanitary Lining of Large Mains	
General Description: Various locations to repair deficiencies in the sanitary sewer main.	
Justification and Intent: This project is part of the sanitary sewer rehabilitation program. The Utility uses the NASSCO rating system to evaluate the sewer repairs based on the camera work completed on the system. A new list of sewer deficiencies was created last year based on the latest videos of the system. The project continues to identify and correct deficiencies in the sanitary sewer system throughout the City of Oak Creek. The repairs utilize different construction techniques in complete pipe relays, lining, spot repairs and spot lining. This project will primarily focus on lining of large sewer mains and will also look at correcting laterals that are protruding into the main and grouting joints.	
Description of Alternatives: N/A	
Description of Disposal, if Applicable: N/A	
Impact on other Projects: N/A	
Cost Analysis: (Quotes, estimates, breakdown of potential cost and how you arrived here) The design and construction of the sanitary sewer rehabilitation project is \$750,000.	
Annual Impact on Operating Budget: (Will we have an additional reoccurring operating cost?) No impact to the operating budget.	



2023 CAPITAL IMPROVEMENT/EQUIPMENT PROGRAM (CIP/CEP)

Department: Water & Sewer Utility (Engineering)	Contact Person: Brian Johnston, Utility Engineer
Request Title: Sanitary Model Update and System Plans	
General Description: Update our sanitary model and system maps	
Justification and Intent: The sanitary master plan was approved by the Board at the June 2022 meeting. The model for this master plan was established in 2020. We were able to use flow meters from MMSD with the design of our system. There was some data that we wanted to collect for a longer period of time to establish a better trend in the model. We have the data now and are looking to update the model. We will also look at the GIS system plans that were created with the model. This will help us plan for future sewer flows in the undeveloped areas in the city.	
Description of Alternatives: N/A	
Description of Disposal, if Applicable: N/A	
Impact on other Projects: N/A	
Cost Analysis: (Quotes, estimates, breakdown of potential cost and how you arrived here) The model update and creation of system plans will cost \$50,000.	
Annual Impact on Operating Budget: (Will we have an additional reoccurring operating cost?) No impact to the operation budget.	



2023 CAPITAL IMPROVEMENT/EQUIPMENT PROGRAM (CIP/CEP)

Department: Water & Sewer Utility (Engineering)	Contact Person: Brian Johnston, Utility Engineer
Request Title: Underground Facilities Rehabilitation (UFR) Project	
General Description: This project allocates additional funding to address the numerous DNR identified compliance issues with the existing buried chlorine contact (CT) tank and other facilities at the treatment plant.	
Justification and Intent: <p>This purpose of this project is to construct improvements at the water treatment plant site to address WDNR code compliance issues with underground facilities at the treatment plant. In 2008, the WDNR told the Oak Creek Water and Sewer Utility that all chlorine contact (CT) tank issues needed to be resolved within ten years.</p> <p>The WDNR raised code compliance issues with the CT tank in December 2007 as outlined below:</p> <ul style="list-style-type: none"> • There is no means to take the CT Tank down for a full inspection. A full drain down inspection is required at least every 10 years. • There is no overflow for the CT Tank. • The tank's existing base is below the ground water elevation. • The pipes to and from the CT Tank are not under continuous pressure higher than the groundwater elevation. • The top of the CT Tank is not 2 feet above normal ground elevation. • The roof has no slope and likely no membrane <p>In addition, the high lift pump station has a concrete wet well that is below groundwater and violates the same WDNR code as the CT tank.</p>	
Description of Alternatives: N/A	
Description of Disposal, if Applicable: N/A	
Impact on other Projects: N/A	
Cost Analysis: (Quotes, estimates, breakdown of potential cost and how you arrived here) This request adds \$5 million to the UFR project. Alternatives analysis is just now beginning. The project chosen will likely cost tens of millions of dollars.	
Annual Impact on Operating Budget: (Will we have an additional reoccurring operating cost?) No impact to the operation budget at this time.	

2023 CAPITAL BUDGET

Amended 10/18/2022

PROJECTS IN PROGRESS

	<u>Total</u>	<u>Amount</u>		<u>Water</u>	<u>Sewer</u>
		<u>Budgeted</u>	<u>Remaining</u>		
19104 Full Water System Master Plan (2018, 2020)	450,000.00	152,578.28	152,578.28	-	
19107 Security Upgrades (2017)	250,000.00	241,425.30	168,997.71	72,427.59	
21101 Howell Avenue Water Relay (2021, 2022)	2,750,000.00	2,604,158.59	2,604,158.59	-	
21104 Centennial Drive Sanitary Sewer (2021)	150,000.00	38,182.09	-	38,182.09	
21107 Replacement of Plant PLC's (2020, 2021)	720,000.00	414,934.70	414,934.70	-	
21110 Fire Hydrant Refinishing (2021)	20,000.00	20,000.00	20,000.00	-	
21111 Sewer Cleaner/Hydro-excavator Truck (2021, 2022)	210,000.00	210,000.00	21,000.00	189,000.00	
22101 Forest Hill Manor Water Relay (2022)	900,000.00	855,525.53	855,525.53	-	
22102 Susan Drive Water Relay (2022)	450,000.00	424,434.15	424,434.15	-	
22103 2022 Sanitary Sewer Rehabilitation (2022)	250,000.00	96,408.37	-	96,408.37	
22104 Sanitary Sewer Relay on 5th Ave and American Ave (2022)	350,000.00	323,953.92	-	323,953.92	
22106 East Side Fiber Optic Project (2022)	300,000.00	300,000.00	300,000.00	-	
22108 Rawson Ave Water Main Replacement (6th - 10th st) (2022)	81,600.00	74,821.68	74,821.68	-	
22109 Financial Software (BS&A) (2022)	60,000.00	60,000.00	42,000.00	18,000.00	
22110 Utility Truck Replacement (2022)	70,000.00	70,000.00	63,000.00	7,000.00	
22112 1.5 Ton Dump Truck (2022)	70,000.00	70,000.00	63,000.00	7,000.00	
22113 Replacement Sludge Pumps (2022)	40,000.00	40,000.00	40,000.00	-	
22114 Treatment Plant Communication Upgrade (2022)	8,000.00	8,000.00	8,000.00	-	
22115 Coagulation Control Center Cabinet Replacement (2022)	8,000.00	2,658.24	2,658.24	-	
22116 Janat Booster Station Pump One Flow Control Valve (2022)	16,000.00	16,000.00	16,000.00	-	
22117 Water Treatment Plant Filtration Emergency Power (2022)	35,000.00	35,000.00	35,000.00	-	
22118 Underground Facilities Rehabilitation Project (UFRP)	13,000,000.00	12,999,730.11	12,999,730.11	-	
TOTAL PROJECTS IN PROGRESS BUDGET	20,188,600.00	19,057,810.96	18,305,838.99	751,971.97	

OAK CREEK WATER AND SEWER UTILITY
Forecasted Statement of Cash Flows
For the Year Ending December 31, 2023

	<u>Water</u>	<u>Sewer</u>	<u>Total</u>
<u>Operating Activities:</u>			
Operating income (loss) per budget	\$ 2,150,900	\$ (182,820)	\$ 1,968,080
Adjustments to reconcile operating income to net cash provided by operating activities:			
Depreciation per budget	<u>2,828,000</u>	<u>588,000</u>	<u>3,416,000</u>
 Net Cash Provided By Operating Activities	 <u>4,978,900</u>	 <u>405,180</u>	 <u>5,384,080</u>
 <u>Capital and Related Financing Activities:</u>			
Acquisition and construction of capital assets - CO	(18,305,839)	(751,972)	(19,057,811)
Acquisition and construction of capital assets - new	(7,276,000)	(1,098,500)	(8,374,500)
Special assessment proceeds	20,000	20,000	40,000
Interfund loan payment - principal	(219,667)	219,667	-
Interfund loan payment - interest	(41,881)	41,881	-
Debt payment - principal	(1,160,368)	-	(1,160,368)
Debt payment - interest	<u>(218,432)</u>	<u>-</u>	<u>(218,432)</u>
 Net Cash Provided By Capital and Related Financing Activities	 <u>(27,202,186)</u>	 <u>(1,568,924)</u>	 <u>(28,771,111)</u>
 <u>Investing Activities:</u>			
Interest received	<u>15,000</u>	<u>5,000</u>	<u>20,000</u>
 Net Cash Provided By Investing Activities	 <u>15,000</u>	 <u>5,000</u>	 <u>20,000</u>
 NET CHANGE IN CASH	 <u>\$ (22,208,286)</u>	 <u>\$ (1,158,744)</u>	 <u>\$ (23,367,031)</u>
 Unrestricted Cash - Beginning of Year:			
Cash Balance as of 10/25/22:			
Checking	\$ 4,108,974	\$ 560,315	\$ 4,669,288
Chase Savings	-	-	-
LGIP	28,735,211	5,308,346	34,043,557
BMO Investment	-	-	-
Less: Restricted cash	(837,367)	-	(837,367)
Less: CMAR sewer equip replacement account	-	(914,327)	(914,327)
Less: Dec. 1, 2022 debt payment due	(454,809)	-	(454,809)
Less: Dec. 15, 2022 interfund loan payment due	(224,464)	224,464	-
Less: Checking minimum required	(1,400,000)	(600,000)	(2,000,000)
Less: Pollution at treatment plant site	<u>(2,295,600)</u>	<u>-</u>	<u>(2,295,600)</u>
Unrestricted Cash - Beginning of Year	<u>27,631,946</u>	<u>4,578,797</u>	<u>32,210,743</u>
 Unrestricted Cash - End of Year	 5,423,659	 3,420,053	 8,843,712
Less: Reserve balance to maintain	<u>(4,583,550)</u>	<u>(2,499,500)</u>	<u>(7,083,050)</u>
Unreserved Cash - End of Year	<u>\$ 840,109</u>	<u>\$ 920,553</u>	<u>\$ 1,760,662</u>

STAFF REPORT

Item:	Discussion and recommendations regarding 2023 Road Improvement project
Recommendation:	That the Board considers a motion to recommend road improvement projects to be advertised for public bid for construction in 2023 to the Common Council for approval.
Fiscal Impact:	There is \$247,152.86 remaining in CIP #20019, \$645,000 allocated in 2022, and \$1,000,000 slated for approval in the 2023 budget. This brings the total funding available to \$1,892,152.86 for the proposed road projects.
Critical Success Factor(s):	<input type="checkbox"/> Vibrant and Diverse Cultural Opportunities <input type="checkbox"/> Thoughtful Development and Prosperous Economy <input type="checkbox"/> Safe, Welcoming, and Engaged Community <input type="checkbox"/> Inspired, Aligned, and Proactive City Leadership <input type="checkbox"/> Financial Stability <input checked="" type="checkbox"/> Quality Infrastructure, Amenities, and Services <input type="checkbox"/> Not Applicable

Background: All streets in the City are rated every two years using the PASER system. The PASER system assigns a rating from 1 (Failed) to 10 (Excellent) to each street segment based on the severity, frequency, and types of distress observed. Streets were then selected based on PASER condition ratings; functional classification; traffic volumes; and feedback received from Department of Public Works, Oak Creek Sewer and Water Utility, and Common Council Members.

Our strategy is to balance maintenance and rehabilitation of streets which are rated 4 to 6 with the need for pavement replacement and reconstruction of streets rated 1 to 3. Maintenance and rehabilitation treatments are less costly than pavement replacement or reconstruction. By rehabilitating streets at a higher rating we are extending the amount of time between reconstructs and reducing the overall life-cycle cost. This also allows for more miles of streets to be treated each budget cycle.

The water utility will be replacing water main on Susan Dr., Griffin Ave., Valbeth Dr., and Verdev Dr. in fall 2022 and spring 2023. These segments have been included in the 2023 Street program for resurfacing following completion of the water main installation. There will be a cost share with the Water Utility for this work.

Shepard Ave. and Clement Ave. are included for rehabilitation or maintenance work. These segments represent 1.5 miles of streets functionally classified as collectors which serve as a link between neighborhood streets and higher volume arterials.

Options/Alternatives: A list of alternate streets has been provided in addition to Engineering's recommendations. The Board can choose any combination of the recommendations and alternates provided the total estimated cost does not exceed the budget of \$1,892,152.86.

Respectfully submitted:



Andrew J. Vickers, MPA
City Administrator

Fiscal Review:



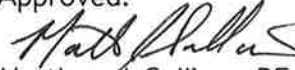
Maxwell Gagin, MPA
Assistant City Administrator / Comptroller

Prepared:



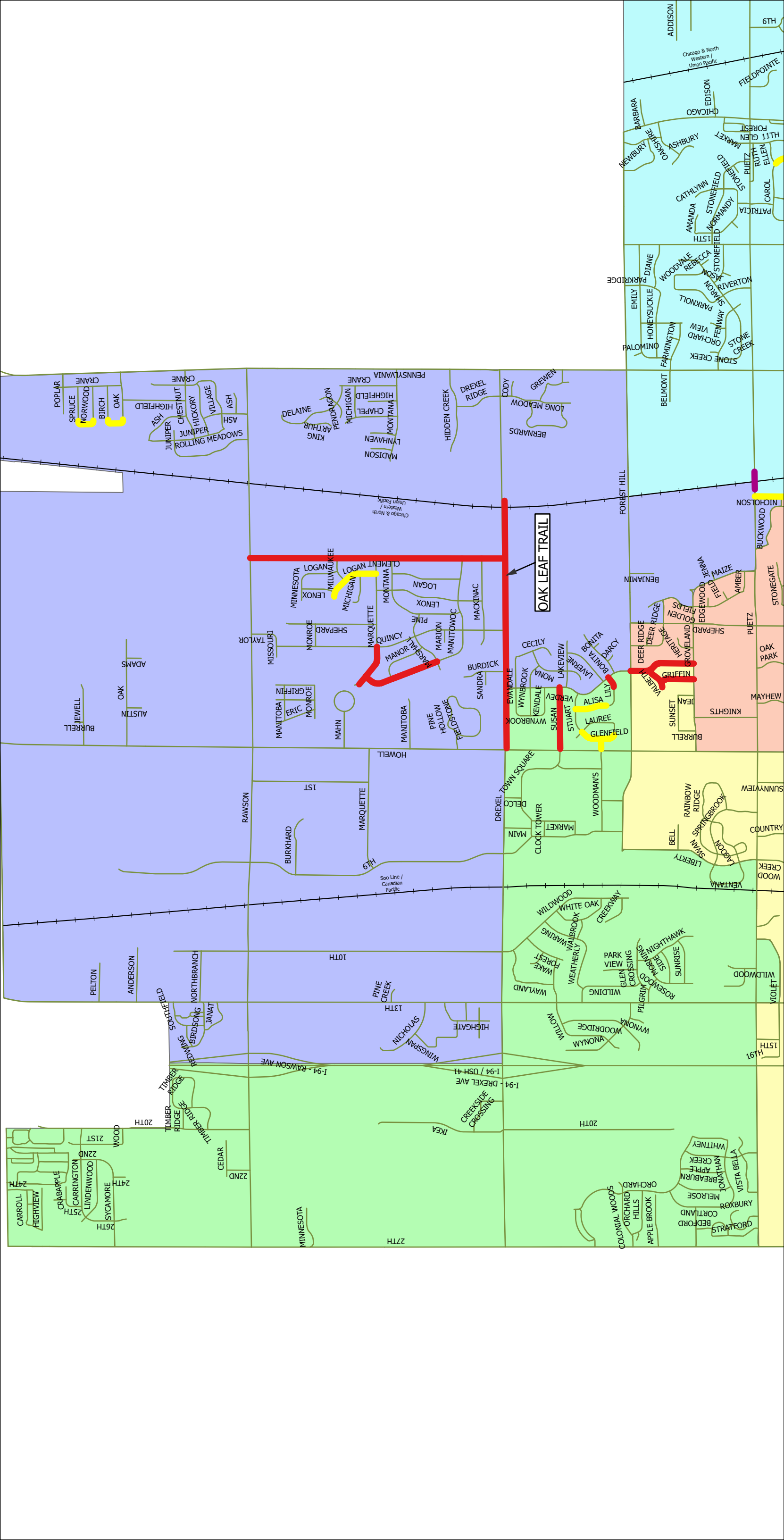
Andrew Ledger, PE
Design Engineer

Approved:



Matthew J. Sullivan, PE
City Engineer

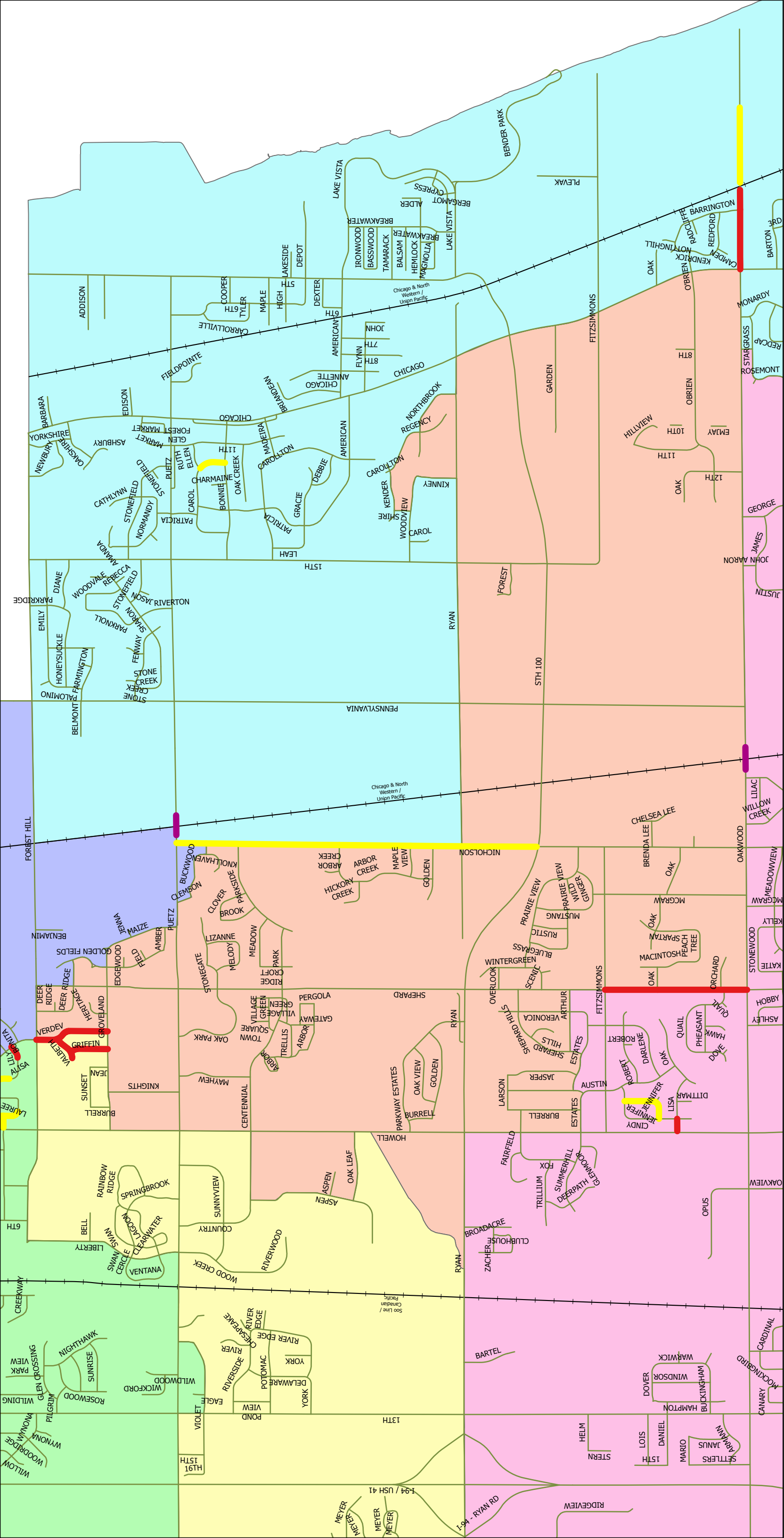
Attachments: 2023 Street Improvements - Table, 2023 Street Improvements - Overview Map, 2023 Street Improvements - District Maps



Legend

- ALDERMANIC DISTRICT**
- 1 (Blue)
 - 2 (Green)
 - 3 (Orange)
 - 4 (Light Blue)
 - 5 (Pink)
 - 6 (Yellow)
- 2023 IMPROVEMENT PROJECT**
- ALTERNATE (Yellow)
 - RECOMMENDATION (Red)
 - RAILROAD CROSSING IMPROVEMENT (Purple)

2023 STREET IMPROVEMENTS DISTRICTS 1 & 2



Legend

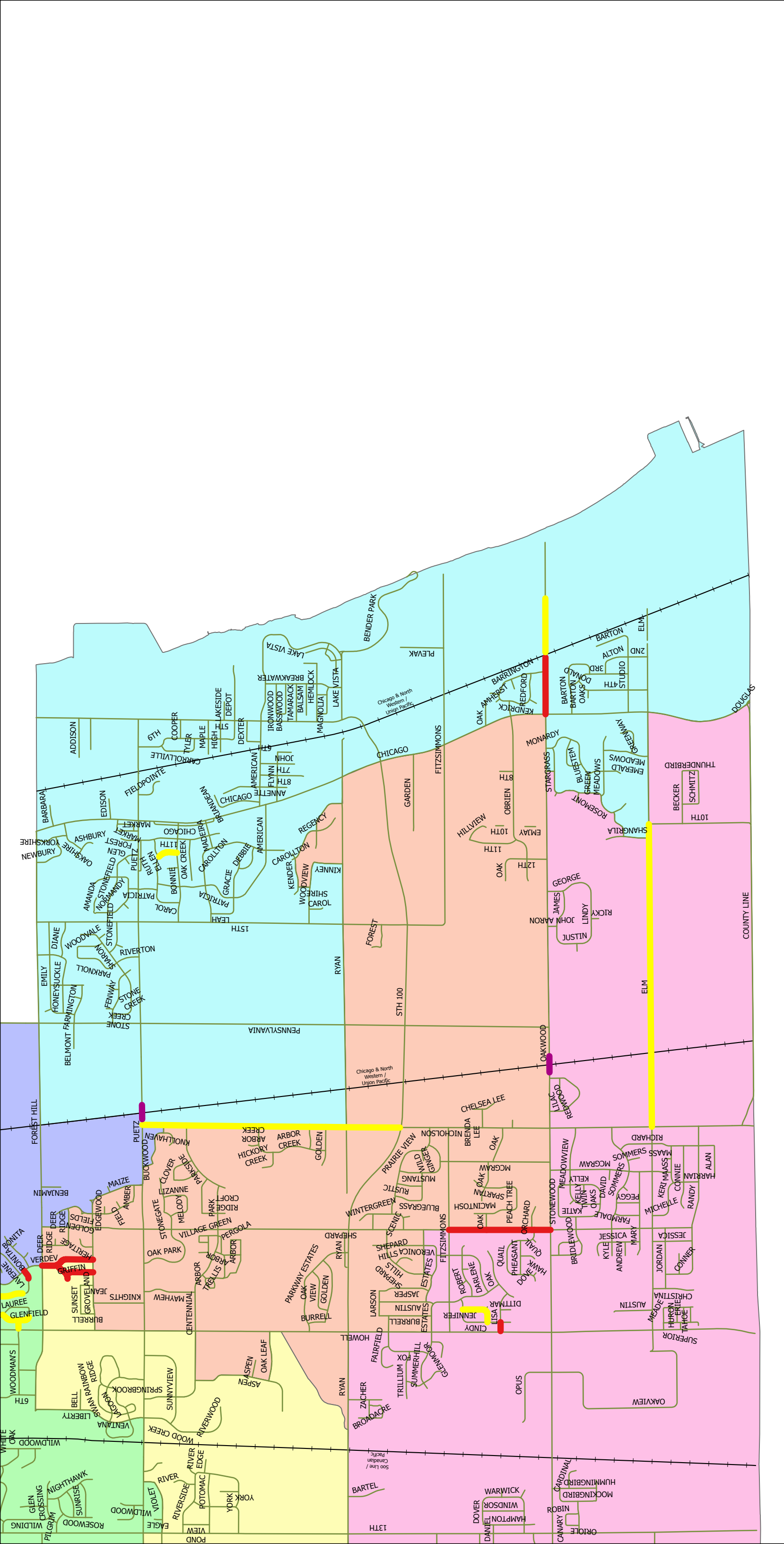
ALDERMANIC DISTRICT

- 1
- 2
- 3
- 4
- 5
- 6

2023 IMPROVEMENT PROJECT

- ALTERNATE
- RECOMMENDATION
- RAILROAD CROSSING IMPROVEMENT

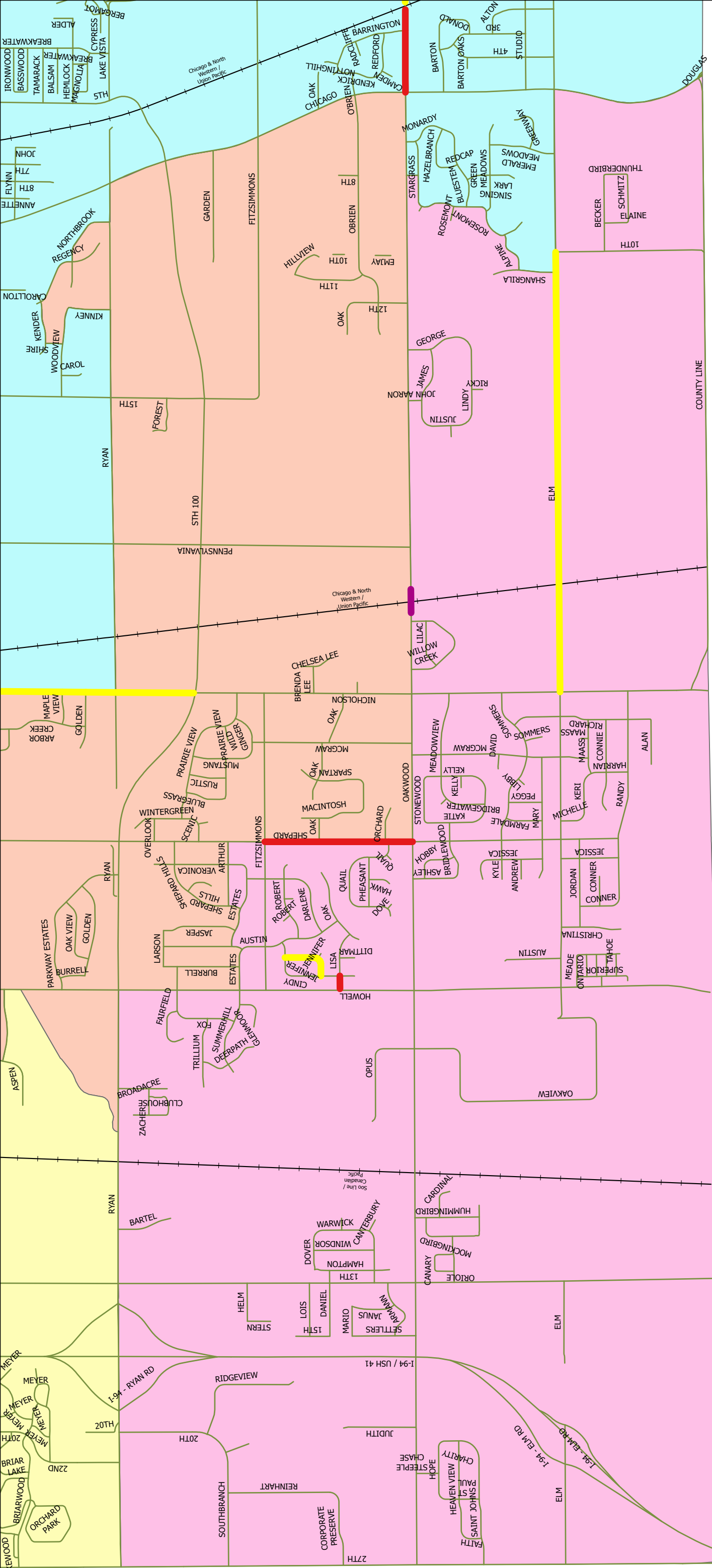
2023 STREET IMPROVEMENTS DISTRICT 3



Legend

- ALDERMANIC DISTRICT**
- 1
 - 2
 - 3
 - 4
 - 5
 - 6
- 2023 IMPROVEMENT PROJECT**
- ALTERNATE
 - RECOMMENDATION
 - RAILROAD CROSSING IMPROVEMENT

2023 STREET IMPROVEMENTS DISTRICT 4

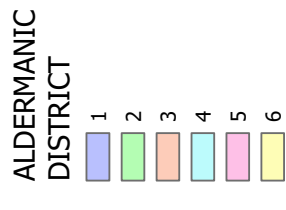


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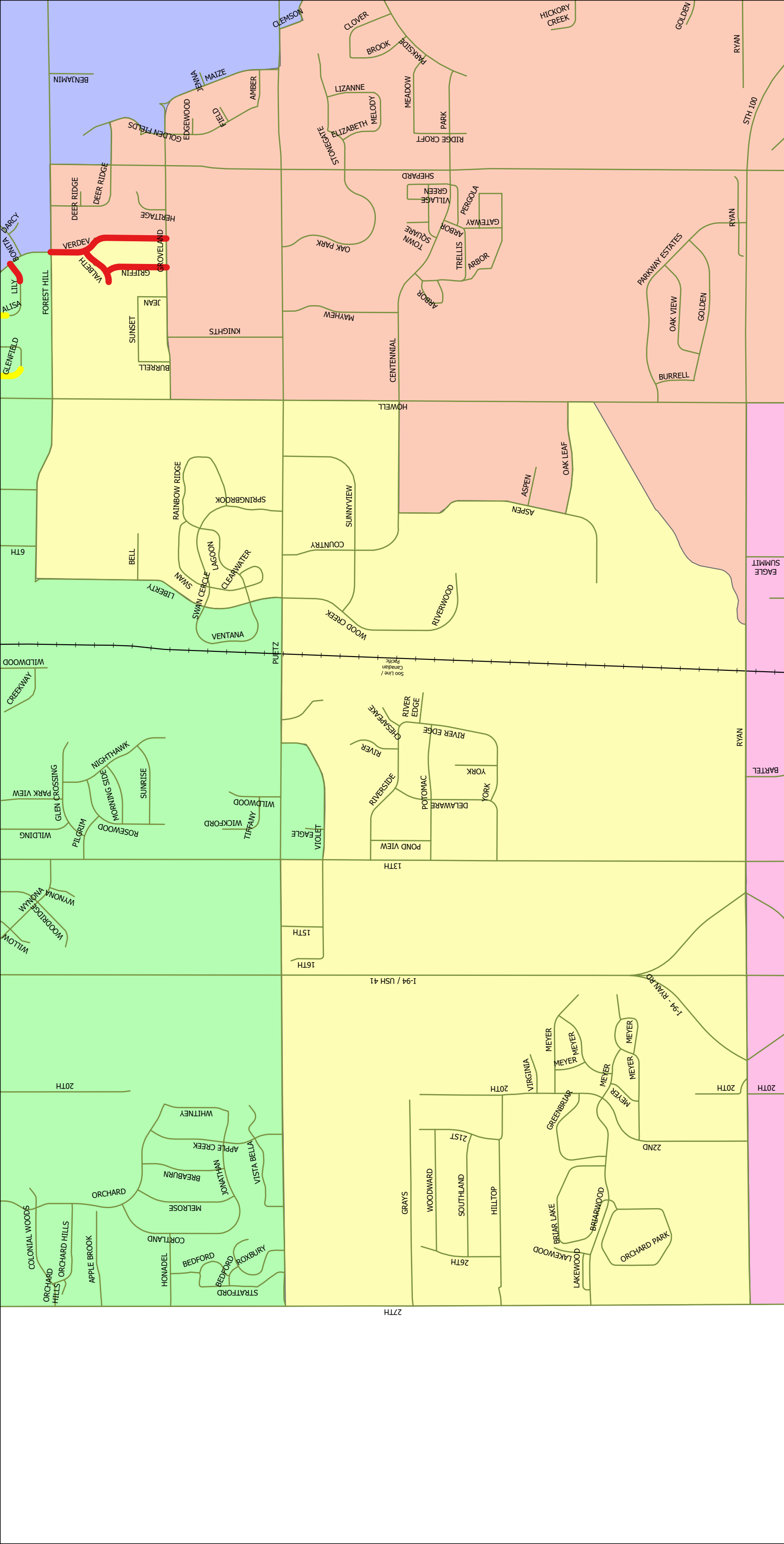
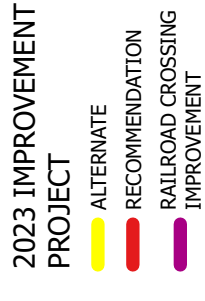
- ALDERMANIC DISTRICT**
 - 1
 - 2
 - 3
 - 4
 - 5
 - 6
- 2023 IMPROVEMENT PROJECT**
 - ALTERNATE
 - RECOMMENDATION
 - RAILROAD CROSSING IMPROVEMENT

2023 STREET IMPROVEMENTS DISTRICT 5

2023 STREET IMPROVEMENTS DISTRICT 6



Legend



2023 Street Improvement Recommendations

Street Name	From	To	District	Length (ft)	Functional Classification	Existing Pavement		Proposed Improvement	Rating	Cost
						Type	2021 Paser			
S. Manitowoc Ave.	E. Marshall Ave.	E. Marquette Ave.	1	1584	Local	Concrete	Concrete	3" HMA Overlay	5	\$268,000
E. Marquette Ave.	Termini	S. Quincy Ave.	1	897	Local	Concrete	Concrete	3" HMA Overlay	5	\$156,000
Susan Dr.	S. Howell Ave.	S. Verdev Dr.	2	1320	Local	Asphalt	Asphalt	Mill and Overlay (2") (In conjunction with approved water project)	7	\$103,000
S. Griffin Ave.	E. Groveland Dr.	E. Valbeth Dr.	6	686	Local	Asphalt	Asphalt	Mill and Overlay (2") (In conjunction with approved water project)	6	\$62,000
E. Valbeth Dr.	S. Griffin Ave.	S. Verdev Dr.	6	476	Local	Asphalt	Asphalt	Mill and Overlay (2") (In conjunction with approved water project)	7	\$57,000
S Verdev Dr.	E. Groveland Dr.	E. Forest Hill Ave.	3 & 6	1372	Local	Asphalt	Asphalt	Mill and Overlay (2") (In conjunction with approved water project)	7,8	\$124,000
E. Oakwood Rd	S Chicago Rd.	Railroad	4	1485	Local	Asphalt	Asphalt	Reconstruct (4.5" Asphalt over 9" Base)	2	\$341,000
S. Shepard Ave	Oakwood Rd.	E. Fitzsimmons Rd.	3 & 5	2640	Collector	Asphalt	Asphalt	Mill and Overlay (2")	4,5	\$191,000
E. Lisa Dr.	S. Howell Ave.	S. Cindy Ln.	5	133	Local	Concrete	Concrete	Reconstruct (4.5" Asphalt over 9" Base)	3	\$72,000
S. Clement Ave.	E. Drexel Ave.	Rawson Ave.	1	5280	Collector	Asphalt	Asphalt	Maintenance Treatment (Chip Seal)	6	\$75,000
E. Lily Dr.	264' W. of S. Verdev Dr.	S. Verdev Dr.	2	232	Local	Concrete	Concrete	Reconstruct (4.5" Asphalt over 9" Base)	3	\$114,000
Oak Leaf Trail: (Drexel S. Side)	S. Howell Ave.	125' E. of UPRR	1	5150	Path	Asphalt	Asphalt	Pavement Replacement 3" HMA including south side curb ramps	N/A	\$283,000
TOTAL (PASER ROADS)										\$1,846,000
*UPRR Grade Crossing Improvements @ 1700 E. Puetz Rd.			1 & 4	N/A	Minor Arterial	Asphalt	Asphalt	Railroad Crossing Approach Improvement	N/A	\$75,000
*UPRR Grade Crossing Improvements @ 2100 E. Oakwood Rd.			3 & 5	N/A	Collector	Asphalt	Asphalt	Railroad Crossing Approach Improvement	N/A	\$75,000

* \$150,000 budgeted for UPRR Grade Crossing Improvements as part of 2022 CIP, construction to be included in 2023 Street Improvements contract

Alternates

Street Name	From	To	District	Length	Functional Classification	Existing Pavement		Proposed Improvement	Rating	Cost
						Type	2021 Paser			
E. Oakwood Rd	Railroad	Termini	4	1472	Local	Asphalt	Asphalt	Reconstruct (4.5" Asphalt over 9" Base)	2	\$339,000
E. Elm Rd.	S. Nicholson Rd.	10th Ave	4 & 5	7920	Collector	Asphalt	Asphalt	Mill and Overlay (2")	4,5	\$460,000
S. Carol Ct.	E. Bonnie Dr.	E. Ruth Ellen Ln.	4	475	Local	Asphalt	Asphalt	Reconstruct (4.5" Asphalt over 9" Base)	3	\$110,000
S. Glenfield Dr.	Termini	S. Lauree Ln.	2	739	Local	Asphalt	Asphalt	Mill and Overlay (2.25")	4	\$135,000
Oakfield Dr.	S. Howell Ave.	S. Glenfield Dr.	2	294	Local	Asphalt	Asphalt	Mill and Overlay (2.25")	4	\$35,000
E. Jennifer Ln.	S. Cindy Ln.	S. Jennifer Ln.	5	317	Local	Concrete	Concrete	3" HMA Overlay	4	\$78,000
S. Jennifer Ln.	E. Jennifer Ln.	E. Cindy Ln.	5	581	Local	Concrete	Concrete	3" HMA Overlay	5	\$112,000
N/S Street	E. Oak Dr.	E. Birch Dr.	1	400	Local	Concrete	Concrete	Reconstruct (4.5" Asphalt over 9" Base)	4	\$234,000
N/S Street	E. Spruce Dr.	E. Norwood Dr.	1	400	Local	Concrete	Concrete	Reconstruct (4.5" Asphalt over 9" Base)	4	\$215,000
S. Logan Ave.	E. Marquette Ave.	E. Milwaukee Ave.	1	686	Local	Concrete	Concrete	3" HMA Overlay	4,5	\$169,000
E. Milwaukee Ave.	Termini	S. Logan Ave.	1	422	Local	Concrete	Concrete	3" HMA Overlay	4,5	\$100,000
S. Nicholson Rd	WIS 100	Arbor Creek Dr.	3 & 4	3696	Collector	Asphalt	Asphalt	Mill and Overlay (2")	5,6	\$232,000
S. Nicholson Rd	Arbor Creek Dr.	Puetz Rd.	1, 3 & 4	3062	Collector	Asphalt	Asphalt	Mill and Overlay (2")	4,5	\$196,000
S. Alisa Ln.	130' N. of E. Lily Dr.	E. Stuart Dr.	2	637	Local	Asphalt	Asphalt	Mill and Overlay (2.25")	4	\$61,000

ENGINEERING & INSPECTIONS – Matt Sullivan

- Developer Project Updates:
 - Street lighting conduit/bases, curb/gutter, sidewalks, and roadways (asphalt binder) will be completed this month. Single-family homes are continuing to be constructed, multi-family elevator shaft was constructed, and townhomes are in the vertical construction stages;
 - Orchard Way was paved to binder in October and the private roadways/parking lots are scheduled to be paved to binder in November. Footing/foundations for clubhouse and one of the 40-unit apartment buildings will be completed this month with vertical to follow. Two of the 8-unit stacked flats has gone vertical with the 10-unit townhouse beginning in November. This development is on schedule for occupancies starting in early spring 2023;
 - Broadacre development (441 W. Ryan Road) has completed the footings/foundations for the clubhouse and two of the apartment buildings. The remaining two footings/foundations are scheduled to begin this month. Underground utilities continue to be constructed with anticipation of completing Eagle Summit Drive Cul-de-sac to asphalt binder by the end of November.
 - Phase 2 of The Residence at Oak View continues to progress with the construction of 14 footings/foundations and two of those units has the shell constructed;
 - Tsunami Car Wash (Puetz Road) has footing/foundations constructed and has completed the required underground storm water storage.

- Design/Construction Updates:
 - Rowan Estates PP I/I project finished contacting homeowners requesting their participation in the program and with approximately 50% response with almost 95% of those wanting to participate. OTIE is going to use an online service to look up homeowner contact info to try and connect by making phone calls. We are hoping this will increase the participation in the program;
 - W. Rawson Avenue (S. 27th Street to S. 20th Street) (Milwaukee County) is complete with punch list items remaining. The traffic signals at S. 20th Street will be installed in spring of 2023 due to delays in materials;
 - The playground equipment and median improvements have been completed in the Apple Creek Subdivision;

- Soil continues to be delivered to the North Bluff project site (Old Peter Cooper) from the MMSD Wilson Park Project with over half of the project completed;
- Diesel tank replacement at the DPW has begun with project submittals. The proposed and existing tanks are within the floodplain and will be required to be raised 3 feet about which requires a change order to design and construct. The design is estimated at \$10,100 and the construction cost will be provided once the design is complete;
- Engineering will be submitting the PS&E for the Safe Routes to School Phase 1 project and get prepared for bidding in the spring;
- Engineering is starting to compile a preliminary list of roadways sections for consideration in the 2023 Paving Project which will be provided to BOPWACA for review and recommendation to Common Council;
- Engineering Department received only one RFP for the bridge design located at 8040 S 6th Street. WDOT has confirmed it will be acceptable to approve the consultant and move into contract negotiations;
- Engineering will be attending the Milwaukee Transportation Improvement Project Committee meeting in November. This meeting will be reviewing projects submitted for consideration to be funded under the BIL legislation. The City submitted one project on Drexel Avenue from Howell Avenue to Pennsylvania for maintenance and safety improvements.
- Inspection Updates:
 - Met with Thrive Foods to discuss future plans for the build out of the 341,000+ square foot building located at 9141 S 13th Street. Inspection Department will be reviewing everything except plumbing which will be done by the state;

Inspection staff continues to review building permits and perform inspections for several developments and residential, industrial, and commercial alterations.

DEPARTMENT OF PUBLIC WORKS – Matt Trebatoski

- Streets crews will be installing the last two safety bollards at Cedar Hills School, weather permitting;
- Crews will also be finishing up sidewalk replacements and grinding down high spots. Unfortunately, some of the replacements we planned to get done this fall will be

delayed until next year due to the national concrete shortage we are currently experiencing;

- We will be finishing the last culvert installs and ditching projects for the year;
- Forestry will be wrapping up fall tree planting and continue pruning, young tree maintenance, and DTS upkeep;
- November will include the final residential branch collection for the year as well as fall bulk cleanup at curbside;
- Parks staff will be conducting tree and brush clearance from sidewalks and paths, tree trimming in parks, setting up snow marker posts and fence, leaf mulching in Miller Park, grass cutting, sprayer equipment clean up and storage, and attending playground safety inspector course and testing for recertification;
- Department will assist with supply delivery and setup for the November Election, putting out flags for Veterans Day, and installing holiday banners and decorations in DTS and along Howell and Drexel Avenues;
- Electrical will be installing new lights on the northwest side of the Recycling Yard for increased safety of employees and residents.