



TriCo Regional Sewer Utility

www.TriCo.eco Phone (317) 844-9200 Fax (317) 844-9203

JOINT CAPITAL & CONSTRUCTION COMMITTEE AND BOARD OF TRUSTEES MEETING

Monday, November 7, 2022 @ 4:30 P.M.
7236 Mayflower Park Drive, Zionsville, IN 46077

AGENDA

1. Public Comment
2. #2203 Biosolids Building Addition
3. #2202 Lift Station 8 Reconstruction
4. #2207 Lift Station 26 Parallel Force Main
5. 2023 Capital Budget
6. Capital Project Updates
7. Other Business

Next Scheduled Meeting: December 5, 2022 @ 4:30 pm



MEMORANDUM

To: C&C Committee
From: Wes Merkle
Date: November 3, 2022
Subject: #2203 Biosolids Building Addition

The subject project includes two bays – one for the vector truck and the other for a new workshop. This project also includes lighting and HVAC improvements to the existing building.

The following bids were received for the subject project:

Fredericks Contractors	\$610,800
MacDougall Pierce Construction	\$832,000
Alderson Commercial Group	\$935,000

Fredericks Contractors was the lowest responsive and responsible bidder.

The budget for this project was set at \$200,000 last year, which was based on pricing for the office project, marked up for inflation. Last summer staff shared with the Committee a contractor had advised the building addition would likely cost \$300-400,000. Bids were well above that with substantial differences between them. Staff will review pricing and investigate alternatives.



MEMORANDUM

To: C&C Committee
From: Wes Merkle
Date: November 3, 2022
Subject: #2202 Lift Station 8 Reconstruction

The subject project includes new larger pumps at Lift Station 8 (Ditch Road at Laurelwood), a backup generator, and constructing a new force main north to tie into the new force main manifold near 106th Street and Ditch Road. These improvements will provide buildout wet weather capacity at this lift station by allowing the lift station to send flow directly to the plant. Staff's successful I&I reduction efforts in this basin reduced buildout capacity by nearly 30 percent.

The following bids were received for the subject project:

Brackney, Inc.	\$1,189,500
Lykins Contracting, LLC	\$1,555,790
Ottenweller Contracting, LLC	\$1,826,000

Brackney asked to withdraw their bid due to a substantial mistake of leaving out cost for an electrical subcontractor.

The 2022 Capital Budget included \$1,700,000 overall for this project. Pumps and spare parts, variable frequency drives, emergency generator, automatic transfer switch, and engineering design services already procured amount to \$373,038. Staff estimates \$70,000 for the control panel. Design engineer Commonwealth's estimate for the work was approximately \$1.5 million.

Recommended Action: Award the Lift Station 8 construction contract to Lykins Contracting, LLC for \$1,555,790.



MEMORANDUM

To: C&C Committee
From: Wes Merkle
Date: November 3, 2022
Subject: #2207 Lift Station 26 Parallel Force Main

This project includes the extension of the parallel force main along Springmill Road from Jackson's Grant to the new parallel interceptor at 111th Street. This project provides additional capacity for the northeast quarter of our service area including the Springmill Interceptor. The original lift station design included a second larger force main, which is the next step towards buildout capacity of this lift station.

The following bids were received for the subject project:

TPI Utility Construction, LLC	\$1,431,600
TSW Utility Solutions, Inc.	\$1,496,330
Lykins Contracting, LLC	\$1,552,900
Midwest Mole, Inc.	\$1,667,125
Brackney, Inc.	\$1,922,125

TPI was the lowest responsive and responsible bidder.

The 2022 Capital Budget included \$1,700,000 overall for this project. Engineering design services are \$68,800.

Recommended Action: Award the Lift Station 26 Parallel Force Main construction contract to TPI Utility Construction, LLC for \$1,431,600.



MEMORANDUM

To: C&C Committee
From: Wes Merkle
Date: November 3, 2022
Subject: 2023 Capital Budget

In 2022 staff completed or expects to complete the following projects:

- #1902 WRRF Expansion
- Lift Station 2 Pump 3 Replacement (106th/Spring Mill Road)
- Lift Station 11 Flow Meter Vault (106th/Bennett Parkway)
- Lift Station 17 Pump Impeller Upsizing (Michigan Road/Greenfield Road)
- Lift Station 18 & 20 Pump Replacements (96th/Michigan & Mayflower Park)
- Portable Generator Replacements

The following projects were or will be designed and bid in 2022, with construction or installation to be completed in 2023:

- #2201 Lift Station 1 wet weather pump replacements (Keystone/99th Street)
- #2202 Lift Station 8 Reconstruction (Laurelwood)
- #2203 Biosolids Building Addition
- #2204 Lift Station 11 Added Generator (106th/Bennett Parkway)
- #2205 Lift Station 14 Generator and Controls Replacement (Austin Oaks)
- #2206 Lift Station 26 Added Generator (Jackson's Grant)
- #2207 Lift Station 26 Parallel Force Main (Jackson's Grant)
- #2208 Lift Station 16 Replacement/Relocation (Michigan Road/Sycamore)
- Lift Station 21 Pump and Discharge Piping Replacement (High Grove)

Staff will begin design of the following projects in 2023, with construction completed in 2024:

- #2301 Lift Station 10 Upgrades (Ashbrook)
- #2302 Lift Station 23 Upgrades (126th Street near West Clay Elementary)

The 2022 Capital Budget included \$20.5 million in spending from 2022 through 2027. The draft 2023 Capital Budget includes \$22.6 million for that same period. Increased spending is primarily due to increased construction and equipment pricing and added/scheduled plant and collection system equipment replacements. Changes will be discussed at the committee meetings. Staff adjusted ongoing and future projects in the capital budget after bids were received on November 2 for three larger projects (#2202, 2203, and 2207).

2023 Capital Budget - DRAFT

CAPITAL BUDGET LAST UPDATED 11/2/2022

See project fact sheets for more information on individual projects

Location	Project No.	Project	Near-term Priority	Year needed Earliest	Year needed Latest	Year Budgeted	Manager In Charge	Funding Source	2022 Budget	2022 Spending Thru Sept	2022 Total Projected Spending	2022 projected spending Oct-Dec	Year 1	Year 2	Year 3	Year 4	Year 5	Note	Change from 2022 Approved Capital Budget to 2023 Draft Capital Budget	
													2023	2024	2025	2026	2027			
WRRF	Michigan Road Water Resource Recovery Facility																			
	1902	WRRF Expansion	High	2020	2022	2019-22	WM	Bond Proceeds	\$ 200,000	\$ 1,126,471	\$ 1,326,471	\$ 200,000								
	2203	Biosolids building addition	High	2020	2023	2022-23	WM	Operating	\$ 200,000	\$ 24,409	\$ 44,409	\$ 20,000	\$ 400,000						Climate controlled storage vector truck & equip	Cost adjusted but bids for in exceedance.
		Pretreat building/Mayflower landscape	Medium	2022	2023	2022-23	WM	Operating	\$ 60,000	\$ -	\$ -	\$ -	\$ 60,000						Screen building along Mayflower Pk Dr w trees & shrubs	Moved to 2023
		Plant signage, Office outreach displays & accoustic improvements	High	2021	2023	2022-23	WM	Operating	\$ 40,000	\$ 1,497	\$ 1,497	\$ -	\$ 40,000							Moved to 2023
	2601	WRRF Belt filter press replacement	Medium	2025	2027	2025-27	WM	Reserve for Replacement							\$ 150,000	\$ 2,100,000				
		Plant Pump Replacments	Medium	2021	2025	2024	SW	Reserve for Replacement					\$ 110,000						Replacement pumps for the digesters, lift station, scum station 47, RASP 55-01+WASP55-02.	
		Clarifier 4 scum collection upgrade	Medium	2022	2027	2026	WM	Reserve for Replacement								\$ 150,000			Convert to a full radius scum beach	
		Replace Clarifier 4,5,6 unitube headers	Low	2026	2030	2026	WM	Reserve for Replacement								\$ 100,000			Replace equipment due to deterioration	
		RAS4&5 VFD Replacement	High	2023	2025	2024	SW	Reserver for Replacement	\$ -	\$ -	\$ -	\$ -		\$ 50,000					Replace aging VFDs and controls for RASP55-01,-02,WASP55-01	Added to budget
		Annual Plant Improvement & Repair Projects				annual	SW	Operating	\$ 150,000	\$ -	\$ -	\$ -	\$ 150,000	\$ 150,000	\$ 150,000	\$ 150,000	\$ 150,000	\$ 150,000	Typical annual expenditures	
LS 1	Carmel Creek																			
	2201	LS 1 Replace wet weather pumps	High	2020	2023	2022-23	WM	Reserve for Replacement	\$ 275,000	\$ 1,818	\$ 285,818	\$ 284,000	\$ 140,000						Replace equipment at the end of its service life.	Cost adjusted for bids received
		LS 1 Replace/upsize dry weather pumps	Low	2027	2030	2030	WM	Reserve for Replacement											Replace equipment at the end of its service life.	
		LS1 ARV Replacement Project	Medium	2022	2024	2023	AS	Reserve for Replacement	\$ 80,000	\$ -	\$ -	\$ -	\$ 80,000						Replace 3 non-functional ARV's	Moved project to 2023
		Surge Relief Valves LS1 & LS 2	Medium	2022	2024	2023	AS	Reserve for Replacement			\$ -		\$ 55,000						Units Obsolete, water hammer could cause FM break	
LS 2	Meridian Corridor																			
	2801	106th Street Parallel Force main (LS 2 to Ditch Road)	Low	2024	2028	2028	WM	Interceptor											Timing is based on when capacity is needed.	
		LS 2 Replace Pump 3	High	2022	2030	2022	WM	Reserve for Replacement	\$ 100,000	\$ 70,138	\$ 90,138	\$ 20,000							Replace equipment near the end of its service life, eliminate macerators and reduce power consumption.	
LS 3	Northern Heights																			
		Pump Replacement	Low	2029	2033	2031	AS	Reserve for Replacement											Replace equipment at the end of its service life.	
LS 5	Spring Mill Streams																			
	2701	Interceptor extension & lift station elimination	Low	2022	2033	2027	WM	Interceptor									\$ 500,000		Combine this project with the LS19 elimination project.	
LS 6	Waldon Pond																			
	2401	Interceptor extension & lift station elimination	Medium	2020	2028	2023-24	WM	Interceptor					\$ 50,000	\$ 900,000					Timing is development driven. Some 99th St residents have requested sewer service recently.	
LS 7	Laurelwood Sub																			
		Pump replacements	Low	2025	2028	2028	AS	Reserve for Replacement											Replace equipment at the end of its service life.	
LS 8	Laurelwood																			
	2202	LS 8 Reconstruction	High	2020	2023	2022-23	WM	Operating	\$ 1,400,000	\$ 79,725	\$ 89,725	\$ 10,000	\$ 1,900,000						Wet weather capacity and redundancy needed	Cost adjusted for bids received - const in '23
LS 9	Towne Road																			
		Pump & control panel replacement	Low	2029	2032	2030	AS	Reserve for Replacement												
LS 10	Michigan Road																			
	2301	LS 10 Replace pumps, wet well piping, controls, backup generator	High	2020	2024	2023-24	WM	Reserve for Replacement	\$ 75,000	\$ -	\$ -	\$ -	\$ 100,000	\$ 1,000,000					Wet weather capacity needed. Scope is pending force main troubleshooting	Moved project to 2025
LS 11	Boone County																			
		LS 11 Added Meter Vault	High	2022	2022	2022	WM	Reserve for Replacement	\$ 25,000	\$ -	\$ 25,000	\$ 25,000							Existing meter location is not effective	
	2204	Backup generator	Medium	2022	2025	2022-23	WM	Operating	\$ 100,000	\$ 20,205	\$ 20,205	\$ -	\$ 50,000						Location has occasional outages with little storage and time for emergency response	Cost adjusted for bids received
LS 12	Kingsmill																			
		(no projects)																		
LS 14	Austin Oaks																			
	2205	LS 14 Generator & control upgrades	Medium	2019	2023	2022-23	WM	Reserve for Replacement	\$ 300,000	\$ 8,860	\$ 8,860	\$ -	\$ 200,000						Replace equipment at the end of its service life.	Cost adjusted for bids received
		Pump Replacement	Medium	2022	2034	2024	WM	Reserve for Replacement					\$ 125,000						Based on repair history staff does not expect pumps to last expected 20 years in service	
	2502	LEC Interceptor extension	Medium	2019	2025	2024-25	WM	Interceptor	\$ 1,150,000	\$ 22,170	\$ 22,170	\$ -	\$ 200,000	\$ 1,100,000					Extend service to multiple developments	
LS 16	Zionsville Presbyterian																			
	2208	LS 16 Replacement/relocation	High	2022	2023	2022-23	WM	Interceptor	\$ 700,000	\$ 29,470	\$ 49,470	\$ 20,000	\$ 950,000						Timing is development driven.	Cost adjusted for bids received
LS 17	Zion Hills																			
		LS 17 Upsize Impellers	High	2022	2022	2022	WM	Interceptor	\$ 30,000	\$ -	\$ 45,000	\$ 45,000							Additional capacity needed	
	2501	LS 17 Pump & electrical upgrades	Medium	2022	2025	2024-25	WM	Reserve for Replacement					\$ 50,000	\$ 1,450,000					Timing is based on when capacity is needed.	Moved project to 2025
LS 18	Train Express																			
		Pump replacements	Medium	2022	2022	2022	AS	Reserve for Replacement	\$ 40,000	\$ 33,039	\$ 13,039	\$ (20,000)							Replace pumps at the end of their service life.	
LS 19	Village of West Clay																			
	2701	Interceptor extension & lift station elimination	Low	2022	2028	2027	WM	Interceptor									\$ 1,500,000		Combine this project with the LSS elimination project.	
LS 20	Mayflower Park																			
		Pump replacement	Medium	2022	2022	2022	AS	Reserve for Replacement	\$ 40,000	\$ -	\$ 13,000	\$ 13,000							Replace equipment at the end of its service life.	
LS 21	High Grove																			
		Pump replacement	High	2022	2023	2022-23	AS	Reserve for Replacement	\$ 50,000	\$ 1,416	\$ 23,416	\$ 22,000	\$ 30,000						Replace equipment at the end of its service life.	
	2901	Interceptor extension & lift station elimination	Low	2022	2035	2029	WM	Interceptor											Timing is development driven - unlikely to move forward soon due to recent property acquisition.	
LS 22	North Augusta																			
		(no projects)																		
LS 23	126th Street																			
	2302	LS 23 Pump & electrical upgrades	High	2022	2024	2023-24	WM	Reserve for Replacement	\$ 25,000	\$ -	\$ -	\$ -	\$ 50,000	\$ 400,000					Additional capacity needed	
LS 24	Parkwood West																			
		Pump & control panel replacement	Low	2025	2028	2025	WM	Reserve for Replacement							\$ 100,000				Replace equipment at the end of its service life.	
LS 25	Towne Oak Estates																			
		Pump replacement	Low	2029	2032	2029	AS	Reserve for Replacement											Replace equipment at the end of its service life.	

2023 Capital Budget - DRAFT

CAPITAL BUDGET LAST UPDATED 11/2/2022

See project fact sheets for more information on individual projects

Location	Project No.	Project	Near-term Priority	Year needed Earliest	Year needed Latest	Year Budgeted	Manager In Charge	Funding Source	2022 Budget	2022 Spending Thru Sept	2022 Total Projected Spending	2022 projected spending Oct-Dec	Year 1	Year 2	Year 3	Year 4	Year 5	Note	Change from 2022 Approved Capital Budget to 2023 Draft Capital Budget		
													2023	2024	2025	2026	2027				
LS 26	Jacksons Grant																				
	2206	LS 26 Backup Generator	Medium	2022	2025	2022-23	WM	Operating	\$ 175,000	\$ -	\$ -	\$ -	\$ 150,000						Cost adjusted for bids received		
	2207	LS 26 Parallel Force Main	High	2022	2023	2022-23	WM	Interceptor	\$ 1,000,000	\$ 40,100	\$ 50,100	\$ 10,000	\$ 1,600,000						Additional capacity needed Cost adjusted for bids received		
	2702	LS 26 Additional pumps & controls	High	2022	2028	2027	WM	Interceptor									\$ 300,000		Install added pumps when LS 5/19 are tied in Cost adjusted		
LS 27	Haver Way	(no projects)																			
General collection system projects																					
		Annual Misc. Repairs, Replacements & Line Relocations	Medium			annual	AS	Reserve for Replacement	\$ 150,000	\$ 70,888	\$ 70,888	\$ -	\$ 150,000	\$ 150,000	\$ 150,000	\$ 150,000	\$ 150,000		Repairs are made as problems are found during televising.		
	2103	Long Brook, Bridlewood, 500S, US421, 136th St and Countrywood Sewer Extension	Medium	2021	2021	2021-22	WM	Interceptor	\$ -	\$ 126,686	\$ 126,686	\$ -							Board approved several added ELSE projects to original scope of work		
		Future Sewer Extension Projects	Medium			annual	WM	Interceptor	\$ 50,000	\$ -	\$ -	\$ -	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000			Extend service into unsewered areas Future estate lot sewer extensions		
Equipment																					
		Vehicles	Medium			varies	DW	Operating	\$ 50,000	\$ 51,861	\$ 51,861	\$ -	\$ 40,000	\$ 40,000	\$ 40,000	\$ 40,000	\$ 40,000		Scheduled Replacement of Aging Vehicles		
		Laboratory Equipment	Medium			varies	SW	Reserve for Replacement	\$ -	\$ -	\$ -	\$ -	\$ 5,000		\$ 5,000		\$ 5,000		Replacement and Upgrades to Lab equipment		
		Future annual equipment and software purchases	Medium					Reserve for Replacement	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 150,000	\$ 150,000	\$ 150,000	\$ 150,000		Annual capital purchases needed to maintain operations.		
		(2) 240/480 Selectable portable Gensets	Medium	2019	2023	2022	AS	Reserve for Replacement	\$ 230,000	\$ 77,472	\$ 207,472	\$ 130,000							Existing Generators are from 1985 & 1992		
		SCADA Switch Upgrades	High	2021	2021	2021	SW	Reserve for Replacement	\$ 375	\$ 400	\$ 400								Replace existing switches with gigabit switches		
		Low Pressure Valve Maintenance Project	High	2023	2025	2023	AS	Operating					\$ 20,000								
		Plow Replacement V42	Medium	2023	2024	2023	AS	Reserve for Replacement					\$ 10,000								
		Easement Clearing	High	2023	2024	2023	AS	Operating					\$ 35,000								
		CCTV Truck Replacement	High	2022	2024	2023/27	AS	Reserve for Replacement			\$ -		\$ 65,000					\$ 340,000	New Camera/Tractor/Winch, Push Full Replacement 2027 Full replacement moved to 2027; added equip.		
		Aquatech Replacement	Low	2026	2028	2025	AS	Reserve for Replacement			\$ -			\$ 350,000					Replace 2011 Freightliner Sewer Cleaning Truck Moved to 2025		
		Pump Truck Replacement	Medium	2024	2025	2024	AS	Reserve for Replacement			\$ -			\$ 175,000					Replace 2008 F550 Super Duty Crane service truck Adjusted price		
		LS Safety Net Replacement	High	2022	2022	2022	AS	Reserve for Replacement	\$ 10,000	\$ 8,803	\$ 8,803	\$ -							Safety issue, nets are showing wear, installed 2012		
		Security/Process Cameras	Medium	2022	2025	2023	SW	Operating	\$ 20,000	\$ -	\$ 20,000	\$ 20,000	\$ 10,000						Additional security/process cameras		
		Drying Bed Rehab	Medium	2022	2025	2023	SW	Reserve for Replacement	\$ -	\$ -	\$ -	\$ -	\$ 15,000						Replace runners that are dewed into the walls.		
		Chemical Line Replacement	High	2022	2022	2022	SW	Reserve for Replacement	\$ 10,000	\$ -	\$ 10,000	\$ 10,000							Replace the overhead run with underground piping.		
		Oil/Water Separator Rehab	High	2022	2022	2022	SW	Reserve for Replacement	\$ 10,000	\$ -	\$ 10,000	\$ 10,000							Repair the existing oil/water separator.		
		Onsite Backup Device Replacement	High	2022	2023	2022	SW	Reserve for Replacement	\$ 25,000	\$ 27,086	\$ 27,086	\$ -							A more ubiquitous solution that will be about \$4k/year less.		
		Redundant Switch Power Supplies	High	2022	2022	2022	SW	Reserve for Replacement	\$ 6,000	\$ 4,450	\$ 4,450	\$ -							Redundant power to keep all the office switches running in the event any of the 4 switches power supplies fail.		
		New Garage Door Openers	Medium	2021	2023	2022	SW	Reserve for Replacement	\$ 8,000	\$ 9,587	\$ 9,587	\$ -							Replacement garage doors to replace the 20+ year old doors.		
		Asset Management Software	High	2021	2022	2021-22	DW	Reserve for Replacement	\$ 10,000	\$ 18,750	\$ 18,750	\$ -							Best in Class asset management software		
		SL Rat	High	2022	2022	2022	AS	Operating	\$ 28,225	\$ 28,225	\$ 28,225	\$ -									
		Actuator Replacement PTB&WAS4&5	High	2023	2023	2023	SW	Reserver for Replacement	\$ -	\$ -	\$ -	\$ -	\$ 40,000						Added to budget		
		Flow Meter Replacement	medium	2023	2023	2023	SW	Reserver for Replacement	\$ -	\$ -	\$ -	\$ -	\$ 55,000						Added to budget		
		Kubota Replacement	medium	2023	2024	2023	SW	Reserver for Replacement	\$ -	\$ -	\$ -	\$ -	\$ 20,000						Added to budget		
		Office Irrigation	medium	2023	2024	2023	SW	Operating	\$ -	\$ -	\$ -	\$ -	\$ 20,000						Added to budget		
		Office Humidors	medium	2023	2024	2023	SW	Operating	\$ -	\$ -	\$ -	\$ -	\$ 15,000						Added to budget		
		Chemical Buidling Garage Door	High	2023	2023	2023	SW	Reserver for Replacement	\$ -	\$ -	\$ -	\$ -	\$ 10,000						Added to budget		
		HACH Equipment Replacment	High	2023	2023	2023	SW	Reserver for Replacement	\$ -	\$ -	\$ -	\$ -	\$ 70,000						Added to budget		
		Post Aeration Electrical Upgrades	medium	2023	2023	2023	SW	Operating	\$ -	\$ -	\$ -	\$ -	\$ 15,000						Added to budget		
Administration Projects																					
		Speed Humps on Mayflower Park Drive	High	2022	2022	2022	DW	Operating													
									Totals	\$ 6,822,600	\$ 1,883,526	\$ 2,702,526	\$ 819,000	\$ 6,650,000	\$ 3,550,000	\$ 3,695,000	\$ 2,890,000	\$ 3,135,000			
									Bond Proceeds	\$ 200,000	\$ 1,126,471	\$ 1,326,471	\$ 200,000	\$ -	\$ -	\$ -					
									Operating	\$ 2,223,225	\$ 205,922	\$ 255,922	\$ 50,000	\$ 2,905,000	\$ 190,000	\$ 190,000	\$ 190,000	\$ 190,000			
									Reserve for Replacement	\$ 1,469,375	\$ 332,707	\$ 826,707	\$ 494,000	\$ 900,000	\$ 2,160,000	\$ 2,355,000	\$ 2,650,000	\$ 645,000			
									Plant Expansion	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -		
									Interceptor	\$ 2,930,000	\$ 218,426	\$ 293,426	\$ 75,000	\$ 2,650,000	\$ 1,150,000	\$ 1,150,000	\$ 50,000	\$ 2,300,000			
									Total	\$ 6,822,600	\$ 1,883,526	\$ 2,702,526	\$ 819,000	\$ 6,455,000	\$ 3,500,000	\$ 3,695,000	\$ 2,890,000	\$ 3,135,000			



MEMORANDUM

To: C&C Committee

From: Wes Merkle

Date: November 3, 2022

Subject: Capital Project Updates

The following updates are provided for ongoing capital projects. Please refer to the Capital Project Fact Sheets for background information on individual projects.

- #1902 – TriCo WRRF Expansion

Punch list work continues. Staff continue reviewing change requests and closeout paperwork. Staff anticipates presenting a final change order to the C&C Committee soon.

- #2201 Lift Station 1 (Keystone/99th Street) Wet Weather Pump Replacement & Lift Station 2 (106th/Spring Mill) Pump #3 Replacement

All equipment has been delivered. Staff installed the new Pump 3 at Lift Station 2. Pump installation at Lift Station 1 includes wet well piping and lining, which will be completed by Pyramid Design and Construction. Work is expected to begin later this year.

- #2202 Lift Station 8 (Laurelwood) Reconstruction

Bids for construction will be presented to the C&C Committee. Construction is anticipated to run through summer of 2023.

- #2207 Lift Station 26 (Jackson's Grant) Parallel Force Main

Bids for construction will be presented to the C&C Committee. Construction is anticipated to run through summer of 2023.

- #2208 Lift Station 16 (Michigan/Sycamore Street) Reconstruction

GRW is finishing final plans. IDEM permits have been received. Staff plans to proceed with public bidding in November or December when The Farm

development project moves forward. Construction is anticipated to run through fall of 2023.

- #2204, 2205 and 2206 Lift Stations 11, 14 and 26 Backup Generators

Delivery of new generators and automatic transfer switches, control panel, and variable frequency drives is now anticipated in spring of 2023. Barth Electric plans to begin construction early spring.

- Lift Stations 18, 20 and 21 Pump Replacements and Lift Station 17 pump impeller upgrades

Equipment has been delivered. Staff will install new pumps at Lift Stations 18 and 20, and new pump impellers at Lift Station 17. Pump installation at Lift Station 21 includes wet well piping and valve replacement, which will be installed with aforementioned work at Lift Station 1 by Pyramid.

- Biosolids Building Addition

Bids for construction will be presented to the C&C Committee. Construction is anticipated to run through spring of 2023. The new space includes two bays – one for climate-controlled storage of the vector truck and the other for a workshop. This project incorporates lighting and HVAC improvements to the existing building.

Staff anticipates proceeding with design of the following projects early next year:

- #2301 Lift Station 10 (Ashbrook) Upgrades
- #2302 Lift Station 23 (126th Street/West Clay Elementary) Upgrades