DOWNERS GROVE SANITARY DISTRICT
GENERAL MANAGER'S REPORT
January 26, 2026

January Special Board Meeting

Copies of documentation for the following agenda items are enclosed for the January 26, 2026, meeting:

1) Proposed Agenda
2) Engineering Report on Facility Plan – Capital Improvements Plan
3) Memo – Facility Planning Next Steps

cc: AES, JMW, ME, BOLI, DM, CS

DOWNERS GROVE SANITARY DISTRICT
BOARD OF TRUSTEES SPECIAL MEETING
JANUARY 26, 2026 – 5:00 PM
BOARD ROOM

PROPOSED AGENDA

I. PUBLIC COMMENT

II. FACILITY PLAN UPDATE
   A. ENGINEERING REPORT – CAPITAL IMPROVEMENTS PLAN
   B. NEXT STEPS

PUBLIC COMMENT:

The District has an online form for the Public who cannot attend the meeting to submit public comment. District staff shall read aloud any received public comments during the Public Comment portion of the meeting. Public comments for Public not attending the meeting in person need to be submitted before 4:00 p.m. on January 26, 2026. The form can be found here: https://www.dgsd.org/government/public-comment/

BAXTER & WOODMAN
Consulting Engineers

Downers Grove Sanitary District

Facility Plan - Capital Improvements Plan

January 26, 2026

Agenda

- **Recap & Direction Forward**
- **Process Modifications & OPC**
  - Screening
  - Raw Sewage Pumping
  - Grit Removal
  - Primary Clarification
  - Biological Treatment
  - Secondary Clarification
  - Intermediate Clarification
  - Filtration
  - Disinfection
  - Excess Flow
  - Digestion
  - Solids Handling
- **Phased Approach**
- **Collections System Improvements**
- **Capital Improvements Plan**

Recap & Direction Forward

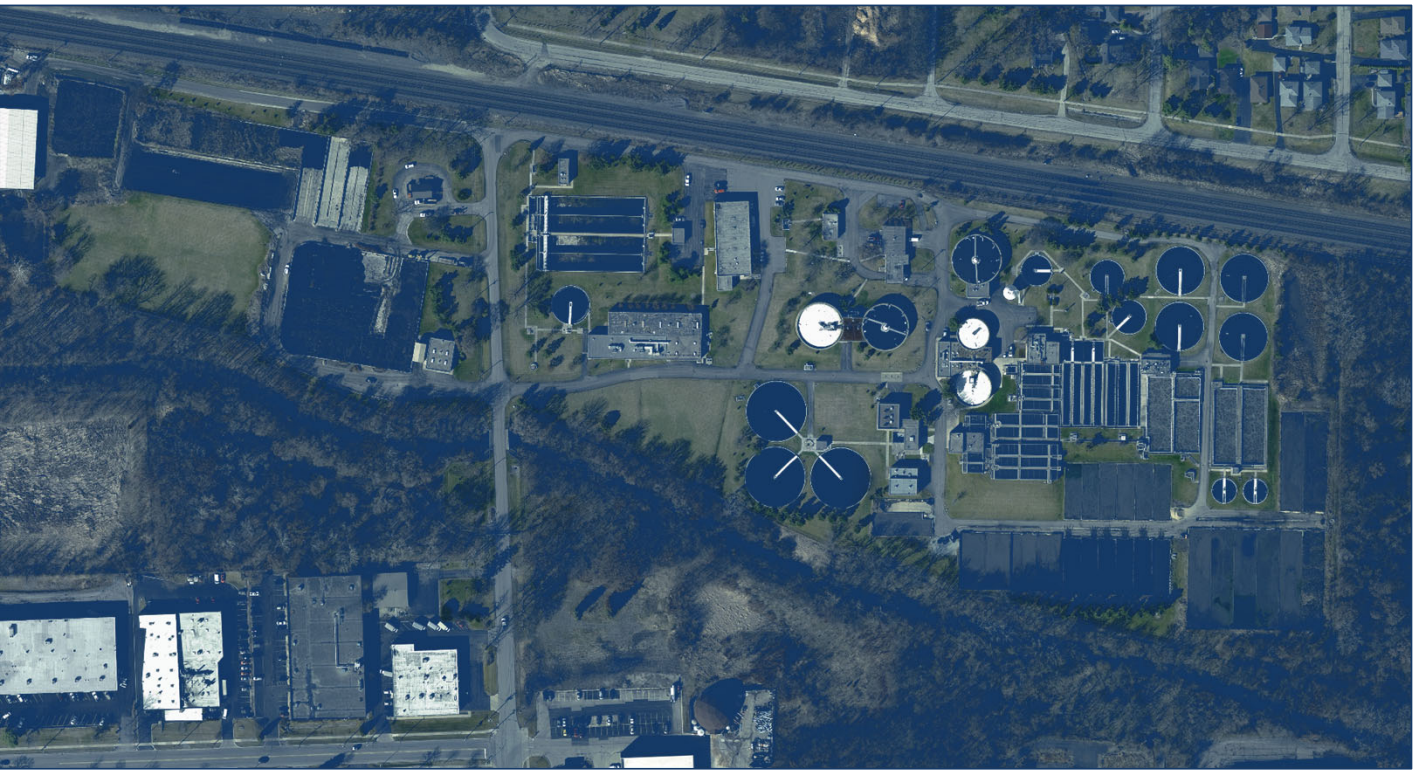
August Meeting Recap

- **Discussed what is a Facility Plan and Why DGSD needs one**
- **Reviewed Existing Conditions**
  - Aging equipment
  - Complicated Hydraulics
  - Upcoming Permit Requirements
- **Discussed proposed approach**

Direction Moving Forward

- **Agreement and understanding of recommended improvements**
- **Agreement with project phasing**
- **Review of Capital Plans**
- **Begin Phase 1 Design**

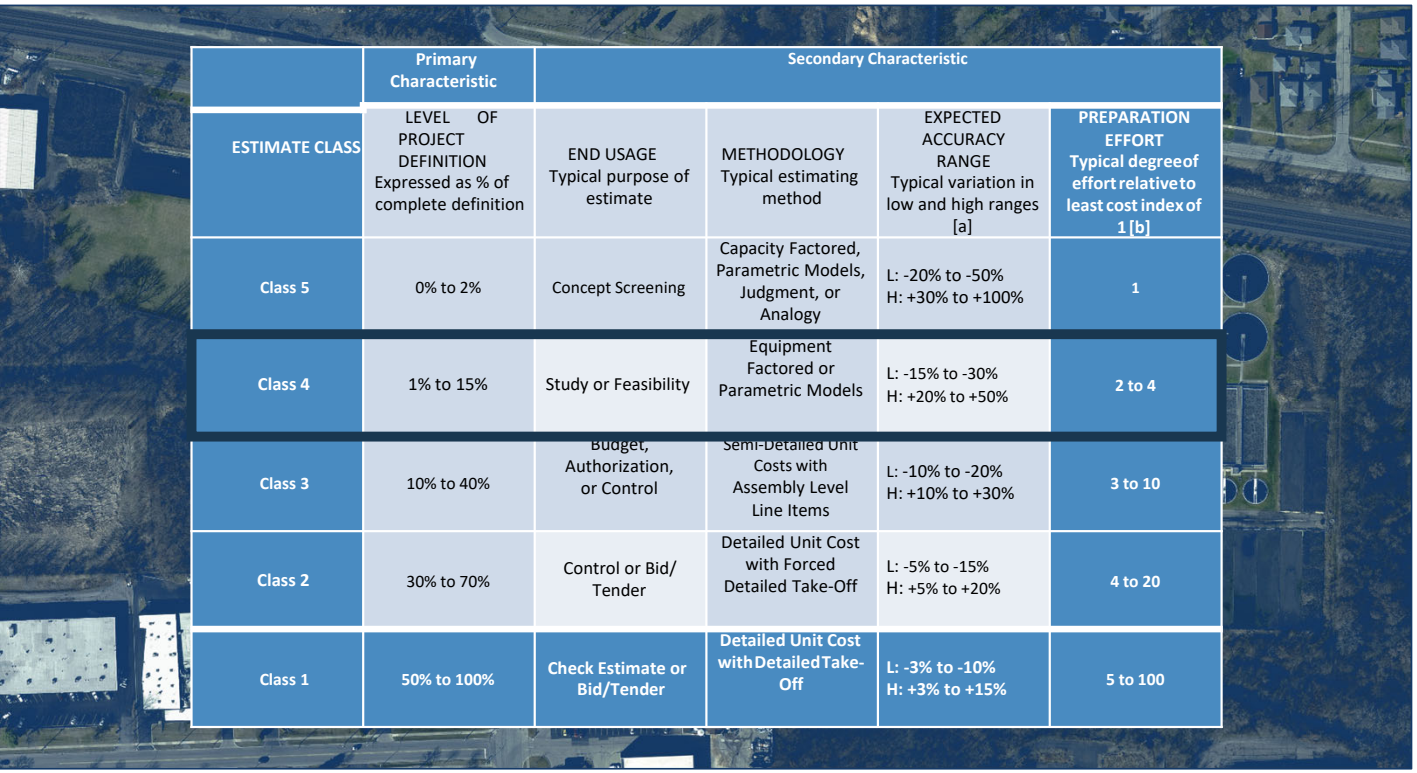
Process Modifications



Clarifications

- High level values based on AACE International Recommended Practice
- Using industry standard percentages for various specialties
  - 30% on Equipment for Install
  - HVAC, E&A, etc. for full building rehab
  - 30% Overall Contingency
  - 8% Design/Construction Fee (adjusted with Phase Contracts)
  - 1% Legal & Administrative – misc. costs incurred by the Client as a result of this project

Process Modifications



	Primary Characteristic	Secondary Characteristic			
ESTIMATE CLASS	LEVEL OF PROJECT DEFINITION Expressed as % of complete definition	END USAGE Typical purpose of estimate	METHODOLOGY Typical estimating method	EXPECTED ACCURACY RANGE Typical variation in low and high ranges [a]	PREPARATION EFFORT Typical degree of effort relative to least cost index of 1 [b]
Class 5	0% to 2%	Concept Screening	Capacity Factored, Parametric Models, Judgment, or Analogy	L: -20% to -50% H: +30% to +100%	1
Class 4	1% to 15%	Study or Feasibility	Equipment Factored or Parametric Models	L: -15% to -30% H: +20% to +50%	2 to 4
Class 3	10% to 40%	Budget, Authorization, or Control	Semi-Detailed Unit Costs with Assembly Level Line Items	L: -10% to -20% H: +10% to +30%	3 to 10
Class 2	30% to 70%	Control or Bid/ Tender	Detailed Unit Cost with Forced Detailed Take-Off	L: -5% to -15% H: +5% to +20%	4 to 20
Class 1	50% to 100%	Check Estimate or Bid/Tender	Detailed Unit Cost with Detailed Take-Off	L: -3% to -10% H: +3% to +15%	5 to 100

Clarifications

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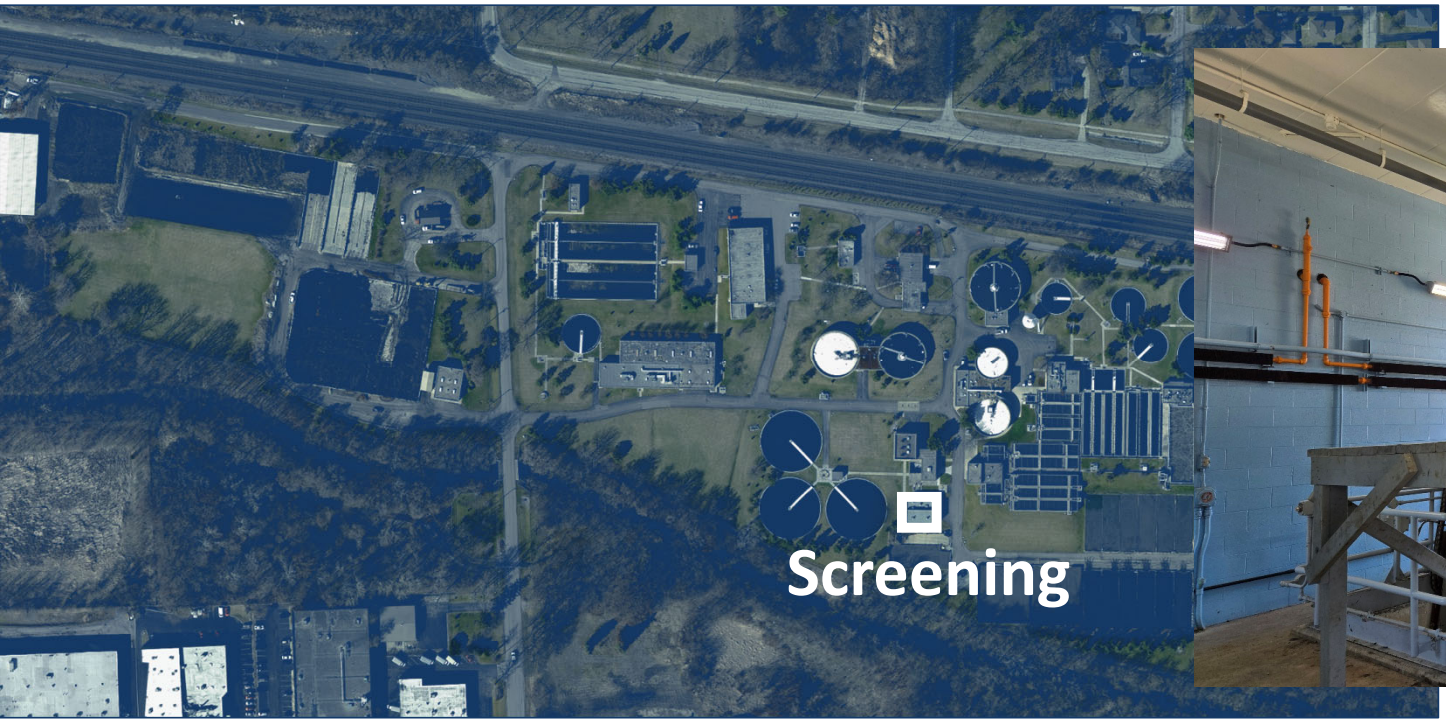
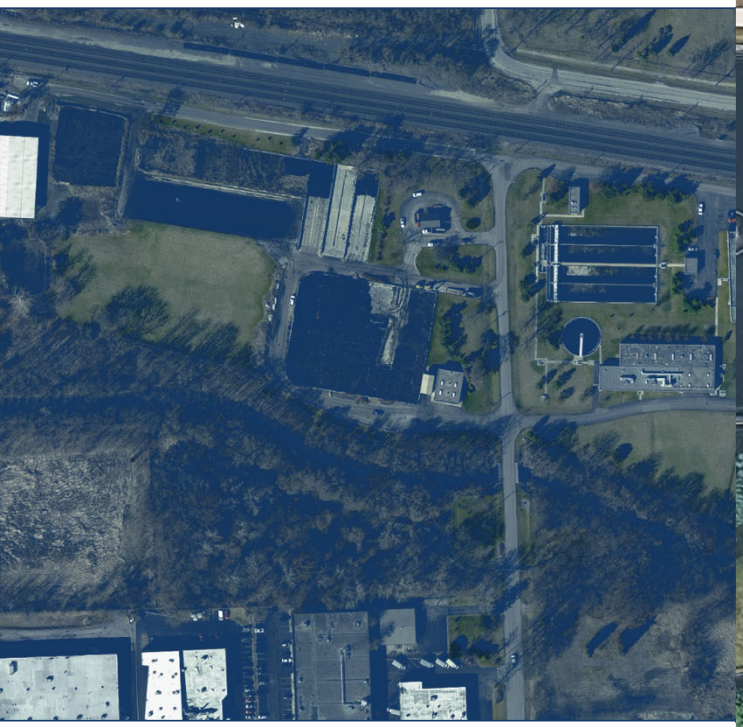
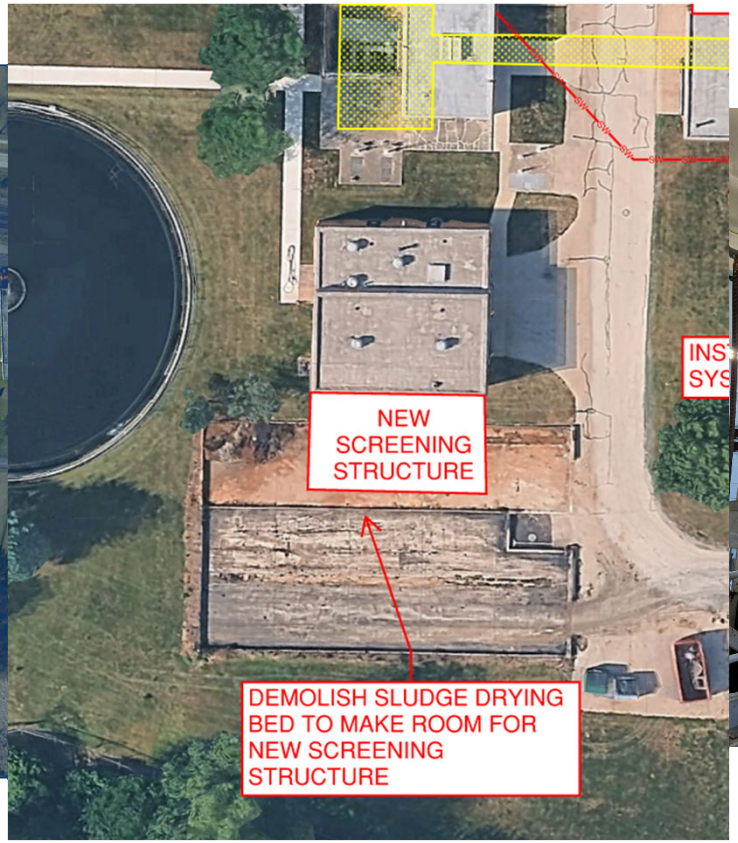


Screening

Process Modifications





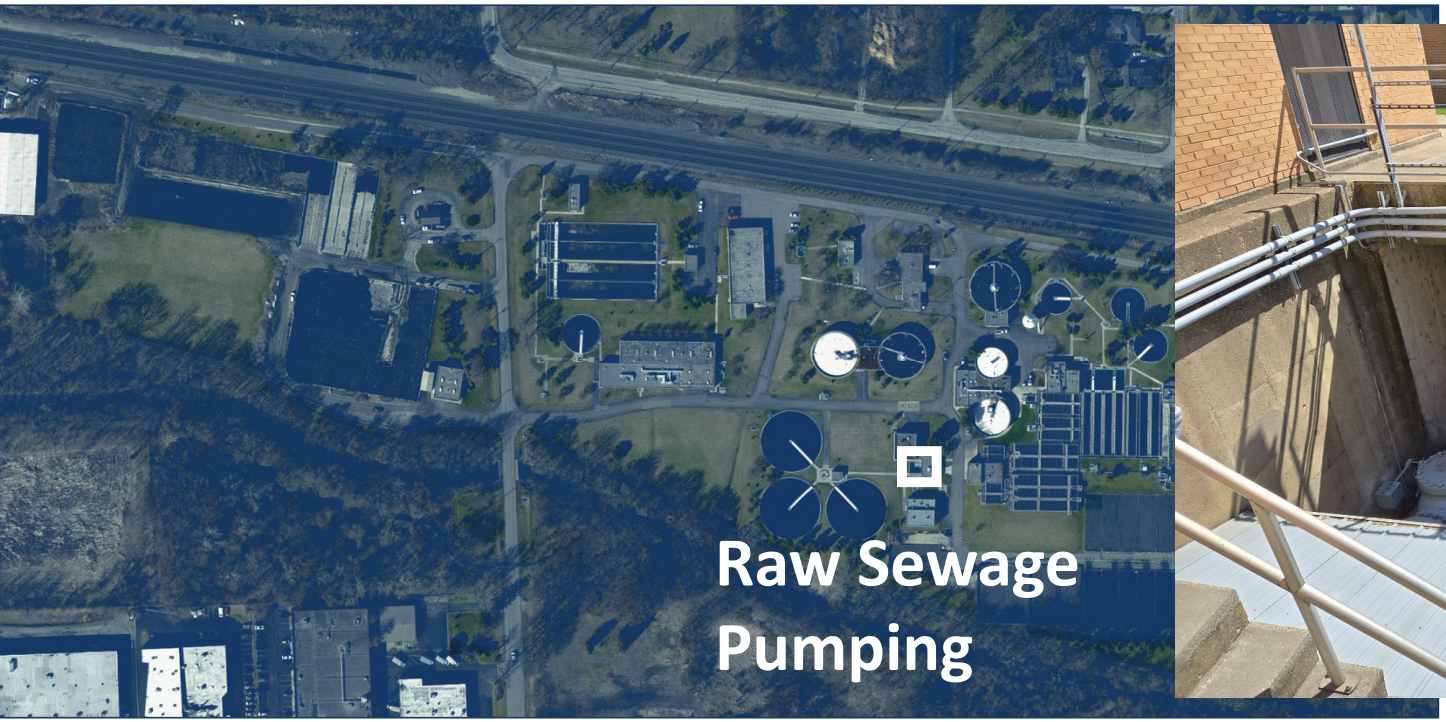
Process Modifications – Screening

Facility Plan Recommendation

- Provide (4) new screens
- Construct new Screening Structure
  - Housing (2) of the (4) new screens
- Construct a new, dedicated electrical room
- Does not include rework of influent sewers

BAR RACK AND MECHANICAL SCREENS		2025 $$
(4) New Screens		$1,969,000
New Screening Structure		$1,575,000
New Electrical Room		$166,000
Subtotal		**$3,710,000**
General Conditions	13%	$483,000
Sitework	10%	$371,000
Demolition	3%	$93,000
Misc Equipment Allowance (Pumps, etc.)	8%	$279,000
Site Piping	8%	$297,000
Subtotal w/ GC etc.		$5,233,000
HVAC	7%	$367,000
Electrical	21%	$1,099,000
Instrumentation	10%	$524,000
Subtotal		$7,223,000
Overhead, Profit, Bonds, & Insurance	12%	$870,000
Construction Cost		**$8,100,000**
Contingency	30%	$2,430,000
Construction Cost w/ Contingency		**$10,530,000**
Design	8.0%	$843,000
Construction Services	8.0%	$843,000
Legal & Administrative	1%	$106,000
Total Capital Cost		**$12,300,000**

Process Modifications



Process Modifications – Raw Sewage Pumping

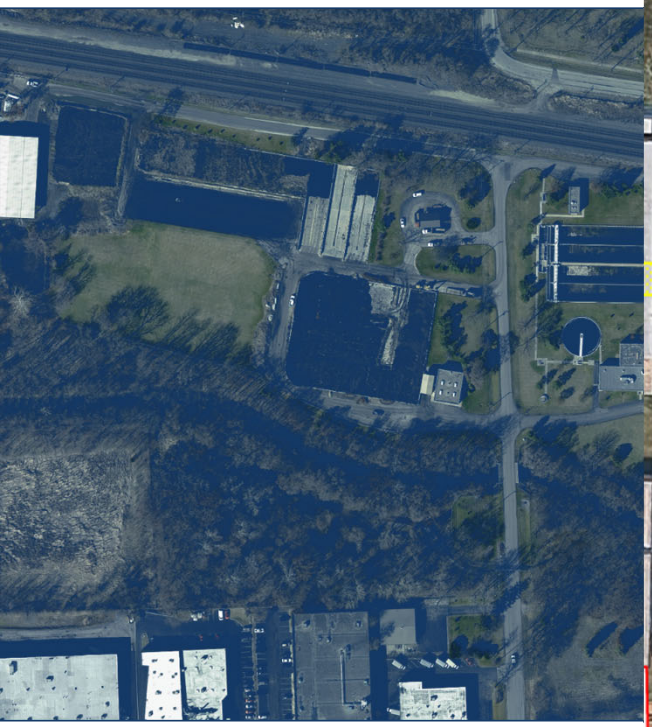
Facility Plan Recommendations

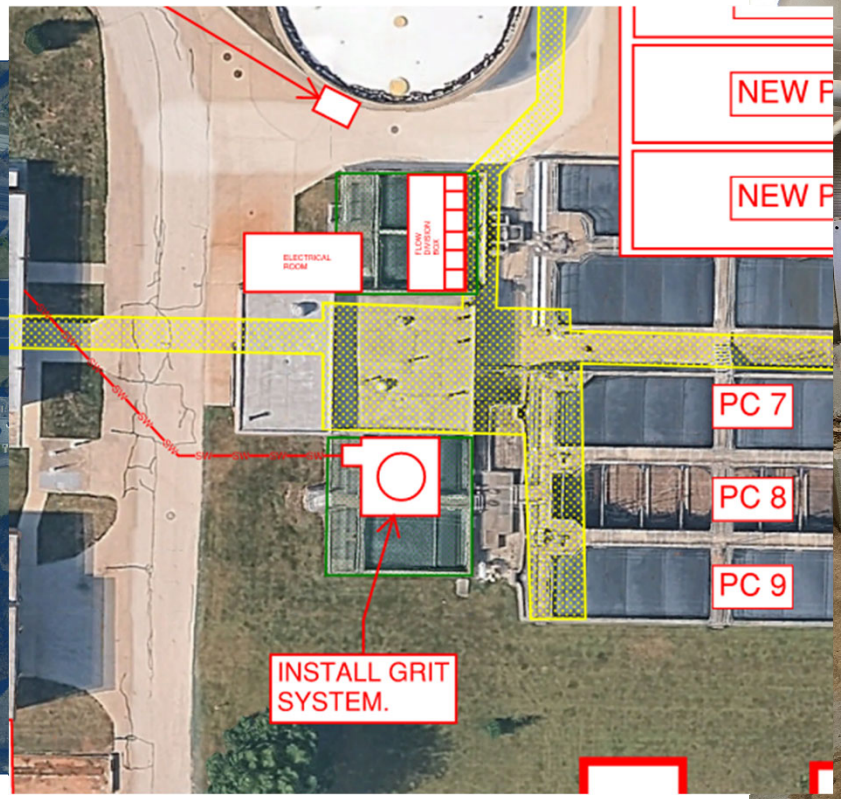
- Replace pumps
  - Revise pump selection as required with grit removal and potential influent routing modifications
- Replace suction (intake) and discharge valves

RAW SEWAGE PUMPS AND FLOW MONITORING		2025 $$
Replacement of Pumps 1-8		$2,288,000
New suction/intake valves for Pumps 1-9		$644,000
Replacement of Pump 9		$255,000
Subtotal		**$3,187,000**
General Conditions	13%	$415,000
Sitework	10%	$319,000
Demolition	3%	$80,000
Misc Equipment Allowance (Pumps, etc.)	8%	$240,000
Site Piping	8%	$255,000
Subtotal w/ GC etc.		**$4,496,000**
HVAC	7%	$315,000
Electrical	21%	$945,000
Instrumentation	10%	$450,000
Subtotal		**$6,206,000**
Overhead, Profit, Bonds, & Insurance	12%	$740,000
Construction Cost		**$6,900,000**
Contingency	30%	$2,070,000
Construction Cost w/ Contingency		**$8,970,000**
Design	8.0%	$718,000
Construction Services	8.0%	$718,000
Legal & Administrative	1%	$90,000
Total Capital Cost		**$10,500,000**

Process Modifications

Process Modifications





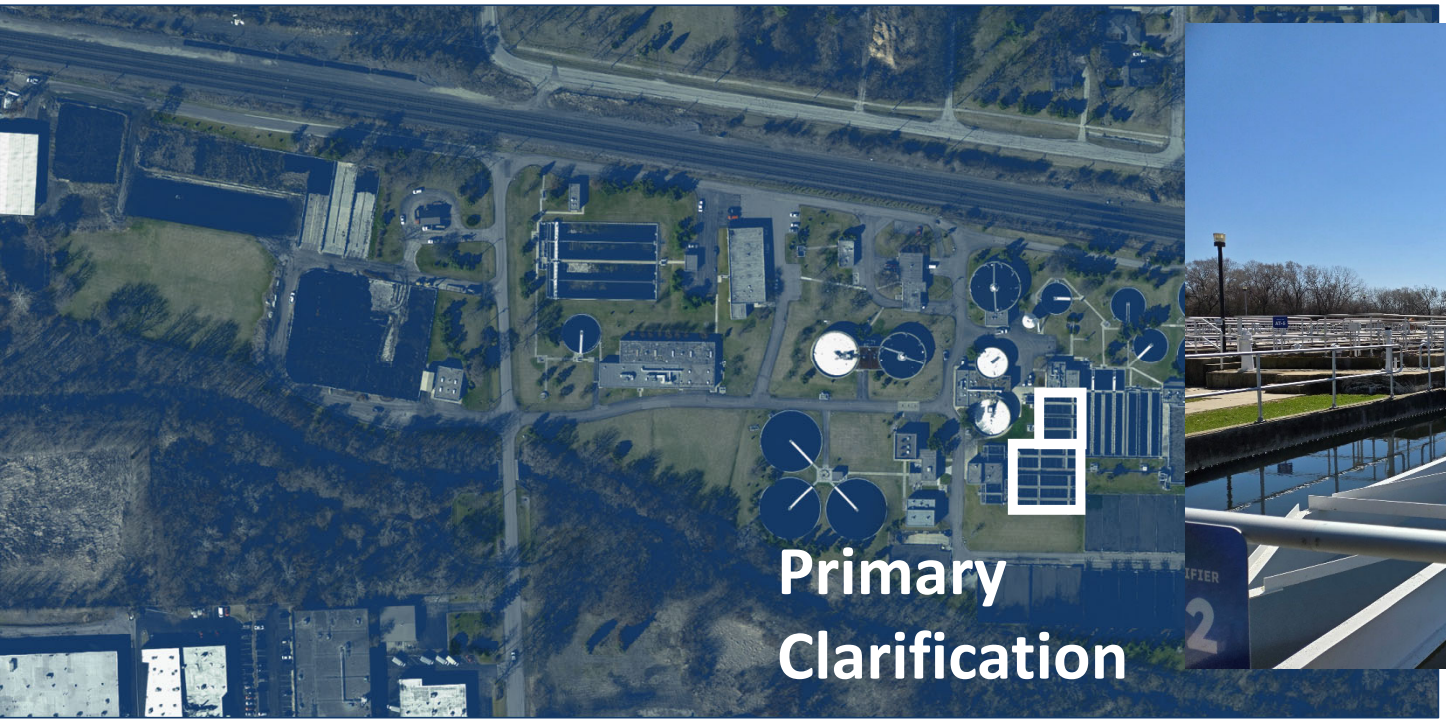
Process Modifications – Grit Removal

Facility Plan Recommendation

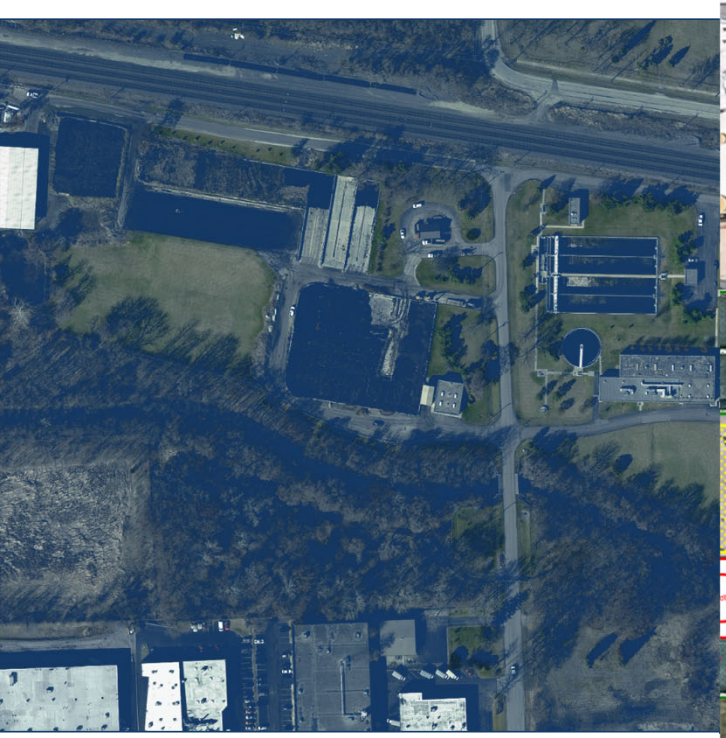
- Include replacement of the grit system
  - Budget for HeadCell technology
- Construct Flow Division Box to revise Primary Clarifier flow split
  - Include motorized weir gates for isolation of tanks
- Install Flow Meters on screened wastewater force mains
- Install (2) new classifiers and reconfigure layout
- Construct clean room for electrical equipment

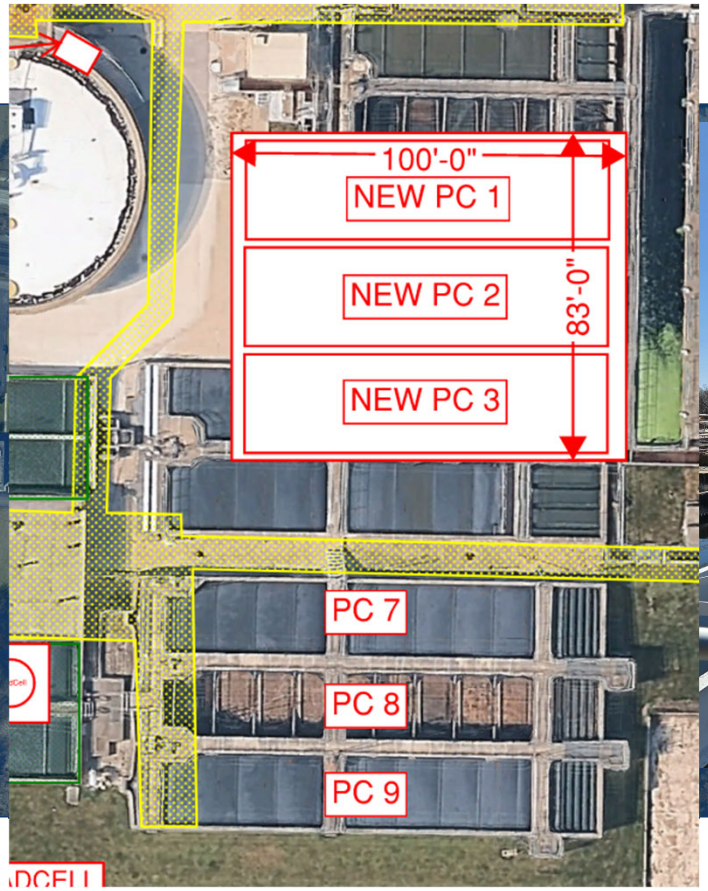
GRIT SYSTEM		2025 $$
New Grit system		$1,326,000
Flow Division Box		$130,000
(6) Motorized Weir Gates		$164,000
Flow Meter on Force Main to Grit System		$26,000
(2) New Classifiers		$266,000
New Electrical Room		$165,000
Subtotal		**$2,077,000**
General Conditions	13%	$271,000
Sitework	10%	$208,000
Demolition	3%	$52,000
Misc Equipment Allowance (Pumps, etc.)	8%	$156,000
Site Piping	8%	$167,000
Subtotal w/ GC etc.		**$2,931,000**
HVAC	7%	$206,000
Electrical	21%	$616,000
Instrumentation	10%	$294,000
Subtotal		**$4,047,000**
Overhead, Profit, Bonds, & Insurance	12%	$490,000
Construction Cost		**$4,500,000**
Contingency	30%	$1,350,000
Construction Cost w/ Contingency		**$5,850,000**
Design	8.0%	$468,000
Construction Services	8.0%	$468,000
Legal & Administrative	1%	$59,000
Total Capital Cost		**$6,800,000**

Process Modifications



Process Modifications





Process Modifications – Primary Clarification

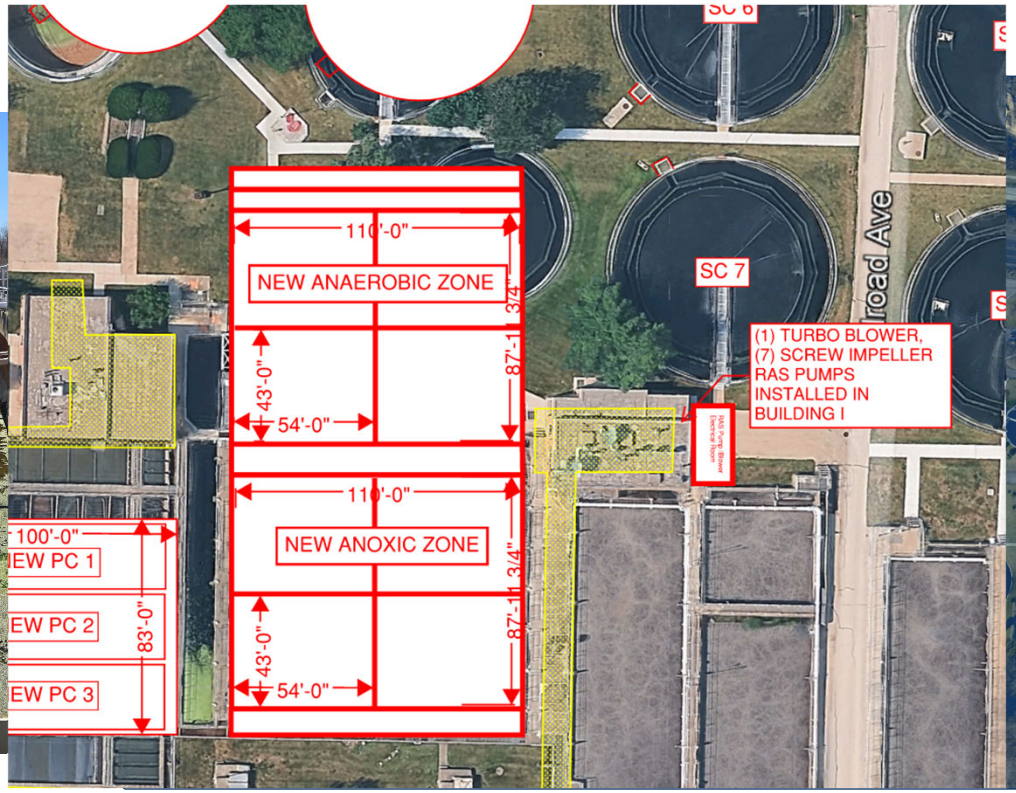
Facility Plan Recommendations

- Demo tanks 1-6
- Construct (3) new tanks with new mechanisms
- Replace mechanisms in existing clarifiers
- Automate gates between processes
- Added contingency given complexity of construction between tunnel and shared wall construction

PRIMARY CLARIFIERS		2025 $$
(3) New Primary Clarifiers - Concrete Tanks		$1,862,000
(3) New Primary Clarifiers - Mechanical Equipment		$806,000
Equipment Replacement in PC 7-9		$195,000
Structure Protection & Laydown	40%	$1,145,200
Subtotal		**$4,008,200**
General Conditions	13%	$522,000
Sitework	10%	$401,000
Demolition	3%	$101,000
Misc Equipment Allowance (Pumps, etc.)	8%	$301,000
Site Piping	8%	$321,000
Subtotal w/ GC etc.		**$5,654,200**
HVAC	0%	$0
Electrical	15%	$849,000
Instrumentation	6%	$340,000
Subtotal		**$6,843,200**
Overhead, Profit, Bonds, & Insurance	12%	$820,000
Construction Cost		**$7,700,000**
Contingency	30%	$2,310,000
Construction Cost w/ Contingency		**$10,010,000**
Design	8.0%	$801,000
Construction Services	8.0%	$801,000
Legal & Administrative	1%	$101,000
Total Capital Cost		**$11,700,000**

Process Modifications

Process Modifications



Process Modifications – Biological Treatment (BNR)

Facility Plan Recommendations

- Demo unused tanks 1-7
- Construct anoxic/anaerobic zones in space of the old aeration tanks, include influent (PE/RAS) splitter
- Install (1) turbo blower, remove old blowers
- Stainless steel piping modifications to improve air flow to all drops of revised aeration tanks
- Add mechanical mixers to anaerobic / anoxic zones
- Add nitrate recycle pumps
- Added contingency given complexity of construction between tunnel and shared wall construction

AERATION SYSTEM		2025 $$
AT 1-7 Demolition		$300,000
Anaerobic Zone/Anoxic Zone Construction		$6,900,000
SS aeration piping modifications		$65,000
(1) Turbo Blower		$211,000
Remove old blowers		$20,000
(8) Mechanical Mixers for Anaerobic/Anoxic Zones		$325,000
(4) Nitrate recycle pumps		$684,000
MLR Pipe		$321,000
Structure Protection & Laydown	40%	$3,530,000
Subtotal		**$12,356,000**
General Conditions	13%	$1,607,000
Sitework	10%	$1,236,000
Demolition	3%	$309,000
Misc Equipment Allowance (Pumps, etc.)	8%	$927,000
Site Piping	8%	$989,000
Subtotal w/ GC etc.		**$17,424,000**
HVAC	0%	$0
Electrical	21%	$3,660,000
Instrumentation	10%	$1,743,000
Subtotal		**$22,827,000**
Overhead, Profit, Bonds, & Insurance	12%	$2,740,000
Construction Cost		**$25,600,000**
Contingency	30%	$7,680,000
Construction Cost w/ Contingency		**$33,280,000**
Design	8.0%	$2,663,000
Construction Services	8.0%	$2,663,000
Legal & Administrative	1%	$333,000
Total Capital Cost		**$38,900,000**

Process Modifications – P&TN Removal

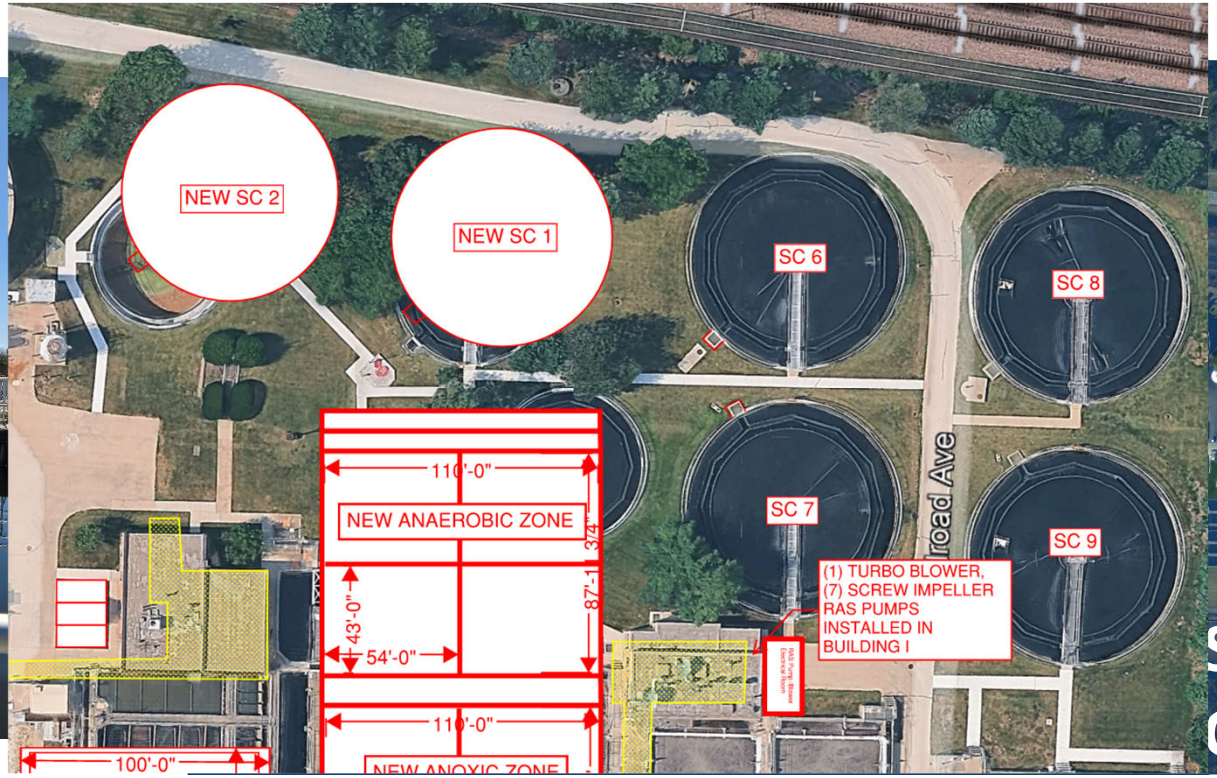
Faility Plan Recommendations

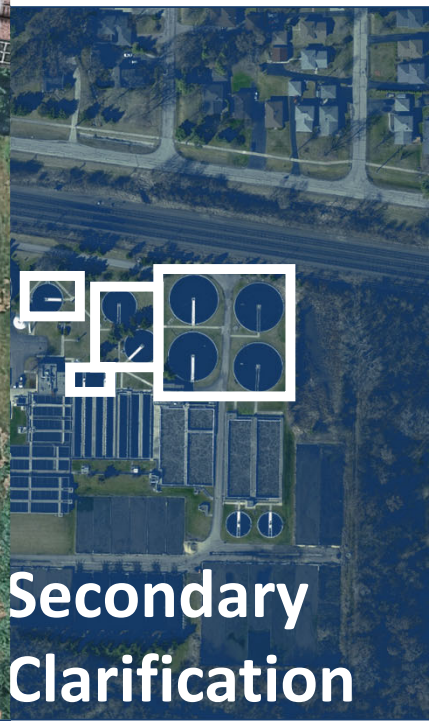
- Construct (2) new buildings for chemical feed systems
- Provide chemical storage tanks for Alum and Micro-C
- Install pump skids and miscellaneous system requirements

CHEMICAL FEED FOR PHOSPHORUS AND NITROGEN REMOVAL		2025$$
New Chemical Phosphorus Removal feed Building		$424,000
(2) 6100 gallon single wall tanks for aluminum sulfate		$63,000
(2) 50 gph aluminum sulfate skid		$71,500
New Micro-C feed Building		$424,000
(2) 6100 gallon single wall tanks for MicroC		$63,000
(2) 50 gph Micro-C feed skid		$71,500
(2) Tankless Water Heaters (for MicroC and Alum feed buildings)		$6,500
Subtotal		**$1,123,500**
General Conditions	13%	$147,000
Sitework	10%	$113,000
Demolition	3%	$29,000
Misc Equipment Allowance (Pumps, etc.)	8%	$85,000
Site Piping	8%	$90,000
Subtotal w/ GC etc.		**$1,587,500**
HVAC	7%	$112,000
Electrical	21%	$334,000
Instrumentation	10%	$159,000
Subtotal		**$2,192,500**
Overhead, Profit, Bonds, & Insurance	12%	$260,000
Construction Cost		**$2,500,000**
Contingency	30%	$750,000
Construction Cost w/ Contingency		**$3,250,000**
Design	8.0%	$260,000
Construction Services	8.0%	$260,000
Legal & Administrative	1%	$33,000
Total Capital Cost		**$3,800,000**

Process Modifications

Process Modifications





Process Modifications – Secondary Clarification

Facility Plan Recommendation

- Replace SCs 1-5 with (2) SCs
- Retain 6-9
  - SC 6-7 are shallow at 10 ft but will be retained
  - Update for peripheral trough (not inboard)
  - Replace mechanisms
- Flow meters, pinch valves, and automatic controls on splits to SC's
- Added contingency given complexity of construction with existing processes and shared walls

SECONDARY CLARIFIERS		2025 $$
(2) New Secondary Clarifiers - Concrete Tank		$1,768,000
(2) New Secondary Clarifiers - Mechanical Equipment		$894,000
(6) Weir Covers		$450,000
Structural Modifications in SC 6-9 for Peripheral Trough		$56,000
Equipment Replacement in SC 6-9		$442,000
(6) Pinch Valves for Flow Split to SC's		$741,000
(6) Valve Vaults for access to Pinch Valve/Flowmeter assy's		$390,000
(6) EM Flowmeters for Flow Split to SC's		$265,000
Structure Protection & Laydown	40%	$2,002,000
Subtotal		**$7,008,000**
General Conditions	13%	$912,000
Sitework	10%	$701,000
Demolition	3%	$176,000
Misc Equipment Allowance (Pumps, etc.)	8%	$526,000
Site Piping	8%	$561,000
Subtotal w/ GC etc.		**$9,884,000**
HVAC	0%	$0
Electrical	15%	$1,483,000
Instrumentation	6%	$594,000
Subtotal		**$11,961,000**
Overhead, Profit, Bonds, & Insurance	12%	$1,440,000
Construction Cost		**$13,400,000**
Contingency	30%	$4,020,000
Construction Cost w/ Contingency		**$17,420,000**
Design	8.0%	$1,394,000
Construction Services	8.0%	$1,394,000
Legal & Administrative	1%	$175,000
Total Capital Cost		**$20,400,000**

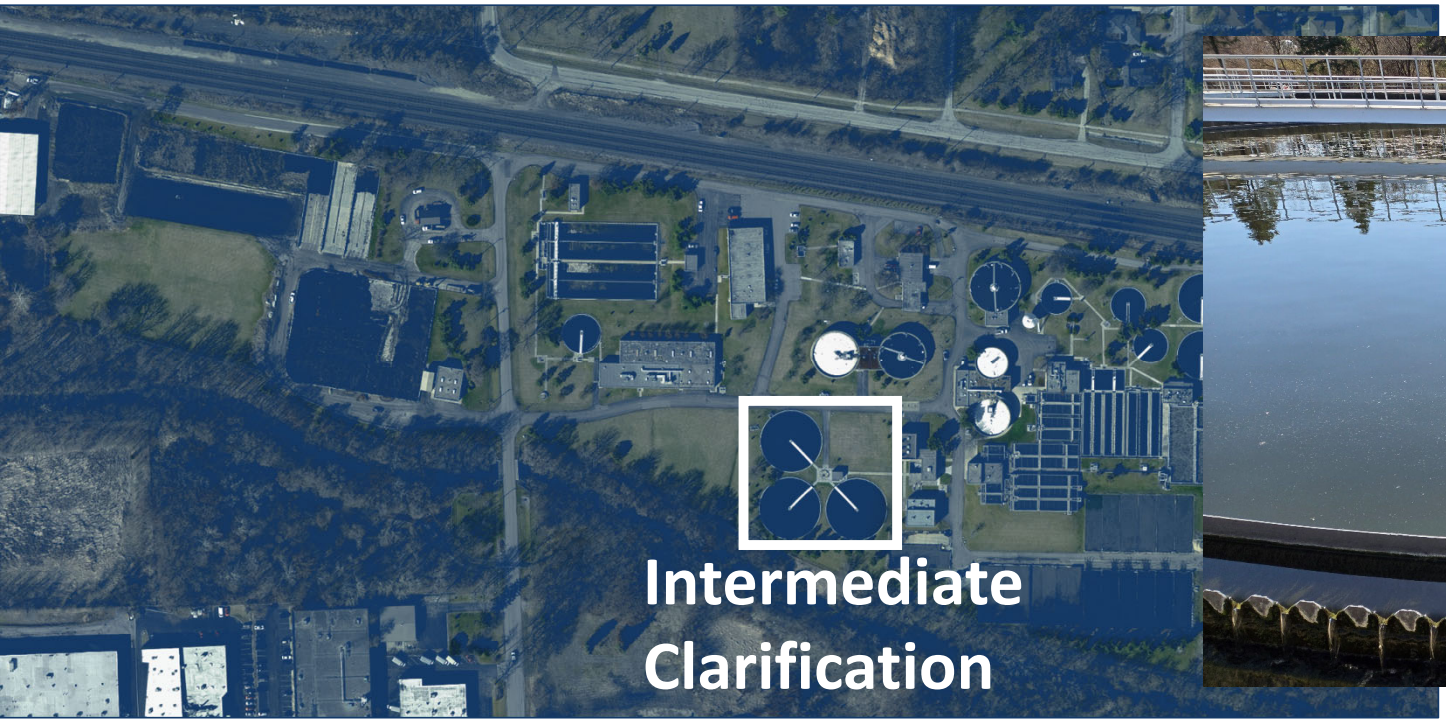
Process Modifications – RAS / WAS Pumping

Facility Plan Recommendation

- Install 6 duty + 1 standby pumps directly connected to the SCs
- Install RAS Flow meter on force main
- Construct new electrical room

RAS/WAS PUMPING		2025 $$
6 duty + 1 standby screw impeller pumps w/ VFDs		$498,000
RAS Flowmeter		$52,000
RAS Pump and Blower Control Room		$239,000
RAS Force Main		$122,000
Subtotal		**$911,000**
General Conditions	13%	$119,000
Sitework	10%	$92,000
Demolition	3%	$23,000
Misc Equipment Allowance (Pumps, etc.)	8%	$69,000
Site Piping	8%	$73,000
Subtotal w/ GC etc.		**$1,287,000**
HVAC	7%	$91,000
Electrical	21%	$271,000
Instrumentation	10%	$129,000
Subtotal		**$1,778,000**
Overhead, Profit, Bonds, & Insurance	12%	$210,000
Construction Cost		**$2,000,000**
Contingency	30%	$600,000
Construction Cost w/ Contingency		**$2,600,000**
Design	8.0%	$208,000
Construction Services	8.0%	$208,000
Legal & Administrative	1%	$26,000
Total Capital Cost		**$3,000,000**

Process Modifications

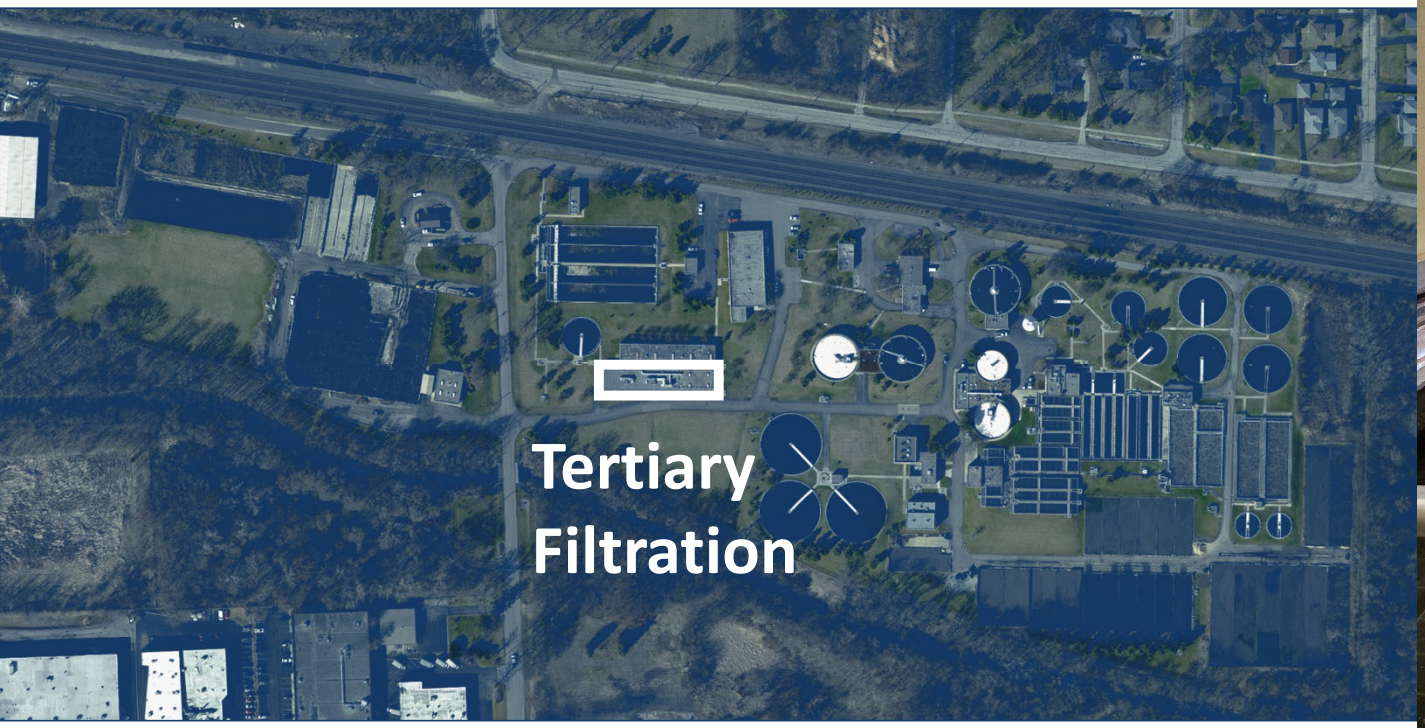


Process Modifications – Intermediate Clarification

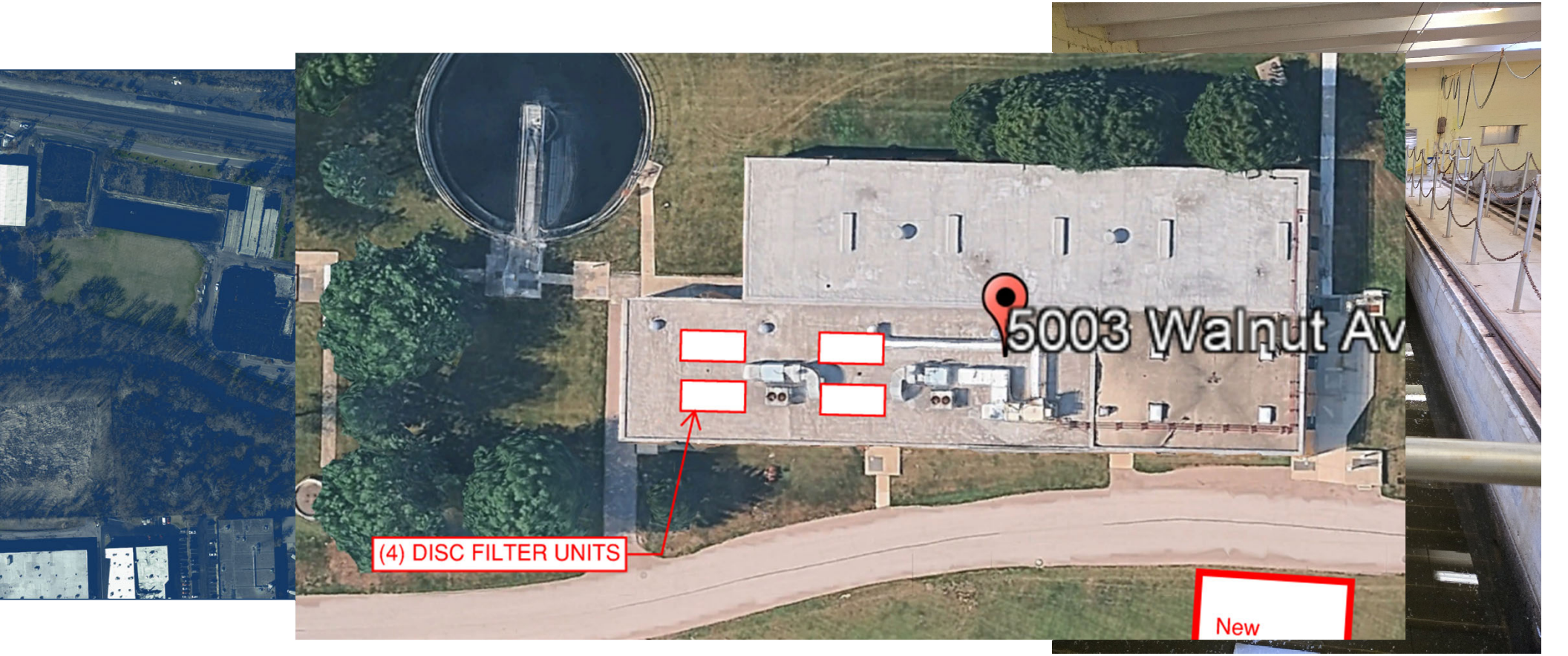
- **Facility Plan Recommendation**
  - Take ICs offline w/ SC improvements
    - ICs will be excess flow only
    - Keep piping and ability to send to ICs
  - Use existing sludge pump capabilities to drain the tanks after an excess flow event in the future.

No Costs Associated with Intermediate Clarification

Process Modifications



Process Modifications



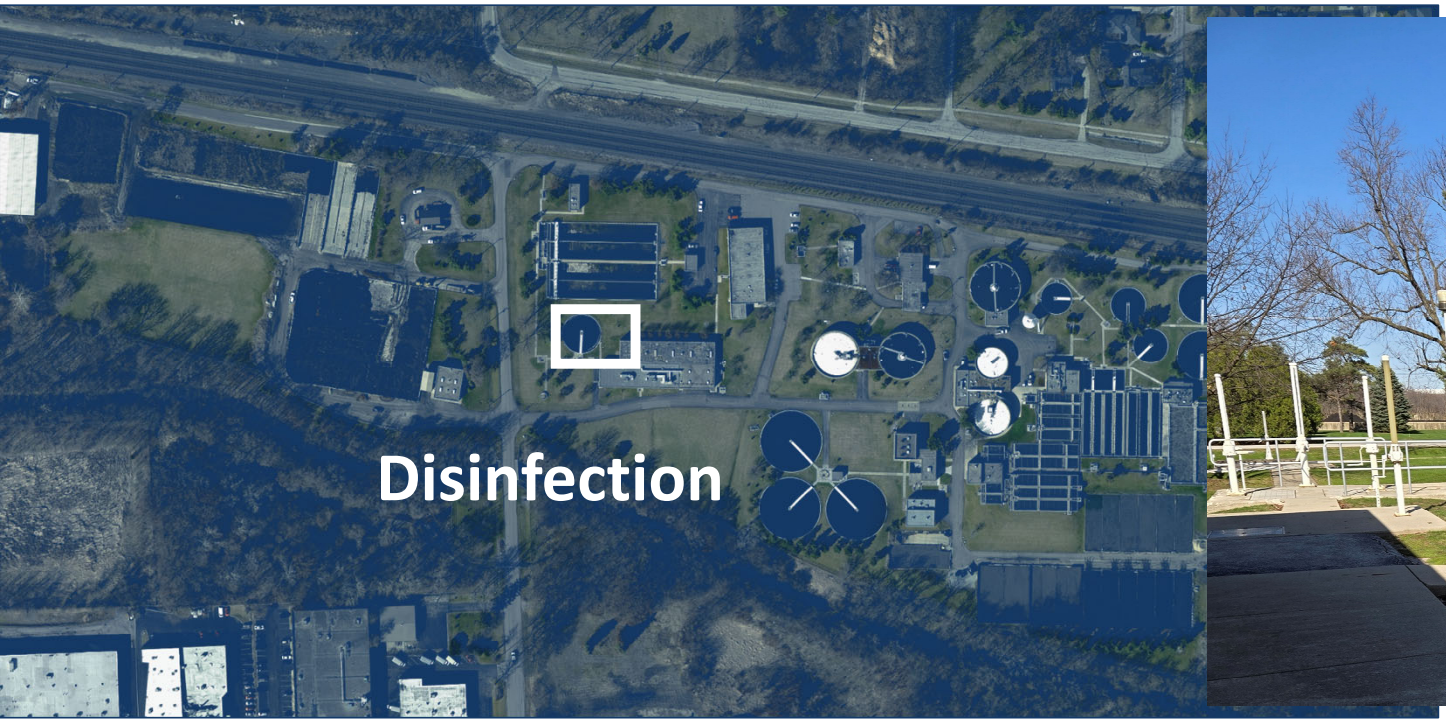
Process Modifications – Filtration

Facility Plan Recommendations

- Demo Sand Filters
- Install Disc Filters
- Install automatic gates for disc filter operation/isolation
- Modify concrete channels for flow transitions

TERTIARY FILTRATION		2025 $$
Disc Filtration System		$2,210,000
(4) Automated Hydraulic Gates for Filtration System		$109,000
Concrete Channel Modifications	8%	$186,000
Subtotal		**$2,505,000**
General Conditions	13%	$326,000
Sitework	10%	$251,000
Demolition	3%	$63,000
Misc Equipment Allowance (Pumps, etc.)	8%	$188,000
Site Piping	8%	$201,000
Subtotal w/ GC etc.		**$3,534,000**
HVAC	7%	$248,000
Electrical	21%	$743,000
Instrumentation	10%	$354,000
Subtotal		**$4,879,000**
Overhead, Profit, Bonds, & Insurance	12%	$590,000
Construction Cost		**$5,500,000**
Contingency	30%	$1,650,000
Construction Cost w/ Contingency		**$7,150,000**
Design	8.0%	$572,000
Construction Services	8.0%	$572,000
Legal & Administrative	1%	$72,000
Total Capital Cost		**$8,400,000**

Process Modifications



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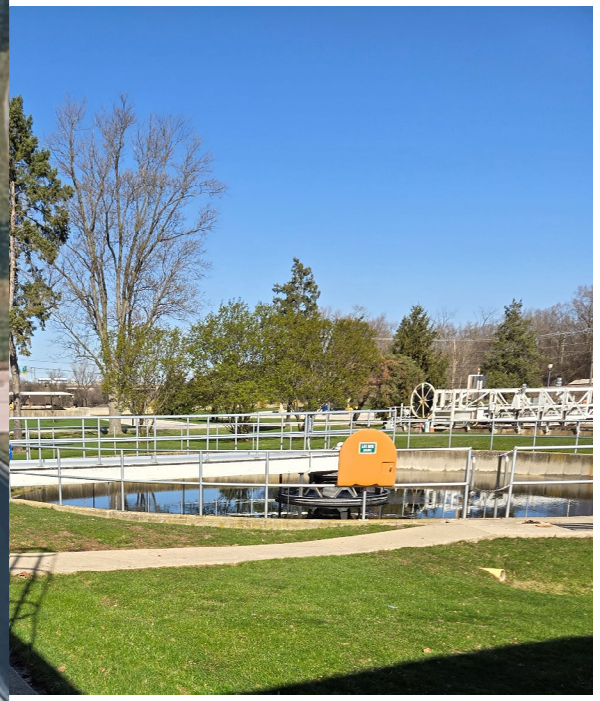


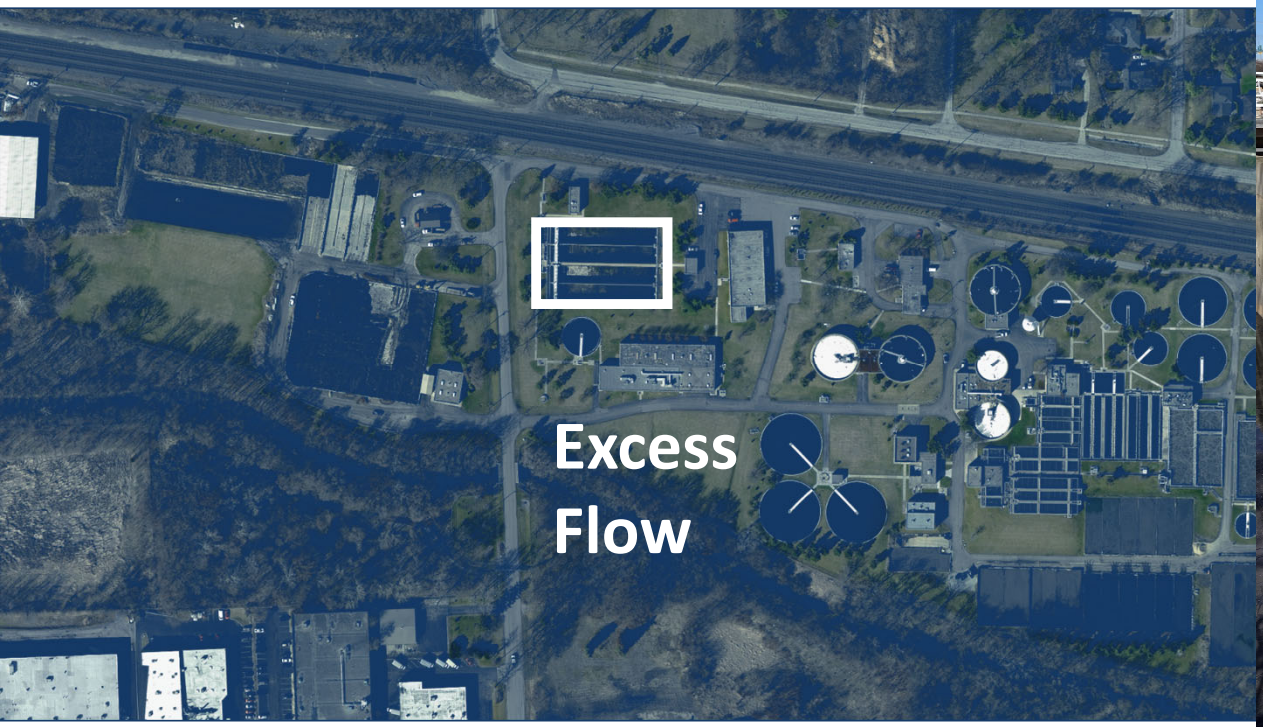
Process Modifications – Disinfection

Facility Plan Approach

- Budget for highest Capital
  - OSEC requires new structure and various tanks and pumps
  - Will review Life Cycle Costs in Detailed design between all Disinfection systems
- Construct improvements to Building B – Bisulfate Building

DISINFECTION FACILITIES		2025 $$
Disinfection system		$1,281,000
Disinfection system and excess flow disinfection building		$1,113,000
Tankless Water Heater for new building		$4,000
(1) 4600 gallon single wall tanks for bulk sodium hypo (for XF)		$26,000
(3) 250 gph pumps for excess flow sodium hypo		$97,500
(2) 2500 gallon double wall tanks for bisulfite (in Building B)		$42,000
(3) 30 gph bisulfite pump skid (1 pump dedicated to 003)		$71,500
Modify Building B (bisulfite building) for better accessibility		$50,000
Tankless Water Heater (Building B)		$4,000
Subtotal		**$2,689,000**
General Conditions	13%	$350,000
Sitework	10%	$269,000
Demolition	3%	$68,000
Misc Equipment Allowance (Pumps, etc.)	8%	$202,000
Site Piping	8%	$216,000
Subtotal w/ GC etc.		**$3,794,000**
HVAC	7%	$266,000
Electrical	21%	$797,000
Instrumentation	10%	$380,000
Subtotal		**$5,237,000**
Overhead, Profit, Bonds, & Insurance	12%	$630,000
Construction Cost		**$5,900,000**
Contingency	30%	$1,770,000
Construction Cost w/ Contingency		**$7,670,000**
Design	8.0%	$614,000
Construction Services	8.0%	$614,000
Legal & Administrative	1%	$77,000
Total Capital Cost		**$9,000,000**

Process Modifications



Process Modifications – Excess Flow

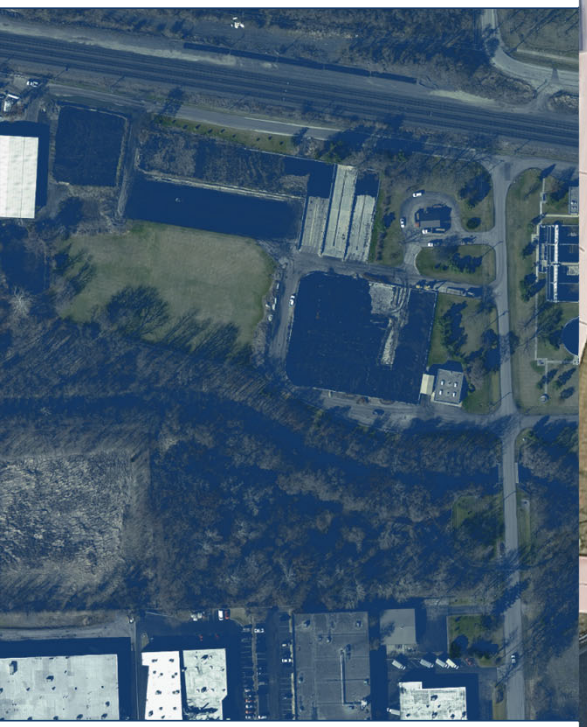
Facility Plan Recommendation

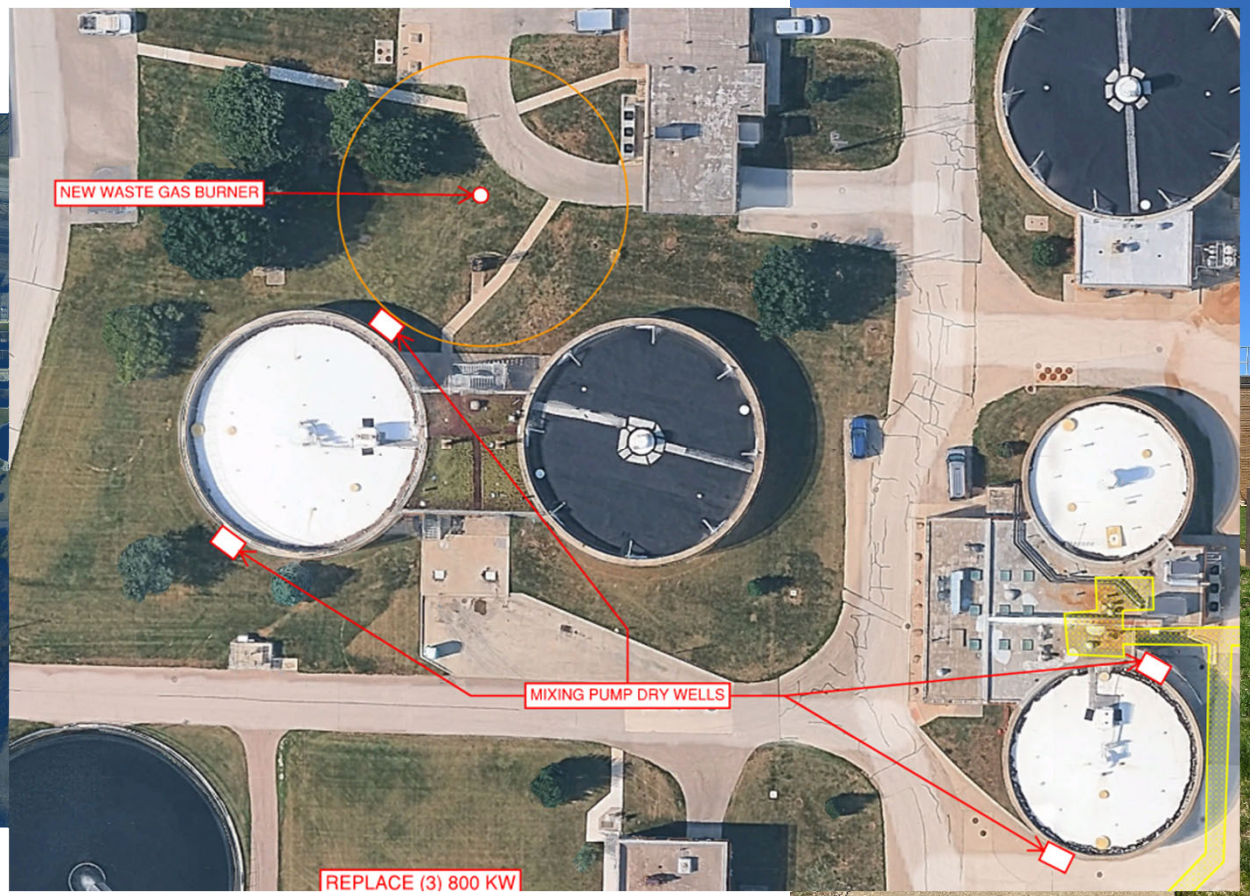
- Install one new traveling bridge
- Rehab other traveling bridge
- Misc. grout

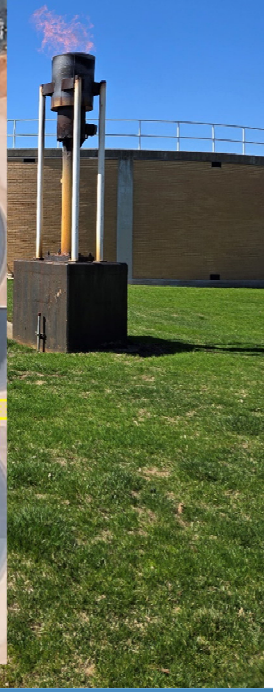
EXCESS FLOW CLARIFIERS		2025 $$
(1) New Traveling Bridge Mechanism (EFC1+EFC2)		$2,405,000
(1) Rehab Other Traveling Bridge Mechanism (EFC3+EFC4)		$361,000
Concrete/Grout Repairs		$17,000
Subtotal		**$2,783,000**
General Conditions	13%	$362,000
Sitework	10%	$279,000
Demolition	3%	$70,000
Misc Equipment Allowance (Pumps, etc.)	8%	$209,000
Site Piping	8%	$223,000
Subtotal w/ GC etc.		**$3,926,000**
HVAC	0%	$0
Electrical	15%	$589,000
Instrumentation	6%	$236,000
Subtotal		**$4,751,000**
Overhead, Profit, Bonds, & Insurance	12%	$570,000
Construction Cost		**$5,300,000**
Contingency	30%	$1,590,000
Construction Cost w/ Contingency		**$6,890,000**
Design	8.0%	$552,000
Construction Services	8.0%	$552,000
Legal & Administrative	1%	$69,000
Total Capital Cost		**$8,100,000**

Process Modifications

Process Modifications







Process Modifications – Digestion

Facility Plan Recommendations

- Replace all (5) covers
- Install (3) Boiler-Heat Exchangers
  - Based on age of equipment
- Install/Construct mixing system for (2) Digesters
  - Includes mixing pump dry wells
- Modify electrical components / location as required
- Replace (2) Waste Gas Burners with (1) Waste Gas Burner

ANAEROBIC DIGESTION		2025 $$
Replace (5) Digester Covers		$5,070,000
(3) New Boiler Heat-Exchangers		$1,235,000
Waste Gas Burner		$108,000
Digester 1+2 Gas Takeoff Piping Upsizing		$492,000
Mixing System for Digesters 2 and 4		$1,094,000
Subtotal		**$7,999,000**
General Conditions	13%	$1,040,000
Sitework	10%	$800,000
Demolition	3%	$200,000
Misc Equipment Allowance (Pumps, etc.)	8%	$600,000
Site Piping	8%	$640,000
Subtotal w/ GC etc.		**$11,279,000**
HVAC	7%	$790,000
Electrical	21%	$2,369,000
Instrumentation	10%	$1,128,000
Subtotal		**$15,566,000**
Overhead, Profit, Bonds, & Insurance	12%	$1,870,000
Construction Cost		**$17,400,000**
Contingency	30%	$5,220,000
Construction Cost w/ Contingency		**$22,620,000**
Design	8.0%	$1,810,000
Construction Services	8.0%	$1,810,000
Legal & Administrative	1%	$227,000
Total Capital Cost		**$26,500,000**

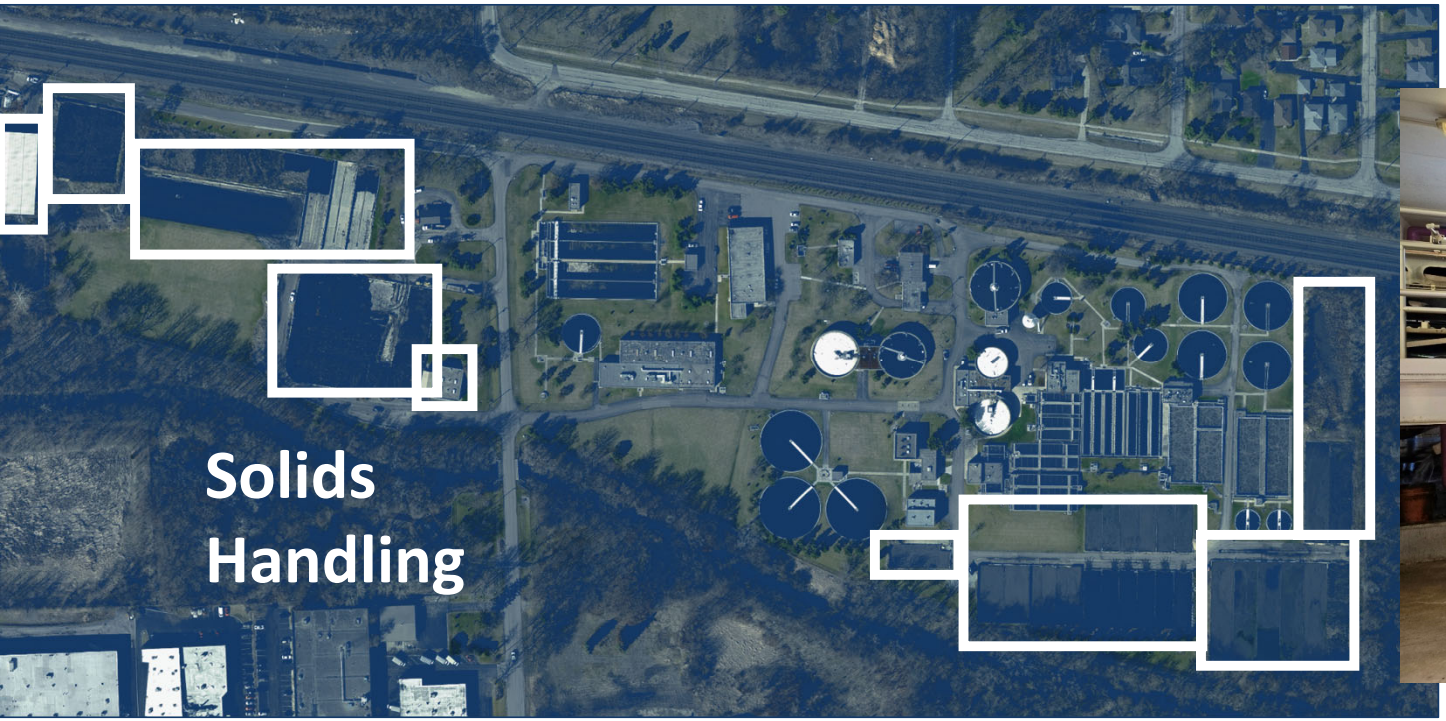
Process Modifications – FOG Distribution

Facility Plan Recommendations

- Modify piping arrangements for the ability send FOG to all Primary Digesters

FOG Distribution		2025 $$
FOG to Digester 1+2 Piping Modifications		$404,000
Subtotal		**$404,000**
General Conditions	13%	$53,000
Sitework	10%	$41,000
Demolition	3%	$11,000
Misc Equipment Allowance (Pumps, etc.)	8%	$31,000
Site Piping	8%	$33,000
Subtotal w/ GC etc.		**$573,000**
HVAC	0%	$0
Electrical	15%	$86,000
Instrumentation	6%	$35,000
Subtotal		**$694,000**
Overhead, Profit, Bonds, & Insurance	12%	$80,000
Construction Cost		**$800,000**
Contingency	30%	$240,000
Construction Cost w/ Contingency		**$1,040,000**
Design	8.0%	$84,000
Construction Services	8.0%	$84,000
Legal & Administrative	1%	$11,000
Total Capital Cost		**$1,200,000**

Process Modifications



Process Modifications

Process Modifications – Dewatering

Facility Plan Recommendation

- Install enclosed technologies
  - Selected high-capital enclosed technology
  - A full Life Cycle Cost Analysis to be completed in detailed design for various technologies
- Construct building expansion for new technologies with redundancy with dedicated electrical room
- Construct new ammonia eq. tanks with recycle feed control

SLUDGE DEWATERING		2025 $$
New Dewatering Technology		$1,768,000
Building Expansion		$630,000
(2) EQ Tanks		$195,000
Subtotal		**$2,593,000**
General Conditions	13%	$338,000
Sitework	10%	$260,000
Demolition	3%	$65,000
Misc Equipment Allowance (Pumps, etc.)	8%	$195,000
Site Piping	8%	$208,000
Subtotal w/ GC etc.		**$3,659,000**
HVAC	7%	$257,000
Electrical	21%	$769,000
Instrumentation	10%	$366,000
Subtotal		**$5,051,000**
Overhead, Profit, Bonds, & Insurance	12%	$610,000
Construction Cost		**$5,700,000**
Contingency	30%	$1,710,000
Construction Cost w/ Contingency		**$7,410,000**
Design	8.0%	$593,000
Construction Services	8.0%	$593,000
Legal & Administrative	1%	$75,000
Total Capital Cost		**$8,700,000**

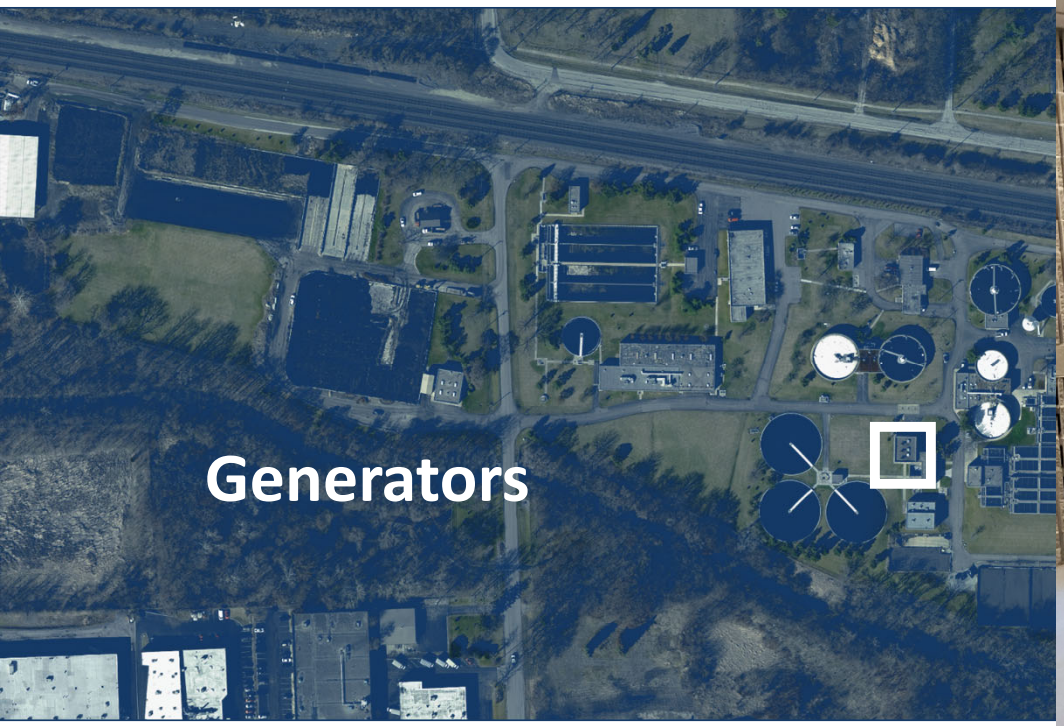
Process Modifications – Sludge Storage

Facility Plan Recommendation

- Construct canopy over drying beds to retain dryer cake
- Construct additional drying bed for storage
- Complete misc. structural improvements to existing drying beds

SLUDGE STORAGE		2025 $$
Canopy		$1,275,000
Additional Drying Bed		$85,000
Concrete Paving Work		$398,000
Drying Bed Wall Improvements		$241,000
Subtotal		**$1,999,000**
General Conditions	13%	$260,000
Sitework	10%	$200,000
Demolition	3%	$50,000
Misc Equipment Allowance (Pumps, etc.)	8%	$150,000
Site Piping	8%	$160,000
Subtotal w/ GC etc.		**$2,819,000**
HVAC	0%	$0
Electrical	15%	$423,000
Instrumentation	6%	$170,000
Subtotal		**$3,412,000**
Overhead, Profit, Bonds, & Insurance	12%	$410,000
Construction Cost		**$3,800,000**
Contingency	30%	$1,140,000
Construction Cost w/ Contingency		**$4,940,000**
Design	8.0%	$396,000
Construction Services	8.0%	$396,000
Legal & Administrative	1%	$50,000
Total Capital Cost		**$5,800,000**

Process Modifications



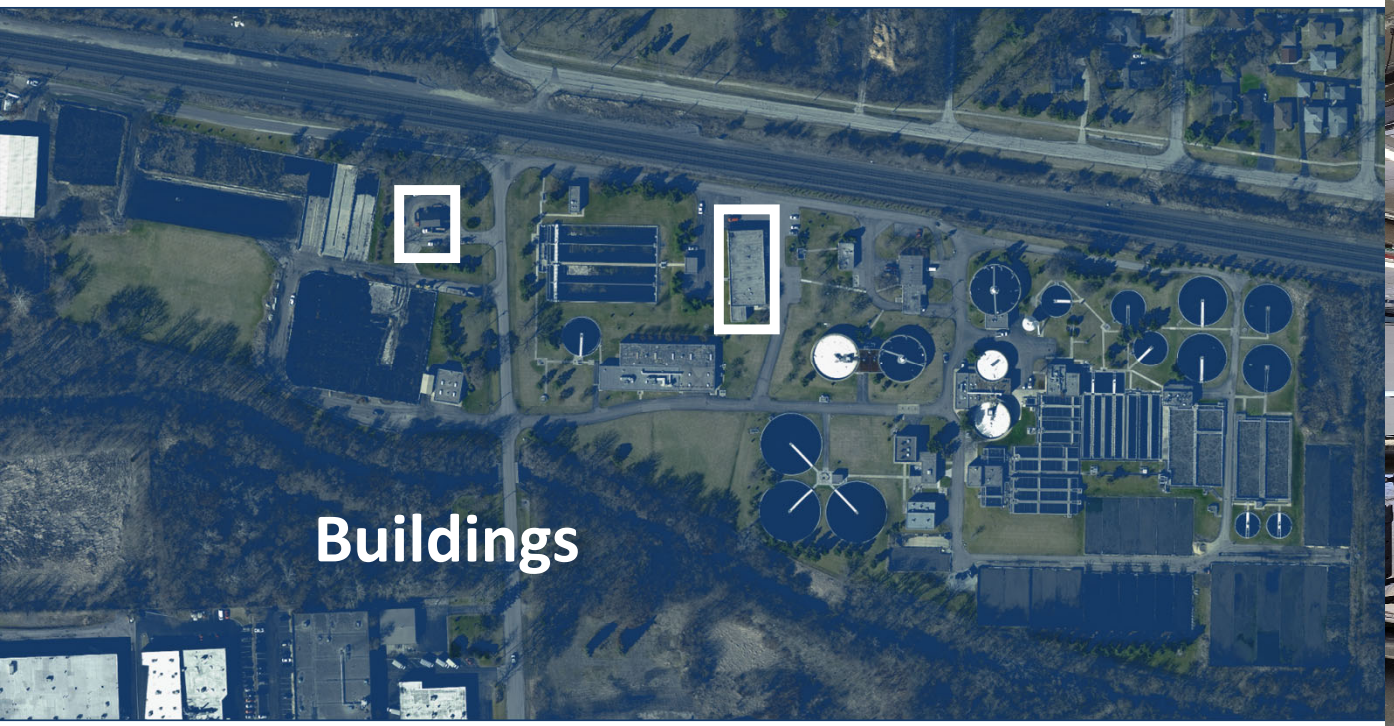
Process Modifications – Emergency Generators

Facility Plan Recommendations

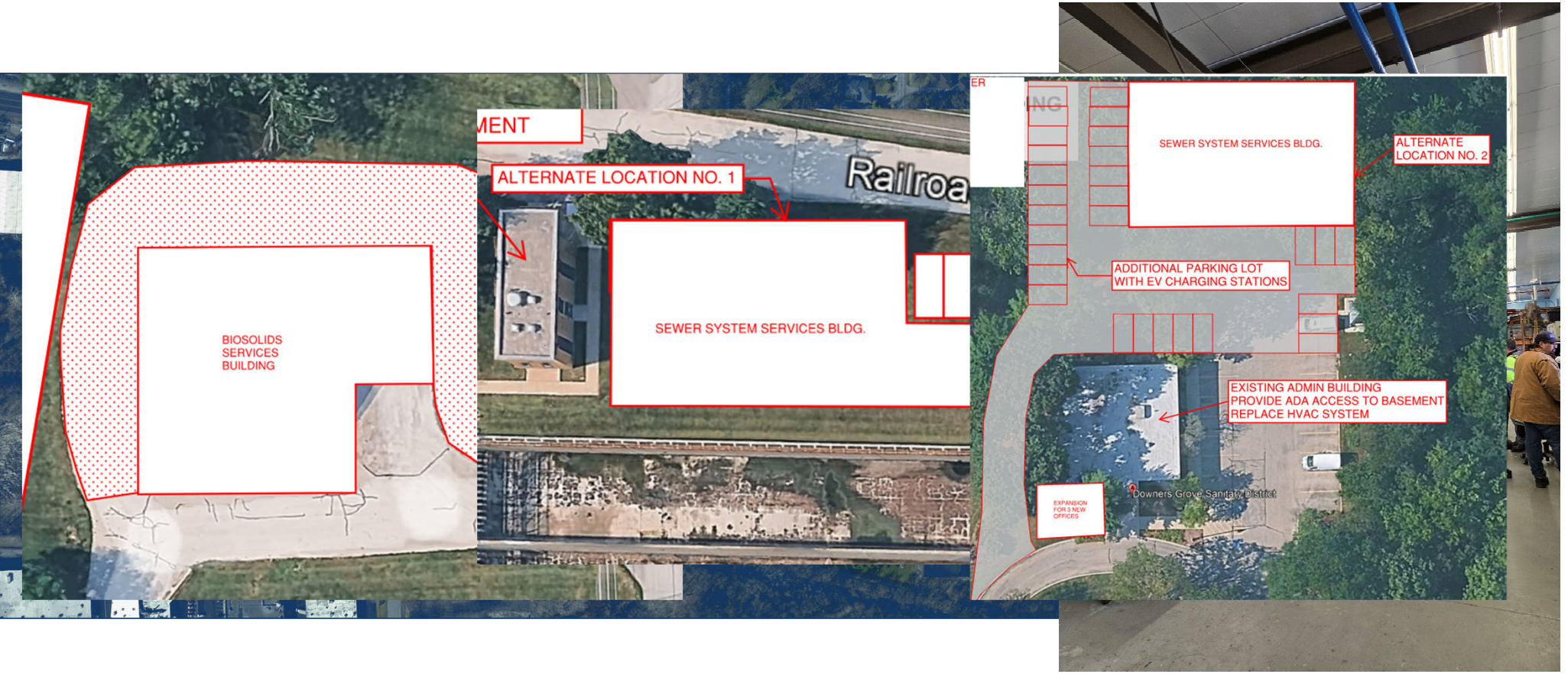
- Install 3x 800kW diesel generator sets
- Install new fuel monitoring system
- Install new above ground fuel tank for generators to pull from
- Install miscellaneous generator system components

PLANT WATER, NATURAL GAS, ELECTRIC ETC		2025 $$
New Generators (3)		$1,365,000
Subtotal		**$1,365,000**
General Conditions	13%	$178,000
Sitework	10%	$137,000
Demolition	3%	$35,000
Misc Equipment Allowance (Pumps, etc.)	8%	$103,000
Site Piping	8%	$110,000
Subtotal w/ GC etc.		**$1,928,000**
HVAC	7%	$135,000
Electrical	21%	$405,000
Instrumentation	10%	$193,000
Subtotal		**$2,661,000**
Overhead, Profit, Bonds, & Insurance	12%	$320,000
Construction Cost		**$3,000,000**
Contingency	30%	$900,000
Construction Cost w/ Contingency		**$3,900,000**
Design	8.0%	$312,000
Construction Services	8.0%	$312,000
Legal & Administrative	1%	$39,000
Total Capital Cost		**$4,600,000**

Process Modifications



Process Modifications



Process Modifications – Buildings

Facility Plan Recommendations

- Construct new Sewer Services Building
  - Either at WWTC or at Admin Bldg
- Construct new Biosolids Building
- Construct parking lots for new buildings for appropriate employee parking
- Modifications as necessary to Admin Building and MSB
  - ADA accessibility, locker room improvements, etc.

BUILDINGS		2025 $$
Sewer Services Building		$3,325,000
Biosolids Building		$2,147,000
Admin Building Expansion		$297,000
ADA Access Renovations (Ramp)		$27,000
MSB Rennovations		$309,000
MSB Parking Lot/Parking Spaces		$69,000
Admin Building Parking Lot Expansion		$105,000
Subtotal		**$6,279,000**
General Conditions	13%	$817,000
Sitework	10%	$628,000
Demolition	3%	$157,000
Misc Equipment Allowance (Pumps, etc.)	8%	$471,000
Site Piping	8%	$503,000
Subtotal w/ GC etc.		**$8,855,000**
HVAC		$0
Electrical		$0
Instrumentation		$0
Subtotal		**$8,855,000**
Overhead, Profit, Bonds, & Insurance	12%	$1,060,000
Construction Cost		**$9,900,000**
Contingency	30%	$2,970,000
Construction Cost w/ Contingency		**$12,870,000**
Design	8.0%	$1,030,000
Construction Services	8.0%	$1,030,000
Legal & Administrative	1%	$129,000
Total Capital Cost		**$15,100,000**

Phasing

1 – Large – Complete WWTC Project

Pro's

- Everything is done under one contract / contractor
- Lowest cost alternative (no inflation due to phasing)
    - $250.1M

Con's

- Excessive disruption to the WWTC operations
- Large loan requirement

Multiple – Smaller WWTC Projects

Pro's

- Manageable construction efforts
- More manageable financing requests

Con's

- Multiple contractors to coordinate between
- Increased capital costs due to phasing / delay in construction
    - Total Range between $248.9M - $261.9M

WWTC Phasing – Phase 1 – Protect and Prepare

Systems Included

- Bar Rack & Mechanical Screens
- Anaerobic Digestion
- FOG Distribution
- Sludge Dewatering
- Generators
- Sewer Services Building

Benefits of Grouping

- Protects future biological improvements from screenings
- Prepares WWTC for additional sludge generation from nutrient removal processes
- Addresses critical infrastructure
- Addresses violations

WWTC Phasing – Phase 1 – Protect and Prepare

Design

- Begin 2026
- Advertise for Bids 2028

Construction

- Notice to Proceed 2028
- Substantial Completion 2031

PHASE 1		2028 $$
BAR RACK AND MECHANICAL SCREENS		
(4) New Screens		$2,215,000
New Screening Structure		$1,772,000
New Electrical Room		$187,000
ANAEROBIC DIGESTION		
Replace (5) Digester Covers		$5,703,000
(3) New Boiler Heat-Exchangers		$1,389,000
Waste Gas Burner		$121,000
Digester 1+2 Takeoff Piping Upsizing		$553,000
Mixing System for Digesters 2 and 4		$1,231,000
FOG DISTRIBUTION		
FOG to Digester 1+2 Piping Modifications		$454,000
SLUDGE DEWATERING		
New Dewatering Technology		$1,989,000
Building Expansion		$523,000
New Electrical Room		$186,000
(2) EQ Tanks		$219,000
PLANT WATER, NATURAL GAS, ELECTRIC ETC		
New Generators (3)		$1,535,000
BUILDINGS		
Sewer Services Building		$3,740,000
Subtotal		**$21,817,000**

PHASE 1		2028 $$
General Conditions	13%	$2,837,000
Sitework	10%	$2,182,000
Plant Roads	4%	$873,000
Demolition	3%	$546,000
Misc Equipment Allowance (Pumps, etc.)	8%	$1,637,000
Site Piping	8%	$1,746,000
Subtotal w/ GC etc.		**$31,638,000**
HVAC	7%	$2,215,000
Electrical	21%	$6,644,000
Instrumentation	10%	$3,164,000
Subtotal		**$43,661,000**
Overhead, Profit, Bonds, & Insurance	12%	$5,240,000
Construction Cost		**$48,900,000**
Contingency	30%	$14,670,000
Construction Cost w/ Contingency		**$63,570,000**
Design	5.0%	$3,179,000
Construction Services	5.0%	$3,179,000
Legal & Administrative	1%	$636,000
Total WWTC Capital Cost		**$70,600,000**

WWTC Phasing – Phase 2 – Hydraulic Fixes

Systems Included

- Raw Sewage Pumping and Flow Monitoring
- Grit System
- Primary Clarifiers
- Secondary Clarifiers
- RAS/WAS Pumping
- Disinfection
- Tertiary Filtration
- Excess Flow Clarifiers
- Sludge Storage Paving
- Biosolids Building

Benefits of Grouping

- Most systems are linked hydraulically and one fix cannot be addressed without fixing another
- Allows WWTC to operate with improved secondary clarification prior to biological improvements
- Addresses violations
- Recommend completing a minimum of 30% design on Phase 3

WWTC Phase 2 – Hydraulic Fixes

Design

- Begin 2028
- Advertise for Bids 2030

Construction

- Notice to Proceed 2030
- Substantial Completion 2035

PHASE 2		2030 $$
DISINFECTION FACILITIES		
Disinfection system		$1,559,000
Disinfection system and excess flow disinfection building		$1,354,000
Tankless Water Heater for above building		$5,000
(1) 4600 gallon single wall tanks for bulk sodium hypo (for XF)		$32,000
(3) 250 gph pumps for excess flow sodium hypo		$119,000
(2) 2500 gallon double wall tanks for bisulfite (in Building B)		$51,000
(3) 30 gph bisulfite pump skid (1 pump dedicated to 003)		$87,000
Modify Building B (bisulfite building) for better accessibility		$61,000
Tankless Water Heater (Building B)		$5,000
TERTIARY FILTRATION		
Disc Filtration System		$2,689,000
(4) Automated Hydraulic Gates for Filtration System		$133,000
Concrete Channel Modifications		$226,000
EXCESS FLOW CLARIFIERS		
(1) New Traveling Bridge Mechanism (EFC1+EFC2)		$2,926,000
(1) Rehab Other Traveling Bridge Mechanism (EFC3+EFC4)		$439,000
Concrete/Grout Repairs		$21,000

PHASE 2		2030 $$
RAS/WAS PUMPING		
6 duty + 1 standby screw impeller pumps w/ VFDs		$606,000
RAS Flowmeter		$63,000
RAS Pump and Blower Control Room		$291,000
RAS Force Main		$148,000
SLUDGE STORAGE		
Concrete Paving Work		$484,000
BUILDINGS		
Biosolids Building		$2,612,000
Subtotal		**$33,719,000**
General Conditions	13%	$4,384,000
Sitework	10%	$3,372,000
Plant Roads	4%	$1,349,000
Demolition	3%	$843,000
Misc Equipment Allowance (Pumps, etc.)	8%	$2,529,000
Site Piping	8%	$2,698,000
Subtotal w/ GC etc.		**$48,894,000**
HVAC	7%	$3,423,000
Electrical	21%	$10,268,000
Instrumentation	10%	$4,890,000
Subtotal		**$67,475,000**
Overhead, Profit, Bonds, & Insurance	12%	$8,100,000
Construction Cost		**$75,600,000**
Contingency	30%	$22,680,000
Construction Cost w/ Contingency		**$98,280,000**
Design	5.0%	$4,914,000
Construction Services	5.0%	$4,914,000
Legal & Administrative	1%	$983,000
Total WWTP Capital Cost		**$109,100,000**

PHASE 2		2030 $$
RAW SEWAGE PUMPS AND FLOW MONITORING		
Replacement of Pumps 1-8		$2,784,000
New suction/intake valves for Pumps 1-8		$784,000
Replacement of Pump 9		$310,000
GRIT SYSTEM		
New Grit system		$1,613,000
Flow Division Box		$158,000
(6) Motorized Weir Gates		$200,000
Flow Meter on Force Main to Grit System		$32,000
(2) New Classifiers		$324,000
New Electrical Room		$201,000
PRIMARY CLARIFIERS		
(3) New Primary Clarifiers - Concrete Tanks		$2,265,000
(3) New Primary Clarifiers - Mechanical Equipment		$981,000
Equipment Replacement in PC 7-9		$237,000
Structure Protection & Laydown		$1,393,000
SECONDARY CLARIFIERS		
(4) New Secondary Clarifiers - Concrete Tank		$2,151,000
(4) New Secondary Clarifiers - Mechanical Equipment		$1,088,000
Weir Covers		$547,000
Structural Modifications in SC 8-9 for Peripheral Trough		$68,000
Equipment Replacement in SC 8-9		$538,000
(6) Pinch Valves for Flow Split to SC's		$902,000
(6) Valve Vaults for access to Pinch Valve/Flowmeter assy's		$474,000
(6) EM Flowmeters for Flow Split to SC's		$322,000
Structure Protection & Laydown		$2,436,000

PHASE 2		2030 $$
DISINFECTION FACILITIES		
Disinfection system		$1,559,000
Disinfection system and excess flow disinfection building		$1,354,000
Tankless Water Heater for above building		$5,000
(1) 4600 gallon single wall tanks for bulk sodium hypo (for XF)		$32,000
(3) 250 gph pumps for excess flow sodium hypo		$119,000
(2) 2500 gallon double wall tanks for bisulfite (in Building B)		$51,000
(3) 30 gph bisulfite pump skid (1 pump dedicated to 003)		$87,000
Modify Building B (bisulfite building) for better accessibility		$61,000
Tankless Water Heater (Building B)		$5,000
TERTIARY FILTRATION		
Disc Filtration System		$2,689,000
(4) Automated Hydraulic Gates for Filtration System		$133,000
Concrete Channel Modifications		$226,000
EXCESS FLOW CLARIFIERS		
(1) New Traveling Bridge Mechanism (EFC1+EFC2)		$2,926,000
(1) Rehab Other Traveling Bridge Mechanism (EFC3+EFC4)		$439,000
Concrete/Grout Repairs		$21,000

PHASE 2		2030 $$
RAS/WAS PUMPING		
6 duty + 1 standby screw impeller pumps w/ VFDs		$606,000
RAS Flowmeter		$63,000
RAS Pump and Blower Control Room		$291,000
RAS Force Main		$148,000
SLUDGE STORAGE		
Concrete Paving Work		$484,000
BUILDINGS		
Biosolids Building		$2,612,000
Subtotal		**$33,719,000**
General Conditions	13%	$4,384,000
Sitework	10%	$3,372,000
Plant Roads	4%	$1,349,000
Demolition	3%	$843,000
Misc Equipment Allowance (Pumps, etc.)	8%	$2,529,000
Site Piping	8%	$2,698,000
Subtotal w/ GC etc.		**$48,894,000**
HVAC	7%	$3,423,000
Electrical	21%	$10,268,000
Instrumentation	10%	$4,890,000
Subtotal		**$67,475,000**
Overhead, Profit, Bonds, & Insurance	12%	$8,100,000
Construction Cost		**$75,600,000**
Contingency	30%	$22,680,000
Construction Cost w/ Contingency		**$98,280,000**
Design	5.0%	$4,914,000
Construction Services	5.0%	$4,914,000
Legal & Administrative	1%	$983,000
Total WWTP Capital Cost		**$109,100,000**

WWTC Phasing – Phase 3 – Biological Process Improvements

Systems Included

- Aeration System
- Drying Bed Wall Improvements
- Misc Building Improvements
- Chemical Feed for Phosphorus and Nitrogen Removal

Benefits of Grouping

- Constructed after hydraulic fixes prove how plant can/will truly operate (appropriate flow splits and settling)
- Constructed in time to meet NPDES permit requirements
- Addresses miscellaneous needs that will increase in priority over time

WWTC Phase 3 – Biological Process Improvements

Design

- Begin 2032
- Advertise for Bids 2034

Construction

- Notice to Proceed 2034
- Substantial Completion 2037

PHASE 3		2034 $$
AERATION SYSTEM		
AT 1-7 Demolition		$427,000
Anaerobic Zone/Anoxic Zone Construction		$9,821,000
SS aeration piping modifications		$93,000
(1) Turbo Blowers		$300,000
Remove old blowers		$28,000
(8) Mechanical Mixers for Anaerobic/Anoxic Zones		$463,000
(4) Nitrate recycle pumps		$974,000
MLR Pipe		$457,000
Structure Protection & Laydown		$5,024,000
SLUDGE STORAGE		
Drying Bed Wall Improvements		$343,000
BUILDINGS		
Admin Building Expansion		$423,000
ADA Access Renovations (Ramp)		$38,000
MSB Rennovations		$440,000
MSB Parking Lot/Parking Spaces		$98,000
Admin Building Parking Lot Expansion		$149,000
CHEMICAL FEED FOR PHOSPHORUS AND NITROGEN REMOVAL		
New Chemical Phosphorus Removal feed Building		$603,000
(2) 6100 gallon single wall tanks for aluminum sulfate		$90,000
(2) 50 gph aluminum sulfate skid		$102,000
New Micro-C feed Building		$603,000
(2) 6100 gallon single wall tanks for MicroC		$90,000
(2) 50 gph Micro-C feed skid		$102,000
(2) Tankless Water Heaters (for MicroC and Alum feed buildings)		$9,000

PHASE 3		2034 $$
Subtotal		**$20,677,000**
General Conditions	13%	$2,689,000
Sitework	10%	$2,068,000
Plant Roads	4%	$828,000
Demolition	3%	$517,000
Misc Equipment Allowance (Pumps, etc.)	8%	$1,551,000
Site Piping	8%	$1,655,000
Subtotal w/ GC etc.		**$29,985,000**
HVAC	7%	$2,099,000
Electrical	21%	$6,297,000
Instrumentation	10%	$2,999,000
Subtotal		**$41,380,000**
Overhead, Profit, Bonds, & Insurance	12%	$4,970,000
Construction Cost		**$46,400,000**
Contingency	30%	$13,920,000
Construction Cost w/ Contingency		**$60,320,000**
Design	5.0%	$3,016,000
Construction Services	5.0%	$3,016,000
Legal & Administrative	1%	$604,000
Total WWTP Capital Cost		**$67,000,000**

WWTC Phasing – Phase 4 – Sludge Storage Improvements

Systems Included

- Canopy
- Additional Drying Bed

Benefits of Grouping

- Non-critical structures that will improve solids handling

WWTC Phasing – Phase 4 – Sludge Storage Improvements

Design

- Begin 2041
- Advertise for Bids 2042

Construction

- Notice to Proceed 2042
- Substantial Completion 2044

PHASE 4		2042 $$
SLUDGE STORAGE		
Canopy		$2,484,000
Additional Drying Bed		$166,000
Subtotal		**$2,650,000**
General Conditions	13%	$345,000
Sitework	10%	$265,000
Plant Roads	4%	$106,000
Demolition	3%	$67,000
Misc Equipment Allowance (Pumps, etc.)	8%	$199,000
Site Piping	8%	$212,000
Subtotal w/ GC etc.		**$3,844,000**
HVAC	7%	$270,000
Electrical	21%	$808,000
Instrumentation	10%	$385,000
Subtotal		**$5,307,000**
Overhead, Profit, Bonds, & Insurance	12%	$640,000
Construction Cost		**$5,900,000**
Contingency	30%	$1,770,000
Construction Cost w/ Contingency		**$7,670,000**
Design	8.0%	$614,000
Construction Services	8.0%	$614,000
Legal & Administrative	1%	$77,000
Total WWTP Capital Cost		**$9,000,000**

Collections System Improvements – Phase 1

Phase 1 – Immediate Needs

- Earlston Lift Station
- Northwest Lift Station
- College Lift Station
- Collection System Sewer Improvements

Estimated Total Cost (in 2028 $)

- **$11,212,000**

Collections System Improvements – Phases 2/3/4

Phase 2

- Hobson Lift Station
- Wroble Lift Station
- Total Cost (in 2030$): **$6,843,000**

Phase 3

- 1K-028 Basin Improvements
- Total Cost (in 2034$): **$12,625,000**

Phase 4

- College Force Main Repair
- Total Cost (in 2042$): **$788,000**

Continuous Work

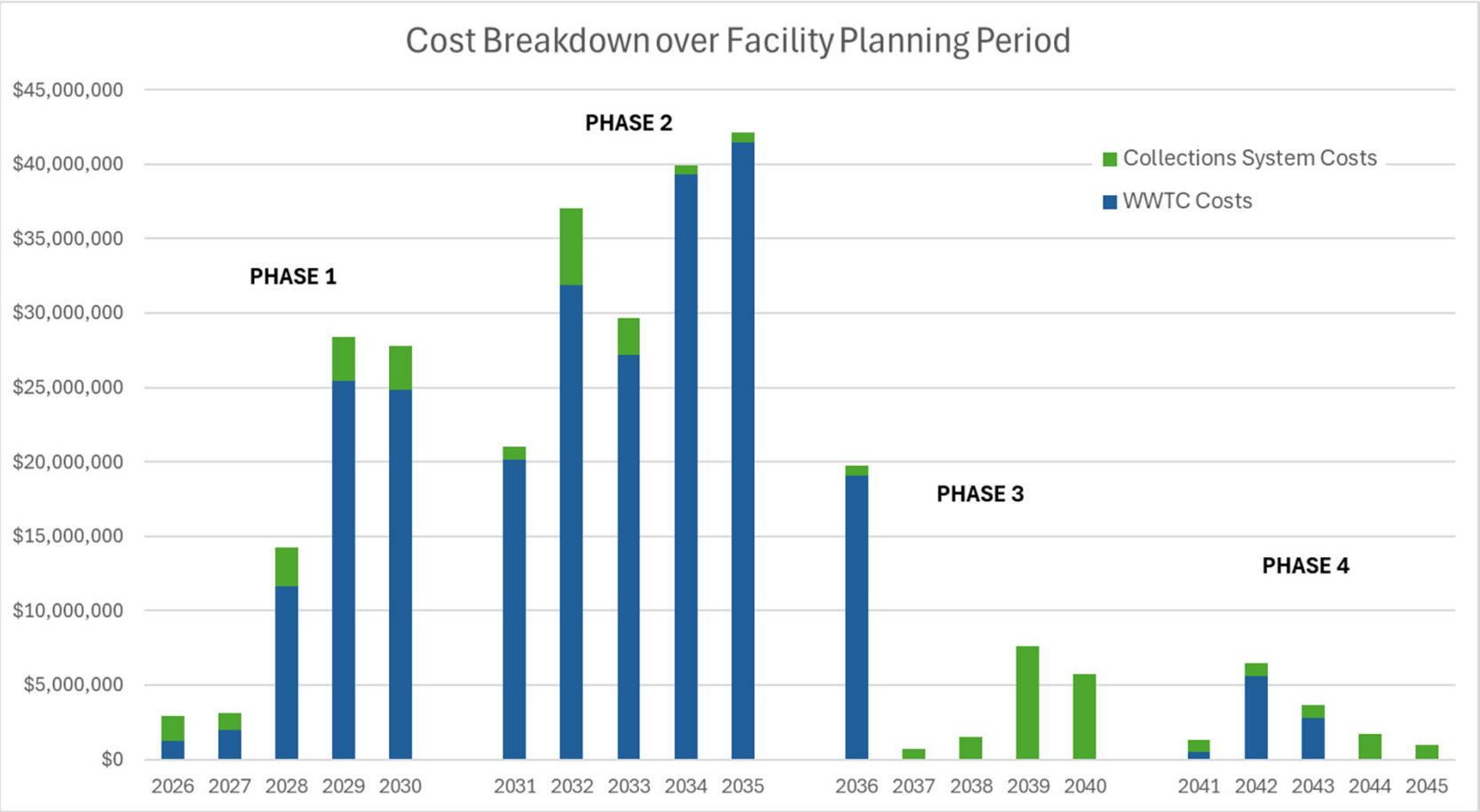
- Collections System Sewer Improvements to be spread throughout phases 2/3/4 (2031-2045)
- Cost in 2031: **$548,939**
  - Estimate this will inflate 4% per year
- Total Cost (2031-2045): **$10,991,732**

Capital Improvements Plan

- **See attached overall project phasing table (handout to be provided)**
- **30% Design**
  - Finalize basis of design
    - Process and hydraulics
  - Selection of equipment
  - Process schematics
  - Electrical load list
  - Base plans
    - Existing structures
    - Footprint of new structures
  - Geotechnical work (soil borings)
  - Update cost estimate
  - A "road map" for the final design
- **Final Design**
  - Detailed construction plans
  - Technical specifications
  - Cost estimate
  - Ready to bid

Project	Fiscal Year																				
	5/2026-4/2027	5/2027-4/2028	5/2028-4/2029	5/2029-4/2030	5/2030-4/2031	5/2031-4/2032	5/2032-4/2033	5/2033-4/2034	5/2034-4/2035	5/2035-4/2036	5/2036-4/2037	5/2037-4/2038	5/2038-4/2039	5/2039-4/2040	5/2040-4/2041	5/2041-4/2042	5/2042-4/2043	5/2043-4/2044	5/2044-4/2045	5/2045-4/2046	TOTAL
2026 WWTC Phase 1 Improvements																					
30% Design	$1,271,600																				$1,271,600
Final Design		$1,085,760	$723,840																		$1,809,600
Construction			$9,535,500	$22,249,500	$22,249,500	$9,535,500															$63,570,000
Construction Eng			$476,850	$1,271,600	$1,112,650	$317,900															$3,179,000
Earlston Lift Station Repair																					
Design	$34,000																				$34,000
Construction		$337,000																			$337,000
Construction Eng		$34,000																			$34,000
Northwest Lift Station MCC Replacement																					
Design	$44,000																				$44,000
Construction		$579,000																			$579,000
Construction Eng		$44,000																			$44,000
College Lift Station Replacement																					
Design		$157,000																			$157,000
Construction			$2,137,000																		$2,137,000
Construction Eng			$157,000																		$157,000
Collection Sewer Improvements (0-5 Years)																					
Design			$300,000																		$300,000
Construction				$2,726,000	$2,726,000																$5,452,000
Construction Eng				$190,500	$190,500																$381,000
2028 WWTC Phase 2 Improvements																					
30% Design + Phase 3 Hydraulics & Structural Eval		$906,880	$906,880	$453,440																	$2,267,200
Final Design				$1,474,200	$1,474,200																$2,948,400
Construction						$9,828,000	$29,484,000	$24,570,000	$24,570,000	$9,828,000											$98,280,000
Construction Eng						$491,400	$1,474,200	$1,228,500	$1,228,500	$491,400											$4,914,000
Hobson Lift Station Improvements																					
Design						$311,000															$311,000
Construction							$4,148,000														$4,148,000
Construction Eng							$311,000														$311,000
Wroble Lift Station Improvements																					
Design							$135,000														$135,000
Construction								$1,803,000													$1,803,000
Construction Eng								$135,000													$135,000
2032 WWTC Phase 3 Improvements																					
30% Design							$904,800														$904,800
Final Design								$1,357,200	$452,400												$1,809,600
Construction									$12,064,000	$30,160,000	$18,096,000										$60,320,000
Construction Eng									$1,005,333	$1,005,333	$1,005,333										$3,016,000
1K-028 Basin Improvements																					
Design													$776,000								$776,000
Construction														$6,422,340	$4,650,660						$11,073,000
Construction Eng														$450,080	$325,920						$776,000
2041 WWTC Phase 4 Improvements																					
Design																$500,000	$114,000				$614,000
Construction																	$5,000,000	$2,670,000			$7,670,000
Construction Eng																	$500,000	$114,000			$614,000
Collection Sewer Improvements (6-20 Years)																					
Design						$5,327	$5,540	$5,761	$5,992	$6,231	$6,481	$6,740	$7,009	$7,290	$7,581	$7,885	$8,200	$8,528	$8,869	$9,224	$106,657
Construction						$535,601	$557,025	$579,306	$602,478	$626,578	$651,641	$677,706	$704,815	$733,007	$762,327	$792,821	$824,533	$857,515	$891,815	$927,488	$10,724,656
Construction Eng						$8,011	$8,332	$8,665	$9,012	$9,372	$9,747	$10,137	$10,543	$10,964	$11,403	$11,859	$12,333	$12,827	$13,340	$13,873	$160,419
College Force Main Repair																					
Design																			$66,000	$0	$66,000
Construction																			$656,000	$0	$656,000
Construction Eng																			$66,000	$0	$66,000
FY Total	$1,349,600	$3,143,640	$14,237,070	$28,365,240	$27,752,850	$21,032,739	$37,027,897	$29,687,433	$39,937,715	$42,126,915	$19,769,202	$694,583	$1,498,367	$7,623,681	$5,757,892	$1,312,564	$6,459,067	$3,662,869	$1,702,024	$950,585	***$294,091,932***
Design Engineering	$1,349,600	$2,149,640	$1,930,720	$1,927,640	$1,474,200	$316,327	$1,045,340	$1,362,961	$458,392	$6,231	$6,481	$6,740	$783,009	$7,290	$7,581	$507,885	$122,200	$8,528	$74,869	$9,224	$13,554,857
Construction	$0	$916,000	$11,672,500	$24,975,500	$24,975,500	$19,899,101	$34,189,025	$26,952,306	$37,236,478	$40,614,578	$18,747,641	$677,706	$704,815	$7,155,347	$5,412,987	$792,821	$5,824,533	$3,527,515	$1,547,815	$927,488	$266,749,656
Const. Engineering	$0	$78,000	$633,850	$1,462,100	$1,303,150	$817,311	$1,793,532	$1,372,165	$2,242,845	$1,506,106	$1,015,081	$10,137	$10,543	$461,044	$337,323	$11,859	$512,333	$126,827	$79,340	$13,873	$13,787,419

Cost Breakdown



Questions & Discussion

Downers Grove Sanitary District

Providing a Better Environment

Downers Grove Sanitary District

2710 Curtiss Street
Downers Grove, IL 60515-0703
Phone: 630-969-0664
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Providing a Better Environment for South Central DuPage County

MEMORANDUM

To: Board of Trustees

From: Amy R. Underwood, General Manager

Date: January 23, 2026

Subject: Facility Planning – Next Steps

Baxter & Woodman will present the Wastewater Treatment Center (WWTC) costs and the recommended phasing of all projects identified by the facility plan at the January 26 Special Board meeting. The next steps in the facility planning process are as follows:

Final Facility Plan Report	February
Independent Consultant Review	March – April
Independent Consultant Presentation to Board	May 26
Approve Phase 1 30% Design Contract	May 26

A loan through the IEPA SRF program is the preferred method to finance the projects identified. Unfortunately, the need for funding has far outpaced the SRF program capability. I will, therefore, be researching other options this summer, including WIFIA loans through EPA and municipal bonds.

Just for information, the attached tables compare the potential total project costs for 20-year and 30-year SRF loans and municipal bonds.

C: BOLI, CS, DM

DOWNERS GROVE SANITARY DISTRICT
2026 FACILITY PLAN

Potential Overall Projects Costs - Example - 20-yr Municipal Bond

Annual Interest Rate	4.50%
Period (years)	20
Number of Customers	20,394

Project	Estimated Cost	Fund with Cash	To Be Financed	Bond Amount	Total Cost Bond*	Annual Payment	Monthly Cost per Customer
WWTC Phase 1							
30% Design	$1,271,600	$1,271,600					
Final Design	$1,809,600	$1,809,600					
Construction	$63,570,000		$63,570,000				
Construction Eng	$3,179,000		$3,179,000				
Earlston LS Wetwell Repair							
Design	$34,000	$34,000					
Construction	$337,000	$337,000					
Construction Eng	$34,000	$34,000					
Northwest LS MCC Replacement							
Design	$44,000	$44,000		$74,876,000	$113,688,611	$5,684,430.56	$23.23
Construction	$579,000	$579,000					
Construction Eng	$44,000	$44,000					
College LS							
Design	$157,000	$157,000					
Construction	$2,137,000		$2,137,000				
Construction Eng	$157,000		$157,000				
Collection System							
Design	$300,000	$300,000					
Construction	$5,452,000		$5,452,000				
Construction Eng	$381,000		$381,000				
WWTC Phase 2							
30% Design/Ph3 Hyd/Struc E	$2,267,200	$2,267,200					
Final Design	$2,948,400	$2,948,400					
Construction	$98,280,000		$98,280,000				
Construction Eng	$4,914,000		$4,914,000				
Hobson LS							
Design	$311,000	$311,000		$109,591,000	$166,398,427	$8,319,921.33	$34.00
Construction	$4,148,000		$4,148,000				
Construction Eng	$311,000		$311,000				
Wroble LS							
Design	$135,000	$135,000					
Construction	$1,803,000		$1,803,000				
Construction Eng	$135,000		$135,000				
WWTC Phase 3/Admin Building							
30% Design	$904,800	$904,800					
Final Design	$1,809,600	$1,809,600		$63,336,000	$96,166,754	$4,808,337.71	$19.65
Construction	$60,320,000		$60,320,000				
Construction Eng	$3,016,000		$3,016,000				
1K-028 Basin							
Design	$776,000	$776,000		$11,849,000	$17,991,030	$899,551.50	$3.68
Construction	$11,073,000		$11,073,000				
Construction Eng	$776,000		$776,000				
WWTC Phase 4							
Design	$614,000	$614,000		$8,284,000	$12,578,082	$628,904.09	$2.57
Construction	$7,670,000		$7,670,000				
Construction Eng	$614,000		$614,000				
Collection System							
Design	$106,657	$106,657					
Construction	$10,724,656	$10,724,656					
Construction Eng	$160,419	$160,419					
College Force Main Repair							
Design	$66,000	$66,000					
Construction	$656,000	$656,000					
Construction Eng	$66,000	$66,000					
TOTAL	$294,091,932	$26,155,932	$267,936,000	$267,936,000	$406,822,904	$20,341,145.19	$83.12

*Does not include financing costs.

Funded with Cash $26,155,932

TOTAL **$432,978,836**

Potential Overall Projects Costs - Example - 20-yr IEPA SRF Loan

Annual Interest Rate	2.16%
Period (years)	20
Number of Customers	20,394

Project	Estimated Cost	Fund with Cash	To Be Financed	Loan Amount	Total Cost Loan*	Annual Payment	Monthly Cost per Customer
WWTC Phase 1							
30% Design	$1,271,600	$1,271,600					
Final Design	$1,809,600	$1,809,600					
Construction	$63,570,000		$63,570,000				
Construction Eng	$3,179,000		$3,179,000				
Earlston LS Wetwell Repair							
Design	$34,000	$34,000					
Construction	$337,000	$337,000					
Construction Eng	$34,000	$34,000					
Northwest LS MCC Replacement							
Design	$44,000	$44,000		$74,876,000	$92,276,413	$4,613,820.64	$18.85
Construction	$579,000	$579,000					
Construction Eng	$44,000	$44,000					
College LS							
Design	$157,000	$157,000					
Construction	$2,137,000		$2,137,000				
Construction Eng	$157,000		$157,000				
Collection System							
Design	$300,000	$300,000					
Construction	$5,452,000		$5,452,000				
Construction Eng	$381,000		$381,000				
WWTC Phase 2							
30% Design/Ph3 Hyd/Struc E	$2,267,200	$2,267,200					
Final Design	$2,948,400	$2,948,400					
Construction	$98,280,000		$98,280,000				
Construction Eng	$4,914,000		$4,914,000				
Hobson LS							
Design	$311,000	$311,000		$109,591,000	$135,058,822	$6,752,941.09	$27.59
Construction	$4,148,000		$4,148,000				
Construction Eng	$311,000		$311,000				
Wroble LS							
Design	$135,000	$135,000					
Construction	$1,803,000		$1,803,000				
Construction Eng	$135,000		$135,000				
WWTC Phase 3/Admin Building							
30% Design	$904,800	$904,800					
Final Design	$1,809,600	$1,809,600		$63,336,000	$78,054,635	$3,902,731.77	$15.95
Construction	$60,320,000		$60,320,000				
Construction Eng	$3,016,000		$3,016,000				
1K-028 Basin							
Design	$776,000	$776,000		$11,849,000	$14,602,586	$730,129.29	$2.98
Construction	$11,073,000		$11,073,000				
Construction Eng	$776,000		$776,000				
WWTC Phase 4							
Design	$614,000	$614,000		$8,284,000	$10,209,116	$510,455.82	$2.09
Construction	$7,670,000		$7,670,000				
Construction Eng	$614,000		$614,000				
Collection System							
Design	$106,657	$106,657					
Construction	$10,724,656	$10,724,656					
Construction Eng	$160,419	$160,419					
College Force Main Repair							
Design	$66,000	$66,000					
Construction	$656,000	$656,000					
Construction Eng	$66,000	$66,000					
TOTAL	$294,091,932	$26,155,932	$267,936,000	$267,936,000	$330,201,572	$16,510,078.61	$67.46

*Does not include financing costs.

Funded with Cash $26,155,932

TOTAL **$356,357,504**

DOWNERS GROVE SANITARY DISTRICT
2026 FACILITY PLAN

Potential Overall Projects Costs - Example - 30-yr Municipal Bond

Annual Interest Rate	4.50%
Period (years)	30
Number of Customers	20,394

Project	Estimated Cost	Fund with Cash	To Be Financed	Bond Amount	Total Cost Bond*	Annual Payment	Monthly Cost per Customer
WWTC Phase 1							
30% Design	$1,271,600	$1,271,600					
Final Design	$1,809,600	$1,809,600					
Construction	$63,570,000		$63,570,000				
Construction Eng	$3,179,000		$3,179,000				
Earlston LS Wetwell Repair							
Design	$34,000	$34,000					
Construction	$337,000	$337,000					
Construction Eng	$34,000	$34,000					
Northwest LS MCC Replacement							
Design	$44,000	$44,000		$74,876,000	$136,578,849	$4,552,628.31	$18.60
Construction	$579,000	$579,000					
Construction Eng	$44,000	$44,000					
College LS							
Design	$157,000	$157,000					
Construction	$2,137,000		$2,137,000				
Construction Eng	$157,000		$157,000				
Collection System							
Design	$300,000	$300,000					
Construction	$5,452,000		$5,452,000				
Construction Eng	$381,000		$381,000				
WWTC Phase 2							
30% Design/Ph3 Hyd/Struc E	$2,267,200	$2,267,200					
Final Design	$2,948,400	$2,948,400					
Construction	$98,280,000		$98,280,000				
Construction Eng	$4,914,000		$4,914,000				
Hobson LS							
Design	$311,000	$311,000		$109,591,000	$199,901,339	$6,663,377.97	$27.23
Construction	$4,148,000		$4,148,000				
Construction Eng	$311,000		$311,000				
Wroble LS							
Design	$135,000	$135,000					
Construction	$1,803,000		$1,803,000				
Construction Eng	$135,000		$135,000				
WWTC Phase 3/Admin Building							
30% Design	$904,800	$904,800					
Final Design	$1,809,600	$1,809,600		$63,336,000	$115,529,115	$3,850,970.49	$15.74
Construction	$60,320,000		$60,320,000				
Construction Eng	$3,016,000		$3,016,000				
1K-028 Basin							
Design	$776,000	$776,000					
Construction	$11,073,000		$11,073,000	$11,849,000	$21,613,371	$720,445.71	$2.94
Construction Eng	$776,000		$776,000				
WWTC Phase 4							
Design	$614,000	$614,000					
Construction	$7,670,000		$7,670,000	$8,284,000	$15,110,572	$503,685.73	$2.06
Construction Eng	$614,000		$614,000				
Collection System							
Design	$106,657	$106,657					
Construction	$10,724,656	$10,724,656					
Construction Eng	$160,419	$160,419					
College Force Main Repair							
Design	$66,000	$66,000					
Construction	$656,000	$656,000					
Construction Eng	$66,000	$66,000					
TOTAL	$294,091,932	$26,155,932	$267,936,000	$267,936,000	$488,733,247	$16,291,108.22	$66.57

*Does not include financing costs.

Funded with Cash $26,155,932

TOTAL **$514,889,179**

Potential Overall Projects Costs - Example - 30-yr IEPA SRF Loan

Annual Interest Rate	2.16%
Period (years)	30
Number of Customers	20,394

Project	Estimated Cost	Fund with Cash	To Be Financed	Loan Amount	Total Cost Loan*	Annual Payment	Monthly Cost per Customer
WWTC Phase 1							
30% Design	$1,271,600	$1,271,600					
Final Design	$1,809,600	$1,809,600					
Construction	$63,570,000		$63,570,000				
Construction Eng	$3,179,000		$3,179,000				
Earlston LS Wetwell Repair							
Design	$34,000	$34,000					
Construction	$337,000	$337,000					
Construction Eng	$34,000	$34,000					
Northwest LS MCC Replacement							
Design	$44,000	$44,000		$74,876,000	$101,802,792	$3,393,426.39	$13.87
Construction	$579,000	$579,000					
Construction Eng	$44,000	$44,000					
College LS							
Design	$157,000	$157,000					
Construction	$2,137,000		$2,137,000				
Construction Eng	$157,000		$157,000				
Collection System							
Design	$300,000	$300,000					
Construction	$5,452,000		$5,452,000				
Construction Eng	$381,000		$381,000				
WWTC Phase 2							
30% Design/Ph3 Hyd/Struc E	$2,267,200	$2,267,200					
Final Design	$2,948,400	$2,948,400					
Construction	$98,280,000		$98,280,000				
Construction Eng	$4,914,000		$4,914,000				
Hobson LS							
Design	$311,000	$311,000		$109,591,000	$149,001,947	$4,966,731.55	$20.29
Construction	$4,148,000		$4,148,000				
Construction Eng	$311,000		$311,000				
Wroble LS							
Design	$135,000	$135,000					
Construction	$1,803,000		$1,803,000				
Construction Eng	$135,000		$135,000				
WWTC Phase 3/Admin Building							
30% Design	$904,800	$904,800					
Final Design	$1,809,600	$1,809,600		$63,336,000	$86,112,795	$2,870,426.49	$11.73
Construction	$60,320,000		$60,320,000				
Construction Eng	$3,016,000		$3,016,000				
1K-028 Basin							
Design	$776,000	$776,000					
Construction	$11,073,000		$11,073,000	$11,849,000	$16,110,119	$537,003.97	$2.19
Construction Eng	$776,000		$776,000				
WWTC Phase 4							
Design	$614,000	$614,000					
Construction	$7,670,000		$7,670,000	$8,284,000	$11,263,079	$375,435.98	$1.53
Construction Eng	$614,000		$614,000				
Collection System							
Design	$106,657	$106,657					
Construction	$10,724,656	$10,724,656					
Construction Eng	$160,419	$160,419					
College Force Main Repair							
Design	$66,000	$66,000					
Construction	$656,000	$656,000					
Construction Eng	$66,000	$66,000					
TOTAL	$294,091,932	$26,155,932	$267,936,000	$267,936,000	$364,290,731	$12,143,024.38	$49.62

*Does not include financing costs.

Funded with Cash $26,155,932

TOTAL **$390,446,663**