



District Engineering manages projects, consultants, contractors, and equipment suppliers. Consultant reports and Project Managers reports are included in this section along with details regarding the status of the associated study, design, or construction projects.

ACTIVE PROJECTS

22ENG44 East Headworks Grit Classifier Replacement:

SCOPE: Removal and replacement of the east headworks grit classifiers, grit removal conveyor and all appurtenances necessary to deliver a fully functioning integrated grit washing and removal system. SDD has pre-purchased grit washers, the removal conveyor, and grit dumpster distribution sweep plate. Contractor will assume responsibility for coordinating receiving, unloading, and staging equipment from the manufacturers.						
Contractor: Christy-Foltz, Inc				Original Contract Price: \$169,950.00		
Engineer: SDD						
R.E. Inspector: SDD						
Advertise	Pre-bid	Bid Open	Final Award	Notice to Proceed	Pre-Construction	Contract Completion Dates
05/10/23	05/30/23	06/15/23	06/21/23	TBD	TBD	TBD

Key Activities: Expected delivery of equipment by mid-October 2023 procured via PO 004510 issued 11/03/2022. Bids were opened as expected, there were two bidders; Christy Foltz and Plocher Construction.

Notice of Award has been issued to the contractor. We are awaiting delivery of bonds and insurance certificates.

21CMP04 Fermentation Reactor Pilot:

SCOPE: The construction of a pilot fermenter system which will include installation of a new primary sludge pump in the existing Primary Clarifier Control Structure (Structure 210) and associated piping; piping modifications downstream of existing waste activated sludge (WAS) pump in the WAS Pump Station (Structure 112); a new compressed air mixing system; a steel frac tank that has been fabricated as a fermenter (Temporary Structure 100) and requires connections to primary sludge, WAS, compressed air mixing system, odorous air treatment system, and Primary Effluent Channel (Structure 022).						
Contractor: Burdick Plumbing and Heating				Original Contract Price: \$956,796.00		
Engineer: Black and Veatch						
R.E. Inspector: SDD						
Advertise	Pre-bid	Bid Open	Final Award	Notice to Proceed	Pre-Construction	Contract Completion Dates
03/24/23	04/04/23	05/09/23	06/21/23	TBD	TBD	TBD

Key Activities: The new primary sludge pump, frac tank, compressed air mixing system and one adjustable speed drive have been purchased and are being assigned to the contractor to assume delivery coordination.

The Notice of Award and award has been issued and we are awaiting the delivery of the bonds and insurance certificates.

A new SCADA screen and integration for monitoring this reactor’s operation is required for this project. That integration will be performed by an Application Engineer. Staff has used Farnsworth Group for these efforts in the past and has started negotiating an agreement with them for that work. I anticipate an agreement be available for consideration at the August trustee meeting.

NON-CONSTRUCTION ACTIVITY

22ENG31 ADMINISTRATIVE OFFICE COMPLEX:

Staff began negotiations with Architectural Expressions this last period; met with AEX on 06/28/23 and again on 07/13/23. Good progress is being made on the scope of work and understanding of the effort SDD is expecting.

AEX is proposing to partner with Hanson Professional Services out of Springfield. A status update will be provided at the trustee meeting.

22ENG02 – Lost Bridge Force Main Renewal

A professional services agreement for the design and construction related services in replacement of Lost Bridge 10” force main was approved at the June 21, 2023 trustee meeting. Staff had a kickoff meeting with Clark Deitz Engineers (CDI) this period to launch the design effort. CDI will be providing monthly status updates for inclusion in future board reports for this project.

UPCOMING PROJECTS:

Collection System Master Plan - Resiliency Evaluation

Staff has completed the negotiation with Clark Dietz Engineers for updating the collection system master plan. This scope of work will focus on the NE Quadrant of Decatur. Staff anticipates this will be a multi-year master planning effort.

There is a professional services agreement before the board for consideration.

Clarifier Rehabilitation (South Cluster)

Similar to previous projects, staff is utilizing drafting services from Clark Dietz for preparing drawings necessary for this project. The project includes replacement of 3 isolation gates on the influent channels, painting 2 carbon steel clarifiers, performing maintenance work on the clarifier floors, and repairing 4 isolation gates in the nitrification aeration tanks. A kick-off meeting was held this last period and existing as-built drawings have been provided.

Replacement of Admin Building East Stairs

Staff is preparing plans for bidders to replace the failed stairs, handrails, and sidewalk on the east side of the administration building.

INTERGOVERNMENTAL ACTIVITIES

Don participated in additional meetings of the CITY, ADM and SDD “NE quadrant work group” looking at water and wastewater needs. Staff requested ADM service partners formally supply information regarding the wastewater flows. This is to officially document the anticipated pumping demand for the Brush College pump station. This needs to be quantified quickly to confirm the assumed size and destination of the discharge force main from the station.

Noted previously, a larger energy producing partner is planning for a peak of 1.8 MGD of wastewater conveyance needs and process water/cooling tower demand that is much higher. We are revisiting the potential for SDD to provide reclaimed water or ground water back to the NE Quadrant.

If there are any questions, please contact me by telephone at 422-6931 ext 216, or by email at DonM@sddcleanwater.org.



PROJECT MANAGER REPORT

July 11th, 2023

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ACTIVE PROJECTS

21ADM50 Front Gate, Fence, and Road Repairs:

SCOPE: Replacement of the damaged front gate, plant fencing repairs, and localized cast in place concrete work in the plant are included in this project. There are two Divisions of work to be awarded separately: 1) General/Concrete; and 2) Fence and Gate						
Contractor: Christy-Foltz			Original Contract Price: \$632,047.00			
Engineer: SDD			Sum of Change Orders: \$(2,053.77)			
R.E. Inspector: SDD			Total Value: \$629,993.23			
Advertise	Pre-bid	Bid Open	Final Award	Notice to Proceed	Pre-Construction	Contract Completion Dates
08/11/22	08/30/22	10/04/22	10/26/22	11/16/22	11/15/22	Div 1 – 120 days Div 2 – 150 days

Key Activities: All activities completed. Received final numbers for fencing, and have adjusted change order for fencing length, miscellaneous contingency, and additional work on the center median. We expect to close this project this month.

22ENG45 Primary Clarifier #5 Replacement Project:

SCOPE: Removal and replacement of the existing primary clarifier. Work will include the procurement, installation and commissioning of a new circular primary clarifier and appurtenances. Painting of UV light exposed and submerged carbon steel components, and miscellaneous electrical adjustments to facilitate the removals and commissioning of the new process unit.						
Contractor: Plocher			Original Contract Price: \$1,155,600.00			
Engineer: SDD			Sum of Change Orders: \$0			
R.E. Inspector: SDD			Total Value: \$1,155,600.00			
Advertise	Pre-bid	Bid Open	Final Award	Notice to Proceed	Pre-Construction	Contract Completion Dates
09/16/22	09/27/22	11/01/22	11/17/22	11/30/22	Feb 2024 (tentative)	330 days-Substantial 360 days - Final

Key Activities: Component delivery moved from October 2023 to late February 2024 (provided by Walker Process representative). Last component delivery moved from September to late October 23 (provided by Scott Plocher on 04/03/23) due to the inability to lower the tank level and confirm dimensions. Original key dates were demolition starting 08/09/23, coating removal/reapplication start 08/23/23, clarifier install start 09/06/23, and cleanup/demobilization finish 10/12/23. New dates will be updated following a solid manufacturing schedule.

Staff had a conference call with Walker Process and the contractor this last period to discuss the delay in delivery of the clarifiers.

As a result of that call, SDD has requested Plocher to perform additional clarifier measurements on primary clarifiers #4 and #6, both which need to be replaced, in preparation for pre-procurement of the two additional clarifier mechanisms.



PROJECT MANAGER REPORT

July 11th, 2023

21ENG40 Replacement of Sludge Transfer Pump:

SCOPE: Remove and replace the existing Abel Sludge Transfer Pump (south) that has reached the end of its useful life.						
Contractor: Burdick Plumbing and Heating			Original Contract Price: \$303,574.00			
Engineer: SDD			Sum of Change Orders: \$0			
R.E. Inspector: SDD			Total Value: \$303,574.00			
Advertise	Pre-bid	Bid Open	Final Award	Notice to Proceed	Pre-Construction	Contract Completion Dates
09/21/22	10/11/22	11/03/22	11/17/22	01/09/23	12/20/22	180 days-Substantial 210 days - Final

Key Activities: Pump was delivered to Burdick the first week of July 2023 per Brandon Burdick. Installation expected to require approximately 45 calendar days to complete. Change of dates for substantial and final completion will follow manufacturer’s delivery.

21ENG15 Water Tower Painting:

SCOPE: Power washing the wet interior surfaces and top coating the exterior surfaces of the District’s 300K gallon elevated non-potable water storage tower. Also included is power washing the exterior surfaces of the District’s 32-ft inside diameter gas holding sphere.						
Contractor: Neumann Co.			Original Contract Price: \$197,200.00			
Engineer: SDD/Donohue			Sum of Change Orders: \$69,856.77			
R.E. Inspector: Dixon Engineering.			Total Value: \$267,056.77			
Advertise	Pre-bid	Bid Open	Final Award	Notice to Proceed	Pre-Construction	Contract Completion Dates
08/03/22	08/17/22	09/07/22	10/14/22	11/10/22	05/10/2023	330 days-Substantial 360 days - Final

Key Activities: Coating of water tower, gas sphere washdown, and demobilization completed by 06/21/2023. It was discovered that the cathodic protection inside tank was in disrepair and was replaced and re-energized 7/11/23. Existing surface coatings had failed requiring additional surface prep (SSPC SP7 blasting) to remove it to a suitable substrate for overcoating. One year inspection to occur in June 2024 for the warranty of work.

There is a final change order before the board for consideration.

Previous Changes:

Work Change Directive #1 (replacement of failed cathodic protection arms)	\$14,947.37
Work Change Directive #2 (additional surface blast of exterior coating)	\$21,744.25
Work Change Directive #3 (additional surface blast of interior coating T&M)	\$33,165.15

22ENG08 Roof Replacement and Maintenance Project

SCOPE: Project consists of wet insulation replacement and EPDM roofing maintenance on 16 treatment plant buildings. As needed, Modified Bituminous Membrane roofing repairs and replacement will be addressed. The Emergency Bypass building will have a shingled roof replaced with a metal roof panel installation. Fluid Applied Roofing repair and replacement as needed. Miscellaneous shingles to be fixed, and granular roofs to be touched up.						
Contractor: TBD			Original Contract Price: \$TBD			
Engineer: SDD			Sum of Change Orders: \$0			
R.E. Inspector: SDD			Total Value: \$TBD			
Advertise	Pre-bid	Bid Open	Final Award	Notice to Proceed	Pre-Construction	Contract Completion Dates
07/13/23	07/20/23	08/03/23	TBD	TBD	TBD	90 days-Substantial 120 days - Final

Key Activities: This project was advertised this period and staff is preparing for Pre-Bid meeting on 07/20/23. We are currently preparing an addendum to establish the overall quantity of “wet insulation” that needs to be replaced.

22ENG09 Seal Coating and Road Repair

SCOPE: Removal and replacement of roadway around the Digester complex, Water tower access road, and various patches around the Sanitary District Plant. Seal coating around the Administration building, and Maintenance building. Restriping of the parking lots adjacent to the maintenance and administration buildings.						
Contractor: TBD			Original Contract Price: \$TBA			
Engineer: SDD			Sum of Change Orders: \$0			
R.E. Inspector: SDD			Total Value: \$TBA			
Advertise	Pre-bid	Bid Open	Final Award	Notice to Proceed	Pre-Construction	Contract Completion Dates
05/26/23	06/13/23	06/29/23	TBD	TBD	TBD	90 days-Substantial 120 days - Final

Key Activities: Bids were opened on 6/29/23 as anticipated. Dunn Co. was the only bidder.

The bid tab is attached and there is a contract before the board for consideration.

Sanitary District of Decatur
 CONTRACTOR PROPOSAL - BID TABULATION

Project: 2023 Seal Coating and Road Repair
 Bid Date: 6/29/2023
 Bid Time: 10:00am

Item #	Pay Item	QTY	UOM	Engineers Estimate		Dunn. Company	
				Unit Price	Total	Unit Price	Total
1	Miscellaneous Owner Contingency	1	LS	\$ 5,000	\$ 5,000	\$ 5,000	\$ 5,000.00
2	Water Tower Road: Mill and properly dispose of existing A2 to regrade (Confrim Depth	1750	S.Y.	\$ 12.29	\$ 21,508	\$ 13.60	\$ 23,800.00
3	Water Tower Road: Construct 4" depth Asphalt Pavement (2" base course & 2" surface course)	1750	S.Y.	\$ 27.00	\$ 47,250	\$ 32.50	\$ 56,875.00
4	Digester Complex: Remove and properly dispose of exisiting Asphalt - 4" depth	1850	S.Y.	\$ 8.92	\$ 16,502	\$ 9.20	\$ 17,020.00
5	Digetser Complex: Construct 4" depth Asphalt Pavement (2" base course & 2" surface course)	1850	S.Y.	\$ 30.00	\$ 55,500	\$ 37.50	\$ 69,375.00
6	Misc. Patches: Remove 4" ca6 and 1 foot either side of patch surface course, and replace with Asphalt Pavement (2" base course & 2" surface course)	80	S.Y.	\$ 71.43	\$ 5,714	\$ 93.50	\$ 7,480.00
7	Clean and seal coat parking lots	65500	S.F.	\$ 0.30	\$ 19,650	\$ 0.18	\$ 11,790.00
8	Crack Filling	1500	L.F.	\$ 1.33	\$ 1,995	\$ 1.35	\$ 2,025.00
9	Striping 17' length, 10' wide isles, at 8" wide parking stripes	1700	L.F.	\$ 0.90	\$ 1,530	\$ 1.20	\$ 2,040.00
10	Painting 3 Handicap Symbols, 7 "VISITOR" parking letterings, 1 Cross Walk	1	LS	\$ 300.00	\$ 300	\$ 960.00	\$ 960.00
				\$ -	\$ -	\$ -	\$ -
				\$ -	\$ -	\$ -	\$ -
TOTAL BID AS READ:				\$ 174,948.90	\$ 196,365.00	\$ 196,365.00	\$ 196,365.00