



**DIRECTOR OF ENGINEERING REPORT**

**May 26, 2021**

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**

**20-07 Digester Complex Improvements:**

SCOPE: The Digester #3 floating cover and the face brick on all four digester tanks is being replaced.						
Contractor: Christy-Foltz Engineer: Donohue and Associates			R.E. Inspector: SDD/W Gray - Donohue			
Advertise	Pre-bid	Bid Open	Final Award	Notice to Proceed	Pre-Construction	Scheduled Completion
11/17/20	12/01/20	12/22/20	02/17/21	03/18/21	03/18/21	360 Substantial 390 Final
Work Change Directive (WCD)  Submittals Reviewed: 1 complete /2 open Requests for Information (RFIs): 1 complete /0 open Owner Requests for Proposal/Change Order (RFPCO): 1 complete / 0 open						

**Key Activities:** Stewart Spreading, the subcontractor being used for removal of the digester contents, has removed contents from digesters 3 and 2. They have demobilized until the new siding has been installed on digester #2 and it can be returned to service. Washdown of the walls in digester #3 is underway and removal of mixer and will begin this coming month.

**Issues:** Contractor was put on notice that the District is concerned that the shop drawing for the replacement lid has not been received.

**Changes:**

1. WCD 01: Additional Pump Down of Digester Contents: Contract documents \$ (TBD) required SDD to bring digester liquid elevation down to 593.0. Digester 3 quit pumping down at 595.33 and Digester #2 at 595.8. Contractor was put on time and material for the additional pumping required.

**20-01 Lake Shore Drive PS Replacement:**

SCOPE: This project is scheduled to reconfigure the pump station to be submersible pumps.						
Contractor: TBD Engineer: Clark Dietz Engineers, Inc			R.E. Inspector: SDD/J Edenburn - CDI			
Advertise	Pre-bid	Bid Open	Final Award	Notice to Proceed	Pre-Construction	Scheduled Completion
12/02/20	01/05/21	02/03/21	03/24/21	04/07/21	04/07/21	360 Substantial 390 Final
Submittals Reviewed: 8 received / 8 completed Requests for Information (RFIs): Owner Requests for Proposal/Change Order (RFPCO): 1 Issued/1 Completed Change Orders: 1 completed						

**Key Activities:** None. Contractor has not submitted a schedule yet. They are working to confirm arrival of new pump station pumps. The arrival of the pumps is a key milestone

in the schedule and lead time on it has been hard to obtain. Manufacturer has indicated 16 weeks, but has been concerned about customs clearance due to COVID delays.

**20-01 South Shores Sewer Rehab:**

SCOPE: CIPP lining of approximately 17,700 LF of sewer, tie-in connections and approximately 700 vertical feet of cementitious manhole restoration.						
Contractor: TBD			Engineer: Farnsworth Group, Inc			
Advertise	Pre-bid	Bid Open	Intent Award Final Award	Notice to Proceed	Pre- Construction	Scheduled Completion
12/15/20	02/02/21	03/02/21	03/17/21 06/xx/21	06/xx/21	06/xx/21	270 Substantial 300 Final
Submittals Reviewed: Requests for Information (RFIs): Owner Requests for Proposal/Change Order (RFPCO):						

**Key Activities:** Communication with IEPA indicates the Agency is getting close to extending the loan offer for this project. We expect the loan offer to be extended the week of May 24<sup>th</sup>, 2021.

**20-15 Hatch Replacement:**

SCOPE: This project includes various hatch replacements needed to implement an active replacement plan.						
Contractor: Burdick Plumbing and Heating			Engineer: SDD			
Advertise	Pre-bid	Bid Open	Final Award	Notice to Proceed	Pre- Construction	Scheduled Completion
11/20/20	12/03/20	02/04/21	02/17/21	03/11/21	03/xx/21	140 days
Submittals Reviewed: Requests for Information (RFIs): 1 submitted / 1 completed. Owner Requests for Proposal/Change Order (RFPCO):						

**Key Activities:** <<No Update on Hatch Arrivals>> All submitted hatches have been reviewed and approved. Contractor is waiting for the arrival of material to begin installation.

**2020 Roads and Site Work Project – DIV A**

SCOPE: Annual maintenance is performed at various locations throughout the District facilities. The work is divided into two (2) divisions – ROADS and CONCRETE (site work). DIV A - road work is in the immediate area surrounding the vehicle storage building where asphalt is being replaced; along with the oil and chip at the Wyckles facility that was damaged during the valve replacement project.						
Contractor: DIV A – ROADS – Dunn Company			Engineer: SDD			
Advertise	Pre-Bid	Bid Open	Final Award	Notice to Proceed	Pre- Construction	Scheduled Completion
08/19/20	08/27/20	09/10/20	09/23/20	10/12/20	10/07/20	60 days
Submittals Reviewed: 3 shop drawings submitted /3 complete. Requests for Information (RFIs): 2 received /2 answered. Owner Requests for Proposal/Change Order (RFPCO): 0 issued /0 outstanding						

**Key Activities:** <<No contractor activity this period>> Dunn Company will apply sealcoating at the plant and A2 work at Wyckles in the spring.

**20-19 Wyckles Facility Sludge Inlet Repairs:**

SCOPE: Removal of existing lagoon chutes that have collapsed and reinstalling chutes incorporating a shotcrete blanket to bridge the void left by removing the chute below the discharge.						
Contractor: Christy-Foltz				Engineer: SDD		
Advertise	Pre-Bid	Bid Open	Final Award	Notice to Proceed	Pre-Construction	Scheduled Completion
01/22/21	03/04/21	<del>04/06/21</del> 04/15/21	04/22/21	05/03/21	05/13/21	90 days
Submittals Reviewed: 0 submitted Requests for Information (RFIs): 0 submitted Owner Requests for Proposal/Change Order (RFPCO): 0 requested						

**Key Activities:** Notice to proceed was issued and pre-construction meeting were both held this last period. Contractor has begun the removal of existing damaged concrete.

**20-13 Grit Drying Bed Upgrades:**

SCOPE: Scope of work includes the removal of existing concrete structure and installation of a 50'x60' grit drying structure with bin blocks and site drainage upgrades.						
Contractor: Christy-Foltz				Engineer: SDD		
Advertise	Pre-Bid	Bid Open	Final Award	Notice to Proceed	Pre-Construction	Scheduled Completion
03/10/21	03/24/21	<del>04/13/21</del> 04/15/21	04/22/21	05/03/21	05/13/21	90 days
Submittals Reviewed: 0 submitted Requests for Information (RFIs): 0 submitted Owner Requests for Proposal/Change Order (RFPCO): 0 requested						

**Key Activities:** Notice to proceed was issued and pre-construction meeting were both held this last period. Grit drying bed is being brought in as precast panels and no work has been performed at this point in time. No submittals have been received.

**20-08 Roof Rehabilitation Project:**

SCOPE: The scope includes replacement of existing roofing system of Bldg. 871 (well house) at Wyckles Facility. The balance of the 9 roofs is for application of coatings on buildings 870 & 872 (Wyckles Facility), 860 (St. Louis Bridge Pump Station), 584 (Oakland Avenue C.S.O. Facility), 526 (7th Ward C.S.O.), 502 (McKinley Avenue C.S.O.), and 557, 559, 561 (Lincoln Park C.S.O.).						
Contractor: TBD				Engineer: SDD		
Advertise	Pre-Bid	Bid Open	Final Award	Notice to Proceed	Pre-Construction	Scheduled Completion
03/30/21	04/13/21	05/11/21	06/xx/21	xx/xx/21	xx/xx/21	120 days
Submittals Reviewed: Requests for Information (RFIs): Owner Requests for Proposal/Change Order (RFPCO):						

**Key Activities:** Bids were opened this last period. There were two bidders. No recommendation is being brought this month as additional information is needed from the material supplier to complete the overall project cost picture. This work was bid as installation only, and the district supplies the materials. At the time of preparing this report, material cost, while expected to be



about 93,000 plus shipping, was not available. The lowest bid for labor to install this material was at 79,000. There will be a complete summary at the next trustee meeting.

**NON-CONSTRUCTION ACTIVITY**

**PLANNING: PHOSPHORUS REMOVAL**

Staff has prepared a request for qualifications (RFQ) to be issued for firms qualified and interested in performing Program Manager (PM) services to the Sanitary District of Decatur for Phosphorous Removal Planning, Design Criteria generation, Design Administration, Watershed management and general NPDES Permit compliance items related to milestones for meeting permit target dates. It is expected there will be significant interest in this RFQ, therefore we intend to select 3-5 of the top RFQs returned and request face to face presentations be made before final selection.

Staff expects this RFQ to be advertised May 24<sup>th</sup>, 2021. A copy of the RFQ is attached to this report.

**DESIGN: Fermentation Reactor – Black and Veatch**

Design Kickoff Meeting	03/10/21 - Complete
Preliminary Engineering Assessment	05/10/21 – Complete
30% Design Submittal/Review	06/21/21
90% Design Submittal/Review	08/19/21
Final Design Submittal	08/27/21

Comments to the Draft Preliminary Engineering Report have been returned and a staff review of the Preliminary Engineering is scheduled with Black and Veatch on 6/2/21.

**STUDY: Regionalization Planning – CMT Engineers**

In March 2021 SDD entered into an agreement with Crawford Murphy and Tilling Consulting Engineers (CMT) for investigating regionalization opportunities to the West of the SDD Main Treatment facility; ranging from approximately I-72 to Route 121. Below is an expected timeline for the investigation.

Investigation Kickoff	03/31/21 - Complete
Intermediate Opportunity Review	05/20/21
Final Draft	06/24/21

Options/Alternative review is scheduled with CMT for 05/27/21.

**DESIGN: Decant Upgrades Wyckles Facility – East Lagoon**

Staff initiated a task order with Donohue and Associates for Upgrades associated with improving the decanting operation in the East Lagoon. With the East Lagoon emptied, this is the time to perform such a modification. Staff expects plan sheets to deal with structural and process modifications. All bidding services will be performed internally. The task order was issued in the not to exceed amount of \$11,800

**May 26, 2021**

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**STUDY: East Headworks Grit Flow Modeling – Clemson Engineering Hydraulics**

Staff is developing a scope of work with Clemson Engineering Hydraulics to model the flow of grit through the east primary headworks. Dr David Werth of Clemson Engineering is the hydraulic modeling expert that worked with SDD through the effluent pump station flow issues. The District experiences imbalanced grit loading through this structure and with the West Headworks upgrades is desiring to address the imbalanced grit load. This modeling effort is expected to be around \$30,000.

**UPCOMING PROJECTS:**

**Replacement of Sludge Transfer Pump:** <<No Update>> Staff is preparing plans for the procurement and installation of a replacement transfer pump. This pump moves sludge from the main treatment plant to the Wyckles Facility.

**Sodium Bisulfite Tank Replacement:** <<No Update>> Development of project plans to replace the two sodium bisulfite tanks is ongoing.

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**INTERGOVERNMENTAL ACTIVITIES**

Quarterly Coordination Meeting with the CITY of Decatur was held as scheduled this last period.

The CITYs request to change grade elevations over the interceptor that runs from ADM and transverses south underneath Faries Parkway (FP) remains a point of follow-up. This is part of the CITY’s Brush College/FP interchange project. SDD has received a cost estimate of \$100K to replace the affected section(s) of pipe with new pipe that would eliminate the concern of additional overburden. Staff is working with the CITY on how to resolve the need to adjust grade and preserve the integrity of the sewer pipe.

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



# Memorandum

Date: May 5, 2021  
To: Donald B. Miller, P.E., Director of Engineering  
From: Terry Boyer, P.E.  
Re: Project Status Report  
2020-07 Digester Improvements Project  
Donohue Project No. 13782

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## 2020-07 Digester Improvements Project

A site meeting was held on May 3, 2021 with Christy-Foltz Superintendent Shame McLain. Stewart Spreading mobilized to the site May 3 to begin removing digester contents. The Contractor has submitted a preliminary schedule that Donohue has reviewed. The schedule is not showing the 14-day duration required to transition a digester out of service before it can be worked on. The schedule also shows submittal reviews beginning on dates that have past. Donohue has not yet received any submittals other than the preliminary schedule.

Updated: 5-5-2021	Open	Closed	Total
Shop Drawings	0	1	1
RFI	0	1	1
Change Order Request	1	0	1
Change Orders	0	0	0

We have received one RFI from WesTech which contained field verification questions that needed to be answered before WesTech could deliver their Submittal. Donohue passed it along to Christy-Foltz to perform the field verifications required to respond to WesTech. The only submittal we have received so far is the preliminary schedule. We have one Change Order Request in to Christy-Foltz, this is to price recycling the removed bricks into crushed aggregate for use by the District.



May 11, 2021

Mr. Donald Miller  
Sanitary District of Decatur  
501 S. Dipper Lane  
Decatur, IL 62522

Re: Lakeshore Drive Lift Station Replacement Project  
Clark Dietz Project No. D0540030  
SDD Project No. 20-01  
Monthly Progress Update

Dear Mr. Miller:

To date, the significant dates of the Lakeshore Drive Lift Station Replacement construction project are as follows:

- February 3, 2021 – Bids Received
- March 17, 2021 – Notice of Award issued to Christy Foltz
- March 17, 2021 – Effective Date of Agreement with Christy Foltz
- April 7, 2021 – Notice to Proceed issued to Christy Foltz
- April 7, 2021 – Pre-construction Meeting

Completion dates of the contract are:

- April 2, 2022 – Substantial Completion
- May 2, 2022 – Final Completion

Clark Dietz' work in April was primarily coordinating the pre-construction meeting and pre-construction meeting minutes. In April we received and began reviewing four shop drawings. We have not received the contractor's construction schedule yet, but have reminded them that it is due.

In May, we anticipate receiving and reviewing additional shop drawings and coordinating with the contractor as they submit their schedule and begin work on site.

Please call me at 217-373-8933 if you have any questions.

Very Truly Yours,  
Clark Dietz, Inc.

Andrea W. Bretl, P.E.  
Project Manager