DIRECTOR OF ENGINEERING REPORT

Mar 17, 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 useful life on Digester #3 floating cover has been exceeded and the lid is being replaced under this contract. Along with that work, the brick facia on the digester tanks is being replaced under this contract as well.

Contractor: Christy-Foltz R.E. Inspector: SDD/W Gray - Donohue
Engineer: Donohue and Associates

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

Submittals Reviewed:
Requests for Information (RFIs):
Owner Requests for Proposal/Change Order (RFPCO):

Key Activities: Notice of Award was issued this last period. We are awaiting the delivery bonds and insurance. The pre-construction conference is scheduled the week of 03/15/21.

Changes: NONE

20-01 Lake Shore Drive PS Replacement:

SCOPE: The Lake Shore pump station was originally built in 1953, modified in 1976, and subsequently modified again in August 2000 when ADM installed a force main to bypass the flow around the pump station. The original design of the pump station was for the 4 shaft driven pumps with the drive motors upstairs and the pumps 2 stories below. Staff has modified the pumps to be dry pit submersible style pumps to improve the reliability, however access to the lower level is restricted and the pipe gallery is undersized and is a very difficult environment to perform any maintenance. This project is scheduled to reconfigure the pump station to be submersible pumps and rehabilitate a 20" force main which will separate domestic flow from ADM flow from Lake Shore to the East Side Booster pump station.

Contractor: TBD R.E. Inspector: SDD/ J Edenburn - CDI
Engineer: Clark Dietz Engineers, Inc

Advertise	Pre-bid	Bid Open	Final Award	Notice to Proceed	Pre-Construction	Scheduled Completion
12/02/20	01/05/21	~~01/19/21~~ 02/03/21	03/xx/21	04/xx/21	04/xx/21	360 Substantial 390 Final

Submittals Reviewed:
Requests for Information (RFIs):
Owner Requests for Proposal/Change Order (RFPCO): 1 Issued

Key Activities: A review of the bids and development of the energy profile in the ADM force main/SDD force main interconnect location jointly indicate that: 1. the cost of including the 20" force main rehabilitation in this project is higher than expected, and 2. Reconnecting to the existing 30" force main is acceptable to the operation and should better fit into the budgeted amount for this project, therefore staff has approached Christy-Foltz (lowest responsive responsible bidder) for a change order proposal (RFPCO

001 – attached) for removing the force main lining from the work and providing an alternate connection into the existing 30" force main. At this time, the proposed change amount has not been received, but staff expects to have it available prior to the board of trustee meeting and will pass it along once it has been received.

There is a construction contract recommendation for trustee consideration under old business. Concurrent with the construction recommendation, staff is anticipating agreement on a negotiated price reduction for RFPCO 001. In anticipation of that agreement, *there is also Change Order 01 for the trustee consideration under old business*.

Changes:

1. CHANGE ORDER 01 – Delete 20" force main lining and reconnect pump station to the shared 30" inch force main. $ (TBD)

20-01 South Shores Sewer Rehab:

SCOPE: The South Shores interceptor was constructed in 1965 with primarily reinforced concrete pipe and has not been rehabilitated. The sewer was built to serve the south side of town and was extended to serve the Village of Mt Zion in the 1980's (this extension is excluded from this work). The sewer has high root infiltration and chemical corrosion from H2S. Chemical damage to the concrete pipe is primarily sulfate (acid) corrosion of the concrete pipe, resulting from hydrogen sulfides in the wastewater and long travel times to the SDD wastewater treatment facility. This system runs along the South side of Lake Decatur and has manholes that are difficult to access and require temporary access easements to perform the work.

The work generally consists of CIPP lining 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	~~01/19/21~~ 03/02/21	03/xx/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: Bids were opened as planned this last period. No updated information from IEPA regarding the loan application has been received, although we are expecting it soon. Two bids were received and there is a bid recommendation letter included from the engineers to accept the bids. *Included in old business is a contract award recommendation for trustee consideration.*

Because this is a Water Pollution Control-State Revolving Loan Funded project, the IEPA requires an ordinance be passed by the trustees authorizing the borrowing of the funds. *Included in old business, is an ordinance for the trustee consideration.*

Agreement has been reached with the parcel owner from which SDD is seeking the final permanent easement. Volkert Inc. has be dispatched to obtain the final documents to complete the permanent easement parcels.

20-15 Hatch Replacement:

SCOPE: The Sanitary District has a working hatch replacement asset management plan. This project includes various hatch replacements needed to implement that 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): Owner Requests for Proposal/Change Order (RFPCO):						

Key Activities: Notice of Award was provided to contractor this last period. We are waiting for Performance/Payment Bonds and Insurances to be returned.

Changes: NONE

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: Scope of work includes the 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: TBD Engineer: SDD						
Advertise	Pre-Bid	Bid Open	Final Award	Notice to Proceed	Pre-Construction	Scheduled Completion
01/22/21	03/04/21	04/06/21	xx/xx/21	xx/xx/21	xx/xx/21	90 days
Submittals Reviewed: Requests for Information (RFIs): Owner Requests for Proposal/Change Order (RFPCO):						

Key Activities: A non-mandatory pre-bid meeting was held on 2/18/21 as planned. There were no bidders present for the pre-bid meeting.

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: TBD
Engineer: SDD

Advertise	Pre-Bid	Bid Open	Final Award	Notice to Proceed	Pre-Construction	Scheduled Completion
03/10/21	03/24/21	04/13/21	xx/xx/21	xx/xx/21	xx/xx/21	90 days

Submittals Reviewed:
Requests for Information (RFIs):
Owner Requests for Proposal/Change Order (RFPCO):

Key Activities: A non-mandatory pre-bid meeting is scheduled for 3/24/21.

NON-CONSTRUCTION ACTIVITY

PLANNING: PHOSPHORUS REMOVAL

Staff has started preparing a request for qualifications (RFQ) to be issued for firms qualified and interested in performing services to the Sanitary District of Decatur for Phosphorous Removal Planning, Design Criteria generation, Design Oversight, 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.

DESIGN: Fermentation Reactor – Black and Veatch

Design Kickoff meeting was held on 03/10/21. Design schedule and data needs were discussed. Below is the design schedule.

Preliminary Engineering Assessment	05/10/21
30% Design Submittal/Review	06/21/21
90% Design Submittal/Review	08/19/21
Final Design Submittal	08/27/21

All requested data has been provided. Engineering site visit is scheduled for 03/23/21.

STUDY: ARC FLASH STUDY Main Treatment Facility

Industrial Technology Group (ITG) from Champaign, IL was awarded a professional services agreement on 01/22/2020 to update the main treatment plant ARC FLASH STUDY.

Arc Flash Study is complete and accepted by the District. Label installation is currently being coordinated with Bodine Electric. We expect labeling to be completed the Week of 3/19/21.

STUDY: Regionalization Planning

In response to an inquiry from the Village of Harristown regarding their options for addressing their aging treatment plant infrastructure, SDD staff has developed a scope of work with CMT Consulting Engineers for investigating regionalization opportunities to the West of the SDD Main Treatment facility. *There is a professional services agreement before the board for consideration under new business.*

UPCOMING PROJECTS:

2020 Roofing Project: Each year the SDD Asset Management Program plans for rehabilitation on roofing systems on the district facilities. With the major construction SDD undertook with the West Headworks Upgrades, the 2019 project was placed on hold. The program is being reinstated this year and 16 roofs that were scheduled in 2019 and 2020 have been inspected and drawings and specifications for repairs are complete. Final review before advertising the work is underway.

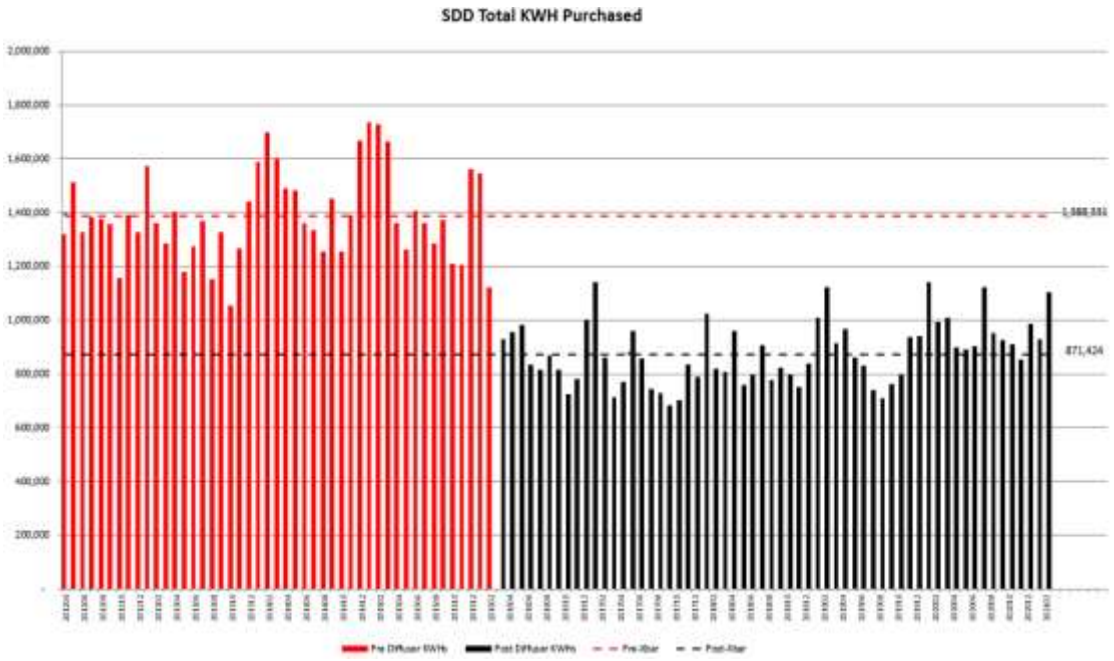
Engineering Office Repairs: Window replacement was completed this last period. The Mini-Spilt system technical specifications are complete and new cost estimate is being prepared.

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.

INTERGOVERNMENTAL ACTIVITIES

Staff presented at an IEPA Office of Energy and WWTP Energy Assessment panel discussion "Upgrade vs. Replacement: When Is It Time?" (sponsored by the Smart Energy Design and Assistance Center at Univ of IL). We reported on SDD experience with Asset Management, Cost Analysis, and the role of redundancy and criticality was discussed and the chart below was highlighted.



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

Memorandum

Date: March 10, 2021

To: Donald B. Miller, P.E., Director of Engineering

From: Terry Boyer, P.E.

Re: Project Status Report
Digester #3 Lid Replacement Project
Donohue Project No. 13782

Digester #3 Lid Replacement Project

Bids were received and the notice of award has been sent to Christy Foltz and the agreement has been executed. Christy Foltz is preparing bonds and insurance. It is expected that we should receive those this week.

A preconstruction meeting is planned for the week of March 15th. Shop drawings should start coming in over the next 30 days. Long lead times on the aluminum siding and the digester lid will result in actual construction field work to begin in the May / June timeframe. The contract allows for 360 days for substantial completion.

Clark Dietz
Engineering Quality of Life™

March 8, 2021

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

Re: Lake Shore Drive Pump Station Upgrades
Clark Dietz Project No. D0540030
Invoice No. 8

Dear Mr. Miller:

Invoice No. 8 covers work performed for the Lake Shore Drive Lift Station Replacement project from January 30 through February 26, 2021. Clark Dietz worked on the following tasks during the February period. These tasks were out of the scope of our Agreement but were performed at the request of the District.

- Discussed replacing the 20" forcemain with the District along the same alignment as the existing 16" alignment
- Investigated railroad and IDOT permitting required to replace the forcemain
- Reviewed pump calculations for discharging to the 30" FM instead of the 20" FM
- Prepared a SewerCAD model of the forcemain alignment from ADM's lift station to the Eastside Booster station and analyzed several scenarios including pumping only ADM, pumping only municipal flow, and pumping both ADM and municipal flow simultaneously
- Prepared a post-bid lift station re-design memo describing the modeling and analysis to determine the appropriate pump selection and the likely reasons why the existing station has limited capacity at high flow rates.
- Prepared a chronology of the cost estimates from pre-design through bidding
- Discussed the requirements for an RFP to the Contractor to eliminate the lining and connection to the 20" FM and instead flow to the 30" FM.

Work in March is anticipated to include preparing the Drawings needed for and RFP to the Contractor to connect to the 30" FM, preparing the RFP, answering any questions related to that RFP, and reviewing the RFP.

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

Clark Dietz
Engineering Quality of Life℠

March 12, 2021

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

Re: Bid Recommendation
Lake Shore Drive Pump Station Upgrades
Clark Dietz Project No. D0540030

Dear Mr. Miller:

Bids were received on February 3, 2021 at 10:00 AM for the Lake Shore Drive Pump Station Upgrades project. Bids were submitted by three general contractors, who are known to the District and were found to be responsive to the requirements of the bidding documents. The following is a summary of the base bids, a complete bid tabulation is attached.

	Base Bid as Read	Base Bid as Corrected
Engineer's Estimate	*$3,265,000*	--
Christy-Foltz, Inc. *Decatur, IL*	$3,781,964	$3,815,464
Korte & Luitjohan *Highland, IL*	$4,175,435	$4,075,435
Plocher Construction *Highland, IL*	$4,464,605	$4,464,605

Both Christy-Foltz, the low bidder, and Korte & Luitjohan, the second low bidder, had arithmetic errors in their Base Bid as Read. Per the bidding documents, "Discrepancies between the multiplication of the units of Work and unit prices will be resolved in favor of the unit prices. Discrepancies between the indicated sum of any column of figures and the correct sum thereof will be resolved in favor of the correct sum." Therefore, the "Base Bid as Corrected" column in the table above should be considered the base bid amount.

The difference between the Engineer's Estimate and the low bid were primarily due to the unexpectedly high bid unit prices of cured-in-place pipe (CIPP) lining.

There was one bid alternate: replacing a portion of the 20-inch forcemain located in grassy areas instead of CIPP lining in that area. The average of the deductive is $206,330 and the low-bidder's deductive alternate prices is $200,000. This reduces the low bid total price to $3,615,464. Since the quality of this alternate is expected to be greater than or equal to pipe lining Clark Dietz recommends that the District accept the deductive alternate.

The lowest responsive and responsible bidder is Christy-Foltz. Chrisy-Foltz is a known and responsive contractor. The Sanitary District also has had positive experiences with them. Therefore, Clark Dietz

recommends that the Sanitary District of Decatur accept the bid from Christy-Foltz with the bid alternate.

The contract price includes $40,000 of allowance to cover minor modifications if they arise during construction. We recommend that the District plan for an additional 5% contingency for the project. This contingency will not only cover any omissions in the construction documents, but will also be required to address any unforeseen conditions in the work and any additional work requested by District staff during construction.

Improvements being made with this project simplify and correctly size to the pump discharge pipe at the Lake Shore Drive Pump Station. Part of the existing capacity issues that this station has are due to the existing pump discharge piping size and layout. The proposed Lake Shore Drive pumps are three equally sized units: two operating to meet peak hourly flows, one will meet daily average flows, and one will be a stand-by pump. The bid documents planned to separate the Lake Shore Drive lift station from the industrial flow in the 30" forcemain by rehabilitating the existing 20" forcemain to reduce complexity and expand overall capacity. However, pump system calculations and modeling show that, with the assumption that the industrial flow remains the same as it is now, the size of the Lake Shore Drive Pumps are the same whether discharging to the 30" forcemain as it does now or the 20" forcemain as planned in the bid documents. Given that 1) the very high cost of CIPP lining the 20" forcemain and 2) the ability of the designed pumps to discharge to either forcemain with no adverse impact on capacity, Clark Dietz recommends eliminating CIPP lining and/or replacement from the project scope. Clark Dietz has prepared a request for proposal for Christy-Foltz that eliminates the CIPP lining and connection to the 20" forcemain and directs the contractor to connect to the 30" forcemain. We anticipate a deductive Change Order of approximately $1.1 million for this revised scope.

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

Enclosure: Bid Tabulation

Sanitary District of Decatur
CONTRACTOR PROPOSAL - BID TABULATION

Project: **20-01 Lake Shore Drive Lift Station Replacement**
Bid Date: **2/3/2021**
Bid Time: **10:00am**

Item #	Pay Item	QTY	UOM	Engineers Estimate		CHRISTY-FOLTZ 5% Bid Bond		KORTE & LUITJOHAN 5% Bid Bond		PLOCHER CONSTRUCTION 5% Bid Bond	
				Unit Price	Total	Unit Price	Total	Unit Price	Total	Unit Price	Total
1	All work not included in 2 through 9 below	1	LS	$ 1,922,075	$ 1,922,075	$ 2,094,319	$ 2,094,319	$ 2,297,210	$ 2,297,210	$ 2,706,000	$ 2,706,000
2	Submersible Pump Equipment as described in 43 25 00	1	LS	$ 248,808	$ 248,808	$ 248,808	$ 248,808	$ 248,808	$ 248,808	$ 248,808	$ 248,808
3	Engine Generator Equipment as described in 26 32 13	1	LS	$ 75,117	$ 75,117	$ 75,117	$ 75,117	$ 75,117	$ 75,117	$ 75,117	$ 75,117
4	Contingency Allowance	1	LS	$ 40,000	$ 40,000	$ 40,000	$ 40,000	$ 40,000	$ 40,000	$ 40,000	$ 40,000
5	Cured in Place Pipe Lining as described in 33 01 30 from Station 23+20 to the Lake Shore Drive Lift Station	1280	LF	$ 236	$ 302,321	$ 298	$ 381,440	$ 320	$ 409,600	$ 307	$ 392,960
6	Cured in Place Pipe Lining as described in 33 01 30 from Station 23+20 to the East Side Booster Pump Station	2245	LF	$ 236	$ 530,242	$ 344	$ 772,280	$ 360	$ 808,200	$ 356	$ 799,220
7	20-ft segment of DIP forcemain replacement including all restoration to existing conditions under an asphalt covered concrete sidewalk with 5 ft minimum cover. This is a contingency item for existing segments in poor condition.	4	EA	$ 17,714	$ 70,856	$ 18,000	$ 72,000	$ 18,000	$ 72,000	$ 19,000	$ 76,000
8	20-ft segment of DIP forcemain replacement including all restoration to existing conditions under grass with 5 ft minimum cover. This is a contingency item for existing segments in poor condition.	4	EA	$ 11,809	$ 47,238	$ 15,000	$ 60,000	$ 16,000	$ 64,000	$ 15,000	$ 60,000
9	20-ft segment of DIP forcemain replacement including all restoration to existing conditions under an asphalt roadway with 5 ft minimum cover. This is a contingency item for existing segments in poor condition.	2	EA	$ 14,171	$ 28,343	$ 19,000	$ 38,000	$ 19,000	$ 38,000	$ 22,000	$ 44,000
10	Concrete Crack Repair as described in 03 01 00	200	LF		$ -	$ 80	$ 16,000	$ 95	$ 19,000	$ 65	$ 13,000
11	Concrete Surface Repair as described in 03 01 00	100	SF		$ -	$ 175	$ 17,500	$ 35	$ 3,500	$ 95	$ 9,500
Deductive Alternate***											
A	Replace the existing 20-inch forcemain with a new 20-inch ductile iron pipe from Station 23+20 to the East Side Booster Station eliminating the need for lining per item 6, above. Include all surface resoration, including grass, concreate and asphalt paving and any other surface features. Place the new forcemain in the same horizontal and vertical alignment as the current alignment. The original 1976 plan set of the existing forcemain are included with the drawings, for reverence though surface features and /or utility crossings may have changed. The repaced section of forcemain will not have CIPP liner.	1	LS		$ -	$ 200,000	$ 200,000	$ 205,100	$ 205,100	$ 213,890	$ 213,890
	TOTAL BID AS READ not including Alternate:					**	$ 3,781,964.00		$ 4,175,435.00		$ 4,464,605.00
	TOTAL BID AS CORRECTED not including Alternate:				**$ 3,265,000.00**		**$ 3,815,464.00**		**$ 4,075,435.00**		**$ 4,464,605.00**
	TOTAL BID AS CORRECTED including Alternate:						**$ 3,615,464.00**		**$ 3,870,335.00**		**$ 4,250,715.00**

** Addition Error corrected on C-F Bid

*** Note Korte and LuitJohan submitted the deductive alternate as a negative value, however clarified the intent was for a contract price savings if alternate was accepted

Farnsworth GROUP

2709 McGraw Drive
Bloomington, Illinois 61704
p 309.663.8435 f 309.663.1571

www.f-w.com | www.greennavigation.com

March 9, 2021

Sanitary District of Decatur
Attn: Don Miller, Director of Engineering
501 Dipper Lane
Decatur, IL 62522

Subject: 20-06 South Shores Sewer Rehabilitation
Bidding Results and Recommendation

Dear Mr. Miller,

Bids were received for the subject project at the Sanitary District office until 11 a.m. on March 4, 2021. Shortly thereafter, bids were opened and publicly read aloud.

Farnsworth Group has reviewed the two (2) bids received and created the tabulation of bids below for your records.

CONTRACTOR	BID PRICE
SAK Construction, LLC	$8,766,537.00
Insituform Technologies, Inc.	$9,538,999.53

We have reviewed the bid package from SAK Construction, LLC and have determined that their bid is the low-responsive responsible bid. The apparent low bid from SAK Construction, LLC of $8,766,537.00 came in $94,673.00 (1%) under the Engineer's Construction Cost Estimate of $8,861,210.00. SAK Construction, LLC is qualified and experienced for the specified scope of work. It is our recommendation that the District approve the base bid in the total amount of $8,766,537.00. Should an award be made, please return the Notice of Intent to Award to my attention for further processing. Once approval from the Illinois Environmental Protection Agency (IEPA) has been made, the Notice of Award will be executed.

Please let us know if there are any questions.

Sincerely,

FARNSWORTH GROUP, INC.

Kevin N. Hannel
Engineering Manager

Sanitary District of Decatur
20-06 South Shores Sewer Rehabilitation 0200886.00

LETTING: Thursday, March 4, 2021
11:00 a.m. CST

FARNSWORTH GROUP, INC.
2709 McGraw Drive, Bloomington IL 61704

20-06 SOUTH SHORES SEWER REHABILITATION

Quantity	Unit	Item Description	Engineer's Estimate		Insituform Technologies		SAK							
			Unit Price	Total	Unit Price	Total	Unit Price	Total	Unit Price	Total	Unit Price	Total	Unit Price	Total
490	VF	CEMENTITIOUS MANHOLE LINING, 48" DIA.	$200.00	$98,000.00	$311.00	$152,390.00	$983.00	$481,670.00		$0.00		$0.00		$0.00
66	VF	CEMENTITIOUS MANHOLE LINING, 60" DIA.	$250.00	$16,500.00	$316.00	$20,856.00	$1,021.00	$67,386.00		$0.00		$0.00		$0.00
179	VF	CEMENTITIOUS MANHOLE LINING, 72" DIA.	$275.00	$49,225.00	$378.00	$67,662.00	$1,059.00	$189,561.00		$0.00		$0.00		$0.00
6	VF	CEMENTITIOUS MANHOLE LINING, SPECIAL (MH 763-11)	$500.00	$3,000.00	$2,140.00	$12,840.00	$2,333.00	$13,998.00		$0.00		$0.00		$0.00
1004	LF	CURED-IN PLACE SEWER LINING, 12" DIA.	$70.00	$70,280.00	$67.00	$67,268.00	$99.00	$99,396.00		$0.00		$0.00		$0.00
3573	LF	CURED-IN PLACE SEWER LINING, 18" DIA.	$175.00	$625,275.00	$90.00	$321,570.00	$131.00	$468,063.00		$0.00		$0.00		$0.00
7907	LF	CURED-IN PLACE SEWER LINING, 30" DIA.	$300.00	$2,372,100.00	$188.00	$1,486,516.00	$263.00	$2,079,541.00		$0.00		$0.00		$0.00
612	LF	CURED-IN PLACE SEWER LINING, 36" DIA.	$450.00	$275,400.00	$290.00	$177,480.00	$484.00	$296,208.00		$0.00		$0.00		$0.00
1658	LF	CURED-IN PLACE SEWER LINING, 42" DIA.	$400.00	$663,200.00	$300.00	$497,400.00	$391.00	$648,278.00		$0.00		$0.00		$0.00
2969	LF	CURED-IN PLACE SEWER LINING, 47"X26" ELLIPTICAL	$500.00	$1,484,500.00	$430.00	$1,276,670.00	$297.00	$881,793.00		$0.00		$0.00		$0.00
28	EACH	FRAME REPLACEMENT	$700.00	$19,600.00	$2,330.00	$65,240.00	$3,300.00	$92,400.00		$0.00		$0.00		$0.00
3	EACH	INTERNAL CHIMNEY SEAL	$1,000.00	$3,000.00	$1,035.00	$3,105.00	$1,120.00	$3,360.00		$0.00		$0.00		$0.00
3	EACH	MANHOLE LID REPLACEMENT	$300.00	$900.00	$1,035.00	$3,105.00	$390.00	$1,170.00		$0.00		$0.00		$0.00
2	EACH	REPAIR BENCH AND TROUGH	$1,000.00	$2,000.00	$2,850.00	$5,700.00	$2,800.00	$5,600.00		$0.00		$0.00		$0.00
6	EACH	ROOT TREATMENT MANHOLE	$500.00	$3,000.00	$415.00	$2,490.00	$1,830.00	$10,980.00		$0.00		$0.00		$0.00
1	LUMP SUM	SEWER FLOW CONTROL	$2,000,000.00	$2,000,000.00	$4,175,000.00	$4,175,000.00	$2,346,400.00	$2,346,400.00		$0.00		$0.00		$0.00
88	EACH	SERVICE LATERAL REINSTATEMENT	$250.00	$22,000.00	$0.01	$0.88	$100.00	$8,800.00		$0.00		$0.00		$0.00
15951	LF	SEWER MAIN CLEANING AND TELEVISING	$30.00	$478,530.00	$26.00	$414,726.00	$23.00	$366,873.00		$0.00		$0.00		$0.00
1772	LF	SEWER MAIN CLEANING AND TELEVISING - HEAVY CLEANING	$50.00	$88,600.00	$31.25	$55,375.00	$30.00	$53,160.00		$0.00		$0.00		$0.00
88	EACH	SEWER LATERAL CLEANING AND TELEVISING	$1,000.00	$88,000.00	$465.00	$40,920.00	$450.00	$39,600.00		$0.00		$0.00		$0.00
1	LUMP SUM	SITE CLEARING	$200,000.00	$200,000.00	$192,000.00	$192,000.00	$4,500.00	$4,500.00		$0.00		$0.00		$0.00
31	EACH	STRAIGHT LINER INSTALLATION	$2,500.00	$77,500.00	$4,140.00	$128,340.00	$4,200.00	$130,200.00		$0.00		$0.00		$0.00
3	EACH	T-LINER INSTALLATION, 12"x6"	$3,000.00	$9,000.00	$4,715.00	$14,145.00	$4,800.00	$14,400.00		$0.00		$0.00		$0.00
33	EACH	T-LINER INSTALLATION, 18"x6"	$3,200.00	$105,600.00	$5,000.00	$165,000.00	$5,100.00	$168,300.00		$0.00		$0.00		$0.00
21	EACH	T-LINER INSTALLATION, 30" AND LARGER x6"	$3,500.00	$73,500.00	$9,200.00	$193,200.00	$9,400.00	$197,400.00		$0.00		$0.00		$0.00
65	EACH	VACUUM TESTING	$500.00	$32,500.00	$0.01	$0.65	$1,500.00	$97,500.00		$0.00		$0.00		$0.00
		TOTAL BID PRICE =		**$8,861,210.00**		**$9,538,999.53**		**$8,766,537.00**		**$0.00**		**$0.00**		**$0.00**

ORDINANCE NO. 21-02

AN ORDINANCE AUTHORIZING THE SANITARY DISTRICT OF DECATUR OF MACON COUNTY, ILLINOIS TO BORROW FUNDS FROM THE WATER POLLUTION CONTROL REVOLVING LOAN FUND

WHEREAS, the Sanitary District of Decatur of Macon County, Illinois operates its sewerage system (the "System") in accordance with the provisions of Sanitary District Act of 1917, and;

WHEREAS, the President and Board of Trustees of the Sanitary District of Decatur (the "Corporate Authorities") have determined that it is advisable, necessary and in the best interest of public health, safety and welfare to improve the System, including the following:

SOUTH SHORES INTERCEPTOR REHAB WHICH SHOULD FULFILL THE PUBLIC NEEDS FOR 20 YEARS

together with any land or rights in land and all electrical, mechanical or other services necessary, useful or advisable to the construction and installation (the "Project"), all in accordance with the plans and specifications prepared by consulting engineers to the Sanitary District of Decatur; and

WHEREAS, the estimated cost of construction and installing the Project, including engineering, legal financial and other related expenses is $9,000,000; and

WHEREAS, the costs are expected to be paid for with a loan to the Sanitary District of Decatur from the Water Pollution Control Revolving Loan Fund through the Illinois Environmental Protection Agency, the loan to be repaid from user fees and/or property taxes and whereas the loan is authorized pursuant to 70 ILCS 2405/9(a).

WHEREAS, in accordance with the provisions of the above statute, the Sanitary District of Decatur is authorized to borrow funds from the Water Pollution Control Revolving Loan Fund in the aggregate amount of $9,000,000.00 to provide funds to pay the costs of the Project; and

WHEREAS, the loan to the Sanitary District of Decatur shall be made pursuant to a Loan Agreement, including certain terms and conditions, between the Sanitary District of Decatur and the Illinois Environmental Protection Agency;

NOW THEREFORE be it ordained by the President and Board of Trustees of the Sanitary District of Decatur, Macon County, Illinois as follows:

SECTION 1. INCORPORATION OF PREAMABLES

The Corporate Authorities hereby find that the recitals contained in the preambles are true and correct, and incorporate them into this ordinance by this reference.

SECTION 2. DETERMINATION TO BORROW FUNDS

It is necessary and in the best interests of the Sanitary District of Decatur to construct the Project for the public health, safety and welfare, in accordance with the plans and specifications, as described; that the System continue to be operated in accordance with the provisions of the Illinois Environmental Protection Act, 415 ILCS 5/1 et. seq.; and that for the purpose of constructing the Project, it is hereby authorized that funds be borrowed by the Sanitary District of Decatur in an aggregate principal amount (which includes construction period interest financed over the term of the loan) not to exceed $9,000,000.00.

SECTION 3. ADDITIONAL ORDINANCES

The Corporate Authorities may adopt additional ordinances or proceedings supplementing or amending this Ordinance providing for entering into the Loan Agreement with the Illinois Environmental Protection Agency, prescribing all the details of the Loan Agreement, and providing for the collection, segregation and distribution of the dedicated revenues, so long as the maximum amount of the Loan Agreement as set forth in this Ordinance is not exceeded and there is no material change in the Project or purposes described herein. Any additional Ordinances or proceedings shall in all instances become effective in accordance with the Act or other applicable law. This Ordinance, together with such additional ordinances or proceedings, shall constitute complete authority for entering into the Loan Agreement under applicable law.

However, notwithstanding the above, the Sanitary District of Decatur may not adopt additional ordinances or amendments which provide for any substantive or material change in the scope and intent of this Ordinance, including but not limited to interest rate, preference or priority of any other ordinance with this Ordinance, parity of any other ordinance with this Ordinance, or otherwise alter or impair the obligation of the Sanitary District of Decatur to pay the principal and interest due to the Water Pollution Control Revolving Loan Fund without the written consent of the Illinois Environmental Protection Agency.

SECTION 4. LOAN REPAYMENT BY THE SANITARY DISTRICT OF DECATUR

Repayment of the loan to the Illinois Environmental Protection Agency by the Sanitary District of Decatur pursuant to this Ordinance is to be from the revenue derived from user fee and/or property taxes and the loan may (if paid with property taxes) constitute an indebtedness of the Sanitary District of Decatur within the meaning of any constitutional or statutory limitation.

SECTION 5. APPLICATION FOR LOAN

Executive Director is hereby authorized to make application to the Illinois Environmental Protection Agency for a loan through the Water Pollution Control Revolving Loan Fund, in accordance with the loan requirements set out in 35 Ill. Adm. Code 365. The loan funds received shall be used solely for the purposes of the project as approved by the Illinois Environmental Protection Agency in accordance with the terms and conditions of the Loan Agreement.

SECTION 6. AUTHORIZATION OF EXECUTIVE DIRECTOR OR DIRECTOR OF ADMINISTRATION OF THE SANITARY DISTRICT OF DECATUR

The Executive Director is hereby authorized and directed to execute the Loan Agreement with the Illinois Environmental Protection Agency.

SECTION 7. SEVERABILITY

If any section, paragraph, clause or provision of this Ordinance is held invalid, the invalidity of such section, paragraph, clause or provision shall not affect any of the other provisions of this Ordinance.

SECTION 8. REPEALER

All ordinances, resolutions or order, or parts thereof, which conflict with the provisions of this Ordinance are, to the extent of such conflict, hereby repealed.

Dated this ____ day of _____ 20____

President Sanitary District of Decatur

ATTEST:

Clerk Sanitary District of Decatur