



US 460
 Frankfort, KY 40601
 Office: (502) 695-9800
 Fax: (502) 695-9810

March 13, 2024

Melissa Melton, CP Loan Specialist
 Rural Development
 975 Lovers Lane
 Bowling Green, KY 42103

Re: Final Engineering Report
 System Improvements Project
 Nebo Water District
 HMB #4317

Dear Mrs. Melton:

As you are aware, the above referenced project was bid on March 6, 2024. The low bidders were as follows:

Contract I – PS Replacement	M. Bowling Inc.	\$676,915
Contract II – AMR System	United Systems & Software	\$719,265

Following is a summary of the financing and budget for this project:

	<u>Project Budget</u>	<u>Letter of Conditions</u>	<u>As Bid</u>
Highway Engineering	Development	\$1,165,000	\$1,396,180
Structural Engineering	Land and Rights	\$10,000	\$10,000
Water & Wastewater	Legal & Administration	\$17,500	\$20,000
	Engineering	\$147,000	\$147,000
Site Development	KYPIPE Model	\$40,000	\$40,000
	Environmental	\$10,000	\$10,000
Right-of-Way	Interest	\$15,000	\$25,000
Master Planning	PSC Preparation	\$2,000	\$2,000
	AIS Monitoring	\$5,000	\$5,000
Environmental Planning	Miscellaneous	\$10,000	\$10,000
	<u>Contingencies</u>	<u>\$120,500</u>	<u>\$101,820</u>
Surveying	Total Project Cost	\$1,542,000	\$1,767,000

Project Management

Cost Estimation

Financing:

Construction Inspection

<u>Funding Source</u>	<u>Letter of Conditions</u>	<u>Revised Funding</u>
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Aviation Services

RUS Loan	\$1,542,000	\$1,542,000
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Environmental Remediation

KIA Grant 21CWW095	\$0	\$160,000
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Landscape Architecture

KIA Grant 22CWW001	<u>\$0</u>	<u>\$65,000</u>
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Total Project Cost	\$1,542,000	\$1,767,000
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The proposed project costs exceeded those in the Letter of Conditions. Nebo Water District has received two KIA Grants for this project. The District will dedicate \$225,000 of these grant funds toward the project. With the additional funding, it appears the project can be completed within the available funding. Therefore, we recommend Rural Development issue a Revised Letter of Conditions and these contracts be approved and allowed to go forward.



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Attached please find a copy of the Bid Tabulations for this project.

If you have any questions or need additional information, please call.

Sincerely,

HMB Professional Engineers, Inc.



Jeff Reynolds, P.E.



Highway Engineering

Structural Engineering

Water & Wastewater

Site Development

Right-of-Way

Master Planning

Environmental Planning

Surveying

Project Management

Cost Estimation

Construction Inspection

Aviation Services

Environmental Remediation

Landscape Architecture



Bid Tabulation
Contract I - Pump Station Replacement
Nebo Water District

Project: 4317.00
 Date: 3/6/2024
 Engineer: JR
 Page: 1

Bid Date: March 6, 2024 @ 11:00 AM local time

Item No.	Quantity	Unit	Item	M. Bowling Construction		Scott & Ritter, Inc.		Bobby Luttrell & Sons, LLC		United Pipeline	
				Unit Price	Total	Unit Price	Total	Unit Price	Total	Unit Price	Total
1	300	LF	8" PVC, Class 200 Pipe, SDR-21, Furnishing, Trenching, Installing and Backfilling (Unclassified Excavation)	\$100.00	\$30,000.00	\$107.00	\$32,100.00	\$95.00	\$28,500.00	\$95.00	\$28,500.00
2	70	LF	14" Steel Casing by Bore & Jack under State, County and City Roads (Water Line, Not Included)	\$616.50	\$43,155.00	\$395.00	\$27,650.00	\$200.00	\$14,000.00	\$310.00	\$21,700.00
3	4	EA	8" CI AWWA NRS Gate Valve and Box, Concrete Pad, Complete in Place	\$2,665.00	\$10,660.00	\$4,158.00	\$16,632.00	\$2,500.00	\$10,000.00	\$4,000.00	\$16,000.00
4	1	LS	Demolition of the Existing Pump Station, as shown on the plans and described in the specifications	\$11,000.00	\$11,000.00	\$24,457.00	\$24,457.00	\$56,800.00	\$56,800.00	\$90,000.00	\$90,000.00
5	1	LS	Relocate Generator and Transfer Switch, including concrete pad, testing and placing into satisfactory operation as described on the plans and specifications. (Complete in Place)	\$54,000.00	\$54,000.00	\$29,075.00	\$29,075.00	\$23,500.00	\$23,500.00	\$35,000.00	\$35,000.00
6	1	LS	Supervisory Control and Data Acquisition (SCADA) Control System Upgrade, including furnishing, installation, testing and placing into satisfactory operation	\$82,800.00	\$82,800.00	\$89,286.00	\$89,286.00	\$88,500.00	\$88,500.00	\$40,000.00	\$40,000.00
7	1	LS	Booster Pump Station, including but not limited to furnishing and installing pumps, piping, valves, controls, building, concrete, site work, electric, fence, etc. (Complete in Place)	\$445,000.00	\$445,000.00	\$496,715.00	\$496,715.00	\$515,000.00	\$515,000.00	\$740,000.00	\$740,000.00
8	4	EA	Fiberglass Water Line Marker	\$50.00	\$200.00	\$100.00	\$400.00	\$91.00	\$364.00	\$60.00	\$240.00
9	1	LS	Videotape Entire Work Area Prior to Start of Construction	\$100.00	\$100.00	\$1,515.00	\$1,515.00	\$1,000.00	\$1,000.00	\$2,000.00	\$2,000.00
TOTAL BASE BID					\$676,915.00		\$717,830.00		\$737,664.00		\$973,440.00

This is to state that the above is an accurate tabulation of bids received on March 6, 2024 by the Nebo Water District for Contract I - Pump Station Replacement Project.

Signed: 
 Jeff Reynolds
 Kentucky PE No. 20469



 Indicates an error in the contractors bid.



Bid Tabulation
Contract II - Automated Meter Reading System
Nebo Water District
Bid Date: March 6, 2024 @ 11:00 AM local time

Project: 4317.00
 Date: 3/6/2024
 Engineer: JR
 Page: 1

Item No.	Item	Quantity	Unit	United Systems & Software			Total	Unit Price	Total	Unit Price	Total
				Unit Price	Total	Unit Price					
1	Furnish 5/8"x3/4" Meter with Iron Connector	1,590	LF	\$199.00	\$316,410.00						
2	Furnish 1" Meter with Iron Connector	20	LF	\$329.00	\$6,580.00						
3	Furnish 1-1/2" Meter with Iron Connector	2	EA	\$749.00	\$1,498.00						
4	Furnish 2" Meter with Iron Connector	2	LS	\$999.00	\$1,998.00						
5	Furnish 4" Ultrasonic Meter with Iron Connector	1	LS	\$5,999.00	\$5,999.00						
6	Furnish Iron 100W+ Pkt End Point	1,615	EA	\$105.00	\$169,575.00						
7	Automated Meter Reading (AMR) System, including hardware, software, training, installation, support and other items necessary for a fully Automated Meter Reading System as described in the specifications.	1	LS	\$87,615.00	\$87,615.00						
8	Installation of 5/8"x3/4" AMR Endpoint and Meter in Existing Meter Box	1,575	EA	\$80.00	\$126,000.00						
9	Installation of 1" AMR Endpoint and Meter in Existing Meter Box	18	EA	\$80.00	\$1,440.00						
10	Installation of 1-1/2" AMR Endpoint and Meter in Existing Meter Box	2	EA	\$325.00	\$650.00						
11	Installation of 2" AMR Endpoint and Meter in Existing Meter Box	2	EA	\$350.00	\$700.00						
12	Installation of 4" AMR Endpoint and Ultrasonic Meter in Existing Meter Vault	1	LS	\$800.00	\$800.00						
TOTAL BASE BID					\$719,265.00						

This is to state that the above is an accurate tabulation of bids received on March 6, 2024 by the Nebo Water District for Contract II - Automated Meter Reading System.

Signed: 
 Jeff Reynolds
 Kentucky PE No. 20469



 Indicates an error in the contractors bid.