

Public Works Department  
1100 Vance Street  
Reidsville, NC 27320  
[P] 336-349-1070  
[F] 336-634-1738

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**Administration**

*Kevin Eason, PE*

349-1070

**Engineering**

*Steve Moran, PE*

349-1047

**Fleet Maintenance**

*Tony Stowe*

349-1078

**Public Services**

*Lindsey Tuttle*

349-1077

**Solid Waste**

*Pat Knowles*

349-1074

**Wastewater Treatment**

*Ben Bani*

349-1102

**Water Supply**

*Scott Jewell*

342-4001

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To: Preston Mitchell  
From: Kevin Eason, PE  
Date: May 1, 2017  
Re: May 9<sup>th</sup> Council Agenda Item  
Authorization to Award Construction Contract  
High Service Level Water Pump Station (GSO)

**Background**

On April the City received bids for the high level pump station proposed to serve Greensboro with a steady state flow of 1 MGD. We had a successful bid opening with 4 bidders participating. The results were:

Bidder	Base Bid	Alternate Bid
Gilbert Engineering Co.	\$1,711,636	\$1,723,316
Haren Construction, Inc.	\$1,618,000	\$1,626,000
Laughlin-Sutton Const. Co.	\$1,598,000	\$1,606,000
<b>Wharton-Smith, Inc.</b>	<b>\$1,477,016</b>	<b>\$1,482,016</b>

All of the bids were below the Engineer's Estimate of \$1,765,000.

Wharton-Smith is the lowest responsible bidder. They are located out of Sanford, Florida with their local office in Charlotte. They are currently finishing up on the clearwell replacement project at Greensboro's Mitchell WTP.

In accordance with the revised water sales contract with Greensboro, Greensboro, Greensboro will be responsible for the total cost of the pump station, less the cost required for the metering of the station. The metering cost of the project bid is \$62,123.

### **Recommendation**

It is recommended that the City award the contract to Wharton-Smith, Inc. for the alternate bid amount of \$1,482,016. The difference between the two bids is the selection of a pump with a little more pumping capacity and one which operates closer to the pumps best efficiency point which will result in less wear on the pump in the future.

The slight over-sizing of the pump will provide Reidsville the ability to supply water equivalent to approximately 1,300 single-family homes to southern Rockingham County in the future, should that area develop, with the addition of a water tank.

This request for authorization to award and issue the notice to proceed is contingent upon two items:

1. The contract cannot be awarded until the NC PWS Division issues an Authorization to Proceed.
2. The City of Greensboro will have to execute a side agreement with the City of Reidsville in order to properly setup the revenue/expenditure accounts for the project.

### **Council Request**

Upon completion of the two aforementioned conditions,

1. It is requested that Council authorizes the City Manager to execute a construction contract with Wharton-Smith, Inc. in the amount of \$1,482,016.
2. It is requested that Council authorize additional \$22,123 from the Water Reserve Fund to add to the \$40,000 included in the 2017-18 Capital Equipment allocation to provide funds for Reidsville portion of the project (metering).

Attch. Arcadis Recommendation  
Certified Bid Tabulation

Cc Chris Phillips, Assistant City Manager / Finance  
Angela Stadler, City Clerk

Mr. Kevin Eason, PE  
Director of Public Works  
City of Reidsville  
1100 Vance Street  
Reidsville, NC 27320

Arcadis G&M of North Carolina,  
Inc.  
1 Centerview Drive  
Suite 208  
Greensboro  
North Carolina 27407  
Tel 336 292 2271  
Fax 336 855 5648

Subject:  
Reidsville-Greensboro High Lift Pumping Station  
Award Recommendation and Bid Tabulation

WATER DIVISION

Dear Mr. Eason:

Date:  
April 28, 2017

On April 27, 2017 the scheduled Bid Opening for the subject project was held at the Reidsville City Hall. On that date four (4) bids were received and read aloud. The attached Bid Tabulation indicates the results. The lowest responsive, responsible Bidder was Wharton-Smith, Inc. of Sanford, FL (local office in Charlotte, NC), who holds the appropriate classification of a current Unlimited, Building and Public Utility General Contractor's license (No. 38755). Wharton-Smith offered a base bid in the amount of \$1,477,016.00 and an alternate bid in the amount of \$1,482,016.00.

Contact:  
Mo Pacini

Phone:  
336.292.2271

Email:  
mo.pacini@arcadis.com

The Base Bid is approximately 19% below the Engineer's Opinion of Probable Construction Cost of \$1,765,000 estimated during the Final Design Phase.

Our ref:  
GRRDV001.C001

The Alternate Bid was provided to offer the City an opportunity to select a pump with a higher pumping capacity (approx. 1,025 GPM alternate bid vs. 940 GPM base bid) and one that operates essentially at its Best Efficiency Point (BEP). While the Base Bid pump does operate inside the Preferred Operating Region, it is well left of BEP. Typically, operation as close as possible to BEP is desired to minimize internal forces on the rotating element which improves bearing and seal longevity.

Based on the Alternate Bid price, the City has the option to choose a pump with a higher pumping capacity, as well as a more favorable operating efficiency condition for an additional \$5,000.

As required, the Bidder provided Supplemental Unit Prices as listed in the Bid Form. The purpose of the supplemental prices is to have set prices on items which may ultimately be needed but are unforeseen before bidding. These prices are included in the Bid Form, but have no effect on the total Bid price.

Mr. Kevin Eason, PE  
April 28, 2017

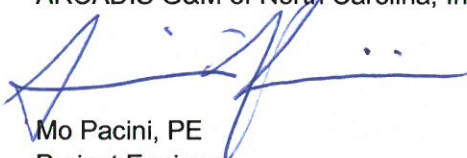
Based on our review, it is recommended that the City reject supplemental unit price E2, "Rock Excavation, including disposal" in the amount of \$1,650 per cubic yard, due to this unit price being excessive, and *accept* each of the other Supplemental Unit Prices. Should rock excavation become necessary during the project, our recommendation is that the unit price for such work be negotiated as a change to the contract.

Arcadis has worked with Wharton-Smith on other construction projects in the recent past, and they are a well-qualified and reputable construction firm. Therefore, we recommend that the City select either the base bid or the alternate bid as desired and award this contract, accordingly, to Wharton-Smith. Should you concur with our recommendation, we will provide a Notice of Award to be executed by the City and provided to Wharton-Smith.

Please contact me if you have any questions regarding this information.

Sincerely,

ARCADIS G&M of North Carolina, Inc.



Mo Pacini, PE  
Project Engineer

Copies:

Steve Moran, City Engineer, Reidsville  
Michael Borchers, Deputy Director of Water Resources, Greensboro  
Virginia Spillman, Water Resources Engineering Manager, Greensboro  
David Hamilton, Project Manager, Arcadis

Enclosures:

Bid Tabulation



City of Reidsville, North Carolina  
Water Treatment Plant Improvements - High Lift Pumping Station

BID TABULATION

Bids Opened: April 27, 2017 at 2:00pm



**Arcadis G&M of North Carolina, Inc.**  
CONSULTING ENGINEERS  
1 Centerview Dr., Ste. 208  
Greensboro, NC 27407  
336-292-2271

			Wharton-Smith, Inc.			Laughlin-Sutton Construction Company			Haren Construction Company, Inc			Gilbert Engineering Company		
			5601 Seventy Seven Center Dr., Ste. 120 Charlotte, NC 28217 704.525.5695 x5305 NC Lic. No. 38755			5855 Rudd Station Rd. Browns Summit, NC 27214 336.375.0095 NC Lic. No. 3067			1715 Highway 411 North Elowah, TN 37331 423.263.5561 NC Lic. No. 7770			P.O. Box 828 Statesville, NC 28687 704.872.0986 NC Lic. No. 999		
Item No.	Description	Qty	BID AMOUNT			BID AMOUNT			BID AMOUNT			BID AMOUNT		
			Unit	Price	Total	Unit	Price	Total	Unit	Price	Total	Unit	Price	Total
1	Lump Sum Bid Price for Metering	1	LS	\$62,123.00	<b>\$62,123.00</b>		\$30,000.00	\$30,000.00		\$60,000.00	\$60,000.00		\$44,386.00	\$44,386.00
2	Lump Sum Credit Bid Price for PRV Salvage [Deduct]	1	LS	-\$750.00	-\$750.00		-\$750.00	-\$750.00		-\$750.00	-\$750.00		-\$750.00	-\$750.00
3	Lump Sum Bid Price for Pumping Base Bid	1	LS	\$1,410,643.00	\$1,410,643.00		\$1,563,750.00	\$1,563,750.00		\$1,553,750.00	\$1,553,750.00		\$1,663,000.00	\$1,663,000.00
4	Lump Sum Bid Price for Testing (Allowance)	1	LS	\$5,000.00	\$5,000.00		\$5,000.00	\$5,000.00		\$5,000.00	\$5,000.00		\$5,000.00	\$5,000.00
	<b>TOTAL BASE BID PRICE</b>				<b>\$1,477,016.00</b>			<b>\$1,598,000.00</b>			<b>\$1,618,000.00</b>			<b>\$1,711,636.00</b>
5	Alternative Pumping [Add] [Deduct] *	1	LS	\$5,000.00	\$5,000.00			\$8,000.00			\$8,000.00			\$11,680.00
	<b>TOTAL ALTERNATE BID PRICE</b>				<b>\$1,482,016.00</b>			<b>\$1,606,000.00</b>			<b>\$1,626,000.00</b>			<b>\$1,723,316.00</b>
<b>Named Equipment Manufacturers and Subcontractors</b>														
	Base Bid Pumps			Peerless			Goulds			Peerless			Not Listed	
	Alternate Bid Pumps			Goulds			Goulds			Goulds			Not Listed	
	Control Valves			Cla-Val			Cla-Val			Cla-Val			Not Listed	
	Variable Frequency Drives			Not Listed			Not Listed			Allen Bradley			Not Listed	
	Instrumentation and Controls			Lord and Co.			Lord and Co.			Not Listed			Lord and Co.	
	Electrical Subcontractor			MV Electric			MV Electric			Not Listed			MV Electric	
<b>Supplemental Unit Prices</b>														
E.	Earth Excavation, including backfill		CY	\$22.00			\$40.00			\$15.00			\$15.00	
E1.	Earth Excavation, including disposal		CY	\$39.00			\$60.00			\$35.00			\$20.00	
E2.	Rock Excavation, including disposal		CY	<b>\$1,650.00</b>			\$120.00			\$250.00			\$170.00	
C.	Class AA Concrete, not including reinforcing steel (Wall or Formed)		CY	\$770.00			\$400.00			\$400.00			\$425.00	
C1.	Class B-2500 Concrete, not including reinforcing steel (Slab or Unformed)		CY	\$440.00			\$300.00			\$300.00			\$250.00	
C2.	Class B-3000 Concrete		CY	\$330.00			\$300.00			\$325.00			\$360.00	
C3.	Controlled Low Strength Material (CLSM)		CY	\$275.00			\$250.00			\$250.00			\$135.00	
R.	Reinforcing Steel		LB	\$2.00			\$1.30			\$1.00			\$1.00	
B.	Select Fill		CY	\$33.00			\$75.00			\$22.00			\$50.00	
B1.	General Fill		CY	\$28.00			\$50.00			\$20.00			\$40.00	
B2.	Subbase Material		CY	\$66.00			\$75.00			\$51.00			\$50.00	
B3.	Drainage Fill		CY	\$66.00			\$75.00			\$80.00			\$55.00	
B4.	Pipe Bedding Material		CY	\$66.00			\$50.00			\$56.00			\$55.00	
P.	Temporary Pavement		SY	\$110.00			\$20.00			\$65.00			\$50.00	
W.	Wood Supports and Bracing (per thousand feet, both ends included)		Mfbm	\$6,600.00			\$2,500.00			\$3,000.00			\$2,000.00	

Highlighting indicates a mathematical correction from original >

This Bid Tabulation is certified to be true and correct

Arcadis G&M of North Carolina, Inc.

By: Mo Pacini, PE

Date: 4/28/17

