DEPARTMENT OF UTILITIES
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**CITY OF JOLIET**
**ADDENDUM NO. 1**

**WELL 23D REHABILITATION - 2016**
**CONTRACT NO. 2129-1215**

**TO: PROSPECTIVE BIDDERS**

THE ATTENTION OF ALL PROSPECTIVE BIDDERS ON THE ABOVE REFERENCED PROJECT IS CALLED TO THE FOLLOWING LISTED MODIFICATION IN THE CONTRACT DOCUMENTS:

TESTING AFTER DEVELOPMENT

After completion of the shooting and bailing, the Contractor shall furnish and install test pumping equipment capable of pumping not less than 1500 GPM with the top of the pump bowl assembly to be installed 1000' below the ground surface. The pumping unit shall be complete with prime mover of ample power, controls and appurtenances and shall be capable of being operated without interruption for a period of 24 hours.

The Contractor shall furnish all necessary discharge piping for the pumping unit which shall be of sufficient size and length to conduct the water a distance of approximately 100' from the well site. The Contractor shall furnish and install in the well an airline complete with gauge, air supply and fittings for the measurement of the water elevation.

Except as otherwise provided, the contractor shall furnish all labor, equipment and other necessary materials required and shall operate the pumping unit at such rate of discharge and for such periods of time as directed. After the completion of the test, the Contractor shall remove by bailing any sand, stones or other foreign material that may become deposited in the well, said removal to be at the rate shown in the Unit Price Schedule for Sand Bailing. Time stated for the duration of the test is nominal only and the Engineer reserves the right to require the Contractor to extend or reduce such period of test or make additional tests subject to prices included in the Unit Price Schedule.

This work shall be paid for at the contract Hourly Rate for "TESTING AFTER DEVELOPMENT"

November 13, 2015

AIR PRESSURIZING

The Contractor shall install a suitable 300 psi, 10" butterfly valve on the Air Pressurizing discharge head welded to the top of the inner casing. Contractor shall secure the air supply line into the discharge head affixed to a valved air connection on the head. He shall then close the 10" valve on the discharge line, attach the air hose to the valved fitting, and introduce air into the well, forcing the column of water in the well down. Care shall be exercised to prevent air from entering the water-bearing formation. When the water level in the well is forced down to the depth agreed to with the Engineer, the discharge valve shall be opened and the water allowed to rise back to the static level. This process is repeated for an agreed number of hours. The next morning, the Contractor shall measure the well depth and then proceed to bailout sand fill with a 9" minimum diameter sand pump. After bailing the sand fill, the Contractor shall resume pressurizing and then bailing, as agreed to with the Engineer. Air compressor(s) shall be rated for 1,800 cfm total capacity with maximum operating pressure of 250 psi for the Air Pressurizing operation.

This work shall be paid for at the contract Hourly Rate price for “AIR PRESSURIZING”.

AIRLIFTING-SURGING

The Contractor shall employ the high-volume, high-pressure airlift surging method of development to clean 'out the well of loosened sandstone material. The Contractor shall furnish and install a temporary conductor pipe of 10" minimum inside diameter extending from a surface discharge tee into the sandstone formations that have been selected for airlifting. Conductor pipe stabilizers and welded joint straps shall be used as required. A 4" diameter air pipe shall be installed inside the conductor pipe from the surface discharge tee to within 50' of the bottom of the conductor pipe. The discharge tee shall be equipped with a 20' long horizontal *15-114"* minimum 1.0. (16" 0.0.) discharge pipe to direct the discharge flow from the well during the airlifting so as to minimize any damage to the surrounding area. A positive means shall be
provided to close off the conductor pipe discharge to reverse the flow and a separate 16" 0.0. discharge pipe shall be installed to direct any flow from the reverse airlifting up the annulus of the well. The Contractor shall furnish and utilize an air compressor for the airlift surging of a minimum size of 1600 cfm air capacity at-800. Psi discharge pressure rating. The Contractor shall furnish the Engineer with the rating of his compressor, certified by the manufacturer. The exact procedure for the airlift surging time, locations of the conductor pipe bottom, flow reversals, etc. shall be determined by the Engineer and the Contractor. If large chunks of sandstone interfere with the cleanout, the Contractor shall utilize bailing in conjunction with airlifting to complete the cleanout of the well.
The Owner will. be responsible for the disposal of material that has been bailed or removed from the well due to the airlift surging.
The Contractor will furnish with his proposal an experience list detailing at least fifteen Deep well airlifting jobs to include the name of the owner, the owner's representative, and the address and telephone number of the owner.
After the final test pumping after the airlift work, the pump will be removed from the well

and the well will be measured for total depth and static water level. Depending on the results of the final test and the measurement of the well, the Engineer may require the Contractor to reinstall the airlift surging equipment or to utilize bailing for further cleanout and/or development.

This work shall be paid for at the contract Hourly Rate for “AIRLIFTING-SURGING”

## The following Revised Bidding Schedule shall replace page 58. Note you must use the attached revised schedule:

**PROSPECTIVE BIDDERS SHALL ACKNOWLEDGE RECEIPT OF THE APPROPRIATE ADDENDUM NUMBER(S) BY STATING THIS ON THE OUTSIDE OF THE SEALED ENVELOPE CONTAINING THE BID PROPOSAL FOR THE ABOVE MENTIONED CONTRACT. FURTHER, BID PROPOSALS SHALL NOT BE OPENED WITHOUT ACKNOWLEDGEMENT OF RECEIPT OF ALL ADDENDUMS FOR THE GIVEN CONTRACT.**

Nicholas C. Gornick
Project Manager

## BIDDING SCHEDULE

1) Mobilization = Lump Sum $ _____

2) Well Pump Removal = Lump Sum $_____

3) Measurement of Well = Lump Sum $_____

4) Bailing of Sand, 24 Hours @_____/Hr. = Total $_____

5) Column Pipe, 8V 1000 feet @_____/FT = Total $_____

6) Column Pipe 8Round, 140 feet @_____/FT= Total $_____

7) Check Valves =Lump Sum $_____

8) Reinstallation = Lump Sum $_____

9) Pump Test, 24 Hour = Lump Sum$_____

10) Demobilization and Cleanup = Lump Sum$_____

11) Shooting and Cleaning =Lump Sum $ _____

12) Testing After Development 40 Hours @_____/Hr. = Total $ _____

13) Air Pressurizing 40 Hours @ _____/Hr. = Total $ _____

14) Airlift-Surging 40 Hours @ _____/Hr. = Total $ _____

15) Extra Work Allowance Allowance $15,000.00

16) Well Motor Rehabilitation Allowance $20,000.00

**TOTAL** **$**_____

SUPPLEMENTAL PRICE

Pump Test, Additional Hour $_____/Hr.