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# CONNOR & CONNOR, INC.

Roads & Bridges  
Streets & Storm Sewers  
Sanitary Sewers  
Waste Water Treatment  
Public Water Supplies  
Water Towers  
Funding Solicitation  
Land Surveys  
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## CONSULTING ENGINEERS

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209 North Cross Street  
P.O. Box 618  
Robinson, Illinois 62454

**DATE:** APRIL 14, 2010

**PROJECT:** CITY OF NEWTON, ILLINOIS - WATER TREATMENT PLANT

**RE:** ADDENDUM #1

**\*\*\* RETURN RECEIPT REQUESTED AT END OF DOCUMENT \*\*\***

### APPROVED ALTERNATE EQUIPMENT/MANUFACTURES

GROUND STORAGE TANK - PRE-LOAD, INC.  
BUILDING DOORS - CURRIES  
BUILDING DOORS FINISH HARDWARE - PEMKO / MCKINNEY / SARGENT  
WATER HEATER - A.O. SMITH GPD-40  
WATER MIXING VALVE - LEONARD TM-20-RF  
SHOWER/EYEWASH STATION - ENCON SAFETY PRODUCTS #01050234  
FILTRATION SKID - LAYNE CHRISTENSEN, OR ENGINEER APPROVED EQUAL

### SPECIFICATIONS / PUBLIC WATER SUPPLY WELL ITEM #32 - CONTROL PANEL

SHALL BE ADDED:

The CONTRACTOR shall provide and install a new control panel with each of the two (2) new wells, and each of the three (3) existing wells to be rehabilitated.

The control panels shall be NEMA 4X stainless steel. They shall include a 480V/100A breaker, a NEMA rated motor control starter, control power transformer, convenience outlet, water level display, heater, radio, lightning arrester, and other equipment as necessary to meet the National Electric Code and the SCADA scope.

### SPECIFICATIONS / ELECTRICAL/SCADA/TELEMETRY ITEM #5 - SCOPE OF POWER SUPPLY

SHALL BE ADDED:

A. Water Treatment Plant

In addition to the items shown on the PROJECT PLANS, the CONTRACTOR shall provide and install a 480V/400A, rain-tight breaker/disconnect, to be located between the primary switch gear and the automatic transfer switch.

B. Well Field

1. The OWNER will provide a new service pole and 480V overhead transformer bank at the location of the Generator Connection Point. This point is located at the entrance of the well field

off of Illinois Route #130/#33, just behind the highway right-of-way line. The new service pole will be located within fifty (50) feet of the existing connection point.

On this service pole, the CONTRACTOR shall provide and install a 480V/200A meter loop, service disconnect, and a manual transfer switch. The CONTRACTOR shall also extend the existing 4/0 (in conduit) copper wire from the existing connection point to the proposed transfer switch.

2. Currently, underground 4/0 copper wire extends from the Generator Connection Point to Well #6, and terminates at a manual transfer switch. The power at this point shall be removed from the existing transfer switch, and extended to the new control panel to be installed.
3. Currently, underground 4/0 copper wire in conduit, extends from a junction box at Well #6, and extends to Well #7, and terminates at a manual transfer switch. The power at this point shall be removed from the existing transfer switch, and extended to the new control panel to be installed.
4. The CONTRACTOR shall furnish and install a 50 Amp Breaker and box at Well #7, to allow for the extension of power to Well #8. The CONTRACTOR shall furnish and install #6 Direct Burial, 3-Wire w/Ground from Well #7 to Well #8.
5. The OWNER will provide and install a new service pole and 480V overhead transformer bank at the location of Well #9.

On this service pole, the CONTRACTOR shall provide and install a 480V/200A meter loop, service disconnect equipped with two (2) 50A breakers. The CONTRACTOR shall also extend power from this service pole to the control panels to be installed at Well #5 and Well #9, in the form of #6 AWG Direct Burial, 3-Wire w/Ground.

6. The CONTRACTOR shall provide and install a 10' galvanized 2" mast, and a 120V/100A metal halide light fixture at each well. (Total of 5)

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**SPECIFICATIONS / PUBLIC WATER SUPPLY WELL**  
**PART 21 - WELL PUMPS**

SHALL BE CHANGED:

All well pumps shall be furnished and installed as 480V pumps.  
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**QUESTIONS & ANSWERS:**

The following questions have been presented to the ENGINEER, and the subsequent answers have been given, to the best of our knowledge and belief:

**Q#1 Is the City tax-exempt, and may we have there exemption information?**

A. Yes, the City is tax-exempt, and their information will be made available to the successful bidder.

**Q#2 Is the demolition work shown on Plan Sheet #2 a part of the scope of work for the project?**

A. Yes. The work will be paid for under Line Item #8 of the Bid Schedule.

**Q#3 Are the building roof drains to terminate at splash blocks?**

A. Yes.

**Q#4 Plan Sheet #24 has light pole base details, are any site lights required?**

A. No. This is a typical/standard office detail. The only exterior lights on the project are those on the exterior of the building, and at the proposed water wells.

**Q#5 Are the building trusses to be constructed of salt treated lumber?**

A. No.

**Q#6 Is the open air water storage to be removed, shown on Plan Sheet #2 a pond?**

A. No.

**Q#7 Shall there be a floor drain at the base of the backflow prevention valve on Plan Sheet #16?**

A. Yes.

**Q#8 On LINE C of the plumbing schedule shown on Plan Sheet #16, can you verify the wording?**

A. The manufacture number shall be JUST-SLX2225AGR, and the catalog number shall be JUST-1174KS, and it shall be a stainless steel sink.

**Q#9 Should any of the interior door opening be galvanized?**

A. Only exterior door frames shall be galvanized.

**Q#10 Are any of the door openings to be fire-rated?**

A. Opening #12 is 60 minutes as per door schedule.

**Q#11 Should all of the door frames be 5 3/4" jamb depth?**

A. Jamb depths shall be determined by the CONTRACTOR. Openings are in 4" walls and 8" CMU's.

**Q#12 Should panic devices on doors be cross bar types or rim types?**

A. Panic devices shall be rim type.

**Q#13 Should the filtration system shut down entirely for backwash, or should the system maintain operation in two (2) filters while back-washing?**

A. The system should shut down while back-washing.

**Q#14 Are control joints required for the concrete paving or sidewalk?**

A. Yes. There shall be control joints in the concrete paving spaced every 15 feet maximum, and in the concrete sidewalks spaced every 5 feet maximum. They shall be sawn to a depth equal to one-third the concrete thickness.

**Q#15 Is diamond plate solid steel allowed for the well platforms?**

A. Yes. However, to reduce weight, the access hatch shall remain expanded metal.

**Q#16 The specified well pumps have cast iron, threaded bowls and bronze bearings, as a standard. Is this acceptable?**

A. Yes.

**Q#17 Is National Pump the only approved well manufacture?**

A. Yes.

**Q#18 What are the lintel sizing requirements?**

A. Door openings for #1, #3, #4, #5, #6, #14 and #16, and windows for A and B shall get two (2) - 4" x 3.5" x 5/16" LLV angle lintels.

Door openings #7, #8, #9 and #10 shall get W8x31 lintels.

A minimum of 8" bearings shall be provided on each end. All lintels exposed to the exterior shall be hot-dipped galvanized.

**Q#19 On Plan Sheet #18, in the lower left detail, the filter diameter is noted as 4'-9". All other places indicate the filter diameter to be 72". Is the 72" diameter correct?**

A. Yes.

**Q#20 Is there a control panel or a junction box located on the filtration skid?**

A. Any reference to junction box shall be assumed to mean control panel on the filtration skid related drawings.

**Q#21 Is the filtration skid face piping to be PVC or DIP?**

A. Schedule 80 PVC. This piping is pre-manufactured/installed.

**Q#22 Shall the filter under-drains be stainless steel?**

A. Yes.

**Q#23 Is the rated filter pressure 75 PSI or 125 PSI?**

A. 75 PSI.

**Q#24 Is it possible the mixing valves should be re-evaluated to assure that the meet all applicable codes?**

A. It is possible. At this point, the plumbing shall be bid as shown and specified. Any changes will have to be considered post bid.

Respectfully submitted,

CONNOR & CONNOR, INC.



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Shannon Woodard, Consultant

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**CERTIFICATE OF RECEIPT**

Given the late issuance of this ADDENDUM #1, for the CITY OF NEWTON, WATER TREATMENT PLANT, please acknowledge receipt of this ADDENDUM by FAX (618-544-3012). Simply sign this last page and fax back, without cover.

FIRM: \_\_\_\_\_

PRINTED NAME: \_\_\_\_\_

SIGNATURE: \_\_\_\_\_

DATE: \_\_\_\_\_  
\_\_\_\_\_