

AUTHORIZING THE AWARD OF A CONTRACT TO TRI-R SYSTEMS INC. TO UPGRADE THE SUPERVISORY CONTROL AND DATA ACQUISITION (SCADA) SYSTEM IN AN AMOUNT NOT TO EXCEED \$606,000, WITH STAFF AUTHORITY TO APPROVE CHANGE ORDERS UP TO \$666,600.

WHEREAS, the City of DeKalb (the "City") is a home rule unit of local government and may exercise any power and perform any function pertaining to its government and affairs pursuant to Article VII, Section 6, of the Illinois Constitution of 1970; and

WHEREAS, the City's Public Works Department solicited bids for the upgrading of the City's Supervisory Control and Data Acquisition (SCADA) system that monitors and controls the infrastructure of the City's water treatment facilities and determined that the lowest responsible bidder was Tri-R Systems, Inc. with a bid in the amount of \$606,000 per the bid attached and incorporated Exhibit A (the "Bid"); and

WHEREAS, the City's corporate authorities find that approving the Bid with Staff authority to approve change orders up to \$66,600 is in the City's best interests for the protection of the public health, safety, and welfare; and

NOW, THEREFORE, BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF DEKALB, ILLINOIS:

SECTION 1: The recitals to this resolution are true, material, adopted and incorporated as Section One to this resolution.

SECTION 2: The City's corporate authorities adopt and approve the Bid. The City's corporate authorities further approve, authorize, and direct the City Manager to: (1) negotiate and execute an agreement with Tri-R Systems, Inc. for the Bid in an amount not to exceed \$606,000; (2) approve change orders related to the Bid up to \$66,000; and (3) take all necessary acts to effectuate the award of the Bid to Tri-R Systems, Inc.

SECTION 3: This resolution shall be the effective legislative act of a home rule municipality without regard to whether such resolution should (a) contain terms contrary to the provision of current or subsequent non-preemptive state law, or (b) legislate in a manner or regarding a matter not delegated to municipalities by state law. It is the intent of the City's corporate authorities that if this resolution is inconsistent with non-preemptive state law, this resolution shall supersede that state law in its jurisdiction.

SECTION 4: This resolution shall be in full force and effect from and after its passage and approval as provided by law.

PASSED BY THE CITY COUNCIL of the City of DeKalb, Illinois, at a Regular meeting thereof held on the 9th day of June 2025 and approved by me as Mayor on the same day. Passed by a 6-0-2 roll call vote. Aye: Zasada, Larson, Carlson, Verbic, Walker, Barnes. Nay: None. Absent: Smith, Powell.



A handwritten signature in black ink, appearing to read "Cohen Barnes", is written over a horizontal line.

COHEN BARNES, Mayor

ATTEST:

A handwritten signature in black ink, appearing to read "Ruth A. Scott", is written over a horizontal line.

Ruth A. Scott, Executive Assistant

AGREEMENT BETWEEN OWNER AND CONTRACTOR

This agreement is hereby made and entered into this 13 day of June, 2025, by and between City of DeKalb, hereafter called Owner, and TRI-R Systems Incorporated, hereafter called Contractor.

The said parties, for the considerations hereinafter mentioned, hereby agree to the following:

1. The Contractor agrees to provide all of the material and labor required to perform the following work for:

Water System PLC Upgrade per attached quotation.

2. The Owner hereby agrees to pay the Contractor, for the aforesaid materials and labor, the sum of \$ 606,000.00, in the following manner:

Per attached schedule of values with monthly pay requests

3. The Contractor agrees that the various portions of the above-described work shall be completed on or before the following dates:

547 to 730 days

and the entire above-described work shall be completed no later than the 13 day of June, 2027.

4. The Contractor agrees to provide and pay for all materials, tools and equipment required for the prosecution and timely completion of the work. Unless otherwise specified, all materials shall be new and of good quality.

5. In the prosecution of the work, the Contractor shall employ a sufficient number of workers skilled in their trades to suitably perform the work.

6. All changes and deviations in the work ordered by the Owner must be in writing, the contract sum being increased or decreased accordingly by the Contractor. Any claims for increases in the cost of the work must be presented by the Contractor to the Owner in writing,

and written approval of the Owner shall be obtained by the Contractor before proceeding with the ordered change or revision.

7. The Owner, Owner's representative and public authorities shall at all times have access to the work.

8. The Contractor agrees to re-execute any work which does not conform to the drawings and specifications, warrants the work performed, and agrees to remedy any defects resulting from faulty materials or workmanship which shall become evident during a period of one year after completion of the work.

9. The Contractor agrees to maintain full insurance on the above-described work during the progress of the work, in his own name and that of the Owner.

10. In the event the Contractor is delayed in the prosecution of the work by acts of God, fire, flood or any other unavoidable casualties; or by labor strikes, late delivery of materials; or by neglect of the Owner; the time for completion of the work shall be extended for the same period as the delay occasioned by any of the aforementioned causes.

11. In the event the work is delayed due to neglect of the Contractor, the Contractor agrees to pay the Owner the sum of \$250.00 per day as liquidated damages until such time as the work is completed.

12. The Contractor agrees to obtain insurance to protect himself against claims for property damage, bodily injury or death due to his performance of this agreement.

13. Neither the Owner nor Contractor shall have the right to assign any rights or interest occurring under this agreement without the written consent of the other, nor shall the Contractor assign any sums due, or to become due, to him under the provisions of this agreement.

14. This agreement shall be interpreted under laws of the State of Illinois.

15. Attorney's fees and court costs shall be paid by the defendant in the event that judgment must be, and is, obtained to enforce this agreement or any breach thereof.

IN WITNESS WHEREOF, the parties hereto have caused this instrument to be executed the day and year first above written.

TRI-R Systems Incorporated
Contractor

City of DeKalb, IL
Owner

By: Yusoff C. Smith

By: [Signature]

Dated: 6-13-25

Dated: 6/13/25

Corporate Seal:

Corporate Seal:



1804 E. LINCOLN HWY. DEKALB, IL 60115
PHONE (815) 787-0830 FAX (815) 787-0930

March 10, 2025

City of DeKalb – Water System SCADA Upgrade and Services

General Software & Computers

- VM SCADA Engineering OS provided on Host Machine by DeKalb IT.
- VM Remote Access OS provided on Host Machine by DeKalb IT.
- VM Historian OS provided on Host Machine by DeKalb IT.
- Furnish and install Rockwell FactoryTalk View SE software on VM SCADA Engineering OS.
- Furnish and install Rockwell FactoryTalk SE enterprise development software on VM SCADA Engineering OS.
- Furnish and install Rockwell FactoryTalk SE Client 10 Pak for deployment to computers VM SCADA Engineering OS.
- Furnish and install Rockwell Historian IK tag count on VM Historian OS
- Furnish and Install Win911 Autodialer Software on VM SCADA Engineering OS.
- Develop Rockwell FactoryTalk HMI screens with input from City of DeKalb personnel.
- Provide updated network communications drawing.
- Provide updated I/O spreadsheet per PLC cabinet.
- Provide startup & training.

Master Station (Public Works PLC Panel)

- Furnish and install Allen Bradley CompactLogix PLC 5069-L306ER Processor with I/O.
- Furnish and install Calamp Viper fixed frequency radio to existing antenna and cabling.
- Furnish and Install SensaPhone Cellular Autodialer for backup notification upon computer software failure.
- Provide PLC database migration from Allen Bradley SLC500 to Allen Bradley CompactLogix programming.
- Provide electrical installation as necessary.
- Provide startup & training.

Tower No. 1 (PLC Panel)

- Furnish and install Allen Bradley CompactLogix PLC 5069-L306ER Processor with I/O.
- Furnish and install Calamp Viper fixed frequency radio to existing antenna and cabling. (Radio to Master Station)

- Provide PLC database migration from Allen Bradley SLC500 to Allen Bradley CompactLogix programming.
- Provide electrical installation as necessary.
- Provide startup & training.

Lincoln Highway Water Treatment Plant

Main Control Panel (Filter PLC)

- Furnish and install Allen Bradley CompactLogix PLC 5069-L320ER Processor with I/O, Advantech 21" Computer Touchscreen.
- Furnish and install Freewave Spread Spectrum unlicensed radio to existing antenna and cabling. (Radio to Well 15)
- Provide PLC database migration from Allen Bradley SLC500 to Allen Bradley CompactLogix programming.
- Provide electrical installation as necessary.
- Provide startup & training.

Well No. 10 & Tower No. 2 (PLC Panel)

- Furnish and install Allen Bradley CompactLogix PLC 5069-L306ER Processor with I/O.
- Provide PLC database migration from Allen Bradley SLC500 to Allen Bradley CompactLogix programming.
- Provide electrical installation as necessary.
- Provide startup & training.

Well No. 15 (PLC Panel)

- Furnish and install Allen Bradley CompactLogix PLC 5069-L306ER Processor with I/O.
- Furnish and install Freewave Spread Spectrum unlicensed radio to existing antenna and cabling. (Radio to Lincoln Highway WTP)
- Provide PLC database migration from Allen Bradley SLC500 to Allen Bradley CompactLogix programming.
- Provide electrical installation as necessary.
- Provide startup & training.

Corporate Water Treatment Plant

Main Control Panel (Filter PLC)

- Furnish and install Allen Bradley CompactLogix PLC 5069-L320ER Processor with I/O, Advantech 21" Computer Touchscreen.
- Provide PLC database migration from Allen Bradley SLC500 to Allen Bradley CompactLogix programming.
- Provide electrical installation as necessary.
- Provide startup & training.

Well No. 13 & Tower No. 3 (PLC Panel)

- Furnish and install Allen Bradley CompactLogix PLC 5069-L306ER Processor with I/O.
- Provide PLC database migration from Allen Bradley SLC500 to Allen Bradley CompactLogix programming.

- Provide electrical installation as necessary.
- Provide startup & training.

Well No. 12 (PLC Panel)

- Furnish and install Allen Bradley CompactLogix PLC 5069-L306ER Processor with I/O.
- Furnish and install Calamp Viper fixed frequency radio to existing antenna and cabling. (Radio to Master Station)
- Provide PLC database migration from Allen Bradley SLC500 to Allen Bradley CompactLogix programming.
- Provide electrical installation as necessary.
- Provide startup & training.

Dresser Water Treatment Plant

Main Control Panel (Filter PLC)

- Furnish and install Allen Bradley CompactLogix PLC 5069-L320ER Processor with I/O, Advantech 21" Computer Touchscreen.
- Furnish and install Freewave Spread Spectrum unlicensed radio to existing antenna and cabling. (Radio to Well 16 & 17)
- Provide PLC database migration from Allen Bradley SLC500 to Allen Bradley CompactLogix programming.
- Provide electrical installation as necessary.
- Provide startup & training.

Well No. 14 & Tower 4 (PLC Panel)

- Furnish and install Allen Bradley CompactLogix PLC 5069-L306ER Processor with I/O.
- Provide PLC database migration from Allen Bradley SLC500 to Allen Bradley CompactLogix programming.
- Provide electrical installation as necessary.
- Provide startup & training.

Well No. 16 & 17 (PLC Panel)

- Furnish and install Allen Bradley CompactLogix PLC 5069-L306ER Processor with I/O.
- Furnish and install Freewave Spread Spectrum unlicensed radio to existing antenna and cabling. (Radio to Dresser WTP)
- Provide PLC database migration from Allen Bradley SLC500 to Allen Bradley CompactLogix programming.
- Provide electrical installation as necessary.
- Provide startup & training.

Seventh St. Water Treatment Plant

Main Control Panel (Filter PLC)

- Furnish and install Allen Bradley CompactLogix PLC 5069-L320ER Processor with I/O, Advantech 21" Computer Touchscreen.

- Provide PLC database migration from Allen Bradley SLC500 to Allen Bradley CompactLogix programming.
- Provide electrical installation as necessary.
- Provide startup & training.

Well No. 7 (PLC Panel)

- Furnish and install Allen Bradley CompactLogix PLC 5069-L306ER Processor with I/O.
- Provide PLC database migration from Allen Bradley SLC500 to Allen Bradley CompactLogix programming.
- Provide electrical installation as necessary.
- Provide startup & training.

County Farm Water Treatment Plant

Main Control Panel (Filter PLC)

- Furnish and install Allen Bradley CompactLogix PLC 5069-L320ER Processor with I/O, Advantech 21" Computer Touchscreen.
- Provide PLC database migration from Allen Bradley SLC500 to Allen Bradley CompactLogix programming.
- Provide electrical installation as necessary.
- Provide startup & training.

Well No. 11 (PLC Panel)

- Furnish and install Allen Bradley CompactLogix PLC 5069-L306ER Processor with I/O.
- Provide PLC database migration from Allen Bradley SLC500 to Allen Bradley CompactLogix programming.
- Provide electrical installation as necessary.
- Provide startup & training.

Total Project Cost

Price: (\$560,000.00) Dollars

Option No. 1

Well and Tower Color Touchscreens

- Furnish and install (9) Automation Direct 7" Color Touchscreens.
- Provide programming for local display of well and tower signals.
- Provide electrical installation as necessary.
- Provide startup & training.

Add Price: (\$25,000.00) Dollars

Option No. 2

Recommended Spare Parts

- 5069-L320ER Processor
- 5069-L306ER Processor
- 5069-IA16 120 VAC Digital Input Card
- 5069-OW4I 4 Point Digital Output Card
- 5069-IF8 8 Point Analog Input Card
- 5069-OF4 4 Point Analog Output Card
- 5069-FPD Field Potential Distributer Card
- 5069-AENTR Ethernet Module
- 5069-Serial Communication Card
- 24 VDC Power Supply
- Cal Amp Viper Radio
- Freewave Radio

Add Price: (\$21,000.00) Dollars