

**RESOLUTION 21-85**

**A RESOLUTION TO AWARD THE CONTRACT TO SOUTHERN FLOW FOR UPGRADES FOR THE CITY'S SCADA SYSTEMS**

**WHEREAS**, the City of Spring Hill's Water Treatment Plant and Wastewater Treatment Plant utilize Supervisory Control and Data Acquisition ("SCADA") systems to maintain efficient operating systems; and

**WHEREAS**, currently the two plants use different integrators and desire to have a single integrator for both SCADA systems; and

**WHEREAS**, each existing system is outdated and needs to be upgraded; and

**WHEREAS**, a Request for Proposals was advertised with one proposal received from Southern Flow for a total cost of \$473,872.00, as detailed below; and

Water Treatment Plant and Water Distribution SCADA system upgrades - \$291,737.00  
Wastewater Treatment Plant and Sewer Collection SCADA system upgrades - \$182,135.00

**WHEREAS**, the system upgrades will be funded from the Water and Sewer fund and are budgeted in the FY 2021-2022 budget; and

**WHEREAS**, City staff recommends awarding the contract to Southern Flow for the upgrades to the City's SCADA systems for the Water Treatment Plant and the Wastewater Treatment Plant in the amount of \$473,872.00.

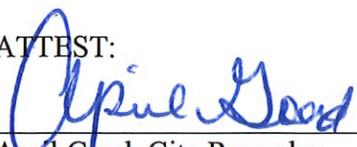
**NOW, THEREFORE BE IT RESOLVED**, the City of Spring Hill Board of Mayor and Aldermen:

1. Award the contract for the upgrades to the City's SCADA systems to Southern Flow at a total bid cost of \$473,872.00.
2. Authorize the Mayor to sign the contract, attached herein.

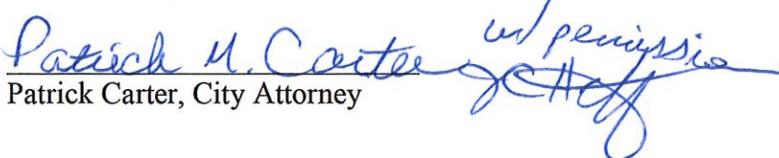
**Passed and Adopted by the Board of Mayor and Aldermen of the City of Spring Hill, Tennessee on the 21<sup>st</sup> day of June, 2021.**

  
Jim Hagaman, Mayor

ATTEST:

  
April Goad, City Recorder

LEGAL FORM APPROVED:

  
Patrick Carter, City Attorney



**REQUEST:** *Approval of Resolution 21-85*  
**SUBMITTED BY:** Jeremy Vanderford, Water Treatment Plant Superintendent  
**DATE:** June 7, 2021  
**RE:** To award the contract to Southern Flow for the upgrades to the City's SCADA systems and to authorize the Mayor to execute the contract  
**ATTACHMENTS:** Contract

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**PURPOSE:**

The purpose of this resolution is to award the contract to Southern Flow for the upgrades to the City's SCADA systems and to authorize the Mayor to execute the contract.

**BACKGROUND:**

The City of Spring Hill Water Treatment Plant and Wastewater Treatment Plant utilize SCADA systems to monitor components of the plants to ensure each plant runs efficiently. Currently each plant is served by different integrators: the WTP is served by Southern Flow and the WWTP is served by MR Systems. The City desires to have one integrator serve both plants. Additionally, the two systems are outdated and require upgrades.

A Request for Proposals was advertised. One bid was received from Southern Flow for a total cost of \$473,872.00. The systems upgrade cost for the WTP is \$291,737.00 of the total cost. The systems upgrade cost for the WWTP is \$182,135.00 of the total cost.

**FINANCIAL IMPACT:**

The project will be funded through the Water and Sewer Fund. In FY 2020-2021, the WTP had budgeted \$226,000.00 (410-52110-949) and the WWTP had budgeted \$126,613.00 (410-52200-949) for this upgrade, for a total budgeted amount of \$352,613.00. This amount will be carried forward to the FY 2021-2022 and the additional funding of \$121,259.00 requested be added when the final FY 2021-2022 budget is approved.

**STAFF RECOMMENDATION:**

Staff recommends approval of Resolution 21-85 to award the contract to Southern Flow and to authorize the Mayor to sign the contract for the upgrades to the City's SCADA systems at a total cost of \$473,872.00.



## LEGAL NOTICE

### INVITATION TO SUBMIT PROPOSALS

The City of Spring Hill will accept quotations for the Supervisory Control and Data Acquisition (SCADA) system upgrades for the Water Treatment Plant, Water Distribution System, Wastewater Treatment Plant, and Sewer Collection System. Bidders shall submit sealed quotations in the format specified in the Invitation to Submit Quotations no later than **2:30 p.m. (CST), Friday, May 7, 2021** at which time bids will be publicly opened and read aloud. No bid may be withdrawn after the scheduled closing time for a period of 90 days. Bidding documents may be obtained at Spring Hill City Hall during regular business hours or [www.springhilltn.org](http://www.springhilltn.org). Quotations should be mailed, or hand delivered to:

April Goad, City Recorder  
City of Spring Hill

**Sealed Bid and Proposal: SCADA SYSTEM UPGRADES/May 7, 2021 @ 2:30 p.m.**

199 Town Center Parkway *(for hand delivery or courier services)*

P.O. Box 789 *(for regular mailing services)*

Spring Hill, TN 37174

The City of Spring Hill will not discriminate in the purchase, of all goods and services, on a basis of race, color, religion, sex, national origin, age, disability, or any other lawfully protected classification.

Verbal quotations and quotations received after the closing date and time will not be accepted. The City of Spring Hill reserves the right to reject any or all bids, waive technicalities or informalities, and to accept any bid deemed to be in the best interest of the City.

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- Exhibit 2 – Wastewater Treatment Plant and Sewer Collection System Map

**SECTION I - GENERAL INFORMATION**

A. The City of Spring Hill desires to contract with a single SCADA System Integrator to provide upgrades to the following SCADA Systems:

1. The Water Treatment Plant (WTP) SCADA System, which includes the Water Distribution System (WDS) components. The WTP is currently served by Southern Flow SCADA System.
2. The Wastewater Treatment Plant (WWTP) SCADA System, which includes the Sewer Collection System (SCS) components. The WWTP is currently served by MR Systems SCADA System.

Currently, the two SCADA systems, have different integrators and it is the desire of the City to have a single integrator for both SCADA Systems. The City will accept proposals to update both systems such that the WTP and WDS components (raw water intake, water storage tanks, and water booster stations) operate as one independent system while the WWTP and SCS components (WWTP main sewer lift station and city-wide sewer lift stations) operate as an independent system.

The below Spring Hill staff are the contacts for this Request for Proposals (RFP):

Attn: April Goad, 931/486-2252 ext. 206  
Spring Hill City Hall  
199 Town Center Parkway  
P.O. Box 789  
Spring Hill, TN 37174

Project Contact:  
Jeremy Vanderford, 931-489-5791  
Water Treatment Plant  
4151 Kedron Road  
Spring Hill, TN 37174

Proposals are to be submitted to April Goad. Questions concerning the project are to be directed to Jeremy Vanderford via E-mail transmittal at [jvanderford@springhilltn.org](mailto:jvanderford@springhilltn.org). All questions must be in writing, verbal questions will not be formally recognized. Questions and clarifications will be reviewed and answered via an addendum which will be published on the City's website prior to bid date.

- B. The City of Spring Hill reserves the right to reject any, and all bids, to waive technicalities or informalities and to accept any bid deemed to be in the best interest of the City. Bids may not be withdrawn after scheduled closing time for a 90-day period.
- C. The integrator shall have staff assigned to this project along with programmers, that are VTScada Advanced Certified, Siemens TIA Portal Certified, and Rockwell RSLogix 5000 Certified, proof of such certification will be required. The integrator shall abide by and comply with the true intent of the specifications and not take advantage of any unintentional error or omission but shall fully address the full intent and meaning of each aspect of the specifications.
- D. The project will be awarded to the Systems Integrator based upon the following review criteria:
  1. Technical Merits 25 Points
  2. Previous Experience with Spring Hill 25 Points
  3. Delivery and Installation Schedule 25 Points
  4. Proposed Pricing 25 Points

- E. All forms shall be completed and included as an integral part of each proposal.
- F. Freight shall be paid by vendor and should be included in proposal.
- G. The City is a tax-exempt organization.
- H. Mail is delivered after 4:00 p.m. Monday through Friday.

## **SECTION II – PROPOSAL REQUIREMENTS**

**A. WATER TREATMENT PLANT and WATER DISTRIBUTION SYSTEM** proposal shall replace the existing Control Microsystems SCADA telemetry system, reuse the existing VTScada 2D graphics User Interface and shall be based on the below listed scope and components.

**SCOPE:** The Water Treatment Plant proposal shall include furnishing sub-panels, install 2D VTScada software on new computers, and devices itemized below. Integrator is to furnish the required system engineering, design, components, systems PLC/HMI SCADA programming and configuration, submittals, calibration, testing, start-up, training, support services, and documentation for the SCADA System. To minimize cost, the SCADA supplier will use existing antenna, antenna masts, and coaxial cable.

### **WTP Terminations**

The proposal shall be a turn-key installation and shall include removal/disposal of existing sub-panels/associated hardware, all mounting of new hardware, installation, or ancillary materials, and/or labor to mount or terminate the quoted devices.

### **WTP Field Retrofit Implementation**

The intent of the field retrofit implementation is to install, terminate, test and start-up SCADA computers and all eleven PLC locations within three weeks.

### **WTP Supervisory Computer Control System**

The existing HMI computer hardware and software for the WTP shall be replaced. The existing desktop servers shall be replaced with redundantly configured Dell servers and 5000 tag count VTScada dual server premium software installed and configured as required. The new HMI software shall be configured to match functionally the existing HMI system including the preconfigured graphic screens. The server computers shall be Dell Precision towers configured with dual Intel Xeon 4210 processors, 32GB RAM, and RAID 5 configured (4) 1TB HDD drives.

Three tower-based computers (Server #1, Server #2, and Archive) shall be furnished complete with 24" monitors, Ethernet switch, Toshiba security lock and key, two laser printers, UPS, and all necessary ancillary cables and software necessary to provide a fully functioning HMI based Supervisory Control and Data Acquisition system.

### **WTP Main Master Control Panel**

The existing SCADA Pack programmable logic controllers and ancillary devices within this panel shall be replaced with a new PLC's and ancillary devices from Rockwell Automation, Siemens, or approved equal. Due to the importance of the WTP main control panel, it will be necessary for the control system furnished herein to be fault tolerant and to provide for redundant processors with fail-over synchronization in less than 100 milliseconds. Acceptable PLC systems shall be Rockwell

ControLogix, Siemens S7-1500R/H, or approved equal. Touchscreens shall be 12" Rockwell Panelview Plus 7, Siemens KTP1200, or approved equal. Telemetry radios shall be provisioned to operate on the City's licensed VHF frequency and furnished by CalAmp, Cambium, or MDS. Ancillary devices such as power supplies, network interfaces, terminal blocks, and surge protection shall be furnished by Rockwell Automation, Siemens, or Phoenix Contact. The WTP main control panel shall be provisioned to include a minimum of (80) discrete inputs, (28) relay outputs, (48) analog 4-20mA inputs, (16) analog 4-20mA outputs, and (4) RTD inputs.

The integrator is specifically responsible to replicate all existing WTP monitoring, networking, and control strategies. The integrator shall be responsible for all programming and configuration necessary to remove existing and place into operation a new fully functional master control panel complete with radio polling master utilizing the City's existing VHF frequency.

#### **Water System Remote Terminal Units**

The City's existing water system RTU's shall be upgraded by sub-panel replacement mounted in existing enclosures. The sub-panels shall be furnished complete with new PLC's and ancillary devices from Rockwell Automation, Siemens, or approved equal. Acceptable PLC systems shall be Rockwell MicroLogix 1400, Siemens S7-1200, or approved equal. Touchscreens shall be 7" Rockwell Panelview Plus 7, Siemens KTP700, or approved equal. Telemetry radios shall be provisioned to operate on the City's licensed VHF frequency and furnished by CalAmp, Cambium, or MDS. Ancillary devices such as power supplies, network interfaces, terminal blocks, and surge protection shall be furnished by Rockwell Automation, Siemens, or Phoenix Contact. Water system remote terminal units shall be provisioned to include a minimum of (14) discrete inputs, (10) relay outputs, (10) analog 4-20mA inputs, and (2) analog 4-20mA outputs.

The integrator is specifically responsible to replicate the existing monitoring and control strategies at each site and shall be responsible for all programming and configuration necessary to remove existing and place into operation a new fully functional radio base RTU utilizing the City's existing VHF frequency. The following sites shall be replaced as follows:

- A. Raw Water Pump Station
- B. Carbon Feed Building
- C. Hardin's Landing Tank
- D. Buckner Road Tank
- E. Northside Tank
- F. City Hall Tank and Booster Pump Station
- G. Southside/Stonegate Tank and Booster Pump Station
- H. Duplex Road Booster Pump Station
- I. Hwy 31 Booster Pump Station
- J. Miles Johnson Booster Pump Station

It should be noted, a future booster pump station and master meter (Main Street) has been designed and will be constructed within the near future, see Exhibit 1 for location. This proposal shall take into consideration this future addition to the SCADA System as to allow a seamless addition without replacing equipment installed by this proposal.

The listed quantities are estimates only of work and shall be confirmed by the integrator during scheduled site visits. Site visits for the WTP and WDS portion of the SCADA Upgrades shall be scheduled with Jeremy Vanderford at 931/489-5791, email [jvanderford@springhilltn.org](mailto:jvanderford@springhilltn.org), during the time of 8:00 am – 11:00 am and 1:00 pm – 3:00 pm, M-F for the one-week period of April 19<sup>th</sup> through April 23<sup>th</sup>. All site visits must be scheduled and approved by Jeremy Vanderford prior to site visits.

**B. WASTEWATER TREATMENT PLANT and SEWER COLLECTION SYSTEM** proposal shall include new computers, software, and graphics. The Wastewater Treatment Plant proposal shall be based on the below listed scope and components.

**SCOPE:** The WWTP SCADA replacement shall consist of new SCADA computers, VTScada software, and 3-D graphics. The WWTP's existing in-plant PLC network and Remote Telemetry Units will be reused and integrated into the new SCADA System. The Wastewater Treatment Plant proposal consists of replacing the existing Wonderware SCADA System with VTScada.

#### **WWTP Supervisory Computer Control System**

- [1] Lot of Computer Equipment – (2) Workstation Servers, Ethernet Switches, (2) Laser Printers, Remote Access, HDMI Cables.
- [1] Lot of VTScada 5K Dual Server Premium Tag I/O License and Programming with 3D graphics
- [1] Tosibox Security Lock and Key
- [1] Data Archiving
- [2] APC UPS
- [2] XL Reporter
- [1] Lot of PLC Configuration and Programming
- [1] Each Lift Station RTU will have a NEMA 12 Enclosure, PLC, UPS, Relays, Data Telemetry Radio/modem, Intrusion Alarm Monitoring, Condensation Heater, and necessary electrical hardware. Current equipment should be utilized where possible however the above features are required at all lift stations listed below to allow monitoring, reporting to the WWTP, and local control at the lift station site.

The existing HMI computer hardware and software for the Wastewater plant shall be replaced. The existing data rack shall be retained, but the server contained therein shall be replaced with redundantly configured Dell servers and 5000 tag count VTScada dual server premium software installed and configured as required. The new HMI software shall be configured to match functionally the existing Wonderware system including the preconfigured 3D graphic screens. The server computers shall be rack mounted Dell Precision servers configured with dual Intel Xeon 4210 processors, 32GB RAM, and RAID 5 configured (4) 1TB HDD drives.

The existing wastewater plant PLC control panels shall remain as is without modification. The City's existing wastewater system RTU's shall be upgraded by sub-panel replacement mounted in existing enclosures. The sub-panels shall be furnished complete with new PLC's and ancillary devices from Rockwell Automation, Siemens, or approved equal. Acceptable PLC systems shall be Rockwell MicroLogix 1400, Siemens S7-1200, or approved equal. Sewage Lift Station RTU sites do not require a local touchscreen interface panel. Telemetry radios shall be Sierra Wireless RV50 cellular data modems provisioned to operate on the City of Spring Hill's existing cellular data plan. Ancillary devices such as power supplies, network interfaces, terminal blocks, and surge protection shall be furnished by Rockwell Automation, Siemens, or Phoenix Contact. Water system remote terminal units shall be provisioned to include a minimum of (14) discrete inputs, (10) relay outputs, (10) analog 4-20mA inputs, and (2) analog 4-20mA outputs.

The integrator is specifically responsible to replicate the existing monitoring and control strategies at each site and shall be responsible for all programming and configuration necessary to remove existing and place into operation a new fully functional cellular based RTU utilizing the City's existing data plan. The following sites shall be furnished as follows:

## Sewer Collection System Lift Stations

1. Main Lift Station – monitored and reports to the WWTP

Last Revision: May 2012

Address: 3893 Mahlon Moore Road

Electrical Service: Duck River Electrical Membership Cooperative

Pump Manufacturer: (4) Flygt Submersible Pump Model # NP3301.185

Pump Size: 85 HP, 3 phase, 460 Volt, each pump rated at 4,600 gpm at 50' TDH

Controls: Square D VFD's w/pressure transducer level sensors and mercury float switch backup

Wetwell: (2) each at 13' 8" x 13' 8" X 31.33' deep; capacity 29,353.59 gal each X 2 = 58,706 gal.

Force Main: 20" diameter, length 840'

Telemetry: Yes; MR Systems; monitor and control locally

2. Pickett's Ridge - monitored and reports to the WWTP.

Installed: April 2003

Address: 2763B Sutherland Dr.

Electrical Service: Middle TN Electric

Pump Manufacturer: Smith/Loveless Duplex Station Model # 4B2D

Pump Size: 15 HP, 3-phase, 460 Volt, 80 GPM @70' TDH

GPS Coordinates: LAT 35.785352; LON -86.893947

Wetwell: Diameter 6', depth 21', capacity 4,439 gals

Force Main: 6" diameter, length 2,650'

Telemetry: Yes; MR Systems; monitor only

3. Golfview – monitored and reports to the WWTP.

Installed: November 2008

Address: 1108 Golfview Way

Electrical Service: Duck River Electrical Membership Cooperative

Pump Manufacturer: Gorman/Rupp Duplex Station Model # T3A3S-B;

Pump Size: 10 HP; 3 phase 460 volt; 80 gpm @ 47' TDH

GPS Coordinates: LAT 35.703837, LON -86.914421

Wetwell: Diameter 5', depth 20', capacity 2,936 gals

Force Main: 4" diameter, length 1,369'

Telemetry: Yes; MR Systems; monitor only

4. Southern Springs Phase 3 – monitored and reports to the WWTP.

Installed: January 2018

Address: 209 Southern Springs Pkwy

Electrical Service: Duck River Electrical Membership Cooperative

Pump Manufacturer: Gorman/Rupp Duplex Station Model # V3B60-B

Pump Size: 15 HP; 3 phase 460 volt; 275 GPM @ 52' TDH

GPS Coordinates: LAT 35.722368 LON -86.935172

Wetwell: Diameter 6', depth 22', capacity 4,650 gals

Force Main: 6" diameter, length 2,385'

Telemetry: Yes; MR Systems; monitor only

5. Southern Springs Phase 5 – monitored and reports to the WWTP.

Installed: January 2020

Address: 1639 Granger Springs

Electrical Service: Columbia Power and Water System

Pump Manufacturer: Gorman/Rupp Duplex station Model # V3B60-B

Pump Size: 15HP; 3 phase 460 volt; 120 GPM @ 41' TDH

GPS Coordinates: LAT 35.731023 LON -86.943480

Wetwell: Diameter 6', depth 21', capacity 4,439 gals

Force Main: 4" diameter, length 1,076'

Telemetry: Yes; MR Systems; monitor only

6. Cleburne Road – monitored and reports to the WWTP.

Installed: November 2007

Address: Cleburne Road at Petty Lane

Electrical Service: Columbia Power and Water System

Pump Manufacturer: Gorman Rupp Duplex Station Model # VS6A60- B

Pump Size: 100 HP; 3 Phase; 460 Volt; 685 GPM @ 220' TDH

GPS Coordinates: LAT 35.727446 LON -86.988139

Wetwell: Diameter 12', depth 21', capacity 17,756 gals

Force Main: 10" diameter, length 12,020'

Telemetry: Yes; MR Systems; monitor only

7. Newport Crossing – sub-panel required and move from WTP HMI to WWTP HMI.

Installed: October 2002

Address: 2705 Buckner Road

Electrical Service: Middle TN Electric

Pump Manufacturer: Smith & Loveless Duplex Station Model # 4D3B

Pump Size: 40 HP; 3 Phase; 460 Volt; 80 GPM @ 136' TDH

GPS Coordinates: LAT 35.781319 LON -86.890254

Wetwell: Diameter 6', depth 11', capacity 2,325 gals

Force Main: 4" diameter, length 20', ties into 10" force main with length of 3,210'

Telemetry: Yes; Southern Flow; monitor only

8. Beechcroft Road at Dr Robertson Road – currently no telemetry or monitoring, will require enclosure, monitoring, and reporting to the WWTP.

Installed: December 2006

Address: 851 Beechcroft Road

Electrical Service: Columbia Power and Water Service

Pump Manufacturer: Gorman Rupp Duplex Station Model # V3A60-B

Pump Size: 40 HP; 3 Phase; 460 Volt; 360 GPM @ 140' TDH

GPS Coordinates: LAT 35.752793 LON -86.975307

Wetwell: Diameter 8', depth 19', capacity 7,140 gals

Force Main: 8" diameter, length 2100'

Telemetry – Not currently

9. Roylton Woods – currently no telemetry or monitoring, will require enclosure, monitoring, and reporting to the WWTP.

Installed: November 2006

Address: 937 Beverly Court

Electrical Service: Duck River Electric Membership Cooperative

Pump Manufacturer: Gorman Rupp Duplex Station Model # T4A3S-B

Pump Size: 15 HP; 3 Phase; 460 Volt; 280 GPM @ 65' TDH

GPS Coordinates: LAT 35.707579 LON -86.895658

Wetwell: Diameter 7', depth 18', capacity 5,179 gals

Force Main: 6" diameter, length 1,700'

Telemetry – Not currently

**Start-up, Submittals, Training & 1-YR Maintenance Contract**

[1] Lot of Process System Control Start-up, Submittals, Training, and 1-YR Maintenance Contract

[1] Factory Acceptance Test for all equipment installations

[1] 1-Year Warranty for all equipment and workmanship

Site visits for the WWTP and SCS portion of proposed SCADA Upgrades shall be scheduled through Travis Massey (WWTP Manager); 931/384-0631, [tmassey@springhilltn.org](mailto:tmassey@springhilltn.org) during the time of 8:00 am – 11:00 am and 1:00 pm – 3:00 pm, M-F for the one-week period of April 12<sup>th</sup> through April 16<sup>th</sup>. All site visits must be scheduled and approved by Travis Massey prior to site visits.

The lump sum prices quoted for,

**A. Water Treatment Plant with Water Distribution System SCADA Upgrades; and**

**B. Wastewater Treatment Plant with Sewer Collection System SCADA Upgrades**

shall include a complete and operable project. Materials along with installation and operations coordination schedules shall be submitted to the City's CEI consultant (Dempsey, Dilling & Associates, an affiliate of, Thomas and Hutton (Jerome D. Dempsey, P.E. 615/220-5800) for review and approval prior to commencement of installations. The submitted proposal shall include any/and all preparation work required for installation of the SCADA Systems' Upgrades to ensure proper product warranties and a complete operable project.

All proposals shall be valid for a 90-day period from the submittal date. The City has the right to reject any/and all proposals or to waive all technicalities.

**ERROR IN PROPOSAL** - in case of error in the extension of prices in the proposal, the unit price will govern. No proposal shall be altered, amended, or withdrawn after specified time for opening of proposals. Negligence on the part of the proposer in preparing confers no right for the withdrawal of the proposal after it has been opened.

**INSPECTION** – The owner's CEI consultant and engineer will be performing onsite inspections to ensure the project is being performed in accordance with the intent of the project description. Materials will be identified for acceptance or rejection at the delivery destination based on previously approved shop drawings. Material and workmanship shall be subject to inspections and testing at all times during construction. The right is reserved to reject finished work which contain defective material and/or

workmanship. Rejected work shall be removed by and at the expense of the contractor promptly after notification of rejection and shall be reinstalled according to acceptable product specifications. Final inspection and acceptance or rejection of the materials shall be made as promptly as practicable but impose no liability on the City of Spring Hill or their consultant or any subdivision thereof for such materials as are not in accordance with the specifications. Final inspection or acceptance does not relieve the contractor from liability for use of materials or construction standards in accordance with these specifications, or industry practices.

SPECIFICATIONS - it is understood that reference to available specifications shall be sufficient to make the terms of such specifications binding on the contractor. Quantities have been provided as an estimate only. The Contractor is to confirm the required components and quantities during his site visit prior to his proposal submittal. The integrator shall be responsible for providing a comprehensive and complete system with the latest compatible equipment. An open architecture format of equipment shall be installed. No proprietary equipment, programming or closed architecture is allowed.

INSURANCE REQUIREMENTS - the contractor shall procure and maintain for the duration of the contract, at his/her own cost and expense, insurance against claims for injuries to persons or damages to property including contractual liability that may arise in connection with the performance of the work by the contractor, his agents, representatives, employees, or subcontractors under this agreement. The insurance carrier(s) must be licensed to conduct business in the State of Tennessee. The insurance will be evidenced by certificates of insurance. The certificate shall include wording that states the City of Spring Hill will be notified thirty days prior to cancellation of the coverage or a major change in the coverage provided. The contractor will either verify the listed coverage(s) for all subcontractors hired by the SCADA Integrator to assist with the project, or the SCADA Integrator will assume total financial responsibility for uninsured claims of the subcontractor. The City shall be held harmless for any injuries, claims or judgments against the subcontractor. Certificates for liability coverages shall name the City of Spring Hill, TN as an "additional insured". The following coverages will be required:

WORKERS' COMPENSATION - a certificate shall be provided that indicates the contractor provides workers' compensation coverage in compliance with the state laws of Tennessee.

General Liability:

1. Bodily injury or death - each occurrence \$ 1,000,000
2. Bodily injury or death - aggregate 2,000,000
3. Property damage - each occurrence 2,000,000
4. Property damage - aggregate 4,000,000
5. Personal injury - aggregate 1,000,000

This insurance shall indicate on the certificate of insurance the following coverages:

Broad Form Contractual  
Independent Contractor and sub-contractors  
Premises-Operations

Automobile Liability (including owned, hired, and non-owned):

1. Bodily injury or death - each person \$1,000,000
2. Bodily injury or death - each occurrence 1,000,000
3. Property damage - each occurrence 500,000

This insurance shall include bodily injury and property damage for the following coverages:

Owned automobiles  
Hired automobiles.  
Non-owned automobiles

PERFORMANCE AND OTHER BONDS – INTEGRATOR shall furnish performance and payment Bonds, each in an amount at least equal to the Proposal Price as security for the faithful performance and payment of all CONTRACTOR'S obligations under the Contract Documents. These Bonds shall remain in effect at least until one year after the date when final payment becomes due, except as otherwise provided by Law or Regulation or by the Contract Documents. All bonds signed by an agent must be accompanied by a certified copy of the authority to act. If the surety on any Bond furnished by INTEGRATOR is declared a bankrupt or becomes insolvent or its right to do business is terminated in any state where any part of the Project is located, or it ceases to meet the requirements of the preceding paragraph. INTEGRATOR shall within five days thereafter substitute another Bond and Surety, both which must be acceptable to the CITY.

TERM - The contract time shall be for one hundred and eighty calendar days (6-months) from the date of contract execution or until the project is accepted by the owner. Work shall not be allowed during unfavorable conditions and if the project is not completed prior to Winter sets in then the work will require suspension until favorable weather returns in the early Spring. Liquidated damages are set at \$1,000 per day for each day which exceeds the contract term.

SPRING HILL BUSINESS LICENSE - Subject to the exceptions enumerated hereinafter, persons subject to the Spring Hill Business Tax operating from an established place of business in one county who extend their operations into other counties and/or municipalities without establishing an office, headquarters or other place of business therein shall not be subject to the Spring Hill Business Tax in such other counties and/or municipalities. Tax on total receipts from all taxable sales shall be due to the county and municipality, if any, in which the established place of business is located. A new business license is \$15.00. If applicable, at license expiration, renewal is a percentage of the business total gross.

Excepted from the rule as stated in above paragraph are:

- (a) Persons with no established place of business in this state.
- (b) Contractors with taxable receipts of \$50,000 and out of state contractors.

### SECTION III - SCADA UPGRADES - PRICE QUOTATION

The proposal shall be for furnishing, installing equipment, components, hardware, and software for the SCADA system upgrades at:

#### **A. Water Treatment Plant and Water Distribution System**

#### **B. Water Treatment Plant and Water Distribution System**

All work shall be coordinated with the Water Treatment Plant Manager (Jeremy Vanderford) and the Wastewater Treatment Plant Manager (Travis Massey) as to allow both the water system and sewer system to be fully functional and the treatment processes uninterrupted.

**PROPOSAL ITEMS:**

All materials shall be installed per current SCADA and Telemetry standards. All products listed are NOT intended to be sole sourced or proprietary and are listed as basis for products which have been reviewed and determined to be acceptable for the application. The products referenced meet the intent of its application and are expected to perform within the environment they are being placed. Should the proposer wish to utilize other products, an itemization of alternate products being proposed is to be submitted along with a deductible or additive dollar amount. However, the lump sum costs for items A. and B. shall be based on the referenced items of this RFQ. Alternate items will only be considered if they are itemized and listed separately for alternate considerations within the proposal and shall be reviewed only after submittal of the proposal. The alternate items must clearly show the product's specification equivalency. The alternate products may be deemed either satisfactory or unsatisfactory for the required application based on the review of that product after submittal. The owner may or may not accept the alternate products submitted for review. The below identified items and estimated quantities are to be verified by the bidder prior to bid submittal and during his site visits to the WTP, WDS, WWTP, and SCS.

**BASE PROPOSAL ITEMS**

Description of Work Items for the City of Spring Hill's SCADA Systems Upgrades	Estimated Quantities	Cost
A. Water Treatment Plant and Water Distribution System SCADA System Upgrades	Lump Sum	\$ 291,737.00
B. Water Treatment Plant and Water Distribution System SCADA System Upgrades	Lump Sum	\$ 182,135.00
<b>TOTAL PROJECT-LUMP SUM-COST</b> (Proposer's Written Amount in words) four hundred seventy-three thousand eight hundred seventy-two		\$ 473,872.00

**PROPOSED ALTERNATE ITEMS**

ITEM NO.	DESCRIPTION	QUANTITY	UNIT COST	TOTAL COST *(+/-)
1.	None	N/A	N/A	\$ N/A
2.				\$
3.				\$
4.				\$
5.				\$
6.				\$
7.				\$
8.				\$
9.				\$
10.				\$
11.				\$
12.				\$
13.				\$
14.				\$
15.				\$
16.				\$
17.				\$
18.				\$
19.				\$
20.				\$
21.				\$
22.				\$
23.				\$
24.				\$
25.				\$
26.				\$
27.				\$
28.				\$
29.				\$
30.				\$
31.				\$
32.				\$

\*Note: Indicate a (+) for an add cost and (-) for a credit cost. Items will be reviewed and determined if selections are to be made only after submittals are received.

In compliance with the conditions stated above and attached specifications and conditions, the undersigned offers, and agrees, if this bid is accepted within 90 days from opening date, to furnish and install all items at the prices set above. This agreement will be effective for 18 months from the date of the contract execution.

OWNER CITY OF SPRING HILL

By: \_\_\_\_\_

Mayor

Attest: \_\_\_\_\_

City Clerk

Address for giving notices

P.O. Box 789

Spring Hill, TN 37174

CONTRACTOR Southern Flow

By: \_\_\_\_\_

Attest: \_\_\_\_\_

Address for giving notices

6445 Industrial Way Suite A

Alpharetta, GA 30004

Agent for service to process:

License No. (If CONTRACTOR is a corporation, attach evidence of authority to sign.)