

**LXINGTON-FAYETTE URBAN COUNTY**  
**GOVERNMENT CONTRACT CHANGE ORDER**  
 Page 1 of 2

To (Contractor):  
 Smith Contractors, Inc.  
 PO Box 480  
 1241 Bypass North  
 Lawrenceburg, Kentucky 40342

Date:	March 30, 2015
Project:	Town Branch and West Hickman WWTP Electrical/SCADA, Blower/Aeration and Pump Stations Improvements
Location:	TB, WH WWTP and Pump Stations
Contract No.	566-2012
Original Contract Amt	\$13,442,723.00
Cumulative Amount of Previous Change Orders	\$1,154,654.56
Percent Change - Previous Change Orders	8.59%
Total Contract Amount Prior to this Change Order	\$14,597,577.56
Change Order No.	5

You are hereby requested to comply with the following changes from the contract plans and specification:

**Current Change Order**

Item No.	Description of changes-quantities, unit prices, change in completion date, etc.	Decrease in contract price	Increase in contract price
2	Panel A/C Deduct	\$85,498.00	
4	Radio Equipment Chagnes		\$24,723.85
7	Additional Tivoli Software		\$16,115.48
8	Change to Control Room Consoles		\$0.00
10	Server Equipment Changes from Dell to IBM	\$4,384.62	
22	Additional Devicenet Cable for TB Aeration		\$3,675.53
23	BPR Mixer Switches		\$14,653.40
25	West Hickman Chlorine/Dechlor Control Addition		\$10,702.75
26	Replace 3 Check Valves in WH Zone 1 Aeration		\$15,956.00
27	West Hickman Chlorine/Dechlor Monitoring Addition		\$8,342.00
28	Additional Workstation with Integration and Programming for Pump Stations Telemetry		\$7,711.78
29	Additon of Disconnect Switches WH Zone 2 Aeration		\$27,018.39
38	Labor and Materials for Supplying 9 New MCC Buckets		\$28,525.75
	<b>Total decrease</b>	\$89,882.62	
	<b>Total Increase</b>		\$157,424.91
	<b>Net Amount of this Change Order</b>	\$67,542.29	
	<b>New Contract Amount Including this Change Order</b>	\$14,665,119.85	
	<b>Percent Change - This Change Order</b>		0.46%
	<b>Percent Change - All Change Orders</b>		8.09%

The line provided for the completion in the contract and all provisions of the contract will apply hereto.

Recommended by [Signature] (Proj. Engr.) Date 4/15/15  
 Accepted by [Signature] (Contractor) Date 4/16/15  
 Approved by [Signature] (Director) Date 4-26-15  
 Approved by \_\_\_\_\_ (Commissioner) Date \_\_\_\_\_  
 Approved by \_\_\_\_\_ (Mayor or CAO) Date \_\_\_\_\_

**JUSTIFICATION FOR CHANGE**

PROJECT: Town Branch and West Hickman WWTP  
Electrical/SCADA, Blower/Aeration and Pump Stations  
Improvements

CONTRACT NO. 566-2012

CHANGE ORDER: 5

1. Necessity for change: Back-up data is attached explaining the necessity for each item.
2. Is proposed change an alternate bid? \_\_\_ Yes  X  No
3. Will proposed change alter the physical size of the project? \_\_\_ Yes  X  No  
If "Yes", explain.
4. Effect of this change on other prime contractors: N/A
5. Has consent of surety been obtained? \_\_\_ Yes  X  Not Necessary
6. Will this change affect expiration or extent of insurance coverage? \_\_\_ Yes  X  No  
If "Yes", will the policies be extended? \_\_\_ Yes \_\_\_ No
7. Effect on operation and maintenance costs: N/A
8. Effect on contract completion date: Contract completion has been extended to July 31, 2015. This will cover the additional time needed to complete the contract.

\_\_\_\_\_  
Mayor

\_\_\_\_\_  
Date

**Summary Chart for Change Order #5**

Project:		TB, WH & PS Electrical/SCADA Project Lexington, Kentucky Contract # R.566-2012		Key		Ow = Owner Om = Omission A/E = Architect/Engineer C = Contractor		CO No.
		No.	Date	Brief Description	Price	Change Requested by		
2	2/4/2013	Deduction for Air Conditioners at pump station control panels. Not necessary but included in bid. (\$85,498.00 deduct from Control Touch Direct PO)	✓ -\$85,498.00	X				5
4	1/21/2014	Radio Equipment Changes (CPR-002) In the beginning of the project a radio addendum was issued due to the discontinuation of the suggested radio. Since that addendum additional radio changes have been issued. A responsive local radio provider has been identified and the LFUCG (a 24,723.85 credit to Control Touch)	✓ \$24,723.85		X			5
7	9/12/2013	Tivoli Software Additional funds During review and understanding of the Tivoli the cost implications were not estimated correctly. This is required by LFUCG computer Services. (\$16,115.46 to be credited to Control Touch Direct PO)	✓ \$16,115.46			X		5
8	9/12/2013	Change to the Control Room Consoles Owner requested change due to the delivery time on the submitted consoles. No cost change; switched from Tresco to Wright-Line.	✓ \$0.00	X				5
10	9/12/2013	Server equipment changes - from Dell to IBM In the specifications it was specked as IBM or equal. When the integrator tried to submit shop drawings for Dell equipment LFUCG Computer Services did not consider Dell equal and required the equipment to be IBM. (\$4,384.62 to be deducted from Control Touch Direct PO)	✓ -\$4,384.62	X				5
22	3/24/2014	Purchase of additional devicenet cable for Town Branch WWTP for the aeration tank actuators. Additional cable purchased though Control Touch to be installed during the installation of included work. (\$3,196.12 credited to Control Touch Direct PO)	✓ \$3,675.53	X				5
23	5/5/2013	BPR Mixer Switches for local control. Local/Remote selector switches were not part of the original plans. Once construction began staff realized a benefit of adding local control with SCADA control. This provided back-up control and local control for maintenance. (\$12,742.08 credited to Control Touch Direct PO)	✓ \$14,653.40	X				5
25	6/11/2014	West Hickman Chlorination/Dechlorination control addition Once the integrator had a chance to look at the existing equipment for chlorination and dechlorination it was determined auto control of the equipment could be added. Adding efficiency to the process.	✓ \$10,702.75	X				5

26	9/10/2014	<p>Replace 3 existing check valves in West Hickman Zone 1 Aeration.</p> <p>After installing 2 new blowers in West Hickman Zone 1 Aeration the check valves were not working correctly. Two valves are being replaced and one is being added so air can be diverted correctly.</p>	✓ \$15,956.00	X	X			5
27	9/10/2014	<p>West Hickman Chlorination/Dechlorination Monitoring Addition.</p> <p>With new gas monitors added by plant staff the opportunity now exist to get actual readings displayed at the operator's work station.</p>	✓ \$8,342.00	X				5
28	9/10/2014	<p>Pump Stations office Relocation</p> <p>Additional equipment/wire needed for pump station's new office along with an additional workstation.</p>	✓ \$7,711.78	X				5
29	6/1/2014	<p>Addition of disconnect switches for the gate actuators for West Hickman Zone 2 Aeration.</p> <p>Twelve aeration control valves are located on the Zone 2 Aeration Basins. Multiple actuators are powered on the same electrical circuit. Plant staff requested individual disconnects to allow selected valve actuators to be disconnected from power source for maintenance.</p>	✓ \$27,018.39					5
38	2/5/2014	<p>Installation of 9 additional MCC buckets @ West Hickman</p> <p>These buckets are for circuit breakers to power equipment. Four MCC buckets were required for auxiliary power to magnetic bearings for the four new blowers installed in Zones 1 and 2. The need for these auxiliary circuits was not identified until the manufacturer's factory test. Five MCC buckets were required to provide power to existing equipment that was understood to be out of service, but was determined during construction to need to stay in operation.</p>	✓ \$28,525.75					5
			<b>Page TOTAL</b>					
			<b>\$67,542.29</b>					

**SMITH CONTRACTORS, INC.**

**P.O. Box 480  
1241 Bypass North  
Lawrenceburg, Kentucky 40342**

**502-839-4196  
502-839-8348 - Fax #**

*Item # 2  
1 of 2*

February 4, 2013

Strand Associates, Inc.  
1525 Bull Lea Road  
Suite 100  
Lexington, KY 40511

Re: Town Branch & West Hickman  
Creek WWTP  
Lexington, KY

Attention: Mike Davis, P.E.

We could offer a lump sum deduct of **\$85,498.00** per the enclosed RFI #89 for the referenced project.

If you have any questions or comments regarding this deduction, please contact our office.

Sincerely,

Kerry Smith  
President

KAS;vsg

Enclosure

Item # 2  
2 of 2

### Request for Information

Contract No.:	90-2012	RFI No.:	89
Project Name:	Electrical/SCADA/Blower Upgrade	Date Received:	01 / 31 / 13
Owner:	LFUCG	Date Required:	02 / 14 / 13
Contractor:	ControlTouch Systems, Inc.	Date Responded:	___ / ___ / ___
Specification Section:	13330 - 2.03. A	Page No.:	13330 - 5
Drawing Sheet No.:	N/A	Detail:	___

**REQUEST:** The pricing submitted for the 82 pump station RTU's include an air conditioner (A/C) on each unit to meet the maximum internal panel temperature requirement of 104°F as specified in Section 13330 2.03. A.

Concern has been expressed about the required maintenance and upkeep of these 82 A/C units; and if they are really required, as the existing RTU's today do not have A/C units.  
Can the 82 A/C units be removed from the RTU design?

The maximum operating temperatures for the MicroLogix 1400, power supply and UPS are 140°F, 140°F and 122°F, respectively. Maximum operating temperature for the RTU radio's can be determined once the customer has selected a radio to use.

**PROPOSED SOLUTION (if applicable):** Removal of 82 A/C units would save \$85,498. The RTU design would still include an internal panel mounted heater and the external panel sunshade, as specified in Section 13300 3.01.N.

By: Michael J. Harris

Signature: *Michael J. Harris*

Date: 01 / 29 / 13

**RESPONSE:**

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

Signature: \_\_\_\_\_

Date: \_\_\_ / \_\_\_ / \_\_\_

Item #4  
1 of 3

**SMITH CONTRACTORS, INC.**

*P.O. Box 480  
1241 Bypass North  
Lawrenceburg, Kentucky 40342*

*502-839-4196  
502-839-8348 - Fax #*

January 21, 2014

Strand Associates, Inc.  
1525 Bull Lea Road  
Suite 100  
Lexington, KY 40511

Re: Town Branch & West Hickman  
Creek WWTP  
Lexington, KY

Attention: Mike Davis, P.E.

Our price to change the radios from the GE-MDS SD9 specified at bid time to TRIO ER45e by Owens Communications.

The difference in cost is as follows:

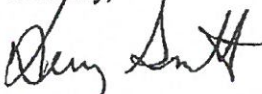
Add to Control Touch Purchase Order	\$21,499.00
+ Profit & Overhead	<u>3,224.85</u>
<b>TOTAL COST</b>	<b>\$24,723.85</b>

This price includes the site field RF path test performed by Owens.

We would request an additional sixty (60) days be added to our contract to complete this work.

If you have any questions or comments regarding this cost, please contact our office.

Sincerely,



Kerry Smith  
President

KAS;vsg

Enclosure



## Change Proposal Request - Revised

### Radio Equipment Change

January 20<sup>th</sup>, 2014

**Request:**

The purpose of this revised CPR is to finalize the selection, supply and pricing of Radio Telemetry System for the Pump Station RTU equipment. This CPR is to account and document the selection of the desired radio equipment that is to replace the existing Motorola MOSCAD equipment currently in-place.

**Background:**

The LFUCG Town Branch and West Hickman SCADA Improvement project specifications originally specified replacing pump station telemetry panels with new panels that utilized radios operating on LFUCG's existing 812 MHz frequency. The radio defined as part of Addendum 3 was a GE MDS-9710 serial transceiver. During the bid process, GE announced the MDS-9710 would no longer be available after February 2013 and would be obsolete. Addendum 9 was issued that changed the specifications to require the Contractor to perform the following.

" ... replace all Motorola radios and provide all installation services for SD9, 5 watt, 900 MHz licensed radios, with matching high gain antennas. The Contractor shall perform/provide an onsite radio survey and path study report for all sites, using 5 existing sites as sub-master sites (with Omni antennas at all sub-master sites, including the repeater site) within 45 days of the NTP. During the kickoff meeting, all sub-master sites will be identified."

Based on the direction provided from Addendum 9, the original bid price submitted included 83 GE MDS-SD9 radios with 78 Yagi and 5 Omni antennas, along with redundant repeater stations and Omni antenna for a total radio equipment price of \$123,345.10. The onsite radio survey was priced by GE at \$27,000.00 for a grand total of \$150,345.10.

Following the bid opening, other radio manufacturers were identified that could provide a radio similar to the originally specified GE radio. Since these radios are available, CPR002 requested a price change proposal to delete the requirements contained in Addendum 9, and provide radios that meet the original specification requirements. These radios were indicated in the CPR002 request to be Simrex, or equal.

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*Control System Integration and Automation Solutions*

3101 Breckenridge Lane - Louisville, KY 40220  
(502) 452-9397 - (800) 928-7287 - Fax (502) 462-8373



Item # 4  
3 of 3

Based on this CPR002 request, ControlTouch contacted Simrex Corporation to determine the correct model and equipment type to use. Simrex has two models that could be used in this application, the SimPac and DataMover TR-II radios. SimPac is an older model radio designed to work in the 812 MHz range, but only offers serial communication. Simrex recommended going with the DataMover TR-II, as it is a newer radio, and Simrex initially thought this radio could be modified to work in the 812 MHz range. However, this modification could not occur so Simrex recommended using the DataMover TR-II at 820 MHz and Simrex would obtain new licenses for LFUCG at this frequency. This, however, proved impossible for Simrex to obtain from the FCC at this time and all of this effort was lost.

After meeting with LFUCG and all parties involved in October, it was recommended to try LFUCG's current radio support group, Owens Communications (formerly Commonwealth Communications). With five radio options from three radio suppliers ControlTouch provided the initial CPR02 response in November to aid in selecting the desired radio system. At the November progress meeting ControlTouch has directed to begin the process of obtaining FCC license for the 450MHz Trio ER45e radio system from Owen Communications. On December 19<sup>th</sup> conditional approval was granted by the FCC to operate at 451/456MHz. CDM has also asked that a point to point field RF path test be completed at all 82 locations.

**Change Request:**

This revised Change Request details the price and schedule impact for changing from the original bid GE radio system to the Trio ER45e 450MHz radio system. The new Trio ER45e system is an increase of \$21,499 and this includes the site field RF path test performed by Owens. The schedule impact will add an additional 60 days to the schedule.

Radio Equipment Supplier:	Original Bid GE Radio	New Radio System by Owens Communications
Supplier Recommended:	Obsolete	Yes
Radio Model:	MDS SD9	TRIO ER45e
Frequency:	900MHz	450MHz
Licenses:	900MHz no Lic.	Requires New
Licenses Cost and Time:	0 / 0	\$1.5k / 2 Weeks
Licenses Cost:		\$1,500.00
Radio Propagation Survey:	\$27,000.00	\$12,450.00
Radio Price	\$942.50	\$1,214.46
RTU Antenna/Cable/Arrester Price	\$340.90	\$306.00
Redundant Bases / Repeaters Price	\$16,831.90	\$28,205.00
Shipping:		\$3,500.00
Radio System Price:	\$150,354.10	\$171,859.10

*Control System Integration and Automation Solutions*

Please see calculations below. The radio price was each so it had to be multiplied by 83.

The move to 450MHz took place because the FCC was trying to get only public safety on 812MHz range.

ControlTouch contacted Simrex Corporation to determine the radio to use. Simrex has two models that could be used in this project for TR-II radios. SimPac is an older model radio designed to offer serial communication. Simrex recommended going with the newer radio, and Simrex initially thought this radio could be modified to 450MHz. However, this modification could not occur so Simrex would obtain new licenses for TR-II at 820 MHz and Simrex would obtain new licenses for the project, proved impossible for Simrex to obtain from the FCC at

*Simrex Corp could not guarantee licenses from FCC in a timely manner for the 820 MHz*

parties involved in October, it was recommended to try to purchase, Owens Communications (formerly Commonwealth Communications) from three radio suppliers ControlTouch provided the

Initial CPR02 response in November to aid in selecting the desired radio system. At the November progress meeting ControlTouch has directed to begin the process of obtaining FCC license for the 450MHz Trio ER45e radio system from Owens Communications. On December 19<sup>th</sup> conditional approval was granted by the FCC to operate at 451/456MHz. CDM has also asked that a point to point field RF path test be completed at all 82 locations.

**Change Request:**

This revised Change Request details the price and schedule impact for changing from the original bid GE radio system to the Trio ER45e 450MHz radio system. The new Trio ER45e system is an increase of \$21,499 and this includes the site field RF path test performed by Owens. The schedule impact will add an additional 60 days to the schedule.

Radio Equipment Supplier:	Original Bid GE Radio	New Radio System by Owens Communications
Supplier Recommended:	Obsolete	Yes
Radio Model:	MDS SD9	TRIO ER45e
Frequency:	900MHz	450MHz
Licenses:	900MHz no Lic.	Requires New
Licenses Cost and Time:	0 / 0	\$1.5k / 2 Weeks
Licenses Cost:		\$1,500.00
Radio Propagation Survey:	\$27,000.00	\$12,450.00
Radio Price	83 @ \$942.50 78,227.50	83 @ \$1,214.46 100,800.18
RTU Antenna/Cable/Arrester Price	83 @ \$340.90 28,294.70	83 @ \$306.00 25,398.00
Redundant Bases / Repeaters Price	\$16,831.90	\$28,205.00
Shipping:		\$3,500.00
Radio System Price:	\$150,954.10	\$171,853.10

45,115.30

→ 47,175.44

**Control System Integration and Automation Solutions**

3101 Breckenridge Lane - Louisville, KY 40220  
(502) 452-8397 - (800) 828-7287 - Fax (502) 452-8373

171,853.10  
- 150,354.10  
= 21,499.00

**SMITH CONTRACTORS, INC.**

*P.O. Box 480  
1241 Bypass North  
Lawrenceburg, Kentucky 40342*

*502-839-4196  
502-839-8348 - Fax #*

*Item # 7*

September 12, 2013

Strand Associates, Inc.  
1525 Bull Lea Road  
Suite 100  
Lexington, KY 40511

Re: Town Branch & West Hickman  
Creek WWTP  
Lexington, KY

Attention: Mike Davis, P.E.

***SCADA Control Room Computer Equipment:***

CREDIT (\$4,384.62)

***Tivoli Backup Software:***

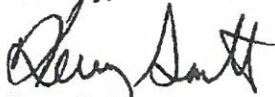
\$14,013.44 + 2,102.02 (Profit & Overhead) = \$16,115.46

***Control Room Console:***

Provide four (4) neutral posture chairs at no additional cost if the Wright Line console will be acceptable in lieu of the Tresco console.

If you have any questions or comments regarding these costs, please contact our office.

Sincerely,



Kerry Smith  
President

KAS;vsg

Item # 8

**SMITH CONTRACTORS, INC.**

*P.O. Box 480  
1241 Bypass North  
Lawrenceburg, Kentucky 40342*

*502-839-4196  
502-839-8348 - Fax #*

September 12, 2013

Strand Associates, Inc.  
1525 Bull Lea Road  
Suite 100  
Lexington, KY 40511

Re: Town Branch & West Hickman  
Creek WWTP  
Lexington, KY

Attention: Mike Davis, P.E.

***SCADA Control Room Computer Equipment:***

CREDIT (\$4,384.62)

***Tivoli Backup Software:***

\$14,013.44 + 2,102.02 (Profit & Overhead) = \$16,115.46

***Control Room Console:***

Provide four (4) neutral posture chairs at no additional cost if the Wright Line console will be acceptable in lieu of the Tresco console.

If you have any questions or comments regarding these costs, please contact our office.

Sincerely,



Kerry Smith  
President

KAS;vsg

Item # 10

**SMITH CONTRACTORS, INC.**

**P.O. Box 480  
1241 Bypass North  
Lawrenceburg, Kentucky 40342**

**502-839-4196  
502-839-8348 - Fax #**

September 12, 2013

Strand Associates, Inc.  
1525 Bull Lea Road  
Suite 100  
Lexington, KY 40511

Re: Town Branch & West Hickman  
Creek WWTP  
Lexington, KY

Attention: Mike Davis, P.E.

**SCADA Control Room Computer Equipment:**

CREDIT (\$4,384.62)

**Tivoli Backup Software:**

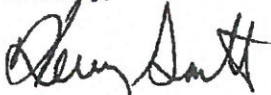
\$14,013.44 + 2,102.02 (Profit & Overhead) = \$16,115.46

**Control Room Console:**

Provide four (4) neutral posture chairs at no additional cost if the Wright Line console will be acceptable in lieu of the Tresco console.

If you have any questions or comments regarding these costs, please contact our office.

Sincerely,



Kerry Smith  
President

KAS;vsg

Item # 22

**SMITH CONTRACTORS, INC.**

**P.O. Box 480  
1241 Bypass North  
Lawrenceburg, Kentucky 40342**

**502-839-4196  
502-839-8348 - Fax #**

March 30, 2015

Strand Associates, Inc.  
1525 Bull Lea Road  
Suite 100  
Lexington, KY 40511

Re: Town Branch & West Hickman  
Creek WWTP  
Lexington, KY

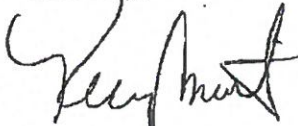
Attention: Mike Davis, P.E.

The following is our price to provide additional DeviceNet cable for the Town Branch  
Aeration Tank Actuator additions as requested by Tiffany Rank.

Control Touch	\$3,196.12
+ Profit & Overhead	<u>479.41</u>
<b>TOTAL</b>	<b>\$3,675.53</b>

If you have any questions or comments regarding this price, please contact our office.

Sincerely,



Kerry Smith  
President

KAS;vsg

Item #23  
1 of 3

**SMITH CONTRACTORS, INC.**

*P.O. Box 480  
1241 Bypass North  
Lawrenceburg, Kentucky 40342*

*502-839-4196  
502-839-8348 - Fax #*

August 29, 2013

Strand Associates, Inc.  
1525 Bull Lea Road  
Suite 100  
Lexington, KY 40511

Re: Town Branch & West Hickman  
Creek WWTP  
Lexington, KY

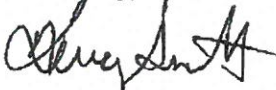
Attention: Mike Davis, P.E.

The price to add a selector switch with tag to each BPR panel at the new West Hickman WWTP is:

32 BPR Panel @ \$398.19	\$12,742.08
+ Profit & Overhead	<u>1,911.32</u>
<b>TOTAL COST</b>	<b>\$14,653.40</b>

If you have any questions or comments regarding this cost, please contact our office.

Sincerely,



Kerry Smith  
President

KAS;vsg



Item #23  
2 of 3

5 August 5, 2013

Mike Davis, Engineer  
Strand Associates  
1525 Bull Lea Road, Suite 100  
Lexington, KY 40511

Subject: Price to add REMOTE/LOCAL Selector Switch to each BPR Panel

Mike,

This quote includes material and labor to add a selector switch with tag to each BPR panel at the West Hickman WWTP. The switch will be mounted in the panel door and wired into existing and new circuits to allow the BPR to function per spec 13305-48 & 49.

If this is approved the work will be done at the same time as the addition of the E3+ overload.

Cost per BPR Panel	<b>\$398.19</b>
Total cost 32 BPR Panels	<b>\$12,742.08</b>

Thanks,

John Burke  
Project Manager

---

*Control System Integration and Automation Solutions*

3101 Breckenridge Lane, 3<sup>rd</sup> Flr. - Louisville, KY 40220  
(502) 452-9397 - (800) 928-7287 - Fax (502) 452-9373



**SMITH CONTRACTORS, INC.**

P.O. Box 480 ~ Lawrenceburg, Ky. 40342  
(502) 839-4196 ~ (502) 839-8348 fax

Item #23

3 of 3

**Request for Information**

Contract No.:	<u>90-2012</u>	RFI No.:	<u>104</u>
Project Name:	<u>Town Branch and West Hickman</u>	Date Received:	<u>06 / 19 / 13</u>
Owner:	<u>LFUCG</u>	Date Required:	<u>06 / 21 / 13</u>
Contractor:	<u>Smith Contractors, Inc.</u>	Date Responded:	<u>07 / 25 / 13</u>
Specification Section:	<u>13305</u>	Page No.:	<u>48 - 49 Item RR</u>
Drawing Sheet No.:	<u>WH-I-12-14</u>	Detail:	

**REQUEST:** See attached RFI from ControlTouch, Inc.

**PROPOSED SOLUTION (If applicable):**

By: Kerry Smith Signature: Kerry Smith Date: 6 / 20 / 13

**RESPONSE:**

Please provide a price to add the Remote/Local Selector switch to each BPR panel. Remote/Local switch shall be NEMA 4 type for outdoor application. This will allow the BPR mixers to have the same control as specified in 13305.

Also note that submersible mixer starters are to have ground fault protection.

By: Michael Davis Signature: \_\_\_\_\_ Date: 07 / 25 / 13

Item # 25  
1 of 2

**SMITH CONTRACTORS, INC.**

*P.O. Box 480  
1241 Bypass North  
Lawrenceburg, Kentucky 40342*

*502-839-4196  
502-839-8348 - Fax #*

June 6, 2014

Strand Associates, Inc.  
1525 Bull Lea Road  
Suite 100  
Lexington, KY 40511

Re: Town Branch & West Hickman  
Creek WWTP  
Lexington, KY

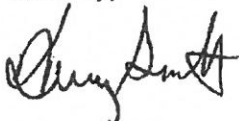
Attention: Mike Davis, P.E.

The price for RFI 114 is as follows:

Add to Control Touch Purchase Order	\$ 1,928.00
+ Profit & Overhead	289.20
TEM Electrical	2,441.74
+ Profit & Overhead	<u>122.09</u>
Sub-Total	4,781.03
+ 1.5% Bond Premium	<u>71.72</u>
<b>TOTAL COST</b>	<b>\$ 4,852.75</b>

If you have any questions or comments regarding this price, please contact our office.

Sincerely,



Kerry Smith  
President

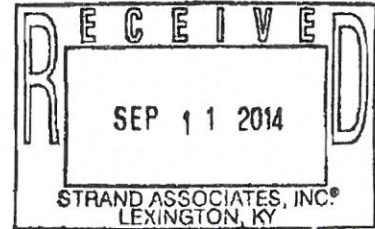
KAS;vsg

Items # 25  
2 of 2

**SMITH CONTRACTORS, INC.**

P.O. Box 480  
1241 Bypass North  
Lawrenceburg, Kentucky 40342

502-839-4196  
502-839-8348 - Fax #



September 10, 2014

Strand Associates, Inc.  
1525 Bull Lea Road  
Suite 100  
Lexington, KY 40511

Re: Town Branch & West Hickman  
Creek WWTP  
Lexington, KY

Attention: Mike Davis, P.E.

The following is our price for the chlorination/de-chlorination control addition.

Materials, Labor & Misc.	\$ 5,087.00
+ Profit & Overhead	<u>763.00</u>
<b>TOTAL COST</b>	<b>\$5,850.00</b>

If you have any questions or comments regarding this price, please contact our office.

Sincerely,

A handwritten signature in cursive script that reads "Kerry Smith".

Kerry Smith  
President

KAS;vsg

4,852.75  
+ 5,850.00  

---

Total = 10,702.75

Item # 26

**SMITH CONTRACTORS, INC.**

**P.O. Box 480  
1241 Bypass North  
Lawrenceburg, Kentucky 40342**

**502-839-4196  
502-839-8348 – Fax #**

September 10, 2014

Strand Associates, Inc.  
1525 Bull Lea Road  
Suite 100  
Lexington, KY 40511

Re: Town Branch & West Hickman  
Creek WWTP  
Lexington, KY

Attention: Mike Davis, P.E.

The following is our price to replace the existing check valves in Zone 1.

Materials	\$ 9,225.00
Labor:	
3 man crew @ \$155.00 @ 30 hours	<u>4,650.00</u>
Sub-Total	13,875.00
+ Profit & Overhead	<u>2,081.00</u>
<b>TOTAL COST</b>	<b>\$15,956.00</b>

If you have any questions or comments regarding this price, please contact our office.

Sincerely,



Kerry Smith  
President

KAS;vsg

Item #27

**SMITH CONTRACTORS, INC.**

*P.O. Box 480  
1241 Bypass North  
Lawrenceburg, Kentucky 40342*

*502-839-4196  
502-839-8348 - Fax #*

September 10, 2014

Strand Associates, Inc.  
1525 Bull Lea Road  
Suite 100  
Lexington, KY 40511

Re: Town Branch & West Hickman  
Creek WWTP  
Lexington, KY

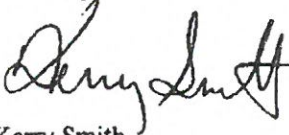
Attention: Mike Davis, P.E.

The following is our price for the chlorine and sulfur dioxide monitoring.

Control Touch	<u>\$3,850.00</u>
Labor & Equipment	<u>3,404.00</u>
Sub-Total	<u>7,254.00</u>
+ Profit & Overhead	<u>1,088.00</u>
<b>TOTAL COST</b>	<b>\$ 8,342.00</b>

If you have any questions or comments regarding this price, please contact our office.

Sincerely,



Kerry Smith  
President

KAS;vsg

Item # 28  
1 of 4

**SMITH CONTRACTORS, INC.**

*P.O. Box 480  
1241 Bypass North  
Lawrenceburg, Kentucky 40342*

*502 -839-4196  
502-839-8348 - Fax #*

March 27, 2015

Strand Associates, Inc.  
1525 Bull Lea Road  
Suite 100  
Lexington, KY 40511

Re: Town Branch & West Hickman  
Creek WWTP  
Lexington, KY

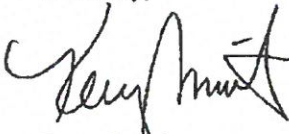
Attention: Mike Davis, P.E.

The following is our price to add an additional workstation to the Pump Station Maintenance Facility.

New Dell Computer with monitor (Control Touch)	\$3,405.90
+ Profit & Overhead	<u>510.88</u>
<b>TOTAL</b>	<b>\$3,916.78</b>

If you have any questions or comments regarding this price, please contact our office.

Sincerely,



Kerry Smith  
President

KAS;vsg

Item # 28  
2 of 4

**SMITH CONTRACTORS, INC.**

*P.O. Box 480  
1241 Bypass North  
Lawrenceburg, Kentucky 40342*

*502-839-4196  
502-839-8348 - Fax #*

September 10, 2014

Strand Associates, Inc.  
1525 Bull Lea Road  
Suite 100  
Lexington, KY 40511

Re: Town Branch & West Hickman  
Creek WWTP  
Lexington, KY

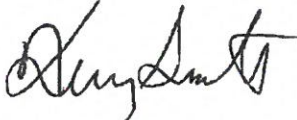
Attention: Mike Davis, P.E.

The following is our price for revision to pump station maintenance SCADA installation,  
including new work station.

Control Touch	\$3,300.00
+ Profit & Overhead	<u>495.00</u>
<b>TOTAL COST</b>	<b>\$3,795.00</b>

If you have any questions or comments regarding this price, please contact our office.

Sincerely,



Kerry Smith  
President

KAS;vsg

*3,916.78  
+ 3,795.00  
-----  
Total = 7,711.78*



Item #28  
3 of 4

15 May 2014

Tiffany Rank  
Lexington Fayette Urban County Government  
301 Lisle Industrial Ave.  
Lexington, KY 40511

Subject: Provide a second SCADA workstation at the Pump Station Maintenance Facility

Tiffany,  
This quote includes the material, labor, and licenses to add an additional workstation to the Pump Station Maintenance Facility.

A new Dell computer with one monitor to match the first equipment will be provided. The SCADA client will be installed and ready to use.

A second licensed software package of Win-911 (was allocated to West Hickman) will be installed along with the dial-out modem board.

All equipment will be installed on site and tested for full functionality.

Delivery 1-2 weeks after receipt of order.

Total Cost **\$3,405.90**

If you have any questions please contact me.

Thanks,

John Burke  
Project Manager

---

*Control System Integration and Automation Solutions*

3101 Breckenridge Lane, 3<sup>rd</sup> Flr. - Louisville, KY 40220  
(502) 452-9397 - (800) 928-7287 - Fax (502) 452-9373



1/12/15



Item # 28  
4 of 4

August 20<sup>th</sup>, 2014

Kerry Smith  
Smith Contractors, Inc  
1241 Bypass north  
Lawrenceburg, Ky. 40432

Subject: Price Revision to Pump Station Maintenance SCADA Installation per Change Order Status 8.d.

Kerry,

It has been requested by Strand / LFUCG for ControlTouch to review the affect of the "Revision to Pump Station Maintenance SCADA Installation, Including New Workstation". This cost proposal shall review these changes.

The base bid showed the Pump Station Maintenance SCADA system being installed in the existing Pump Station Maintenance Building. In that design one SCADA workstation PC was to be located with the master polling PLC and master radio (the DCU). Because of future plans for that area the decision was made by LFUCG, after ControlTouch had designed the system, to relocate Pump Station Maintenance to a remote location. This move changed our design. The new design located the DCU in the control room at Town Branch and the workstation PC at the remote location. This also required the workstation PC to connect to the SCADA over the city network and added a firewall to that remote location. The city's IT would also not allow remote VPN connection to the Town Branch Servers because of security concerns. This created an issue because pump station maintenance personnel are required to VPN into the system to perform their maintenance functions.

ControlTouch re-designed the Pump Station Maintenance SCADA system to work around these new requirements; however, additional engineering and configuration time has spent. The additional hardware required has been covered, but much of the additional labor has not. The additional firewall came from the two spares ControlTouch provided LFUCG in the base bid. The new redundant workstation PC (a second PC and software) at the remote location was quoted under a separate quote. The additional labor is estimated at 30 hours which is a cost of \$3,300

Total Cost

\$3,300.00	~	integration services
+ 345.90	~	just work station
<u>3645.90</u>		

Thanks,

Michael Harris  
Vice President of Operations  
ControlTouch Systems, Inc.

*Control System Integration and Automation Solutions*

3101 Breckenridge Lane, 3<sup>rd</sup> Flr. - Louisville, KY 40220  
(502) 452-9397 - (800) 928-7287 - Fax (502) 452-9373

Item # 29

1 of 3

**SMITH CONTRACTORS, INC.**

P.O. Box 480  
1241 Bypass North  
Lawrenceburg, Kentucky 40342

502-839-4196  
502-839-8348 - Fax #

February 19, 2015

Re: Town Branch & West Hickman  
Creek WWTP  
Lexington, KY

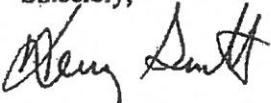
Attention: Mike Davis, P.E.

The following is our price to add disconnect switches at the new air control valves.

Subcontractor	\$25,351.54
+ Profit & Overhead	<u>1,267.57</u>
Sub-Total	\$26,619.11
1 1/4% Bond Premium	<u>399.28</u>
<b>TOTAL</b>	<b>\$27,018.39</b>

If you have any questions or comments regarding this, please contact our office.

Sincerely,



Kerry Smith  
President

KAS;vsg

Enclosure

Item # 29  
2 of 3

### BID SUMMARY REPORT

Name: Butterfly Valve Safety Switches for A Estimator: Pat

Job #: 1327

**Job Name:** Butterfly Valve Safety Switches for Aeration Tanks

**Contractor:** Smith Contractors

**Estimator:** Pat

**Notes:**

**Bid Date:** Wednesday, February 18, 2015

Included	Summary Description	Extended	%	Adjusted Material	Extended	%	Adjusted Labor
<input type="checkbox"/>	Disconnect switches	\$4,373.40	100.00	\$4,373.40	140.39	99.73	140.00

#### Top Sheet

Raw Cost	\$21,415.80	Sales Per Month	\$63,559.89
Tax	\$627.44	Return Per Month	\$8,191.86
Raw Cost With Tax	\$22,043.25	Price Per Sq Foot	\$0.00
Overhead	\$2,688.90	Hours Per Sq Foot	0.00
Profit	\$738.39	Square Feet	0.00
Total Return \$	\$3,308.29	Job Months	0.40
Total Return %	12.88	Hours per Week	40.00
Price	\$25,351.54	Workers Per Day	2.00
Bond	\$216.88	Total Hours	140.00
Sell Price	\$25,868.42	Mark Up Sales Tax? Yes	
Sell Adjusted By:	\$0.00	Use Bond Table? Yes	
Adj Sell Return	0		

Labor	Percent of Total	Hours Distributed	Hourly Rate	Burden Rate	Percent	Labor Cost
ClassDescription	100.00%	140.00	\$52.00	\$13.00	25.00%	\$9,100.00
<b>Totals:</b>	<b>100.00%</b>	<b>140.00</b>	<b>\$52.00</b>	<b>\$13.00</b>	<b>25.00%</b>	<b>\$9,100.00</b>

#### MARK UPS

	Total		OVERHEAD		PROFIT	
	Amount	%	Amount	%	Amount	%
Materials	\$4,373.40	12.00%	\$4,898.21	3.00%	\$5,045.16	
Labor	\$9,100.00	12.00%	\$10,192.00	3.00%	\$10,497.76	
Supplier Quotes	\$6,084.00	12.00%	\$6,614.08	3.00%	\$7,018.50	
SubContractors	\$0.00	12.00%	\$0.00	3.00%	\$0.00	
Direct Job Expense	\$1,858.40	12.00%	\$2,081.41	3.00%	\$2,143.85	
Equipment Rental	\$0.00	12.00%	\$0.00	3.00%	\$0.00	
<b>Totals:</b>	<b>\$21,415.80</b>	<b>12.00%</b>	<b>\$23,985.70</b>	<b>3.00%</b>	<b>\$24,705.27</b>	

#### TAX Report

	Taxed Amount	Tax Rate %	Tax Amount
Materials	\$4,373.40	6.00%	\$262.40
Labor	\$9,100.00	0.00%	\$0.00
Supplier Quotes	\$6,084.00	6.00%	\$365.04
SubContractors	\$0.00	0.00%	\$0.00
Direct Job Expense	\$0.00	0.00%	\$0.00
Equipment Rental	\$0.00	0.00%	\$0.00
<b>Total Tax:</b>			<b>\$627.44</b>

#### Supplier Quotes

Item # 29  
3 of 3

### BID SUMMARY REPORT

Name: Butterfly Valve Safety Switches for A Estimator: Pat

Job #: 1327

Name	Supplier	Tax (6%)	Unit	Multiplier	Dollars
Switchgear	Graybar-Lex.	Yes	\$507.00	12.00	\$6,084.00
<b>Total:</b>					<b>\$6,084.00</b>

#### Direct Job Expense

Name	Supplier	Tax (0%)	Unit	Multiplier	Dollars
Permit / Fees		No	\$25,608.00	0.05	\$1,283.40
Fuel, Oil & Gas	per week	No	\$100.00	2.00	\$200.00
safety	per month	No	\$0.25	0.00	\$0.00
Vehicle	750/mo	No	\$750.00	0.50	\$375.00
<b>Total:</b>					<b>\$1,858.40</b>

Item # 38

**SMITH CONTRACTORS, INC.**

**P.O. Box 480  
1241 Bypass North  
Lawrenceburg, Kentucky 40342**

**502-839-4196  
502-839-8348 - Fax #**

February 5, 2014

Strand Associates, Inc.  
1525 Bull Lea Road  
Suite 100  
Lexington, KY 40511

Re: Town Branch & West Hickman  
Creek WWTP  
Lexington, KY

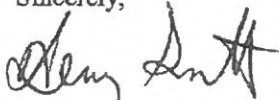
Attention: Mike Davis, P.E.

Our price to install the additional buckets to the new MCC's at West Hickman is as follows:

• Modify Purchase Order to Control Touch: Add	\$23,540.00	CT
• Labor, Tools & Indirect Expenses	<u>1,265.00</u>	TLM
Sub-Total	24,805.00	
+ Profit & Overhead	<u>3,720.75</u>	
<b>TOTAL COST</b>	<b>\$28,525.75</b>	

If you have any questions or comments regarding this request, please contact our office.

Sincerely,



Kerry Smith  
President

KAS;vsg

17.