

Public Contract Application for Contractual Changes

Engineering and Construction Department

485 N. Poplar, Broken Arrow, OK. 74012 Fax: 918-259-8453 - Office: 918-259-7000

Contract Change Order # 5

Project Nam	oject Name: City Wide SCADA System					Number:	15542	155425	
Project Loca	ation: City Wide	City Wide - Various Locations			Date of Application:T		Tuesday, July	Γuesday, July 30, 2019	
Contractor:	Pri	rime Controls			Submitted By:		Ricky Ellis		
			of Change i						
The follow	ing scope of work consisting of v and agreed upon by the contra								
1) Per Wa Thi	Vork Items Included in this Chan the request of the Utilities departs the Water Treatment Plant such the request is summerized in the at prior noted work.	tment, the contract o change the Thick	kener WAS pu	mps prog	ramming to n	natch the current	operation of th	e WAS pumps.	
-	Contractual Project Time: requested additional time								
Plan Sheets	or Additional Documents Attach	ed:	□ N	Ю	Other:	Prime Contr	cols Cost Propo	sals & RFI's	
		W	ork Order Qu	uantities					
Item# (Sp	ec) Item Description		Units		Price	Quantity		Total Amount	
CO5-1 N	NA Thickener WAS Pump Progra	mming	LS	\$	3,931.45	1	\$	3,931.45	
						l Change Cost:	\$	3,931.45	
			nmary of Proj 7,658.45			<u>-</u>			
	Total Previous Change Orders: \$				Original Contract Amount: \$			1,559,028.00	
	Current Change Order		3,931.45	Amended Contract Amount: \$			1,630,617.90		
	Total Cost of Change Orders: \$ 71,589.90			Percent Change in Contract:				.59%	
	Total Cost Applicable to CBA	:_\$ 7:	1,589.90 Perc	ent Chan	ge Applicable	e to CBA:	4	1.59%	
			ige Order Aut						
Change Ord	ler # in the sum of:	\$	3,931.45 ha	as been re	viewed by all	parties and is re-	commended fo	r approval by:	
Contractor S	Submitting Change Order:								
		Name			Signature			Date	
Construction	n Division Manager:	Timothy S Rob	oins, PE						
	J	Name			Signature			Date	
Director of l	Engineering & Construction:	Alex Mills,	, PE						
Assistant Ci	ty Manager - Operations:	Kenneth D Sch	wab, PE		Signature			Date	
City Manage	er:	Michael Spu	rgeon		Signature			Date	
L			CI . T	. 1701 -				-	
☐ This	s change to the contract documents is a		-			applicable state statu	utes and COBA C	ode of Ordinances.	
✓ This	s change to the contract documents was	approved at the City	or Council/BAMA 1	meeting hel	ld on :	Tuesday, Augus	st 6, 2019		



1725 Lakepointe Drive, Lewisville TX 75057 (972) 221-4849 Phone (972) 420-4842 Fax

Change Order Request

Date: July 25, 2019				
To:	City of Broken Arrow Tim Robins			
Project Name:	City of Broken Arrow SCAD	A Replacement		
Contract No.:	155425			
Subject:	SCADA Additional Program	ming		
Change Order Request No.:	1851009-10			
Source:	BAMA Request			
Tim,				
		itioanI programming for the Thicken	er WAS pumps to	be set up the
same as the WAS pumps. This	was a request from BAMA via	a an email dated 7/22.		
Scope of Work				
1. Provide programming as	requested, verify programmi	ng during the FDT.		
Sub-Total Cost Breakdown			,	
Labor			ç	
Markup (15%)				\$3,931.45
			iotai	33,331.43
Clarifications				
	of work, Prime Controls requ	ests an executed copy of this change	order request. W	e expect this
change will be accepted	in a timely manner. Prime Cor	trols is not liable for schedule delay	s associated with	this change in
the scope of work.				
<u>Schedule</u>				
Number of additional calenda	r days requested for this chan	ge proposal from the date of		
notice to proceed.				
	Pronc	sal Approval		
	1.566			
Approved B	y:	Date:		
	P. D. C.		tt	d.
Should you have any que	estions regarding this change of	order request please feel free to con	tact us.	
Sincerely,				
Prime Controls, LP				
Project Manager				
r roject wandser				

Timothy S. Robins, PE. CFM CWI | Construction Division Manager

Engineering and Construction Department

485 N. Poplar Avenue, Broken Arrow, OK 74012 Office: 918.259.7000 ext.7631 Cell: 918.644.6494

Fax: 918.259.8453

Email: <u>Trobins@Brokenarrowok.gov</u> facebook | twitter | youtube



From: Ricky Ellis < r.ellis@prime-controls.com >

Sent: Monday, July 22, 2019 2:23 PM

To: Robins, Timothy trobins@brokenarrowok.gov; Moseley, Patrick pmoseley@apaienv.com>

Cc: Westfall, Jeff < JWestfall@BrokenArrowOK.Gov >; Hughes, Roger < RHughes@brokenarrowok.gov >; Myers, David < DMyers@BrokenArrowOK.Gov >; Christopher Steele < c.steele@prime-controls.com >; Kyle Jones < k.jones@prime-controls.com >

Subject: RE: Programming and SCADA questions

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Tim,

Not what I was expecting, these do not appear to be programming changes except for item # 1&2, however a few comments:

- Nothing on Digesters naming scheme.
- Operation of WAS pumps need to be set up as the following: One pump will run at each cycle and alternate pump each cycle. If the pump that is called for fails the other pump will come on and take its place -Acknowledged
- Thickener WAS pumps need to be set up the same as the WAS pumps This requires change order & added programming
- Placing a switch in the Off position or turning it into Hand shouldn't put the equipment into a fail mode and need to be reset on the computer. Will look into next time onsite
- Would like to know what all the color of alarms? Red, green, turquoise, amber, yellow etc. Red=Critical, Amber=Alarm, Green=Running, Yellow=Warning
- Appears to be sending a lot of phantom alarms or gathering a lot of data and alarms that I don't understand. Maybe training will help Will look into next time onsite
- Influent (headworks effluent), plant effluent and WAS pumps need a totalizer on the SCADA not just hour meter.
 Will look into next time onsite
- Don't see anything about generators on the screen. Are they monitored? Need to callout not only for power loss, transfer of power to emergency backup and generator failure if it fails while main power is off. Gen comms were down last visit, need Gen vendor to correct
- Noticed a lot of fail to start and fail to stop on the WAS pumps, T-WAS pumps and RAW Sewage Pumps Will look into next time onsite
- Sludge feed pump will not start from the Belt press Working on Prime Controls last visit, please verify pump is in AUTO
- Polymer feed system will not start from the Belt Press. Will look into next time onsite

- Remote access capabilities from a laptop. Our I.T. or Prime? BAMA City IT is working on a solution
- More reliable callout equipment. VT SCADA recommendations, they should know the most reliable Already
 using most reliable from VTSCADA, when remote access is working will be able to use VOIP Base Callout System
- What alarms is the system going to callout for? The ones BAMA requested are being alarmed, if this needs to change please send excel sheet explaining each alarm.

One of the level indicators is here on site. The other ship on the 5th of August and will be installed along with the HOA switches for the force pumps. If parts are not functioning on next scheduled FDT date of 8-5-2019 these items will be listed as not working.

United Engines looked at the comm boards on the generator and didn't see an issue so they will need more information from Prime on exactly what they are needing. Generator was not reporting data to SCADA 100 days before Prime Controls last site visit per the historian. Modbus connected directly to board and returned only errors.

Does BAMA want to keep the 8/5/2019 FDT date?

Do we need to have a conference call to discuss any of thee items?

Thanks,

Prime Controls Project Manager

Cell: 214.842.9191

From: Robins, Timothy < trobins@brokenarrowok.gov>

Sent: Monday, July 22, 2019 1:32 PM

To: Moseley, Patrick <pmoseley@apaienv.com>; Ricky Ellis <r.ellis@prime-controls.com>

Cc: Westfall, Jeff <JWestfall@BrokenArrowOK.Gov>; Hughes, Roger <RHughes@brokenarrowok.gov>; Myers, David

<DMyers@BrokenArrowOK.Gov>

Subject: FW: Programming and SCADA questions

Patrick,

In the process of installing the SCADA system at LLWWTP, the plant staff has some programming requests/questions. Can you please take a look at below and see if you have any concerns in the below programming change requests as well as if you can clarify the questions below as well. I have copied Ricky with Prime such to have him looking at the same thing at the same time to make sure we are all on the same page.

Thanks,

Timothy S. Robins, PE. CFM CWI | Construction Division Manager Engineering and Construction Department 485 N. Poplar Avenue, Broken Arrow, OK 74012 Office: 918.259.7000 ext.7631 | Cell: 918.644.6494 Fax: 918.259.8453

Email: <u>Trobins@Brokenarrowok.gov</u> facebook | twitter | youtube



From: McKee, Shannon < SMcKee@brokenarrowok.gov>

Sent: Monday, July 22, 2019 1:13 PM

To: Robins, Timothy < trobins@brokenarrowok.gov <a href="mailto:cc://www.

- 1. Operation of WAS pumps need to be set up as the following: One pump will run at each cycle and alternate pump each cycle. If the pump that is called for fails the other pump will come on and take its place
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- 4. Would like to know what all the color of alarms? Red, green, turquoise, amber, yellow etc.
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- 10. Polymer feed system will not start from the Belt Press
- 11. Remote access capabilities from a laptop. Our I.T. or Prime?
- 12. More reliable callout equipment. VT SCADA recommendations, they should know the most reliable
- 13. What alarms is the system going to callout for?

One of the level indicators is here on site. The other ship on the 5th of August and will be installed along with the HOA switches for the force pumps. United Engines looked at the comm boards on the generator and didn't see an issue so they will need more information from Prime on exactly what they are needing.

Shannon McKee | Lynn Lane WWTP Assistant Plant Manager

13874 S. 177th East Ave | Broken Arrow, OK. 74011

Office: 918-455-4762 | Fax: 918-455-4172

Email: smckee@brokenarrowok.gov



Robins, Timothy

From:

Moseley, Patrick <pmoseley@plummer.com>

Sent:

Thursday, July 25, 2019 7:35 AM

To:

Robins, Timothy

Cc:

Westfall, Jeff; Hughes, Roger; Myers, David

Subject:

RE: Programming and SCADA questions

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I will give you a call in the afternoon, when I return to the office.



Patrick Moseley, PE, CEM Associate

1320 S. University Drive, Suite 300 Fort Worth, Texas 76107

P: 817.806.1700 D: 972.996.5683

pmoseley@plummer.com www.plummer.com

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From: Robins, Timothy <trobins@brokenarrowok.gov>

Sent: Wednesday, July 24, 2019 4:20 PM

To: Moseley, Patrick <pmoseley@plummer.com>

Cc: Westfall, Jeff <JWestfall@BrokenArrowOK.Gov>; Hughes, Roger <RHughes@brokenarrowok.gov>; Myers, David

<DMyers@BrokenArrowOK.Gov>

Subject: RE: Programming and SCADA questions

Patrick,

Do you have any thoughts on this? Can you give me a shout tomorrow.

Thanks,