

CHANGE ORDER APPROVAL FORM

PROJECT: West Nassau Landfill Flare Station Blower System Replacement CHANGE ORDER: 2

DATE: 10/28/16

CONTRACT NUMBER: CM2303

TO CONTRACTOR: CB&I Environmental & Infrastructure, Inc.

Reason for Change Order: A 37-day extension to the contract dates and an increase of \$3,400.00 for the flow meter installation. There has been a delay in the delivery and installation of the piping to replace the temporary carbon steel piping. The addition of day due to weather, September 19, 2016. Also, it became necessary for the flow meter to have the calibration verified.

Original Contract Sum.....	\$	<u>73,381.00</u>
Net Change by Previous Change Order/Supplemental Agreement.	\$	<u>0.00</u>
Contract Sum Prior to This Change Order.....	\$	<u>73,381.00</u>
Amount of This Change Order (Add/Deduct).....	\$	<u>3,400.00</u>
New Contract Sum Including this Change Order.....	\$	<u>76,781.00</u>

The contract for substantial completion will be **(increased)** (decreased) (unchanged) by 37 days;
Substantial Completion: 10/30/16; Final Completion: 11/29/16

APPROVED BY: [Signature] DATE: 10/1/16
Project Manager (Department Head)

APPROVED BY: [Signature] DATE: 11/1/16
Procurement Manager

APPROVED BY: [Signature] DATE: 11/4/16
Director of Office of Management & Budget

APPROVED BY: [Signature] DATE: 11-4-16
County Manager

ACCOUNT NO.: 01362 534-56 3000 FLARE

CHANGE ORDER REQUEST FORM

(Instructions on 00 63 63-2)

No. 2

PROJECT: West Nassau Landfill Flare Station Blower System Replacement

DATE OF ISSUANCE October 11, 2016 EFFECTIVE DATE _____

NASSAU COUNTY BOARD OF COUNTY COMMISSIONERS

COUNTY Contract / Purchase Order No.: Contract No. CM 2303

CONTRACTOR: CB&I Environmental & Infrastructure Inc. ENGINEER / ARCHITECT: S2L, Inc.

You are directed to make the following changes in the Contract Documents.

Description: A 37-day extension to the contract dates and an increase of \$3,400 for flow meter installation
 Reason for Change Order: There has been a delay in the delivery and installation of the piping to replace the temporary carbon steel piping. The addition of day due to weather, September 19, 2016. Also, it became necessary for the flow meter to have the calibration verified.

Attachments: Email chain dated September 26, 2016, email exchange dated September 9, 2016, and Rainfall from September

RECOMMENDED:

By:  _____
 Engineer/Architect (Authorized Signature)

Date: 10-27-16

APPROVED:

By:  _____
 COUNTY (Authorized Signature)

Date: 11-4-16

ACCEPTED:

By:  _____
 Contractor (Authorized Signature)

Date: 10/24/16

From:
Sent:
To:
Cc:
Subject:

Completion

All,

To confirm, please move forward with option C - what was on the plans.

Also, please provide the estimated duration for the materials to be installed so that I can review the CO for time with Mr. Herring.

Thank you,

Please note that Engineering Services has a new telephone number: (904)530-6225

Becky Hiers-Bray, P.E.
Engineer III
Nassau County Engineering Services
96161 Nassau Place
Yulee, Florida 32097
(904) 530-6225 Phone
(904) 491-3611 Fax
bbray@nassaucountyfl.com

From: Rahill, Kevin <kevin.rahill@cbl.com>
Sent: Friday, September 23, 2016 10:11:30 AM
To: Omar Smith; Becky Bray
Cc: Benedetti, Shawn; 'Rick Willson'; Edward Diden
Subject: RE: West Nassau Landfill Flare Station Blower System Replacement - Substantial Completion

Omar,

To summarize our call and go over some action items from our call this morning:

- I will submit the change order form for a time extension on substantial completion today
- I will submit the partial payment request form today
- I am inquiring our materials and production status to get a better estimate on when the stainless steel piping can be ready
- Omar, please provide the signed proposal for the flow meter installation today
- Becky, we are moving forward with option C to provide and install the SS pipe, please still confirm this

Thank you,

Kevin Rahill
Project Manager
LFG Specialties
Capital Services
Direct: +1 419 424 4947
Main: +1 419 424 4999
kevin.rahill@CBI.com



CB&I
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Findlay, OH 45840-9761
USA
www.CBI.com/lfgspecialties



From: Omar Smith [mailto:osmith@s2li.com]
Sent: Thursday, September 22, 2016 8:16 AM
To: Rahill, Kevin
Cc: Benedetti, Shawn; 'Rick Wilson'; 'Becky Bray'; 'Edward Diden'
Subject: RE: West Nassau Landfill Flare Station Blower System Replacement - Substantial Completion

Kevin:

The County is not available to have a meeting this morning. Can we have the meeting tomorrow morning at 9 am?

Omar

S2L, Incorporated

Office: 770-517-9759 • Fax: 770-517-9762 • Mobile: 770-330-1638

From: Rahill, Kevin [mailto:kevin.rahill@cbi.com]
Sent: Wednesday, September 21, 2016 6:05 PM
To: Omar Smith <osmith@s2li.com>
Cc: Benedetti, Shawn <shawn.benedetti@cbi.com>; Rick Wilson <rick@epicgroupllc.com>; Becky Bray <bbray@nassaucountyfl.com>
Subject: RE: West Nassau Landfill Flare Station Blower System Replacement - Substantial Completion

Omar,

In regards to the pipe material, we are proposing 3 options for LFG Specialties to:

- A. Provide a deduct of \$3,800.00 and leave the carbon steel pipe as is.
- B. Provide a deduct of \$1,800.00 and provide the stainless steel piping only which can be kept onsite to be installed by others if any issues arise with the carbon steel pipe.
- C. At no additional cost, provide the stainless steel pipe and one service technician to install the new pipe with minimal assistance from the onsite operator

We can schedule Jose to come back for two days to complete the punch list items including the air compressor regulating valve and the flare tip leak and to provide a demonstration of the VFD and be present for Rick's inspection. Would you be available for a conference call around 9am tomorrow morning? I will also begin to complete the form to request an extension on substantial completion which can be finalized following the call.

Thank you,

Kevin Rahill
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kevin.rahill@CBI.com



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From: Omar Smith [<mailto:osmith@s2li.com>]
Sent: Wednesday, September 21, 2016 4:01 PM
To: Rahill, Kevin
Cc: 'Rick Wilson'; 'Sam Levin'; 'Becky Bray'; 'Edward Diden'; 'Becky Diden'; 'Greg Brunson'
Subject: West Nassau Landfill Flare Station Blower System Replacement - Substantial Completion

Kevin:

Rick Wilson will need to conduct a substantial completion inspection. Rick requires a CBI representative on site for the inspection. Also, we need a demonstration of the VFD system in the present of the County and to test the system to ensure that the system controls are functioning correctly in case of a fault (e.g. loss of power, loss of flame, blower shutdown, etc.). All of this can be conducted on the same day.

There is an issue that still needs to be resolved concerning CBI's use of carbon steel pipe instead of the stainless steel pipe called out in the contract documents. At this point, the use of carbon steel piping has not been accepted by the County thus we cannot consider that the project is substantially completed until the pipe material issue is resolved and there are no other issues from the inspection and field tests. In addition, the contract time period for CBI to obtain substantial completion is this Friday (September 23, 2016) so that also needs to be addressed accordingly.

Please let me know if you want to have a conference call meeting to discuss the pipe material issue and contract time periods. We would like to come to a resolution on the pipe material before we conduct the substantial completion inspection so the County would not incur any additional cost for a re-inspection.

Rick Wilson is available for the substantial completion inspection a week from today (September 28th) or later.

Please let us know if you have any questions.

Omar Smith
S2L, Incorporated

Office: 770-517-9759 • Fax: 770-517-9762 • Mobile: 770-330-1638

From: Rahill, Kevin [<mailto:kevin.rahill@cbl.com>]

Sent: Wednesday, September 21, 2016 10:32 AM

To: Omar Smith <osmith@s2li.com>

Cc: Rick Willson <rick@epicgroupllc.com>; Sam Levin <SLevin@S2LI.com>; Becky Bray <bbray@nassaucountyfl.com>; Edward Diden <ediden@nassaucountyfl.com>; Becky Diden <bdiden@nassaucountyfl.com>; Greg Brunson <gbrunson@s2li.com>

Subject: RE: Nassau

Omar:

Our service technicians have substantially completed the scope of this project. The flare was up and running the afternoon of Friday September 16 after being taken offline the afternoon of Monday September 12 for a total of 4 days offline. The flare ran without faults over the weekend and while our technicians were onsite completing punch list items Monday and Tuesday of this week. As I understand we have the following punch list items remaining:

- Connect propane line. First Source Gas has been scheduled to make the connection on Tuesday 9/27. If Jose is required to be present for this, he currently has previous commitments scheduled for that week, though some schedule adjustment may be possible.
- Gas line leak near flare tip. Greg Brunson saw that some flame appeared to be licking out of the propane line near the tip, Jose believes that it likely due to a union that needs to be tightened. We can schedule a technician and a manlift to take care of this.
- Please see responses in red to your specific questions/comments below.

Please let me know if you have any other questions or comments. A return trip will be needed, we will review our technicians' availabilities and schedule as soon as possible.

Thank you,

Kevin Rahill
Project Manager
LFG Specialties
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kevin.rahill@CBI.com



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From: Omar Smith [mailto:osmith@s2li.com]
Sent: Thursday, September 15, 2016 3:29 PM
To: Rahill, Kevin
Cc: Rick Wilson; Sam Levin; Becky Bray; Edward Diden; Becky Diden; Greg Brunson
Subject: Re: Nassau

Kevin:

First, we need to make sure that the flare station up and running for the weekend. Jose told me that he started the shutdown late Monday and that he was not going to be here this weekend. I told him that it was a priority to have it up and running and that the flare station was not to be down for more than 5 days at a time.

Next: After a quick observation of the construction this afternoon while your technicians were off the job site, we noticed a few things:

1. We required that the trenches remained open when the piping (gas line and drain line) are installed. I also mentioned it to Jose yesterday. The drain line has been partially covered so we will need your crew to re-expose the piping and connections for inspection.
2. The trenches look like they are less than 12 inches deep based on our observation and not from any tape measurement.
Response to 1 and 2: trenching was reworked to ensure proper depth and grade were achieved.
3. The airline connection to the air compressor is not plumed and there appears to be no space for the required air regulator.
Omar and I discovered that I did not receive the final drawing set which included the air regulator detail (as well as contact information for Florida Public Utilities for propane connection). We will provide and install the regulator on the return trip.
4. The drain line from the flare is not layout per plan Drawing M-1. We were not notified of the change or allowed to inspect the layout and connections before it was covered.
5. The fabricated blower piping called out on drawing M-2 Note 2.4 does not appear to be stainless steel. We need to know why CBI changed the material and will need a substitution request form filled out. We also did not see any request as part of the submitted shop drawings. We also need to know if the substituted material meets the long term operational requirements that the stainless steel provides. Also, we would assume the other bidders on the project priced out stainless steel.
The change in landfill gas piping material was an oversight on our part and I apologize for the mistake. I have reviewed past documentation we have of the site conditions, 30-60% CH₄ with remainder CO₂, air, and inerts, and I can verify that the provided carbon steel piping will meet long term operational requirements. We have successfully used carbon steel landfill gas piping in many blower and flare systems under similar conditions without issue. If there are any changes from these described conditions, please let me know and we will review and advise.

On another matter, I'm still waiting for your proposal to install the rental meter.
The proposal will be submitted by this afternoon.

Let me know if you have any questions.

Omar
S2L, Incorporated
Office: 770-517-9759 • Fax: 770-517-9762 • Mobile: 770-330-1638

From: "Rahill, Kevin" <kevin.rahill@cbi.com>
Date: Thursday, September 15, 2016 at 12:56 PM

To: Omar Smith <osmith@s2li.com>

Subject: RE: Nassau

Omar,

Spoke with Jose today and they are making good progress. He said that you have the contact information for the gas company to come to make the connection to the propane tank? Can you please provide that so I can schedule them to come tomorrow sometime after 10am?

Thank you,
Kevin

From: Omar Smith [<mailto:osmith@s2li.com>]

Sent: Wednesday, September 14, 2016 11:48 AM

To: Rahill, Kevin

Subject: Nassau

Kevin. I will be heading to the site this afternoon and wanted to know what is the status of your technicians due to yesterday's weather conditions?

Omar Smith

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From: Omar Smith <osmith@s2li.com>
Sent: Friday, September 09, 2016 9:41 AM
To: 'Rahill, Kevin'; Edward Diden; Becky Diden; Becky Bray
Cc: 'Benedetti, Shawn'; 'Keckler, Russell'; 'Rick Wilson'; 'Sam Levin'; 'Greg Brunson'
Subject: RE: Nassau County Blower Replacement Project

Flag for follow up
Completed

Yes on the proposal approach.

Omar

S2L, Incorporated

Office: 770-517-9759 • Fax: 770-517-9762 • Mobile: 770-330-1638

From: Rahill, Kevin [mailto:kevin.rahill@cbi.com]
Sent: Friday, September 9, 2016 9:38 AM
To: Omar Smith <osmith@s2li.com>; 'Edward Diden' <ediden@nassaucountyfl.com>; 'Becky Diden-Nassau County' <bdiden@nassaucountyfl.com>; 'Becky Bray' <bbray@nassaucountyfl.com>
Cc: Benedetti, Shawn <shawn.benedetti@cbl.com>; Keckler, Russell <Russell.Keckler@cbl.com>; 'Rick Wilson' <rick@epicgroupllc.com>; 'Sam Levin' <Slevln@S2LI.com>; 'Greg Brunson' <gbrunson@s2li.com>
Subject: RE: Nassau County Blower Replacement Project

Omar,

Please find attached the change order request form for the no cost time extension.

To be clear on the flow meter swap, you would like a new and separate proposal for the scope of removing the existing and installing the rental meter during the mobilization of the blower replacement project and then removing the rental and installing and verifying the re-calibrated meter on another mobilization, correct?

Thank you,

Kevin Rahill
Project Manager
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Weather History for KJAX - September, 2016

From:

September

18

2016

To:

September

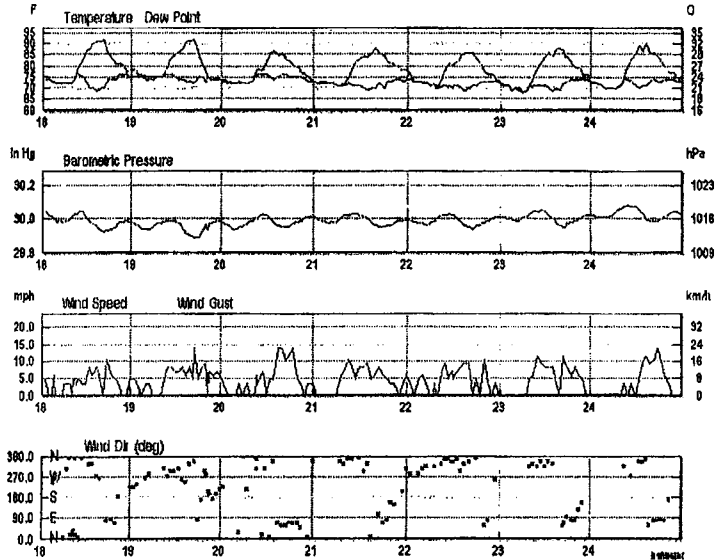
24

2016

Get History

Daily	Weekly	Monthly	Custom				
				Max	Avg	Min	Sum
Temperature							
Max Temperature				92 °F	90 °F	87 °F	
Mean Temperature				83 °F	81 °F	79 °F	
Min Temperature				74 °F	71 °F	67 °F	
Degree Days							
Heating Degree Days (base 65)				0	0	0	0
Cooling Degree Days (base 65)				18	16	14	109
Growing Degree Days (base 50)				32	30	28	211
Dew Point							
Dew Point				77 °F	72 °F	68 °F	
Precipitation							
Precipitation				0.33 in	0.06 in	0.00 in	0.33 in
Snowdepth				0.0 in	0.0 in	0.0 in	-
Wind							
Wind				17 mph	4 mph	0 mph	
Gust Wind				27 mph	-	-	
Sea Level Pressure							
Sea Level Pressure				30.08 in	29.99 in	29.89 in	

Custom Weather History Graph



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Trip Planner

Search our weather history database for the weather conditions in past years. The results will help you decide how hot, cold, wet, or windy it might be!

Date:

September

18

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Weather History & Observations

2016	Temp. (°F)			Dew Point (°F)			Humidity (%)			Sea Level Press. (in)			Visibility (mi)			Wind (mph)			Precip. (in)	Events
	high	avg	low	high	avg	low	high	avg	low	high	avg	low	high	avg	low	high	avg	high	sum	
18	92	82	72	77	73	69	100	75	49	30.04	29.99	29.92	10	6	0	12	3	14	0.00	Fog
19	92	83	74	76	74	72	100	78	56	29.99	29.95	29.89	10	9	2	16	6	27	0.33	Rain, Thunderstorm
20	89	81	72	76	74	72	100	82	63	30.03	29.98	29.94	10	10	10	17	4	20	0.00	
21	89	80	71	74	72	69	100	78	58	30.03	29.99	29.95	10	10	9	13	5	17	0.00	
22	87	79	71	74	71	69	100	79	57	30.03	29.99	29.94	10	10	10	14	4	19	0.00	
23	90	79	67	74	71	68	100	78	65	30.05	30.00	29.95	10	10	9	16	4	20	0.00	
24	90	80	70	74	72	70	100	76	52	30.08	30.03	29.99	10	9	6	15	4	18	0.00	

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