

**CITY OF CORPUS CHRISTI  
ENGINEERING SERVICES  
CHANGE ORDER**



<b>CHANGE ORDER NO:</b> 2	<b>CHANGE ORDER DATE:</b> 12/11/2018
<b>PROJECT:</b> Oso Water Reclamation Plant Headworks & Lift Station	<b>PROJECT NUMBER:</b> E12206
<b>CONTRACTOR:</b> CSA Construction, Inc.	<b>ORIGINAL CONTRACT TIME:</b> 730 CD's
<b>ENGINEER:</b> LNV Engineering	

**Make the following additions, modifications or deletions to the work described in the Contract Documents:**

ADDITIONS	Quantity	Unit	Unit Price	Total
1 HRM Environmental - Bar Screen - Vulcan Stair Screen to a Multi-Rake Screen	1	LS	\$ 298,102.00	\$ 298,102.00
2 SCI/Cummins - Generator Repairs	1	LS	\$ 105,818.00	\$ 105,818.00

Additional Calendar Days requested 30

**NET TOTAL OF THIS CHANGE ORDER: \$ 403,920.00**

**Why was this Change necessary:**

This change order provides for urgently needed upgrade of the Bar Screens and required improvements for the 2 power generators to be relocated to the Oso Wastewater Treatment Plant (WWTP). This work must be included to the ongoing Oso Water Reclamation Plant Headworks and Lift Station construction project since these are items already included in the contract and require modifications.

*The compensation agreed upon in this Change Order is full, complete and final payment for all costs the Contractor may incur as a result of or relating to this change whether said costs are known, unknown, foreseen or unforeseen at this time, including without limitation, any cost for delay, extended overhead, ripple or impact cost, or any other effect on changed or unchanged work as a result of this Change Order.*

Original Contract Amount	\$ 22,865,540.00
Previously Approved Change Order Amount	\$ 381,427.00
Proposed Change Order Amount	\$ 403,920.00
Revised Contract Amount	\$ 23,650,887.00
Percent of Total Change Orders (including this CO)	3.43%
Original Contract Time for Substantial Completion	730 CD's
Notice to Proceed Date	3/5/2018
Original Substantial Completion Date	3/4/2020
Previously Approved Change Order Time	90 CD's
Additional Time on This Change Order	30 CD's
Revised Contract Time for Substantial Completion	850 CD's
Revised Substantial Completion Date	7/2/2020

**REVIEWED BY: LNV Engineering**

**REQUESTED BY: CSA Construction, Inc.**

n/a  
\_\_\_\_\_  
Engineer Date

\_\_\_\_\_  
George Craig Date  
Project Manager

**CITY OF CORPUS CHRISTI**

**RECOMMENDED BY:**   
\_\_\_\_\_  
**Kent Power, P.E.** Date  
Acting Construction Engineer

**FUND: 4252-042  
ACCOUNT: 550910  
ACTIVITY: E12206-01-4252-EXP**

**RECOMMENDED BY:** \_\_\_\_\_  
**Jeffrey Edmonds, P.E.** Date  
Director of Engineering Services

**APPROVED BY:** \_\_\_\_\_  
**Valerie H. Gray, P.E.** Date  
Executive Director of Public Works

**RECOMMENDED BY:** \_\_\_\_\_  
**Eddie Houlihan, Director** Date  
Management and Budget

**APPROVED BY:** \_\_\_\_\_  
**Mark Van Vleck, P.E.** Date  
Assistant City Manager

**RECOMMENDED BY:** \_\_\_\_\_  
**Janet Whitehead** Date  
City Attorney

**APPROVED BY:** \_\_\_\_\_  
**Keith Selman** Date  
Interim City Manager



## **CSA Construction, Inc. / General Contractors**

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713/686-8868 Phone  
713/686-8889 Fax

2314 McAllister Road  
Houston, Texas 77092

Project: Oso Water Reclamation Plant Headworks & Lift Station  
Owner: City of Corpus Christi, Texas  
Owner's Project #: E12206  
Engineer: LNV, Inc.  
Contractor: CSA Construction, Inc.  
Contractor Project #: 1801  
Prepared By: George Craig

Date: November 9, 2018

Change Order: Bar Screen Changes

Please see the attached pricing sheet.

### **Clarifications**

1. **Please reference the scope of changes from the manufacturer included in this proposal.**
2. **CSA assumes the below items WILL NOT change as a result of this:**
  - a. **Channel Width or Depth**
  - b. **The Vulcan washer/compactor**
  - c. **The KWS screenings discharge hopper**
  - d. **Any electrical or controls (exception of Vulcan's control panel)**
  - e. **Should we find that these items may require changes, we will request additional costs if needed.**
3. **CSA requests an additional 30 days for this change due to the critical nature and timing of this change.**
4. **Due to the timing of this change, we must have an answer on this change as soon as possible in order to begin the resubmittal phase and production phase in a timely manner.**

**Total Cost: \$298,101.00**

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**SUBTOTAL**

### DIRECT JOB COSTS

LABOR BURDEN	40.00%		0	
SALES TAX	8.25%		0	
BLDRS. RISK	1 months	0.0100%	30	
OWNERS LIABILITY INSURANCE			0	NO
BUILDING PERMIT	0.00%		0	NONE
TX WIN			0	NO
BOND	1.00	5,472	5,472	
2 YEAR MAINTENANCE BOND			0	NO
2 YEAR WARRANTY	0.00%		0	NO
WARRANTY START @ FINAL	0.00%		0	NO

**SUBTOTAL**

**271,001**

OH&P	10.00%	27,100
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**SUBTOTAL**

**298,101**

**TOTAL**

**298,101**

## COMMENTS

1. CSA ASSUMES NO CHANGES TO THE WASHER/COMPACTOR IN THIS CHANGE.
2. CSA ASSUMES NO CHANGES TO TO THE SCREENINGS COLLECTOR IN THIS CHANGE.
3. CSA ASSUMES NO CHANGES TO CHANNEL WIDTH OR DEPTH IN THIS CHANGE.
4. CSA ASSUMES NO CHANGES TO ELECTRICAL OR CONTROLS (EXECEPTION OF VULCAN'S PANEL)
5. IF ANY OF THE ABOVE REQUIRES CHANGES. IT WILL BE SUBJECT TO ADDITIONAL COSTS

## George Craig

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**From:** Scott Hawkins <scott@hrmenv.com>  
**Sent:** Friday, November 09, 2018 12:40 PM  
**To:** George Craig  
**Subject:** OSO Vulcan Screen Change

George:

I do not know if LNV has asked you for pricing to change the current Vulcan stair screen to a multi rake screen. Vulcan provided the following information.

In reference to the our earlier conversations, the ESR 34/1113/6 stair screens and EWP 250/1200 washing presses that were ordered by CSA Construction for this project have been fabricated. The control panels were in progress, however we have stopped production at this point pending a decision on whether the Owner decides to stay with the ESR screens, or change to VMR multi-rake bar screens.

The additional amount needed to supply four (4) new VMR-54 multi-rake bar screens with ¼" bar spacing, type 316 stainless steel construction to fit the same channels as the ESR screens is **\$265,500.00**. This would include the required changes in the control panels to add variable frequency drives in place if the non-reversing starters, as well as making programming changes that will be required to provide the necessary functionality of the VMR screens. We assume that we would need to provide shop drawings for approval. This would take about 3-4 weeks after notice to proceed. Once approval is received, we would require approximately 16 weeks for production before shipment could occur.

I have informed LNV that any pricing for the screen change would need to come through your office and that you would need to be notified that they are interested in pricing the multi rake screen in lieu of the specified stair screen.

Let me know if you need any additional information.

Scott Hawkins  
**HRM Environmental LLC**  
Water and Waste Water Process Equipment  
281-343-1993  
281-923-2023 (cell)

[illegible]

## GENERAL SUMMARY

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**93,600**

## 0

0

11

**0 NO**

**0 NONE**

**0 NO**

**2,587**

**0 NO**

**0 NO**

**0 NO**

**96,198**

**9,620**

**105,818**

**105,818**

\_\_\_\_\_



**System Control & Instrumentation**  
5404 FM 1044 New Braunfels, TX 78130  
830-420-3392 (Office) 830-420-3395 (Fax)

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## PROPOSAL

**SUBMITTED TO:** CSA Construction, Inc.  
2314 McAllister Road  
Houston, TX 77092

**CONTACT:** George Craig  
**PHONE:** \_\_\_\_\_  
**FAX:** \_\_\_\_\_

**PROJECT NAME:** OSO

**Change Order 002** Generator Additional Parts by Cummins

**SCOPE OF WORK:** Additional generator parts to be provided by Cummins as identified in the Generator Submittal 26 05 01.01A Review Comments and as provided in the Cummins quote, including all conditions.

**TOTAL            \$93,600.05**

**EXCLUSIONS:** 1. Sales tax.  
2. Any other materials or equipment not specifically listed on this Proposal

**NOTE:** This offer results from items identified in the Generator Submittal Review Comments. Further determinations or changes to the quantities contained in this document could result in changes to the value of the offer.

This Proposal may expire in 30 days or upon written retraction by SCI.

If you have any questions regarding this Proposal, please give me a call.

**SUBMITTED BY:** System Control & Instrumentation, LLC

Dennis Trammell  
Project Manager

11/5/2018  
Date

**System Controls & Instrumentation, Ltd.**

5404 FM 1044

New Braunfels, TX 78130

Generator Additional Parts by Cummins

PAGE 1

Phone: (830) 420-3392 Fax: (830) 420-3395

Description	Ref	Ref Amount	Op	Rate	Amount
Material Total=	Mat Total	0.00	x	1.00	0.00
Instrumentation & Controls	Mat Total	79,450.00	x	1.00	79,450.00
<b>Subtotal</b>					
Misc. Expenses=					
Lodging	Calc/Days		x	100.00	0.00
Meals	Calc/Days		x	45.00	0.00
Shipping Costs					0.00
Submittals & O&M Manuals	Calc	0.00	x	33.00	0.00
Testing	Calc	0.00	x	45.00	0.00
Training	Calc	0.00	x	45.00	0.00
Drawings	Calc	0.00	x	33.00	0.00
Purchase Agent	Calc	0.00	x	40.00	0.00
Procurement	Calc	0.00	x	20.00	0.00
Project Manager	Calc	0.00	x	95.00	0.00
<b>Subtotal</b>					
Direct Labor=					
Electrician	Lab Total	0.00	x	45.00	0.00
Instrument Tech	Lab Total	0.00	x	45.00	0.00
Superintendent	Calc	0.00	x	65.00	0.00
Instrument tech	Lab Total	0.00	x	75.00	0.00
Programmer	Calc	0.00	x	90.00	0.00
Estimator	Calc	0.00	x	60.00	0.00
	Hrs. Total	0.00			
<b>Subtotal</b>					
Direct Job Exp= Labor Burden	Labor Total	0.00	%	35.00	0.00
Labor Adjustment, Elevated Work 10'-20'					0.00
Equipment - Boom Lift					0.00
Equipment Fuel					0.00
Tools Expendable	Mat + Labor Total	0.00	%	0.00	0.00
Procurement Vehicle Fuel	25.00 per day	0.00		25.00	0.00
Procurement Truck Expence	35 per day	0.00		35.00	0.00
Electrician/Supervisor/IC Tech Vehicle Fuel	25.00 per day	0.00		25.00	0.00
Electrician/Supervisor/IC Tech Truck Expence	35 per day	0.00		35.00	0.00
Programmer Vehicle Fuel	25.00 per day	0.00		25.00	0.00
Programmer Truck Expence	35 per day	0.00		35.00	0.00
<b>Subtotal</b>					
Liability & Builders Risk Insurance		79,450.00	%	2.00	<u>1,589.00</u> 81,039.00
<b>Job Subtotal</b>					
OVERHEAD	Job Subtotal	81,039.00	%	10.00	<u>8,103.90</u> 89,142.90
<b>Job Total</b>					
PROFIT	Job Subtotal	89,142.90	%	5.00	<u>4,457.15</u> 93,600.05
JOB TOTAL + PROFIT					
<b>Job Subtotal</b>					
Payment & Performance Bond	Job Total	93,600.05	%	0.00	0.00
<b>BID TOTAL</b>					<b>\$93,600.05</b>

## System Controls &amp; Instrumentation

5404 FM 1044

New Braunfels, TX 78130

Generator Additional Parts by Cummins

Page 3

Item		QTY	Material Unit	Material Adj	Material Extended	Labor Unit	Labor Adj	Labor Extended
Cummins Quote		1	\$79,450.00	1.00	\$79,450.00	0.000	1.00	0.00
				1.00	\$0.00	0.000	1.00	0.00
				1.00	\$0.00	0.000	1.00	0.00
				1.00	\$0.00	0.000	1.00	0.00
				1.00	\$0.00	0.000	1.00	0.00
				1.00	\$0.00	0.000	1.00	0.00

Total Materials:

\$79,450.00

Total Labor:

0.00



November 5, 2018

**RE: OSO WWTP – CO1**

**CO1**

Thank you for allowing Cummins Sales and Service to provide a proposal for this project. Below you will find a summary with pricing. If there are any questions please don't hesitate to call.

**Equipment:**

- |   |                    |
|---|--------------------|
| 1. 1ea PJP36120CU43A R□Frame 1200AF/1200AT 100% Rated, MicroLogic 5.0A LSI Trip   |                    |
| 2. 2ea PJP36120CU63AE1 R□Frame 1200AF/1200AT 100% Rated, MicroLogic 5.0P LSI Trip |                    |
| 3. 1ea RJF36160CU31A R□Frame 1600AF/1600AT 100% Rated, MicroLogic 3.0 LI Trip     |                    |
| 4. 1LT Services Installation Straight Time (M□F 8am □5pm) Single Mobilization     |                    |
| 5. Breaker Removal  | <b>\$73,420.00</b> |
| 6. Alternator Heater Swap Out   | <b>\$2,250.00</b>  |
| 7. Generator Display Change Out   | <b>\$3,780.00</b>  |

**CO1 Total: \$79,450.00**

Thank you for considering Cummins Power Generation products. We appreciate the opportunity to work with you on this project. If any additional information or assistance is desired, please do not hesitate to contact me.

Thank you,  
Parker Hutchins  
Power Systems Representative  
Cummins Southern Plains, LLC  
(210) 287-3246 direct  
Joseph.birdsall@cummins.com

**From:** [Logan Burton](#)  
**To:** [Danny Cohea](#); [Kent Power](#)  
**Cc:** [Kate Nartey-Quaye](#); [Dante Leal](#); [Amie Wojtasczyk](#); [Juan Salazar](#); [Victor Vargas \[Engineering\]](#); [JR Lopez](#); [John Byrum](#)  
**Subject:** RE: E12206-Oso WRP Headworks & Lift Station-Bar Screen Change Order  
**Date:** Monday, November 12, 2018 9:47:32 AM  
**Attachments:** [Change Order Bar Screen.pdf](#)

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Good morning Danny, Kent and Team,

This proposed change order on the bar screens at Oso WRP has been prepared and submitted based on a request by the operating dept.

To provide some background information, the proposed bar screens for this project were specified based on the City's goal of standardizing around the step/stair screen style that had previously been installed at other City WWTPs. However, the operating dept has had some significant O&M trouble with these screens and in fact, experienced major damage to one of them during a recent storm event. The operating dept asked LNV to consider an alternative screen technology (multi-rake style) and to coordinate with CSA to get pricing information for the City's consideration. Please be aware that the step screen submittal for this project was approved in June and the screens have already been manufactured.

LNv has reviewed this PCO and based on the scope of work, believes it to be fair pricing as it only includes \$265K for the materials and a 10% OH&P markup and 30 additional calendar days. CSA is not charging for any other items.

If you have any questions, please let me know.

**Thank You,**

**Logan Burton, P.E.**  
Vice President

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## **LNv**

engineers | architects | surveyors

801 Navigation Blvd, Suite 300  
Corpus Christi, Texas 78408  
P 361-883-1984 F 361-883-1986  
C 361-876-0673  
[www.LNVINC.com](http://www.LNVINC.com)

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**From:** George Craig <gcraig@csaconstruction.com>

**Sent:** Monday, November 12, 2018 8:07 AM

**To:** dannyc@cctexas.com; juansa@cctexas.com; kentp@cctexas.com; AmieW@cctexas.com; VictorV2@cctexas.com; 'JR Lopez' <JRLopez@cctexas.com>; Kate Nartey-Quaye <katenq@lnvinc.com>; Logan Burton <loganb@lnvinc.com>; Dante Leal <dleal@lnvinc.com>; 'Cliff Craig' <ccraig@csaconstruction.com>

**Subject:** E12206-Oso WRP Headworks & Lift Station-Bar Screen Change Order

Good Morning,

Please see attached change order for the Oso WRP Headworks & Lift Station Project.

Please provide a response as soon as possible please.

Thank you,

George Craig  
**CSA Construction, Inc.**

**General Contractors**

713-686-8868/Phone

713-686-8889/Fax

713-204-0628/Mobile

[gcraig@csaconstruction.com](mailto:gcraig@csaconstruction.com)

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engineers | architects | surveyors

**SUBMITTAL REVIEW**

<b>PROJECT:</b>	Oso WRP Headworks and Lift Station Improvements	<b>Project No:</b>	E12206
<b>OWNER:</b>	City of Corpus Christi, TX		
<b>CONTRACTOR:</b>	CSA Construction, Inc.		
<b>ENGINEER:</b>	LNV, Inc. in association with Jacobs		
<b>REFERENCE DATA</b>			
CSA TransmittalSD-26 05 01-01A (Rsubmittal From CSA/Cummings In an Email Dated 9/24/2018)			
Electrical		Description: Generators	
<p><i>Approval of these drawings/submittals is for general conformance with the design concept. The contractor is responsible for all dimensions, quantities, sizes and performance in accordance with the project contract documents.</i></p> <p>Michael L Molinari, P.E. Date: 9/26/2018</p>			
<b>DATE RECEIVED:</b> 9/24/2018		<b>DATE RETURNED:</b> 9/27/2018	
<b>STATUS</b>			
<input type="checkbox"/> Approved	<input type="checkbox"/> Revise and Resubmit		
<input checked="" type="checkbox"/> Approved as Corrected	<input checked="" type="checkbox"/> Additional Information Required		
<input type="checkbox"/> Not Approved	<input checked="" type="checkbox"/> See Review Comments		
<b>COMMENTS</b>			
Generators as submitted on revised quote from Cummins to Engineer in an email dated 9/24/2018 are acceptable with the following additions:			
1. Per the Cummins Test reports the alternator heater #1 failed and alternator #2 was inconsistent. Recommend replacement of both heaters.			
2. Gen#2 display showed burned discoloration. Recommend replacement of display.			
3. Gen #1 Annunciator Failed Resolved in revised quote supply of materials.			
4. Breakers are in need of reconditioning on both units. Recommend replacement of breakers rather than reconditioning.			
Provide quote for replacing alternator heater #1 failed and alternator #2, the burned display on Gen #2, and the breakers.			
Revised quote appears to have Gen #2 drawings inseterted twice.			
Pages 100 thru 105 appear to be same as pages 63 thru 68.			
Unless otherwise notified, pages 100 thru 105 will be considered redundant. Contractor please confirm.			
<b>"Additional Comments Provided on Next Page from Jennifer Scheffler"</b>			

**SUBMITTAL REVIEW**

<b>PROJECT:</b>	Oso WRP Headworks and Lift Station Improvements	<b>Project No:</b>	E12206
<b>OWNER:</b>	City of Corpus Christi, TX		
<b>CONTRACTOR:</b>	CSA Construction, Inc.		
<b>ENGINEER:</b>	LNV, Inc. in association with Jacobs		
<b>REFERENCE DATA</b>			
CSA TransmittalSD-26 05 01-01A (Rsubmittal From CSA/Cummings In an Email Dated 9/24/2018)			
Structural		Description: Generators	
<p><i>Approval of these drawings/submittals is for general conformance with the design concept. The contractor is responsible for all dimensions, quantities, sizes and performance in accordance with the project contract documents.</i></p> <p>Jennifer Scheffler, P.E. Date: 9/26/2018</p>			
<b>DATE RECEIVED: 9/24/2018</b>		<b>DATE RETURNED: 9/27/2018</b>	
<b>STATUS</b>			
<input checked="" type="checkbox"/> Approved	<input type="checkbox"/> Revise and Resubmit		
<input type="checkbox"/> Approved as Corrected	<input type="checkbox"/> Additional Information Required		
<input type="checkbox"/> Not Approved	<input type="checkbox"/> See Review Comments		
<b>COMMENTS</b>			
1. Review of generator submittal from Cummins to Engineer in an email dated 9/24/2018			
2. The submittal was reviewed for generator foundations approval as shown sheet #94.			
3. Generator, subbase fuel tank, and enclosure assembly should be centered on the foundation to maintain the minimum edge clearance for the Hilti expansion anchors anchoring the assembly to the foundation			