Change Order

No. __9 REV. 1a____

	Date of Issuance:	February 25, 2015	and the state of t	Effective Date:				
	Project: NBWWTP	Омт	ner: City of Corpus Chris	ti	Owner's Contract No.: 72	293		
	Contract: New Broadw	vay Wastewater Treatment Pla	ant Construction		Date of Contract: Janua	ary 25, 2010		
	Contractor: Graham C	onstruction			Engineer's Project No.: 7	7648C.20		
		ments are modified as follow						
		nge Order is issued to include						
		ontract and to be performed by						
		nge Directives and PCOs as li						
		ocuments supporting change)						
		Directives 12 and 15, PCOs 8						
		X7, X9, X10, X11, and X12 inc		amounts.				
	Also attached are co	ntractor's supporting documer	nts.					
		IN CONTRACT PRICE:			ONTRACT TIMES:			
	Original Contract Price	ce:		t Times: [] [More completion (days or	ing days X Caler	ndar days n 2: 200		
	\$ 50,456,230.0	00	Ready for fina	al payment (days or	: Ph 1: 900 Ph	2: 260		
		from previously approved Cl to No8	: No1	to No8	sly approved Change : h 1: 159 Ph 2: -14_			
	\$ 279,191.21_	/			Ph 1: 159 Ph 2: -1			
	Contract Price prior t	to this Change Order:		prior to this Change empletion (days or	Order: Ph 1: 999 Ph :	2: 186		
	\$ 50,735,421.	21_/	Ready for fina	al payment (days or	eate): Ph 1: 1059 F	Ph 2: 246		
	[Increase] [Decrease) of this Change Order:	The second secon	ease] of this Chang ompletion (days or	e Order: Ph 1: NA Ph:	2: NA		
	\$ 668,515.36_	/	Ready for fina	al payment (days or	Ph 1: NA PI	h 2: NA		
2069K	Contract Price incorp	porating this Change Order:		with all approved Completion (days or	hange Orders:	2: 186		
/	\$ 51,403,936.5	57	Ready for fina	al payment (days or	Ph 1: 1059	Ph 2: 246		
	RECOMMENDED: By:	ACCEPTION STREET	Owner (Authorized Signaturactor, Capita)	On By	COntractor (Authorized	Pheland Signature)	1	
	Date: 2/25	//5 Date:_	- (ora) capital	Date	3-3-15			U 12
	Approved by Funding A	gency (if applicable) 72 H	rulihan	5-22-15 Date	Thulp	T. Boo	Re	5/1/18
		002 Edition) neers' Joint Contract Documen ontractors of America and the			<i></i>			
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	5-7-	15) 1	4249-042			and I W House	
(Legal) gunt	- ZKellozz	5-1215	550910 1901300142	49EXP	MAY 0	1 2015	
		(Legal)		50910			61	

Change Order Status	Description	Amount	Paid to Date	Remaining	Status
Change Directive 12	Area 55 (SDB)- Add light fixture, relocate additional light fixture.	\$6,788.82	\$0.00	\$6,788.82	Carollo requested a Cost Proposal to add the following work to the contract in Area 55 (SDB). 1- Relocate one light in the area of the jib crane (Sheet 55-M-04, Section D). 2-Provide an additional wall mounted light. PCM 44.
Change Directive 15	Areas 22 and 56-Seal top of filter room walls.	\$7,004.38	\$0.00	\$7,004.38	Carollo requested a Cost Proposal to add the following work to the contract in Areas 22 (ECR-1) and 56 (ECR-2). Provide 3M Brand Fire Barrier Sealant FireDam 150+ Caulk at the top of the filter room walls to close the air gap. PCM 45.
PCO 81	Admin Bldg Steel	\$16,021.65	\$0.00	\$16,021.65	This is regarding the steel panels for the Administration Building northeast stairway tower. Drawing 61-S-07 Section 19 calls for 20 GA. Galvalume R-Panel at the Admin Stair Tower roof. Specification 07411, 2.06 Metal Roof Panels specifies 22GA. Standing Seam panels. Carollo sub LNV advised Graham to use 22GA standing seam panels with a new screw pattern and addition of wall studs for attachment. RFI 246.
PCO 84	Relocate ECR-1 Blower Disconnects	\$4,582.16			The CM team, contractor, and City Operations personnel met on site at ECR-1 to discuss the placement of the blower disconnects and equipment stands at ECR-1. The group agreed to relocate disconnects and equipment stands to the opposite side of each blower. PCM 84.
PCO 85	UT Level Xdcr Analog Signal	\$6,063.57	\$0.00	\$6,063.57	The ultrasonic level sensors in the UV structure require a 24VDC power source to send an analog signal back to the controller. The 24 volt power was included on the conduit schedule but the analog signal was not. A two-wire shielded cable was added to the power supply for correct operation.
PCO 86	Add Coating at SDB Polymer Containment	\$11,387.85	\$0.00	\$11,387.85	The drawings did not detail all locations for the protective coating in the polymer handling areas. The intent was for the coating to be under locations with possibility of polymer spills. Unistrut containment bars were also added to keep the polymer from getting to areas outside of the collection trench.
PCO 88	PCM 48 (PCO 88) Fire Suppression Coring @ Admin	\$29,361.20	\$0.00	\$29,361.20	Carollo requested a cost proposal to install a dry pipe fire suppression system in the garage area and identify impacts to the fire suppression system. The objective was to reduce ongoing maintenance issues for a wet pipe system in that environment. RFI 312.
PCO 89	ECR 1 30 Inch Spool Pieces	\$9,906.94	\$0.00		Purchase of spool pieces to install in the 30 inch air pipe at ECR 1 in lieu of expansions joints.
PCO 90A	Electrical reroute @ Admin Bldg	\$103,771.60		\$103,771.60	Move the electrical conduits in the parking area due to height restrictions. All

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2/24/2015

	Drain Line reroute and				Drain line reroute to avoid conflict with fire suppression system. Carollo sub
PCO 90B	cores @ Admin Bldg	\$17,882.07	\$0.00	¢17 992 07	LNV requested a cost proposal for coring and rerouting of pipes to avoid conflict with the fire suppression system. RFI 301.
PCO 91	42" Tie In	\$125,000.01	·	\$125,000.01	Graham started work but was requested to not complete it. Includes sunk costs to date for pipe fab and fittings, shoring and trench box rental, rental of excavator, excavation, rental of crane, etc. Change Directive 21.
100 51	42 He III	\$125,000.01	\$0.00	\$123,000.01	Power to the roll up doors at the SDB and the headworks was not included in
PCO 92	Motorized Overhead Doors SDB/HW	\$27,717.69	\$0.00	\$27,717.69	the drawings. Carollo sub Mike Colwell reply gave routing and circuit connection instructions. RFI 385.
PCO X1	ATS Mods in ECR-1 for Generator	\$55,000.23	\$0.00	\$55,000.23	This is for additional programming and modifications to the automatic transfer switch in ECR-1 to provide greater exercising functionality. These changes were provided by Carollo sub Mike Colwell in the March/April 2014 time frame.
PCO X2	Generator Switchgear Communications	\$15,000.14	\$0.00	\$15,000.14	This is to add additional communications in the generator/switchgear interface regarding parameters for auto switch over. In the March/April 2014 meetings on the generator changes related to PCO-X1, including Carollo sub Mike Colwell, it was determined this additional connection was required.
PCO X3	ECR-1 Stair Landing Design	\$5,000.67	\$0.00	\$5,000.67	There was a mismatch between the NW stair final landing and the achievable drive elevation to meet drainage requirements. Carollo advised via email that a step be constructed using standard details.
PCO X4	SCADA Programming Changes	\$55,000.28	\$0.00		Changes to the SCADA programming beyond those originally identified during the configuration meetings and witnessed FAT testing in December 2012 and January 2013.
PCO X5	SCADA Relocation	\$15,000.50	\$0.00	\$15,000.50	Relocation of SCADA from the temporary location in the old plant to the Administration Building.
PCO X6	Plant Power Cost during Construction	\$40,000.43	\$0.00	\$40,000.43	This is to cover energy costs during the operating phase of the construction. The owner is responsible for power costs for the start up and commissioning phases. Specification 01110 Section 1.08E.
PCO X7	:Admin Bldg Parking :Fire Alarm	\$30,000.57	\$0.00	\$30,000.57	The RFI requested CAD drawings for the parking garage area as it was beyond the original scope and the fire marshal was requiring annunciators in the garage. Carollo said the system needed to conform to code requirements and was the responsibility of the fire system engineer. RFI 393.

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Attachment to Change Order 9 Rev 1 Listing Applicable PCOs and Descriptions 02-24-15.xlsx

PCO X9	RAS Spool Mods	\$7,475.11	\$0.00		There was a bust in the coordinates of the pipe going from the Ameron to the pump station. This resulted in about a 6' change to the connecting pipe. Field discussions took place between Graham and Carollo at time of occurrence.
PCO X10	SS Pole Brackets	\$6,844.15	\$0.00	\$6,844.15	This is regarding the attachment of light standards on gratings. Carollo stated it would be covered in a change directive. RFI 372.
PCO X11	ECR-1 Deck Drains	\$14,968.27	\$0.00		In response to standing rain water on the west deck of ECR-1, Carollo requested installation of deck drains with detailed instructions on how to install the drains. RFI 370.
PCO X12	Baker Pump Rental	\$58,737.07	\$0.00	\$58,737.07	This is for the temporary pumping of the effluent from the UV in the new plant to the inlet for the headworks at the old plant during initial startup.
Totals		\$668,515.36	\$0.00	\$668,515.36	

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Change Directive 12 Area 55 (SDB)- Add light fixture, relocate light fixture.

Carollo requested a Cost Proposal to add the following work to the contract in Area 55 (SDB). 1-Relocate one light in the area of the jib crane (Sheet 55-M-04, Section D). 2-Provide an additional wall mounted light. PCM 44.



4055 International Plaza, Suite 200 * Fort Worth, Texas 76109 * 817-735-7300 * fax 817-735-7491

Owner:	City of Corpus Christi	Date:	9/9/13	
Contractor:	Graham Construction	PCM No:	44	
Project Name:	New Broadway WWTP Project	Ref:	CD-12	
Engineer/CM:	Carollo / Freese and Nichols			
PCM Title:	Add and relocate light fixture in area 55			

PCM Description:

On January 17, 2013, Carollo Engineers requested that Graham Construction provide a Cost Proposal to add the following work to the contract in Area 55 (Sludge Dewatering Building):

- 1. Relocate the currently installed light in the location of the jib crane (Sheet 55-M-04, Section D) to allow for future installation of the crane. The light should be moved to the left of the column (mounted on the wall) in line and same height with the column mounted light directly to the north.
- 2. Provide an additional wall mounted light to the right of the column (mounted on the wall) in line and same height with the column mounted light directly to the north.

The Contractor's cost proposal has been reviewed by the CM Team and Owner. Reference the cost summary below and attached change directive for the details of the proposed change to the contract.

Construction Manager's Request:

- Provide a cost/time proposal for the work described in change directive number 12.
- By: Rene Aguilar
- Date: 1/17/13

Contractor's Response:

- Reference attached change directive number 12 pricing breakdown.
- Change in Contract Cost: ADD \$6788.82
- Change in Contract Time: NO CHANGE IN CONTRACT TIME

RECOMMENDED BY Adam Payne, CCM **Construction Manager**

Signature

APPROVED BY John Crowell, P.E.

Contractor

APPROVED BY Govind Nadkarni, P.E.

Owner

Change Directi	ve # 12	Carollo Program Corpus Christi New Br	roadway WWTP	@ carollo
Area 55: Reloca (Intermediate L		d Light Fixture	Submitted : Submitted To:	02/19/2013 Carollo Engineers,City of Corpus Christl,Colwell & Associates,Graham Construction,LNV
			Revision Date: Status: Priority: Pending On Org:	Pending High Graham Construction
Created By: Created:	Carollo En	gineers, Rene Aguilar		

Design Clarification:

Created:

Submitted By Rene Aguilar, Carollo Engineers (01/17/2013):
The Contractor is directed to provide the following adjustments to the lighting fixtures within Area 55 Studge Dewatering Building at the intermediate level only:

- 1. Currently have a light installed in the location of the Jib crane (Sheet 55-M-04, Section D) that will need to be relocated to for the installation of the Jib crane. See revised installation location attached.
- 2. Relocate the above light to the left of the column (mounted on the wall) in line and same height with the column mounted light directly to the north. See revised installation location attached.
- 3. Provide an additional wall mounted light to the right of the column (mounted on the wall) in line and same height with the column mounted light directly to the north. See revised installation location attached.

The Contractor is requested to provide a Cost Proposal for the above to the CM Team for review.

Locations			
17-Studge Dewatering Building			
References			
Specification # 16500		Lighting	Published
Drawing # 245-55-M-04			Published
Files			
CD No 12- Area 55 Lights.pdf	1.2 MB	Revised Sheet 55-E-05, locations of wall mounted lights in Area 55.	



August 22, 2013

Freese and Nichols. 945 Resaca Street Corpus Christi, TX 78401 Attention: Steve Eckersley, P.E.

RE: New Broadway WWTP; Graham New Broadway response to Change Directive No. 12 Area 55 SDB Relocate and Add Light Fixture SDB intermediate level

Mr. Steve Eckersley P.E.

Graham has been requested to provide an estimated cost to relocate one light fixture and to provide an additional light circuit and fixture on the intermediate level of the Sludge Dewatering Building.

Attached you will find the Graham CD-12 Area 55 Relocate and Add Light Fixture SDB intermediate level estimate along with the details of the Electrical Subcontractor estimate. The estimated cost for this change is \$6,788.82.

Please contact me if you have any questions on this matter. Thank you.

Sincerely,

GRAHAM CONSTRUCTION SERVICES, INC.

John Crowell P.E. Sr. Project Manager

Site Office: 361-881-1279

John Crowell

Cell: 361-446-6430

CC: Greg Ritke, Graham Construction Services, Inc.
Patrick Phelps, Graham Construction Services, Inc.

New Braadway WWTP, Corpus Christi, TX
CD12-Area 55 Relocate - Add light Fixture SDB intermediate Level
PCM#:
RFP#:
RFP#:
Change Description: CD12-Area 55 Relocate - Add light Fixture SDB intermediate level

8.25%

Tax Rate:

	Total Cost	\$42.00		20.00	20.00	20.00		\$5.3		20.00		20.00	20.00	\$0.00			80.00	20.00	20.00	80.00		00°0S		55,335,00	80.00	\$1.05	\$2.63	\$5.25		-55,396,93	001003	00.1000	50.03	77 013	01010	\$6,309,75		\$411.86	567 22		
	Sub Cost	20.00	20.00	20.00		20.00	80.00	\$5,346.00			20.00	20.00	20.00				20.00			80.00				50.00 \$5,346,00						20.00 \$1,346.00						\$5,346.00					
Equipment	Cost	20.00	80.00	20.00	80.00	20.00	20.00	\$0.00	20.00	20.00	50.00	20.00	20.00	20.00	\$0.00	20.00	\$0.00	\$0.00	20.00	20.00	\$0.00			20.00						20.00						00'05					
	Material Cost	20.00	20.00	20.00	20.00	20.00	20.00	80.00	80.00	20.00	20.00	\$0.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	80.00	20.00	20.00		20.00		\$1.05	\$2.63	\$5.25		\$8.93	06 1065	00.013	20 653	213 66	2000	52178		\$411.86	\$67.22		
Labor	W/PT	\$42.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00			542.00						252.00						\$42,00					
Taxes &	Insurance	\$12.00	20.00	20.00	20.00	20.00	20.00	20.00	\$0.00	\$0.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00			ではないないのでは、												の対象を					
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Description	Estimate Preparation	Budget Revisions	Forman	Site Scheduler			Subcontractor Costs												Freight:		Sales Tax on Consumables:		Subtotal:		Safety	Sinali tools	Consumables		Subtoral:		Subtrade Bond	Performance & Payment Bond	Builders Risk	General Liability Insurance		Sudioni	Overhead & Profit		Texas Franchise Tax		FOTAL

Change Order Request



C.O.R. # 180018-0019

G.C. #

Date:

6/27/2013

Project Name: 180018 Broadway WWTP	Project #: 180018
To: Graham Construction Services, Inc. Attn: Kevin Riley	From: KST Electric KST User
2995 Lone Oak Circle, Suite 1	2411Rand Morgan Road Corpus Christi, TX 78410
Eagan , Mn 55121	
Phone: (651) 687-0648 Fax: (651) 687-0947	Phone: (361) 248-4901 Fav: (361) 248-4906

We hereby propose to make the following changes:

Change Directive #12

This price is for change directive #12. Please note the 4 to 5 week lead time for additional fixture.

Exclusions: overtime, paint, taxes, existing conditions of work area, concrete & CMU cut/core/patch.

Change Order Price Original Contract Amount

\$5,346.00

\$6,480,000.00

This price is good for 5 days. If conditions change, this price is void. We are requesting a time extension of 42 days in conjunction with this change. KST User 6/27/2013 Author Date Sent The above prices and specifications of this Change Order request are satisfactory and are hereby Accepted accepted. All work to be performed under same terms and conditions as specified in original contract unless otherwise specified. Authorized Signature

Date of Acceptance



KST ELECTRIC a subsidiary of Rosendin Electric CHANGE ORDER SUMMARY SHEET

Project Name: Broadway WWTP
Change Description: Change Directive #12
KST Change No.

KST Change No.:	1,041-13-140			Da Taxah	te: le: No
MATERIAL/QUOTES:	Amount	Op	Rate	Extension	and the second second second
Material Total:	\$1,628.18	X	1.0	\$1,628.18	
Material From T&M Recap Sheet:				The second secon	
Total Quotes:	\$0.00	X	1.0	\$0.00	
	\$0.00	X	1.0	\$0.00	
Total Freight:	\$0.00	X	1.0	\$0.00	
SUBTOTAL:					\$1,628.18
LABOR:					
Straight-time Labor:	63.00	X	\$35.02	\$2,206.26	
Overtime Labor @ time & one half:	0.00	X	\$57.31	\$0.00	
Double Time Labor:	0.00	X	\$74.50	\$0.00	
Instrumentation Straight Time Labor:	0.00	X	\$75.00	\$0.00	
Total Manhours:	63.00		410.00	40.00	
Labor from Time and Material Sheets:	# of Hrs & Labor Ext from	Allachman	0.00	\$0.00	
General Foreman Straight-time Labor (10% of Man Hrs):	63.00	6.30	0.00	\$0.00	
General Foreman Straight-time Labor:	6.30		057 44	6004.07	
General Foreman Overtime Labor (10% of Man Hrs):		X	\$57.44	\$361.87	
Caparal Foreman Overtime Labor (10% of Wall Fils).	0.00	0.00	A-10 HO	***	
General Foreman Overtime Labor @ time & one half:	0.00	X	\$79.78	\$0.00	
General Foreman Double Time Labor (10% of Man Hrs):	0.00	0.00	25.200 a 25.000 a com 1 / 20 11		
General Foreman Double Time Labor:	0.00	X	\$102.12	\$0.00	
Estimating Time:	0.00	X	\$71.87	\$0.00	
Mat. Proc. & Handle (5% of Labor Cost):	2,568.13	X	5.00%	\$128.41	
Update As-Built Dwg's:	. 1.00	X	\$59.86	\$59.86	
SUBTOTAL:				\$2,756.40	\$2,756.40
DIRECT JOB EXP:				7-7.	V-1/
Consumables/Expendable Tools (6% of Mat.):	\$1,628.18	X	3.00%	\$48.85	
Drawing Reproduction and or BIM:	\$0.00	X	1.0	\$0.00	
Safety @ \$0.50/MH:	69.30	X	\$0.50	\$34.65	
Equipment:	\$0.00	X	1.0	\$0.00	
Project Mngmt: 5% of Labor:	2,756.40	x	0%		
Total Subcontractors Quotes:	The state of the s	x	100	\$0.00	
SUBTOTAL Direct Job Exp:	\$0.00	^	1.0	\$0.00	200.50
Credit:	60.00	.,	4.0	\$83.50	\$83.50
	\$0.00	X	1.0	\$0.00	\$0.00
Material/Labor/DJE/Credit SUBTOTAL:		272	100		\$4,468.07
Warranty:	\$4,468.07	X	0%	\$0.00	\$0.00
SUBTOTAL:					\$4,468.07
Material Sales Tax @ 8.25% if Project is Taxable:	\$1,628.18	X	0.00%	\$0.00	\$0.00
Liability/Builders Risk:	\$4,468.07	X	2%	\$89.36	\$89.36
SUBTOTAL:					\$4,557.44
MARK-UPS:					Carlo Carlo Control Control
Overhead/Profit @ 15%	\$4,557.44	X	15%	\$683.62	\$683.62
				*******	********
SUBTOTAL:					\$5,241.05
Total Subcontract Values:	\$0.00	X	1	\$0.00	\$0.00
Overhead/Profit for Subcontract @ %		X	15%	\$0,00	\$0.00
		2017/1		40,00	\$5,241.05
					7-7
SUBTOTAL:					\$0.00
Bond Premium:	\$5,241.05	X	2.0%	\$104.82	\$104.82
CHANGE ORDER TOTAL:					\$5,345.87

Description	Quant	Trade Price	Ui	Net Price	Labor	Unit	Total Material	Total Hours
16"x4"x4" HINGED COVER NEMA 1	1	22.07	Ε	22.07	1.5	E	22.07	2.63
2 3/4" FORM 9 ALUMINUM LB CONDULET	2	13.44	Ε	13.44	0.95	Ε	26.88	3.32
3 3/4" FORM 9 ALUMINUM T CONDULET	1	17.08	E	17.08	1.5	E	17.08	2.63
4 3/4" CLAMP BACK	10	138.52	С	138.52	45	С	13.85	7.88
5 3/4" GRC 1-H STEEL STRAP	10	31.34	С	31.34	6	С	3.13	1.05
6 3/4" MALE UNION	2	19.74	E	19.74	0.75	Ε	39.48	2.63
7 3/4" ARC (AL)	70	277.27	C	277.27	8.2	С	194.09	10.05
8 3/4" ARC MYERS HUB	2	575.24	C	575.24	30	С	11.5	1.05
9 1/4" SS HEX NUT	25	39	С	39	0	С	9.75	0
10 1/4" SS FLAT WASHER	25	35	С	35	0	c	8.75	0
11 1/4"x2-1/4" SS WEDGE ANCHOR	25	306.81	c	306.81	24	С	76.7	10.5
12 #12 THHN/THWN SOLID (30' EA RED, WHITE, GREEN)	90	261.48	М	261.48	9	М	23.5332	0.81
13 #12/3C THHN TRAY CABLE	50	1.041	E	1.041	31.5	М	52.05	1.575
14 B1-1 YELLOW WIRE CONN	10	13.93	С	13.93	0	С	1.39	0
15 #14/12C TRAY CABLE	30	2.884	E	2.884	21	М	86.52	0.63
16 U2 FIXTURE "CROUSE-HINDS" [VMV7L2TW7OF/UNV]	1	1041.41	Ε	1041.41	3.13	Ε	1041.41	3.13
17 RELOCATE LIGHT	2	0	E	0	3.13	Ε	0	3.13
18 Misc. Rework	2	0	E	0	6	ε	0	12
						TOTAL:	1628.1832	63.015

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1402 LAREDO STREET CORPUS CHRISTI TX 78401-3138 Phone: 361-886-4123 Fox: 361-886-4199

To:

KST ELECTRIC/CCTX-ELE

CCTX/ELE

P.O. BOX 49055 SAN JOSE CA 95161

Attn: DEREK DOYLE

Phone: Fex: Email: Date: Prof Nam

Proj Name: GB Quote #: Valid From: Valid To:

Contact:

Email:

06/12/2013

"U2" FIXTURE 218017650 06/12/2013

07/12/2013 WILLIAM NAUGLE

william.naugle@graybar.com

Proposal

We Appreciate Your Request and Take Pleasure In Responding As Follows

ltem	Quantity	Supplier	Catalog Nbr	Description	Price (Jalt	Ext.Price
100	1 EA	CROUSE-HINDS	VMV6L2TWDM2/UN V1	LT LED VMV6L 3/4 IN WALL VAC	\$1,041.41	1	\$1,041.41
GB Part	#: 2540399	93 UPC #: 66227	623746				

Total in USD (Tax not included):

\$1,041.41

F O B: 4 WORKING WEEK LEAD TIME

This equipment end associated installation charges may be linanced for a low monthly payment through Graybor Financial Sorvices (subject to credit approva). For more information call 1-800-241-7408 to speak with a lossing specialist.

To loarn more about Graybar, visit our website at www.graybar.com

24-Hour Emergency Phone#: 1-800-GRAYBAR

Change Directive 15 Areas 22 and 56-Seal top of filter room walls.

Carollo requested a Cost Proposal to add the following work to the contract in Areas 22 (ECR-1) and 56 (ECR-2). Provide 3M Brand Fire Barrier Sealant FireDam 150+ Caulk at the top of the filter room walls to close the air gap. PCM 45.

PROPOSED CONTRACT MODIFICATION



4055 international Plaza, Suite 200 • Fort Worth, Texas 76109 • 817-735-7300 • fax 817-735-7491

Owner:	City of Corpus Christi	Date:	9/9/13	
Contractor:	Graham Construction	PCM No:	45	
Project Name:	New Broadway WWTP Project	Ref:	CD-15	
Engineer/CM:	Carollo / Freese and Nichols			
PCM Title:	Seal voids between the top of the filter walls and t	he roof deck in areas	22 and 56	

PCM Description:

On June 11, 2013, Carollo Engineers requested that Graham Construction provide a Cost Proposal to add the following work to the contract in Areas 22 and 56:

- Provide 3M Brand Fire Barrier Sealant FireDam 150+ Caulk at the top of the filter walls between the
 underside of the roof decking and the top of the CMU walls to close the open gap and prevent air from
 passing through and bypassing the wall filters. Provide sealant as needed to seal the gaps (seal one side or
 both sides as needed).
- 2. Use other 3M Brand Fire Barrier Sealant FireDam 150+ products to seal the gaps if larger voids are present as needed to prevent air leaks as intended.
- Install 3M Brand Fire Barrier Sealant FireDam 150+ Caulk in accordance with the provided Specification No. 07840.

The Contractor's cost proposal has been reviewed by the CM Team and Owner. Reference the cost summary below and attached change directive for the details of the proposed change to the contract.

Construction Manager's Request:

- Provide a cost/time proposal for the work described in change directive number 15.
- By: Rene Aguilar
- Date: 6/11/13

Contractor's Response:

- Reference attached change directive number 15 pricing breakdown.
- Change in Contract Cost: ADD \$7,004.38
- Change in Contract Time: NO CHANGE IN CONTRACT TIME

RECOMMENDED BY Adam Payne, CCM

Construction Manager

nature

Date

APPROVED BY

John Crowell, P.E.

Contractor

inature

APPROVED BY Govind Nadkarni, P.E.

Owner

Signature

Date

Change Directive # 15	Carollo Program Corpus Christi New Broadway WWTP	(Carvila	

Submitted: 06/11/2013 Seal Top of Filter Walls in Area 22 and Adam Payne, Carollo Submitted To: Area 56 Engineers, Freese & Nichols **Revision Date:** Status: Pending Priority: Low Created By: Carollo Engineers, Rene Aguilar Created: 06/10/2013

Design Clarification:

Submilled by Rene Aguilar, Carollo Engineers (06/10/2013):

The Contractor is requested to provide the following installation of sealing material at the tops of the filter walls of Area 22 and Area 56 Filter Rooms as noted:

- 1. Provide 3M Brand Fire Barrier Sealant FireDam 150+ Caulk at the top of the filter walls between the underside of the roof decking and the top of the cmu walls as shown in the attachments to close the open gap and prevent air from passing through and bypassing the wall filters. Provide sealant as needed to seal the gaps (seal one side or both sides as needed).
- 2. Use other 3M Brand Fire Barrier Sealant FireDam 150+ products to seal the gaps if larger volds are present as needed to prevent air leaks as intended.
- 3. Install 3M Brand Fire Barrier Sealant FireDam 150+ Caulk in accordance with the provided Specification No. 07840 as attached.
- 4. Contractor to provide cost and time impacts to the CM Team for review and discussion prior to proceeding with the installation.

Locations

10-Switchgear/ECR-1/Aeration Basin/Blower Building

18-ECR-2/Aerated Sludge Basin/Blower Building

References			
Specification # 07920		Interior Joint Sealants (Reference Only)	Published
Drawing # 170-22-S-01		See revised attachment	Published
Drawing # 260-56-S-01		See revised attachment	Published
Files			
07840 - Firestopping rev 1.pdf	20.00 KB	Caulking material Specification No. 07840.	_
CD 15 Area 22.pdf	593.93 KB	Area 22 Filter Wall Seal Locations.	
CD 15 Area 56.pdf	413.26 KB	Area 56 Filler Wall Seal Locations.	

SECTION 07840

FIRESTOPPING

PART 1 - GENERAL

1.01 SECTION INCLUDES

A. Fireproof firestopping and firesafing materials and accessories.

1.02 RELATED SECTIONS

- A. See construction drawings
- B. Section 07815 Sprayed-on Fireproofing

1.03 REFERENCES STANDARDS (Latest Edition)

- A. ASTM E84 Test Method for Surface Burning Characteristics of Building Materials.
- B. ASTM E119 Method for Fire Tests of Building Construction and Materials.
- C. ASTM E814 Test Method of Fire Tests of Through-Penetration Firestops.

1.04 PERFORMANCE REQUIREMENTS

A. Fireproofing Materials: ASTM E119 and ASTM E814 to achieve a fire rating as noted.

1.05 DEFINITIONS

- A. Firestopping: A material, or combination of materials, to retain the integrity of time-rated construction by maintaining an effective barrier against the spread of flame, smoke, and gases. It shall be used in specific locations as follows:
 - Duct, cable, condult, and piping penetrations through floor slab and through time-rated partitions or fire walls.
 - Openings between floor slabs and curtain walls, including inside hollow curtain walls at the floor slab.
 - 3. Penetrations of vertical service shafts.
 - 4. Openings and penetrations in time-related partitions or fire walls containing fire doors.
 - Locations where specifically shown on the Drawings or where specified in Schedule of this Section.

1.06 SUBMITTALS

- A. Product Data: Provide data on product characteristics, performance and limitation criteria.
- B. Manufacturer's installation instructions: Indicate preparation and installation instructions.
- Manufacturer's Certificate: Certify that products meet or exceed specified requirements.

1.07 QUALITY ASSURANCE

- A. Manufacturer Qualifications: Company specializing in manufacturing the products specified in this Section with minimum three years experience.
- B. Installer Qualifications: Company specializing in performing the work of this Section with minimum 3 years experience and approved by manufacturer.

1.08 REGULATORY REQUIREMENTS

- A. Conform to applicable code for fire resistance ratings and surface burning characteristics.
- Provide certificate of compliance from authority having jurisdiction indicating approval of combustibility.

1.09 ENVIRONMENTAL REQUIREMENTS

- Do not apply materials when temperature of substrate material and ambient air is below 60 degrees F.
- Maintain this minimum temperature before, during, and for 3 days after installation of materials.
- Provide ventilation in areas to receive solvent cured materials.

1.10 SEQUENCING

 Sequence Work to permit firestopping materials to be Installed after adjacent and surrounding work is complete.

1.11 WARRANTY

- A. Correct defective Work within a two-year period after Date of Substantial Completion.
 - Include coverage for fireproofing to remain free from cracking, checking, dusting, flaking, spalling, separation, and blistering.
 - 2. Reinstall or repair failures that occur within warranty period.

PART 2 - PRODUCTS

2.01 MANUFACTURERS

- A. 3M Contractor Products, Product: Firestopping Materials.
- B. Substitutions: Under Special Provisions requirements.

2.02 MATERIALS

- Firestopping Material shall constitute on or more of the following products, or equal:
 - 1. 3M Brand Fire Barrier Sealant FD 150+ Caulk.
- B. Other Requirements
 - 1. Durability and Longevity: Permanent.
 - 2. Side Effects During Installation: Non-toxic.
 - 3. Long Term Side Effects: None.
- C. Primer: Type recommended by firestopping manufacturer for specific substrate surfaces.

2.03 ACCESSORIES

- A. Dam Material: As instructed by manufacturer.
- B. Retainers: As instructed by manufacturer.

PART 3 - EXECUTION

3.01 EXAMINATION

A. Verify site conditions.

B. Verify that openings are ready to receive the Work of this Section.

3.02 **PREPARATION**

- Clean substrate surfaces of dirt, dust, grease, oil, loose material, or other matter which may A. affect bond of firestopping material.
- B. Remove incompatible materials which affect bond.
- C. Install backing materials to arrest liquid material leakage.

3.03 **APPLICATION**

- Apply primer and materials in accordance with manufacturer's instructions. A.
- Apply firestopping material in sufficient thickness to achieve rating to uniform density and В. texture.
- C. Install material at walls or partition openings which contain penetrating sleeves, piping, ductwork, conduit and other Items requiring firestopping.

 1. Remove dam material after firestopping material has cured.

CLEANING 3.04

- A. Clean Work under Special Provisions requirements.
- B. Clean adjacent surfaces of firestopping materials.

3.05 PROTECTION OF FINISHED WORK

- A. Protect finished work.
- В. Protect adjacent surfaces from damage by material installation.

3.06 FIELD QUALITY CONTROL

- Examine firestopped areas to ensure proper installation prior to concealing or enclosing A. firestopped areas.
- В. Areas of work shall remain accessible until inspection (and approval) by the applicable code authorities.

3.07 SCHEDULES

A. Location: All - 2 hours

END OF SECTION



August 21, 2013

Freese and Nichols. 945 Resaca Street Corpus Christi, TX 78401 Attention: Steve Eckersley, P.E.

RE: New Broadway WWTP; Graham New Broadway response to Change Directive No. 15 Seal Top of Filter Walls in Area 22 and Area 56

Mr. Steve Eckersley P.E.

Graham has been requested to provide an estimated cost to Seal Top of Filter Walls in Area 22 ECR1 and Area 56 ECR2.

Attached you will find the Graham CD-15 Seal Top of Filter Walls in Area 22 and Area 56 estimate. The estimated cost for this change is \$7,004.38.

Please contact me if you have any questions on this matter. Thank you.

Sincerely,

GRAHAM CONSTRUCTION SERVICES, INC.

John Crowell P.E. Sr. Project Manager

Site Office: 361-881-1279

Cell: 361-446-6430

CC: Greg Ritke, Graham Construction Services, Inc.

Patrick Phelps, Graham Construction Services, Inc.

New Broadway WWTP, Corpus Christi, TX CD-15 Seal Top of Filter Walls in Area 22 and Area 55 Estimate

PCM#:

RFP#:

Change Description: ScalTop of Filter Walls in Area 22 and Area 55

Tax Rate:

8.25%

Description	Inch = T	Function Code	Oty		Avg crew Rate	Total Hours	Unit Hours	Material Unit Price	Equip Unit Price	Sub Unit	Total Labor	Payrol Taxes & Insurance	Labor w/PT1	Material Cost	Equipment Cost	Sub Cost	Total Cost
Estimate Preparation		0104165		HR	30.00	1.00	1.0000	50.00	\$0,00	50.00	\$30.00	\$12.00	\$42.00	\$0.00	\$0,00	00.02	\$42.00
Budget Revisions		0104620	0	HR	75.00	0.00	1.0000	00.02	\$0,00	00.02	\$0.00	\$0.00	00.02	00.02	\$0.00	\$0.00	00.00
Forman		0104130	30	HR	37.50	30.00	1.0000	\$0.00	\$0,00	\$0.00	\$1,125.00	\$450.00	\$1,575.00	\$0.00	\$0.00	\$0.00	\$1,575.00
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Area 56 ECR2 3 man crew	1			31	29.10	30.00		A DESCRIPTION	SEA DIES	Sept. J. Z., TS	\$873,00	S349.20	\$1,222.20	\$0.00	\$0.00	\$0.00	\$1,222.20
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PCO 81 Administration Building Steel Panels

This is regarding the steel panels for the Administration Building northeast stairway tower. Drawing 61-S-07 Section 19 calls for 20 GA. Galvalume R-Panel at the Admin Stair Tower roof. Specification 07411, 2.06 Metal Roof Panels specifies 22GA. Standing Seam panels. Carollo sub LNV advised Graham to use 22GA standing seam panels with a new screw pattern and addition of wall studs for attachment. RFI 246.

New Broadway WWTP, Corpus Christi, TX PCO# PCM#:

RFP#:

Change Description:

Tax Rate: Consumables 8.25%

Daniel de			•	Uof	1000	Total	Labor Unit	Material	Equip		Total	Payrol Taxes &	Labor		Equipmen		
Description Estimate Preparation	Taxable = 1	Function Code 0104165		M	30.00	Hours	Hours	Unit Price		Sub Unit Price	Labor	Insurance	w/PTI	Material Cost	t Cost	Sub Cost	Total Cost
Budget Revisions		0104163		2 HR	75.00	2.00	1.0000	\$0.00	\$0.00	\$0.00	\$60.00	\$24.00	\$84.00	\$0.00	50,00	\$0.00	\$84.00
Forman		0104620		2 HR	37.50	2.00	1,0000	\$0.00	\$0.00	\$0.00	\$150.00	\$60.00	\$210.00	\$0.00	\$0.00	\$0.00	\$210,00
Site Scheduler		0104130		HR	40.00	1.00	1.0000		\$0.00	\$0.00	\$75.00	\$30,00	\$105.00	\$0.00	\$0.00	\$0.00	\$105.00
Site Scheduler		0103130	-	IHK	29.10		1,0000	\$0.00	\$0.00	\$0.00	\$40.00	\$16.00	\$56.00	\$0.00	\$0.00	\$0.00	\$56,00
				-	29.10	0.00					\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Stair Tower-Porch Roof				+	29.10	0.00					\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
structural steel mods				,	29.10	0.00				\$6,555.00	\$0.00	\$0,00	\$0.00	\$0.00	\$0.00	\$6,555,00	\$6,555.00
16in vs 36in Panel install	Design of the last			1	29.10	0.00				\$3,656.25	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$3,656.25	\$3,656.25
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Safety	-	0151001		-													\$0.00
Small tools	-	0151801		-										\$11.38			\$11.38
Consumables	-	0152990		\vdash										\$28.44			\$28.44
Consumables	-	0152903		-										\$56.88			\$56.88
C. b I.				+													\$0.00
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Subtrade Bond		0174400												\$1,831,69			\$1,831.69
Performance & Payment Bond		0174350												\$94.87			\$94.87
Builders Risk		0175100												\$122.59			\$122.59
General Liability Insurance		0175220												\$43.70			\$43.70
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Overhead & Profit		0192310												\$1,007.24			\$1,007.24
Texas Franchise Tax		0176000												\$158.63	-		\$158,63
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McNiel Roofing & Sheet metal, Inc. dba McStill Construction P.O. Box 33313 San Antonio, Texas 78265 210-653-4636 fax 210-653-4087

July 2, 2013

Graham Construction Services, Inc. 2995 Lone Oak Circle, Suite 1 Eagan, MN 55121

Ref: NBWWTP 945 Resaca Street Corpus Christi, Texas 78401

ADDITION TO CONTRACT

Redesign for modification to support structure on the Stair Tower and Porch Roof on side of building.

Quantity	Description	Amount
1180 ft	Hat Channel	\$1,950.00
Labor	36 Crew Hours	\$2,340.00
80 ft	2x12 and fasten	\$304.00
Labor	10 Crew Hours	\$650.00

SUBTOTAL	\$5,244.00	
OVERHEAD (15%)	\$786.60	
PROFIT (10%)	\$524.40	
TOTAL	\$6,555.00	

McNiel Roofing & Sheet metal, Inc. dba McStill Construction P.O. Box 33313 San Antonio, Texas 78265 210-653-4636 fax 210-653-4087

July 2, 2013

Graham Construction Services, Inc. 2995 Lone Oak Circle, Suite 1 Eagan, MN 55121

Ref: NBWWTP 945 Resaca Street Corpus Christi, Texas 78401

ADDITION TO CONTRACT

Additional labor to install 16" Panel in lieu of 36" Panel.

Quantity	Description	Amount
Labor	45 Crew Hours	\$2,925.00
	SUBTOTAL	\$2,925.00
	OVERHEAD (15%)	\$438.75
	PROFIT (10%)	\$292.50
	TOTAL	\$3,656.25

McNiel Roofing & Sheet metal, Inc. dba McStill Construction P.O. Box 33313 San Antonio, Texas 78265 210-653-4636 fax 210-653-4087

July 2, 2013

Graham Construction Services, Inc. 2995 Lone Oak Circle, Suite 1 Eagan, MN 55121

Ref: NBWWTP 945 Resaca Street Corpus Christi, Texas 78401

ADDITION TO CONTRACT

Re-Engineering and Shop Drawings for the redesign for modifications to support structure.

SUBTOTAL	\$2,000.00
TOTAL	\$2,000.00

PCO 84 Relocate ECR-1 Blower Disconnects

The CM team, contractor, and City Operations personnel met on site at ECR-1 to discuss the placement of the blower disconnects and equipment stands at ECR-1. The group agreed to relocate disconnects and equipment stands to the opposite side of each blower. PCM 84.

ER (OPEROXIDID)



4055 International Plaza Suite 200 + Fort Worth Texas 76109 + 817 735 7300 + fax 817 735 7491

Own	er:	
-----	-----	--

City of Corpus Christi

9/9/13

Contractor:

Graham Construction

Project Name:

New Broadway WWTP Project

PCM No: 47 Ref:

Date:

Engineer/CM:

PCO-84

Carollo / Freese and Nichols

PCM Title:

Purchase of two air piping restrained couplings

PCM Description:

The CM team, Contractor and City Operations personnel met onsite in ECR1 to discuss the planned placement of the blower disconnects and equipment stands. As a result of the discussion, the group agreed to relocate the disconnects and equipment stands to the opposite side of each blower.

The Contractor's cost proposal for the work described above has been reviewed by the CM Team and Owner. Reference the cost summary below and attached PCO-84 detailing the additional cost.

Construction Manager's Request:

- Provide a cost time proposal for the work detailed above.
- By: Adam Payne
- Date: 10/10/13

Contractor's Response:

- Reference attached PCO-84.
- Change in Contract Cost: ADD \$4,582.16
- Change in Contract Time: NO CHANGE IN CONTRACT TIME

RECOMMENDED BY Adam Payne, CCM

Construction Manager

APPROVED BY

Contractor

John Crowell, P.E.

APPROVED BY

Govind Nadkarni, P.E.

Owner S, REP.

Signature

Signature

Signature

New Broadway WWTP, Corpus Christi, TX PCO# \$4 Relocate Disconnects and Equipment Stands Blower in ECR-1 PCM#: RFP#:

Change Description:

Tax Rate:

8.25%

Description	1 = T	Function Code	Otv	Uof M	Avg crew Rate	Total Hours	Labor Unit Hours	Material Unit Price	Equip	Sub Unit	Total	Payrol Taxes &	Labor		Equipmen		The same of the sa
Estimate Preparation	100000	0104165		IHR	30.00	1.00	1,0000	50.00	Unit Price \$0.00	Price	Labor	Insurance	w/PTI	Material Cost	t Cost	Sub Cost	Total Cost
Budget Revisions		0104620		1 HR	75.00	1.00	1,0000	\$0.00		\$0.00	\$30.00	\$12.00	\$42.00	\$0.00	00.02	\$0.00	\$42.00
Forman		0104130		4 HR	37.50	4.00	1.0000	00.02	\$0.00	50.00	\$75.00	\$30,00	\$105.00	\$0.00	00.02	00.00	\$105,00
Site Scheduler	-	0105130		OHR	40.00	0.00	1.0000		\$0.00	00.02	\$150.00	\$60.00	\$210.00	\$0.00	\$0.00	\$0.00	\$210,00
	12.00			1	29,10	0.00	1.0000	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	50.00	\$0,00
					29.10	0.00					\$0.00	00.00	\$0.00	00.02	\$0.00	\$0.00	\$0,00
Relocate Disconnects& Equip	1				27.10	0.00		the second second			\$0.00	\$0,00	00.02	\$0,00	50,00	50.00	20.00
Stands				lot	29.10 29.10	0.00				\$3,234.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$3,234,00	\$3,234.00
				-		0.00			LUI TO THE		\$0.00	\$0.00	\$0.00	50.00	\$0,00	\$0,00	\$0.00
				-	29.10	0.00					\$0.00	\$0.00	\$0.00	\$0.00	\$0,00	\$0,00	\$0.00
					29.10	0.00					\$0.00	\$0.00	\$0,00	00.02	\$0.00	\$0,00	\$0.00
	1			-	29.10	0.00					00.02	00.02	\$0.00	\$0,00	50.00	\$0.00	\$0.00
				-	29.10	0.00			PRINCIPLE		\$0.00	\$0,00	\$0.00	\$0.00	\$0.00	50.00	\$0,00
				-	29.10	0.00					50.00	\$0.00	\$0,00	00.02	50.00	\$0.00	\$0.00
				-	29.10	0.00					\$0.00	\$0.00	\$0.00	\$0.00	50.00	\$0,00	\$0.00
			-	-	29.10	0.00					\$0.00	\$0.00	\$0.00	\$0.00	50,00	\$0.00	\$0.00
				-		0.00					00.02	\$0.00	\$0.00	\$0,00	50.00	\$0.00	\$0.00
				-	29.10	0.00					50.00	\$0.00	\$0.00	\$0,00	\$0.00	\$0,00	\$0.00
		0197100		ca	29.10	0.00					\$0.00	00.02	00,02	\$0.00	\$0.00	\$0,00	\$0.00
		0137100		Cal	29.10	0.00		The second second			\$0,00	50.00	00.02	\$0.00	\$0.00	\$0,00	\$0.00
Sales Tax on Consumables:	50			-	29.10	0.00					\$0.00	50.00	\$0.00	\$0.00	1 00.02	\$0.00	\$0.00
	1			-		0.00								\$0.00		MARKET THE	\$0.00
Subtotal:						6,00											
						0,00							\$357.00	00.00	\$0.00	\$3,234.00	\$3,591,00
Safety		01518011		1		-											\$0.00
Small tools		0152990	_			-								\$8.93			\$8,93
Consumables		0152903	_			-								\$22.31			\$22.31
						_								\$44.63			\$44,63
Subtotal:																	\$0,00
				-									\$357.00	\$75,36	\$0.00	\$3,234.00	\$3,666,86
Subtrade Bond		0174400				-										1	
Performance & Payment Bond		0174350												\$485.10			\$485,10
Builders Risk		0175100		1							-			\$26.99			\$26.99
General Liability Insurance		0175220				-								\$34.88			\$34,88
		-110220		1		-								S12.43	4		\$12.43
Subtotal;				1		-											
						-							\$357.00	\$635.26	\$0.00	\$3,234,00	\$4,226.26
Overhead & Profit		0192310				-											
												Contract of the		\$310.54			\$310.54
Texas Franchise Tax		0176000	-														
		27.0000		1										\$45.37			\$45.37
TOTAL:				1								- relited					
	-												\$357.00	\$991.16	\$0,00	\$3,234.00	\$4,582.16

PCO 85 UT Level Transducer Analog Signal

The ultrasonic level sensors in the UV structure require a 24VDC power source to send an analog signal back to the controller. The 24 volt power was included on the conduit schedule but the analog signal was not. A two-wire shielded cable was added to the power supply for correct operation.



October 30, 2013

Freese and Nichols. 945 Resaca Street Corpus Christi, TX 78401 Attention: Steve Eckersley, P.E.

RE: New Broadway WWTP; Graham New Broadway request for Direct/Indirect Costs

Mr. Steve Eckersley P.E.

In accordance with the requirements of General Conditions Article 10, Graham Construction Services is providing written notification of a cost and time impact associated with the requirement for additional electrical wiring not shown on the engineering drawings. The ultrasonic level sensors in the UV structure (BRD-SEF-LIT13, 23, 33) require a 24VDC power source and send an analog signal back to the controller proportional to the water level in the channel. The 24 volt power was included on the conduit schedule (Conduits I3101, I3102, I3103), but the analog signal was not. A two-wire shielded cable is needed in addition to the power supply in order for correct operation.

The initial GC/Subcontractor estimate for this work is approximately \$6,063.57 for this additional work. We will advise Freese and Nichols, regarding the actual impact costs once they are known. Graham will request to be reimbursed for all direct cost due to this change. Please contact me if you have any questions on this matter. Thank you.

Sincerely, GRAHAM CONSTRUCTION SERVICES, INC.

John Crowell P.E. Sr. Project Manager

Site Office: 361-881-1279 Cell: 361-446-6430

CC: Greg Ritke, Graham Construction Services, Inc. Patrick Phelps, Graham Construction Services, Inc.

New Broadway WWTP, Corpus Christi, TX PCO# 85 UT Transducers level sensors-analog signal cable PCM#:

RFP#:

Change Description:

Tax Rate:

8.25%

Eliminat Preparation 0104165 1HR 30.00 1.00 1.000 50.00	Description	Taxable = T	Function Code	Qty	Uof M	Avg crew Rate	Total Hours	Labor Unit Hours	Material Unit Price	Equip Unit Price	Sub Unit Price	Total Labor	Payrol Taxes & Insurance	Labor w/PTI	Material Cost	Equipmen t Cost	Sub Cost	Total Cost
Badget Revisions	Estimate Preparation		0104165		1 HR	30.00	1.00	1.0000	\$0.00			The second second second						\$42.00
Forman	Budget Revisions		0104620		1 HR	75.00	1.00	1.0000										\$105.00
Site Scheduler 0105130	Forman		0104130	4	4 HR	37.50												\$210.00
	Site Scheduler		0105130	(HR													\$0.00
Install signal cable for three UT		111111	MINISTER OF STREET	70 5 30					Section 1981		50.00							\$0.00
Install signal cable for three UT			10 10 10 12															\$0.00
29.10	Install signal cable for three UT			13500		2,170,000	0.00					30.00	30.00	30.00	30.00	30.00	30,00	30.00
29.10	level sensors in UV			1	lot	29.10	0.00				\$4.411.00	\$0.00	50.00	\$0.00	50.00	50.00	\$4.411.00	\$4.411.00
											57,711.00							\$0.00
19-10 0.00 9-00				100														\$0.00
29.10 0.00 50.00																		\$0.00
		10000																\$0.00
2910 0.00 50.00		E I																\$0.00
1								SCHOOL STATE										\$0.00
29.10 0.00 50.00 \$0.																		\$0.00
29.10																		\$0.00
Subtrade Bond 174350 175200 175																		\$0.00
29.10 0.00 S0.00																		\$0.00
Consumables 0197100 ea 29.10 0.00 S0.00																		
Sales Tax on Consumables: S0			0197100		62													00.02
Sales Tax on Consumables: 50 0.00 50.0			0137100	-	Ca													\$0.00
Subtotal: 0.00	Sales Tax on Consumables:	02				29.10						30.00	\$0.00	\$0.00		\$0.00	\$0.00	00.02
Subtotal: S357.00 S0.00 S4,411.00 S4,768 S6,709 S6,700 S6,7	lands fact on consumations.	30			-										20.00			\$0.00
Safety 0151801	Subtotal:	_			-					graduate forms				62.55.00	****			
Safety	Judician				-		0.00	The second			Direction and the			\$357.00	\$0.00	\$0.00	\$4,411.00	
Small tools	Safety		0151801		+				-						20.02			\$0.00
Consumables					-													\$8.93
Subtrade Bond		-			+													\$22,31
Subtotal: \$357.00 \$75.86 \$0.00 \$4,411.00 \$4,843 Subtrade Bond 0174400 \$661.65 <t< td=""><td>Constitutores</td><td>-</td><td>0132903</td><td></td><td>+</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>\$44.63</td><td></td><td></td><td>\$44.63</td></t<>	Constitutores	-	0132903		+										\$44.63			\$44.63
Subtrade Bond 0174400	Subtotal	-			-													\$0.00
Performance & Payment Bond 0174350 S35.79 S35 Builders Risk 0175100 S46.25 S46 General Liability Insurance 0175220 S16.48 S16 Subtotal: S357.00 S836.03 S0.00 S4,411.00 S5,604 Overhead & Profit 0192310 S399.50 S399 Texas Franchise Tax 0176000 S60.04	Subtotal.	-			-									\$357.00	\$75.86	\$0.00	\$4,411.00	\$4,843.86
Performance & Payment Bond 0174350 S35.79 S35 Builders Risk 0175100 S46.25 S46 General Liability Insurance 0175220 S16.48 S16 Subtotal: S357.00 S836.03 S0.00 S4,411.00 S5,604 Overhead & Profit 0192310 S399.50 S399 Texas Franchise Tax 0176000 S60.04	Subtenda Dood	-	0174400		-				-			Name of			The state of the s		and the same	
Builders Risk 0175100 S46.25 S46		_			-													\$661.65
General Liability Insurance 0175220		_			-											all and the		\$35.79
Subtotal: \$357.00 \$836.03 \$0.00 \$4,411.00 \$5,604 Overhead & Profit 0192310 \$399.50 \$399.50 \$399.50 Texas Franchise Tax 0176000 \$560.04 \$560.04					+-											- 1		\$46.25
Overhead & Profit 0192310 S399.50 S399.50 S399.50 S399.50 S399.50 S399.50 S399.50 S60.04 S60.	General Liability Insurance	7	0175220		\vdash										\$16.48			\$16.48
Texas Franchise Tax 0176000 \$60.04 \$60.04	Subtotal:		S	Tu - 18	(in-ye	C 1 2 2 2 6 6 6	y 17.99		ACTION NAMED	A	No. 21.21.00	Like to	Service Train	\$357.00	\$836.03	\$0.00	\$4,411.00	\$5,604.03
7074	Overhead & Profit		0192310												\$399.50			\$399.50
TOTAL:	Texas Franchise Tax		0176000												\$60.04			\$60.04
	TOTAL:				-		ACC.							\$357.00	\$1,295.57	\$0,00	\$4,411.00	\$6,063.57

Change Order Request



C.O.R. # 180018-0023

G.C. #

Date:

10/28/2013

Project Name: 180018 Broadway WWTP	Project #: 180018
To: Graham Construction Services, Inc. Attn: John Crowell 2995 Lone Oak Circle, Suite 1	From: KST Electric Dustin Doyle 2411Rand Morgan Road Corpus Christi, TX 78410
Eagan , Mn 55121	
Phone: (651) 687-0648 Fax: (651) 687-0947 We hereby propose to make the following changes:	Phone: (361) 248-4901 Fax: (361) 248-4906
UV Ultrasonic Transducer	

This price is for adding Shielded Cable to each of the three Vendor Furnished Transducers at the UV Channels back to the UV Controller in ECR-3.

Exclusions: patching of any concrete, paint, existing conditions of work areas, overtime.

Please send written Notice to Proceed and Approval of Price for work to begin.

Change Order Price \$4,411.00
Original Contract Amount \$6,480,000.00

	5 days. If conditions change, this price is void. me extension of 5 days in conjunction with this change.
Dustin Doyle	10/28/2013
Author	Date Sent
Accepted	The above prices and specifications of this Change Order request are satisfactory and are hereby accepted. All work to be performed under same terms and conditions as specified in original contract unless otherwise specified.
Authorized Signature	Date of Acceptance



KST ELECTRIC a subsidiary of Rosendin Electric CHANGE ORDER SUMMARY SHEET

Project Name: Broadway WWTP							
Change Description: UV Ultrasonic Transducers							
KST Change No.: 180018-0023				Date	: 28-Oct-13		
K51 Change No., 1600 16-0025					Taxable: No		
MATERIAL/QUOTES:	Amount	Ор	Rate	Extension	Subtotals & Totals		
	\$883.58	X	1.0	\$883.58	oublotals & Totals		
Material Total:	AND THE PROPERTY.	X	1.0	\$0.00			
Material From T&M Recap Sheet:	\$0.00			\$0.00			
Total Quotes:	\$0.00	X	1.0				
Total Freight:	\$0.00	^	1.0	\$0.00	¢002 E0		
SUBTOTAL:					\$883.58		
LABOR:	05.50	.,	000.00	00 077 00			
Straight-time Labor:	65.58	X	\$36.26	\$2,377.93			
Overtime Labor @ time & one half:	0.00	Х	\$57.31	\$0.00			
Double Time Labor:	0.00	Х	\$74.50	\$0.00			
Instrumentation Straight Time Labor:	0.00	Х	\$75.00	\$0.00			
Total Manhours:	65.58						
Labor from Time and Material Sheets:	# of Hrs & Labor Ext fro		0.00	\$0.00			
General Foreman Straight-time Labor (10% of Man Hrs):	65.58	6.56					
General Foreman Straight-time Labor:	6.56	X	\$57.44	\$376.69			
General Foreman Overtime Labor (10% of Man Hrs):	0.00	0.00		24.4.4			
General Foreman Overtime Labor @ time & one half:	0.00	X	\$79.78	\$0.00			
General Foreman Double Time Labor (10% of Man Hrs):	0.00	0.00					
General Foreman Double Time Labor:	0.00	X	\$102.12	\$0.00			
Estimating Time:	0.00	Х	\$71.87	\$0.00			
Mat. Proc. & Handle (5% of Labor Cost):	0.00	X	5.00%	\$0.00			
Update As-Built Dwg's:	1.00	Х	\$59.86	\$59.86			
SUBTOTAL:				\$2,814.48	\$2,814.48		
DIRECT JOB EXP:							
Consumables/Expendable Tools (6% of Mat.):	\$883.58	X	3.00%	\$26.51			
Drawing Reproduction and or BIM:	\$0.00	Х	1.0	\$0.00			
Safety @ \$0.50/MH:	72.14	Х	\$0.50	\$36.07			
Equipment:	\$0.00	Х	1.0	\$0.00			
Project Mngmt: 5% of Labor:	2,814.48	X	0%	\$0.00			
Total Subcontractors Quotes:	\$0.00	X	1.0	\$0.00			
SUBTOTAL Direct Job Exp:	ψ0.00			\$62.58	\$62.58		
Credit:	\$0.00	X	1.0	\$0.00	\$0.00		
Material/Labor/DJE/Credit SUBTOTAL:	Ψ0.00	^	1.0	ψ0.00	\$3,760.64		
Warranty:	\$3,760.64	X	0%	\$0.00	\$0.00		
SUBTOTAL:	Ψ5,100.04	^	070	ψ0.00	\$3,760.64		
Material Sales Tax @ 8.25% if Project is Taxable:	\$883.58	X	0.00%	\$0.00	\$0.00		
	\$3,760.64	x	2%	\$75.21	\$75.21		
Liability/Builders Risk:	\$3,700.04	^	270	\$15.21			
SUBTOTAL:					\$3,835.85		
MARK-UPS:	00 005 05	V	450/	AF7F 00	0575.00		
Overhead/Profit @ 15%	\$3,835.85	X	15%	\$575.38	\$575.38		
SUBTOTAL:					\$4,411.23		
Total Subcontract Values:	\$0.00	X	1	\$0.00	\$0.00		
Overhead/Profit for Subcontract @ %		X	15%	\$0.00	\$0.00		
					\$4,411.23		
					40.55		
SUBTOTAL:	A		4 604		\$0.00		
Bond Premium:	\$4,411.23	X	1.0%	\$44.11	\$44.11		
CHANGE ORDER TOTAL:					\$4,455.34		

Description	Quantity	Trade Price	Price Unit	Net Price	Labor	Labor Unit	Total Material	Total Hours
GRS 1/2" 1"/# 6 CW GRD CLAMP	3	850.88	С	850.88	1.4	E	25.53	4.2
3/4" ARC (AL)	60	277.27	С	277.27	0.096	E	166.36	5.77
1" ARC (AL)	10	401.31	С	401.31	0.105	E	40.13	1.05
1" AL LOCKNUT	2	159	С	159	0.07	Ε	3.18	0.14
1" AL GRD BUSHING	1	650	С	650	0.875	E	6.5	0.88
3/4" AL STRUT CLAMP	12	497	С	497	0.053	E	59.64	0.63
1/2" LT FLEX .	15	297	С	297	0.07	E	44.55	1.05
#12 XHHW 2 STRANDED	15	394.88	M	394.88	0.012	E	5.92	0.18
#14/2C THHN TRAY CABLE	600	527.64	М	527.64	0.019	E	316.56	11.42
#2 MECH LUG	6	136.29	С	136.29	0.875	Ε	8.18	5.25
HS 40 400 HEAT SHRINK	3	1599.53	С	1599.53	0.613	E	47.99	1.84
HS 500 1000 HEAT SHRINK	1	2344.18	С	2344.18	0.875	E	23.44	0.88
12.4" SUPER GRIP CABLE TIE (SGS)	100	30.99	С	30.99	0.088	Ε	30.99	5
3/4" FORM 7 ALUM T UNILET	3	6.29	E	6.29	1.75	E	18.87	5.25
3/4" FORM 7 ALUM LB UNILET	3	12.06	E	12.06	1.138	Ę	36.18	3.41
3/4" 1/2" ALUM REDUCING BUSHING	3	1.65	E	1.65	0.298	E	4.95	0.89
1/2" LT ARC (AL) STR CONNECTOR	3	5.78	E	5.78	0.263	E	17.34	0.79
EXISTING CONDITIONS	2	0	E	0	8	E	0	16
1/2" LT ARC (AL) 90EL CONNECTOR	3	9.09	E	9.09	0.315	Ε	27.27	0.95
Totals						883.58	65.58	

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PCO 86 Add Coating at SDB Polymer Containment

The drawings did not detail all locations for the protective coating in the polymer handling areas. The intent was for the coating to be under locations with possibility of polymer spills. Unistrut containment bars were also added to keep the polymer from getting to areas outside of the collection trench.



January 7, 2014

Freese and Nichols. 945 Resaca Street Corpus Christi, TX 78401 Attention: Steve Eckersley, P.E.

RE: New Broadway WWTP; Graham New Broadway PCO-86 Added Coating SDB Containment Area

Mr. Steve Eckersley P.E.

In accordance with the requirements of General Conditions Article 10, Graham Construction Services is providing written notification of a cost and time impact associated with the Added Coating SDB Containment Area.

The initial GC/Subcontractor estimate for this price increase is approximately \$11,387.85 for this additional work. We will advise Freese and Nichols, regarding the actual impact costs once they are known. Graham will request to be reimbursed for all increased cost due to this change. Please contact me if you have any questions on this matter. Thank you.

Sincerely, GRAHAM CONSTRUCTION SERVICES, INC.

John Crowell P.E. Sr. Project Manager

Site Office: 361-881-1279

Cell: 361-446-6430

CC: Greg Ritke, Graham Construction Services, Inc. Patrick Phelps, Graham Construction Services, Inc.

New Broadway WWTP, Corpus Christi, TX PCO# 86 Added Coating SDB Containment Area PCM#:

RFP#:

Change Description:

Tax Rate:

Description	Tenedic = T	Function Code	Otv	Uof M	Avg crew Rate	Total Hours	Labor Unit Hours	Material Unit Price	Equip Unit Price	Sub Unit	Total Labor	Payrol Taxes & Insurance	Labor w/PTI	Material Cost	Equipmen t Cost	Sub Cost	Total Cost
Estimate Preparation		0104165		1 HR	30.00	1.00	1.0000	\$0.00	\$0.00	\$0.00	\$30.00	\$12.00	\$42.00	\$0.00	\$0.00	\$0.00	\$42,00
Budget Revisions	100000	0104620		1 HR	75.00	0.00	1.0000	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	50.00	\$0.00
Forman	distributed to	0104130		4 HR	37.50	0.00	1.0000	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Site Scheduler		0105130		OHR	40.00	0.00	1.0000	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
					29.10	0.00			50.00	55.55	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
			a formation		29.10	0.00					\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Added Coating SDB					100000000000000000000000000000000000000	0.00					50.00	30.00	30.00	30,00	30.00	30.00	50,00
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	Faller U		31		29.10	0.00					\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
	Te Million		1		29.10	0.00				53.50	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
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	Surane.	and the state of	Sivino		29.10	0.00			SHE THE		\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
	LUKE	St. Julian			29.10	0.00					\$0.00	\$0.00	\$0.00	\$0,00	\$0.00	\$0.00	\$0,00
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			A CONTRACTOR OF THE PARTY OF TH		29.10	0.00			PURSUE N		\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
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Sales Tax on Consumables:	S0				4	0.00								\$0.00			\$0.00
				_		0.00						-					
Subtotal:						1.00	War and the same			ACC. TO LINE			\$42.00	\$0.00	\$0.00	\$9,000.00	\$9,042.00
				-													\$0.00
Safety		0151801		-										\$1.05			\$1.05
Small tools	-	0152990		-										\$2.63			\$2.63
Consumables	-	0152903		-										\$5.25			\$5,25
	-			-			1										\$0.00
Subtotal:	-	-		-		1				NA.1-75	100 April 100		\$42.00	\$8.93	\$0.00	\$9,000.00	\$9,050.93
Subtrade Bond		0174400		-													
	-	0174400	_	-										\$1,350.00			\$1,350.00
Performance & Payment Bond Builders Risk	-	0174350		-										\$67.61			\$67.61
	-	0175100		-										\$87.37			\$87.37
General Liability Insurance	-	0175220		-										\$31.14			\$31.14
Subtotal:	10.000	2 14 10		A ROSE	E17 (98)	f-r-cy	graph and		Kirkstel			State weeks	\$42.00	\$1,545.04	\$0.00	\$9,000.00	\$10,587.04
Overhead & Profit		0192310	Č							tu me				\$688.06			\$688.06
Texas Franchise Tax		0176000											·	\$112.75			\$112.75
TOTAL:	lace a		Maria I	700			DIVINE COST	Marcha St. 2		Saul Service		ELIVER DE	\$42.00	\$2,345,85	\$0,00	\$9,000.00	\$11,387.85

PCO 88 PCM 48 (PCO 88) Fire Suppression @ Administration Building

Carollo requested a cost proposal to install a dry pipe fire suppression system in the garage area and identify impacts to the fire suppression system. The objective was to reduce ongoing maintenance issues for a wet pipe system in that environment. RFI 312.



4055 International Plaza, Suite 200 * Fort Worth, Yexas 76109 * 817-735-7300 * fax 817-735-7491

Owner:	City of Corpus Christi
Contractor:	Graham Construction
Project Name:	New Broadway WWTP Project
Engineer/CM:	Carollo / Freese and Nichols

PCM Title: Dry Pipe Fire Protection System

PCM Description:

Per direction from Carollo's RFI 312.1 response and Change Directive 22, Graham was requested to provide a cost proposal for a dry fire extinguishing system.

The Contractor's cost proposal for the work described above has been reviewed by the CM Team and Owner. Reference the cost summary below and attached PCO-88 detailing the additional cost.

Construction Manager's Request:

- Provide a cost time proposal for the work detailed above. By: Adam Payne 9/18/14
- Date: 6/27/14

Contractor's Response:

Change in Contract Cost: ADD \$29,361.20 ESTIMATED GC 9/18/14 Change in Contract Time: NO CHANGE IN CONTRACT TIME JC 9/18/14

RECOMMENDED BY Steve Eckersley, P.E. Construction Manager

APPROVED BY John Crowell, P.E.

Signature

APPROVED BY Valerie Gray Owner

9/15/14

PCO-88

Date: PCM No: 48 Ref:

Signature

Date

Change Directive # 22

Corpus Christi New Broadway WWTP Carollo Program

Printed 09/18/2014, Page 1 of 1



Dry Pipe Fire Extinguishing System

Submitted:

06/27/2014

Submitted To:

Carollo Engineers, City of

Corpus Christi, Freese &

Nichols, Graham Construction, John Crowell, Jong Pak

o.

Revision Date:

Status: Priority: Pending

Low

Created By:

Freese & Nichols, Adam Payne

Created:

06/27/2014

Design Clarification:

In Carollo's RFI 312.1 response, item 1 asked Graham to provide a cost proposal for a dry fire extinguishing system.

Contractor to provide cost proposal if additional cost and/or time impacts to the CPM are incurred by this Change Directive.

Locations

19-Administration/Operations/Maintenance Building

References

RFI#312.1

Admin Bldg-Water lines

Closed

-Garage

Specification # 13930 Drawing # 275-61-A-19 Change to Dry Pipe

Published

Published

Steve Eckersley

From: Sent: John Crowell <johncro@grahamus.com> Tuesday, September 16, 2014 3:47 PM

To:

Steve Eckersley

Cc: Subject: Greg Ritke; Patrick Phelps; Clay Howard

Attachments:

RE: PCO 088 rev1 Dry Pipe Fire Protection System

PCO 88 rev1a- Dry Pipe Fire Protection System-Total Fire Prot only.pdf; Holes of SA Coring T-M Rates Admin Bldg.pdf; RFI_301.4_Dry_System_Core_Layout.pdf; Total Fire Dry Pipe Quote RFI 312 1-PCO 088 piping Mat-Lab.pdf; Total Fire-pricing Coord-Engr-

Inspect.pdf

Steve,

Graham has provided an additional rate sheet for coring of the holes for the Dry Fire Protection System (coring by Holes of San Antonio). These coring costs are not available on a lump sum basis, but shown on a time and material basis, due to the large degree of risk related to the amount of rebar encountered in the coring operation.

Graham is providing this estimated costs in a good faith effort to keep this project moving forward without further impacts to this work. Ideally Holes of San Antonio will be able to accomplish this work over a two week period, which would include fourteen 5inX24in deep cores and six 6inX24in deep cores. The amount of rebar encountered cannot be estimated, therefore the number of holes per day, duration and overtime are indeterminate.

Time is of the essence in this Dry Fire Protection work, since the Dry Fire Protection Contractor is now on site and the coring must begin immediately to stay on track. Please proceed with securing approval to allow Graham to minimize any impacts to this Dry Fire Protection work. Please let me know if you have any questions. Thank you.

Please note that Electrical interferences in this area of the project shall be submitted under a separate PCO.

John Crowell P.E.

Sr. Project Manager

GRAHAM

Your Construction Solutions Partner

9709 Third Avenue NE, Suite 300 | Seattle, WA 98115 Office: 361.881.1279 | Direct: 361.446.6430 | Fax: 206.729.8845

johncro@grahamus.com | www.grahamus.com

COMMITMENT | INTEGRITY | RELIABILITY

From: John Crowell

Sent: Thursday, September 11, 2014 1:49 PM

To: 'swe@freese.com'

Cc: Greg Ritke; Patrick Phelps; Clay Howard

Subject: PCO 088 rev1 Dry Pipe Fire Protection System

Steve,

Attached you will find the revised pricing for PCO 088 rev1 for the Dry Fire Protection System. This revision now includes the updated Coring layout approved by the Engineer's site visit and field report on the core locations. As stated in RFI # 301.4 a total of 6 cores have been added on the East side. Core diameters shown on the drawing markup are to be 5in diameter.

Please be advised that this represents costs for Total Fire Protection scope of work only. Some Electrical work will be required to energize the Air Compressor for this system. Since this work involves piping interferences and conflicts with the structural beams in the lower level of the Admin Building, Graham is submitting this as a proposed change request. Prior to moving forward with this work, Graham will require an acknowledgement of entitlement for payment to commence coring operations. Please expedite this request if possible. Please let me know if you have any questions. Thank you.

Please note that Electrical interferences in this area of the project shall be submitted under a separate PCO.

John Crowell P.E. Sr. Project Manager

(GRAHAM

Your Construction Solutions Partner

9709 Third Avenue NE, Suite 300 | Seattle, WA 98115 Office: 361.881.1279 | Direct: 361.446.6430 | Fax: 206.729.8845 johncro@grahamus.com | www.grahamus.com

COMMITMENT | INTEGRITY | RELIABILITY

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New Broadway WWTP, Corpus Christi, TX
PCO# 88 Rev1a Dry Pipe Fire Protection System-Total Fire Prot only

PCM#:

RFP#:

Change Description: RFI 301.4 and RFI 312.1

Tax Rate:

		Function		Uof		Total	Labor Unit	Material	Equip	Sub Unit	Total	Payrol Taxes &	Labor		Equipmen		
Description	Touble = T	Code	Qty		Rate	Hours	Hours	Unit Price	Unit Price	Price	Labor	Insurance	w/PT1	Material Cost	t Cost	Sub Cost	Total Cost
Estimate Preparation		0104165		I HR	30.00	1.00	1,0000	\$0.00	\$0,00	\$0.00	00,002	\$12.00	\$42.00	\$0.00	00.02	00.00	\$42.00
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Dry Pipe Fire Protection Syst-				-	29.10	0.00					50.00	\$0.00	00,00	\$0.00	\$0,00	\$0.00	\$0.00
Total Fire Protection only				lot	29.10	0.00				\$9,066.36	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$9,066.36	\$9,066.36
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Coord-Engineering-Inspection - Total Fire Prot				llot	29.10	0.00				\$2,155.00	\$0,00	\$0,00	\$0.00	\$0.00	\$0.00	\$2,155.00	\$2,155.00
104114				1100	29.10	0.00		7.		32,133.00	\$0.00	\$0.00	50.00	\$0.00	\$0.00	\$0.00	\$0.00
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only-see T&M Rates Holes				lot	29,10	0.00				нининини	\$0.00	\$0.00	\$0.00	\$0,00	\$0.00	\$11,700,00	\$11,700.00
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					29.10	0.00					\$0.00		\$0.00	\$0.00	50.00	\$0.00	\$0.00
			Line		29.10	0.00					\$0,00	\$0,00	00.02	\$0.00	\$0.00	\$0.00	\$0.00
					29.10	0.00			PERSONAL PROPERTY.		\$0,00		\$0.00	\$0.00	\$0.00	\$0.00	\$0,00
Sales Tax on Consumables:	S0					0.00								\$0,00			\$0.00
						0.00									_		
Subtotal:						6.00							\$357.00	\$0.00	\$0.00	\$22,921.36	\$23,278.36
																	\$0.00
Safety		0151801												\$8.93			\$8.93
Small tools		0152990												\$22.31			\$22.31
Consumables		0152903		_										\$44.63			\$44.63
				_													\$0,00
Subtotal:	-	_		-									\$357.00	\$75.86	\$0,00	\$22,921.36	\$23,354.22
Subtrade Bond		0174400	-											\$3,438.20			\$3,438.20
Performance & Payment Bond		0174350												\$174.15			\$174.15
Builders Risk		0175100						No Service Company						\$225.06			\$225.06
General Liability Insurance		0175220		-										\$80.22			\$80,22
Subtotal:													\$357.00	\$3,993.49	00.02	\$22,921,36	\$27,271.85
Overhead & Profit		0192310										1		\$1,798.64			\$1,798.64
A Company of the Comp																	
Texas Franchise Tax	-	0176000												\$290.70			\$290.70
TOTAL:													\$357.00	\$6,082.84	\$0.00	\$22,921.36	\$29,361.20

Off CAROLL DEPARTMENT DEPARTMENT Services STL-171 SUL 277 - 466 OCCUPIED LEVEL FOUNDATION PLAN
AMMERICATION/OPERATIONS/LUMINDERINGE BULDING ATE CHOUSE, PO CHOUSE, CORPUS CHRISTI CHY OF CORPUS CHRISTI MESTEWATER TREATMENT PLANT 13 LNV ENGINEERING ... Sica of bons to be system. The possible, Slight advisored may be received on the lay be received on the lay be needed WHENTER OF OCCUPATE LANDS OF STREET (E) PLAN - OFFICE / MAINTENANCE BUILDING OCCUPIED LEVEL FOUNDATION (6) 2 1 (6) THE THE GLEV, 15.17 1 (1) 1 1. Core regions a
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Phone: (605) 582-2400 Fax: (605) 582-7360



July 17, 2014

Graham Construction 9709 Third Ave. NE. Suite 300 Seattle Wa. 98115

Attention: Jong Pak

Project: Broadway WTP
Corpus Christi Tx

Description: Additional Cost

The following is a breakdown of additional cost.

 Coordinate lower level piping Engineering changes Inspection fee for the dry pipe 	0 \$	880.00 900.00 375.00
---	------	----------------------------

Total additional work \$ 2,155.00

Any questions please contract myself.

MA / PAR

Total Fire Protection

Richard C. Brandt

24 Hour Service

Commercial

· Industrial

Residential



Brandon, SD 57005

Phone: (605) 582-2400 Fax: (605) 582-7360



April 2, 2014

Graham Construction 9709 Third Ave. N.E. Suite 300 Seattle Wa. 98115

Attention: Jong Pak

Project: New Broadway WWTP Corpus Christi Tx.

Description: Change Order to RFI # 312.1

Add one dry pipe valve and trim complete with air Compressor, the following is a breakdown of this change request.

1. One	4" grooved Tee	\$44.85
2. One	4" grooved cap	\$16.65
3. Ten	4" grooved couplings	\$153.80
4. Two	4" grooved 90's	\$28.96
5. One 4	4" grooved Butterfly/ tamper switch	\$347.90
6. One	4" Dry Pipe Valve	\$1675.75
7. One (iry Pipe Trim Kit	\$607.58
8. One /	Air Maintenance Devise	\$476.63
9. One f	S-10 pressure sw.	\$134.78
10. One f	S-40 pressure sw.	\$134.78
11. One 1	. ¼ brass check valve	\$47.38
12. One	1hp compressor 120 volt single phase	\$1630.23
13. Alrlin	e materiai	\$86.78
14. Drain	line material	\$112.45

Total Materia	al	\$5498.52
Sales Tax		\$384.89
Total Labor	25 man hour @ 78.65	\$1966.25

Total Material and Labor \$7849.66

10% profit \$784.96 5 % overhead \$431.73 **Total change order** \$9066.36

Total Fire Protection MI CB,

Richard C. Brandt



QUOTE

QUOTE #: 072613

HOLES OF SAN ANTONIO, INC

118 BRANIFF - SAN ANTONIO, TEXAS 78216 (210) 349-5256 - (800) 756-5208 FAX (210) 349-0727

CUSTOMER INFORMATION

GRAHAM CONSTRUCTION 2995 LONE OAK CIRCLE

SUITE 1

EAGAN, MN 55121

(651) 687-0648

Fax: (651) 687-0947

Quoted To:

CLAY

Salesman:

GEORGE MAJOR JR.

JOB INFORMATION

PO #:

Job Request #:

Quote Entered: 09/16/14

Time: 10:05 am

General Contractor:

Owner:

Contact on Site:

JOB SITE INFORMATION

WASTE WATER TREATMENT PLANT 945 RESACA ST.

CORPUS CHRISTI, TX

County:

MapCode:

Project ID: None

Needed At Site

[] SEE INSTRUCTIONS

Elevation:

Distance To Site:

- Details -

Description

Unit Price

1.00 5" X 24" DEEP CORES IN A BEAM \$250.00 EACH 6" X 24" DEEP CORES IN A BEAM \$325.00 EACH

MINIMUM CALL OUT \$1000.00 TRVEL CHARGE ROUND TRIP \$500.00 PERDIEM PER MAN \$125.00 PER DAY

OVER TIME IS \$25.00 PER HOUR PER MAN

TOTAL:

0.00

0.00

0.00

Site/Job Considerations & Condition

This quote is based on the following unless otherwise stated:

1. Work to be laid out prior to our arrival on the job. 2. #4 rebar 12" on center each way. 3. Stand-by time is charged at \$95,00 per hour per operator and \$35,00 per hour per helper. 4. Our current insurance, ANY additional insurance requirements are not included. 5. Send resale exemption certificate if tax is not applicable, otherwise tax will be added to this quote. 6. Normal working hours Monday through Friday 8:00 am to 4:30 pm. 7. No grade beams. 8. Quote is good for 6 months.

THE UNDERSIGNED PURCHASER ASSUMES ALL LIABILITY FOR THE LAYOUT OF THE REQUESTED WORK AND FURTHER ASSUMES ALL LIABILITY FOR THE CUTTING OF TELEPHONE CABLES, ELECTRICAL WIRES, CONDUITS, PLUMBING OR OTHER UTILITIES, AND STRUCTURAL STEEL OR CABLE BURIED IN OR NEAR THE MATERIAL BEING CUT.

THE PURCHASER AGREES TO COVER AND MAKE SAFE ANY OPENING MADE BY HOLES OF SAN ANTONIO, INC. THE PURCHASER AGREES TO INDEMNIFY HOLES OF SAN ANTONIO, INC. FOR ANY DAMAGES ARISING OUT OF ANY SUCH OCCURANCE, AND FURTHER ACKNOWLEDGES THAT THIS INDEMNITY PROVISION HAS BEEN BROUGHT TO ITS ATTENTION.

Quote Accepted by

MOBILE NUMBER

NEXTEL DIRECT CONNECT NUMBER

PCO 89 ECR 1 30 Inch Spool Pieces

Purchase of spool pieces to install in the 30 inch air pipe at ECR 1 in lieu of expansions joints.

New Broadway WWTP, Corpus Christi, TX PCO# 89 Area 22 Blower Pipe 30ni SS Spool Pieces Material Only

PCM#:

RFP#:

Change Description:

Tax Rate:

				I			Labor					Payrol					
Description	Tautie = T	Function Code	Oty	Uof M	Avg crew	Total Hours	Unit	Material	Equip	Sub Unit	Total	Taxes &	Labor		Equipmen		
Estimate Preparation	Tatable = 1	0104165		HR	30.00	1.00	1,0000	Unit Price	Unit Price	Price	Labor	Insurance	w/PTI	Material Cost	t Cost	Sub Cost	Total Cost
Budget Revisions		0104103		HR	75.00	0.00	1.0000	\$0.00	\$0.00	\$0.00	\$30.00	\$12.00	\$42.00	\$0.00	\$0.00	\$0.00	\$42.00
Forman		0104620		HR	37.50	0.00	1.0000	00.02	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	00.00	\$0.00	00.00	\$0.00
Site Scheduler		0104130		HR	40.00	0.00	1.0000	\$0.00	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00	S0.00 S0.00	\$0.00	\$0.00	50.00	\$0.00	\$0.00
Site Selledulei		0103130	0	FIR	29.10	0.00	1.0000	\$0.00	50.00	50.00			\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
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Four 30in SS Spool Pieces			4	-	29.10	0.00		62.002.14			\$0.00	00.00	\$0.00	\$0.00	\$0,00	\$0.00	\$0.00
Four John 33 Spoot Freces			4		29.10	0.00		\$2,082.14			\$0.00	\$0.00	\$0.00	\$8,328.57	\$0.00	\$0.00	\$8,328.57
				-	29.10						\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	00.00	\$0.00
				-	29.10	0.00					\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
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				-	29.10	0.00					\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
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				-	29.10	0.00						\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
	Service and			lea	29.10	0.00					\$0.00 \$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00 \$0.00	\$0.00
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outes that our consumations,	1				-	0.00								30.00			30.00
Subtotal:				_		1.00	V	Market and the second		Wanton And		Total Control Control	\$42.00	\$8,328,57	\$0.00	\$0.00	\$8,370.57
						1.00					7.0.00		342.00	30,020.01	30.00	30.00	\$0.00
Safety		0151801												\$1.05			\$1.05
Small tools		0152990												\$2,63			\$2.63
Consumables		0152903												\$5.25			\$5.25
				1										33.23			\$0.00
Subtotal:					1000 - 1 A	10 - 12	Service Service		Black Change (St	THE PERSON NAMED IN		RYS. AND DESCRIPTION	\$42.00	\$8,337.50	\$0.00	\$0.00	\$8,379,50
													542.00	30,557,50	30.00	30.00	30,577,50
Subtrade Bond		0174400						- La van						\$0,00			\$0.00
Performance & Payment Bond		0174350												\$54,47			\$54,47
Builders Risk		0175100				4								\$70,39			\$70.39
General Liability Insurance		0175220												\$25.09			\$25.09
Calcarda				-											ar a succession		
Subtotal:	-					(40)		ADDRESS S	Mary Sales		A SEA OF STAN	BUILD ACM	\$42.00	\$8,487.44	\$0.00	\$0.00	\$8,529.44
Overhead & Profit		0192310												\$1,279.42			\$1,279.42
Texas Franchise Tax		0176000		-					-					500.00			\$98.09
resus runemse rux		0170000												\$98.09			398.09
TOTAL:			birt d		Es and R	6.00							\$42.00	\$9,864.94	\$0.00	\$0.00	\$9,906.94

From:

Bruce.Terrell@Ferguson.com

To:

John Crowell

Subject:

RE: Email Bid# B236396

Date:

Friday, September 27, 2013 9:52:59 AM

Attachments:

image001.gif

John, they can make these spools in a week. The expansion joints have been passivated which means they will be ready to ship in the next couple of days. In other words to late to cancel.

From: John Crowell [mailto:johncro@grahamus.com]

Sent: Friday, September 27, 2013 9:14 AM To: Terrell, Bruce [Ferguson] - 1107 Plant Subject: RE: Email Bid# B236396

Bruce,

Thanks for the rapid response.

Did the bidder give a lead time for the spool pieces?

Also 'Ship to address' to change to Graham Construction - New Broadway Wastewater Treatment Plant 945 Resaca Street, Corpus Christi, TX 78401

I will pass this info along to the Construction manager and City this morning and get back to you as soon as I hear anything.

The City is evaluating whether or not to cancel the three 30in Omniflex EJs previously released to fab. I asked if you would check on the status or fabrication and to see what (if any) credit the city could get back, if they decide to cancel those four Omniflex EJs. I will pass that info to them as soon you let me know. Thanks.

Thanks again for your quick response.

John Crowell P.E. Sr. Project Manager

Your Construction Solutions Partner

9709 Third Avenue NE, Suite 300 | Seattle, WA 98115 Office: 361.881.1279 | Direct: 361.446.6430 | Fax: 206.729.8845 johncro@grahamus.com | www.grahamus.com

COMMITMENT | INTEGRITY | RELIABILITY

From: Bruce Terrell - 1107 HOUSTONWW [mailto:bruce.terrell@ferguson.com]

Sent: Thursday, September 26, 2013 4:59 PM

To: John Crowell

Subject: Email Bid# B236396

Price Quotation # B236396

FERGUSON ENTERPRISES, INC.

6825 WALLISVILE ROAD FERGUSON WATERWORKS # 1105 HOUSTON, TX 77020-3258 Phone: 713-675-2211

Fax: 713-676-0803

Bid No.....: B236396

Bid Date ...: 09/26/13

Quoted By: AA Customer.: GRAHAM CONSTRUCTION SVCS INC

NEW BROADWAY WWTP 2995 LONE OAK CIRCLE STE 1

EAGAN, MN 55121

Cust Phone: 651-687-0648

Terms.....: NET 10TH PROX

Ship To.....: GRAHAM CONSTRUCTION SVCS INC

NEW BROADWAY WWTP 2995 LONE OAK CIRCLE STE 1

EAGAN, MN 55121

Cust PO#..: CHANGE ORDER

Job Name.: NEW BROADWAY WWTP

Item	Description	Quantity	Net Price	UMI	Total
SP-30X24DOLRNG	30 X 24.8 DOL RING X DOL RING	4	2082.143	EA	8328.57
	PIPE: SCH 10 304L SS				

Subtotal:

\$8328.57

Inbound Freight:

\$0.00

Tax:

\$0.00

Order Total:

\$8328.57

Quoted prices are based upon receipt of the total quantity for immediate shipment (48 hours), SHIPMENTS BEYOND 48 HOURS SHALL BE AT THE PRICE IN EFFECT AT TIME OF SHIPMENT UNLESS NOTED OTHERWISE. Seller not responsible for delays, lack of product or increase of pricing due to causes beyond our control, and/or based upon Local, State and Federal laws governing type of products that can be sold or put into commerce. This Quote is offered contingent upon the Buyer's acceptance of Seller's terms and conditions, which are incorporated by reference and found either following this document, or on the web at http://wolseleyna.com/terms_conditionsSale.html. Govt Buyers: All items quoted are open market unless noted otherwise.

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PCO 90A-Electrical reroute @ Administration Building

Move the electrical conduits in the parking area due to height restrictions. All identified alternatives to this relocation have been eliminated as possibilities.

Change Order Request



Authorized Signature

C.O.R. # 180018-024

G.C. #

Date:

/2014

Project Name: 180018 Br	oadway WWTP		Project #:	180	018
To: Graham Construction Attn: John Crowell	Services, Inc.	From:	Electric		
2995 Lone Oak Circle Eagan , Mn 55121	, Suite 1		Corpus Christi, TX 7841		
Phone: (651) 687-0648	Fax: (651) 687-0947		Phone: (361) 248-4901	Fax:	(361) 248-4906
We hereby propose to make	e the following changes:				
Core Beams Exclude:	& Raise Conduit				
- Overtime Labor Costs - Structural Integrity of Build	ling after Core Drilling				
			Change Order Pri	Ce	
			Original Contract Amou	nt	\$6,480,000.00
This price is good for 20 day	s. If conditions change, this prid	e is void.			
We are requesting a time ex	tension of days in conjunction	n with thi	S		
change.	/2014				
Author	Date Sent				
accep	bove prices and specifications of ted. All work to be performed u ct unless otherwise specified.	of this Cha	ange Order request are sat e terms and conditions as	isfactor specifie	y and are hereby d in original

Date of Acceptance

Rosendin Electric CHANGE ORDER SUMMARY SHEET

Project Name: Broadway WWTP					
Change Description: Admin Building Conduit Core & Rais	е				
REI Change No.:					: 7-Nov-14
				Taxable	The state of the s
MATERIAL/QUOTES:	Amount	Op	Rate	Extension	Subtotals & Totals
Material Total:	\$22,570.12	X	1.0	\$22,570.12	
Material From T&M Recap Sheet:	\$0.00	X	1.0	\$0.00	
Total Quotes:	\$0.00	Х	1.0	\$0.00	
Total Freight:	\$0.00	X	1.0	\$0.00	
SUBTOTAL:					\$22,570.12
LABOR:	Principles of the Control of the Con				
Straight-time Labor:	494.42	Х	\$39.76	\$19,658.14	
Overtime Labor @ time & one half:	0.00	Х	\$57.31	\$0.00	
Double Time Labor:	0.00	X	\$74.50	\$0.00	
Instrumentation Straight Time Labor:	0.00	X	\$75.00	\$0.00	
Total Manhours:	494.42		2	2000	
Labor from Time and Material Sheets:	# of Hrs & Labor Ext fro		0.00	\$0.00	
General Foreman Straight-time Labor (10% of Man Hrs):	494.42	49.44		40 10 00	
General Foreman Straight-time Labor:	49.44	X	\$57.44	\$2,839.95	
General Foreman Overtime Labor (10% of Man Hrs):	0.00	0.00		120000 000000	
General Foreman Overtime Labor @ time & one half:	0.00	X	\$79.78	\$0.00	
General Foreman Double Time Labor (10% of Man Hrs):	0.00	0.00			
General Foreman Double Time Labor:	0.00	X	\$102.12	\$0.00	
Estimating Time:	0.00	X	\$71.87	\$0.00	
Mat. Proc. & Handle (5% of Labor Cost):	19,658.14	X	5.00%	\$982.91	
Update As-Built Dwg's:	0.00	X	\$59.86	\$0.00	
SUBTOTAL:				\$23,480.99	\$23,480.99
DIRECT JOB EXP:					
Consumables/Expendable Tools (6% of Mat.):	\$22,570.12	X	3.00%	\$677.10	
Drawing Reproduction and or BIM:	\$0.00	X	1.0	\$0.00	
Safety @ \$0.50/MH:	543.86	X	\$0.50	\$271.93	
Equipment:	\$2,600.00	X	1.0	\$2,600.00	
Project Mngmt: 5% of Labor:	23,480.99	X	5%	\$1,174.05	
Total Subcontractors Quotes:	\$0.00	X	1.0	\$0.00	
SUBTOTAL Direct Job Exp:				\$4,723.08	\$4,723.08
Credit:	\$0.00	X	1.0	\$0.00	\$0.00
Material/Labor/DJE/Credit SUBTOTAL:					\$50,774.20
Warranty:	\$50,774.20	X	0%	\$0.00	\$0.00
SUBTOTAL:					\$50,774.20
Material Sales Tax @ 8.25% if Project is Taxable:	\$22,570.12	X	0.00%	\$0.00	\$0.00
Liability/Builders Risk:	\$50,774.20	X	2%	\$1,015.48	\$1,015.48
SUBTOTAL:					\$51,789.68
MARK-UPS:					
Overhead/Profit @ 15%	\$51,789.68	X	15%	\$7,768.45	\$7,768.45
SUBTOTAL:					\$59,558.14
Total Subcontract Values:	\$17,738.00	X	1	\$17,738.00	\$17,738.00
Overhead/Profit for Subcontract @ %	\$11,700.00	x	15%	\$0.00	\$0.00
Overhead/1 folic for outscontract to 70		^	1070	ψυ.υυ	\$77,296.14
SUBTOTAL:	tal along the book of the	200	gr gereater	A consistence of the contract	\$0.00
Bond Premium:	\$77,296.14	X	1.0%	\$772.96	\$772.96
CHANGE ORDER TOTAL:					\$78,069.10

Description	Quantity	Trade Price U	Jnit Labo	r Unit	Total Material	Total Hours	Material Condition
1 SHORTEN EXISTING TRAPEZE	6			0 E	0		Normal
2 2" EMT CONDUIT	408	791.79	:	12 C	3,230.50	48.96	Normal
3 2 1/2" EMT CONDUIT	286	1,172.84 (: 14	.2 C	3,354.32	40.61	Normal
4 2" EMT 90 DEG ELBOW	15	1,121.00 (75 C	168.15		Normal
5 2 1/2" EMT 90 DEG ELBOW	11	•		90 C	284.02		Normal
6 2" EMT INS STL COMP CONNECTOR	12	-		75 C	582.6		Normal
7 2 1/2" EMT INS STL COMP CONNECTOR	8	•		90 C	323.86		Normal
8 2" EMT STL COMP COUPLING	45	•		45 C	1,647.30		Normal
9 2 1/2" EMT STL COMP COUPLING	31	•		50 C	945.04		Normal
10 2" EMT 1-H STEEL STRAP	18	•		35 C	277.6		Normal
11 2 1/2" EMT 1-H STEEL STRAP	12 18			75 C	50.08 158.78		Normal
12 2" EMT STRUT CLAMP	10			6 C .5 C	53.98		Normal Normal
13 2 1/2" EMT STRUT CLAMP 14 2" GRC (GALV)	66			.5 C	1,335.32		Normal
15 2 1/2" GRC (GALV)	42	-		.5 C	1,591.98		Normal
16 2" GRC 90 DEG ELBOW	3			50 C	87.56		Normal
17 2 1/2" GRC 90 DEG ELBOW	3	•		25 C	153.24		Normal
18 2" GRC COUPLING	9	•		0 C	73.94		Normal
19 2 1/2" GRC COUPLING	7			0 C	142.42		Normal
20 2" GRC MYERS HUB	6	-		75 C	66.96		Normal
21 2 1/2" GRC MYERS HUB	4	-		90 C	181.9		Normal
22 3"> 2" REDUCING BUSHING	6			50 C	161.1	3.6	Normal
23 3 1/2">2 1/2" REDUCING BUSHING	6	4,664.75	: (57 C	279.88	4.02	Normal
24 2" GRC CUT & THREAD	9	0 0	1:	20 C	0	10.8	No Cost
25 2 1/2" GRC CUT & THREAD	7	0 0	1!	50 C	0	10.5	No Cost
26 2" GRC STRUT CLAMP	24	514.98 C	;	6 C	123.6	1.44	Normal
27 2 1/2" GRC STRUT CLAMP	10	583.81 C	. 7	.5 C	58.38	0.75	Normal
28 2" PVC END CAP (UG/EMBEDED)	3	935.91 C	: :	30 C	28.08	0.9	Normal
29 2 1/2" PVC END CAP (UG/EMBEDED)	2	2,290.16 C	: :	34 C	45.8	0.68	Normal
30 3"x7" NON ADJUSTABLE FLOOR SLEEVE	3	4.32 E		55 E	12.96	1.65	Normal
31 4"x7" NON ADJUSTABLE FLOOR SLEEVE	1	5.15 E		51 E	5.15	0.61	Normal
32 2" CONDUIT SEAL	3	213.16 E		34 E	639.48		Normal
33 2 1/2"-3" CONDUIT SEAL	1	282.62 E		2 E	282.62		Normal
34 1 5/8" SLOTTED GALVANIZED CHANNEL	174	510.98 C		.5 C	889.11		Normal
35 THRD-ROD-3/8-16-10FT-PLTD	105	123.16 C		.5 C	129.32		Normal
36 THRD-ROD-1/2-13-10FT-PLTD	18	274.99 C		.5 C	49.5		Normal
37 3/8" PLATED ROD COUPLING	10	376.65 C		3 C	37.66		Normal
38 1/2" PLATED ROD COUPLING	12	572.31 C		3 C	68.68		Normal
39 3/8" STEEL HEX NUT	20 36	13.77 C		25 C	2.75		Normal
40 1/2" STEEL HEX NUT 41 3/8" FLAT STEEL WASHER	20	23.6 C 8.1 C		0 C	8.5 1.62		Normal
42 1/2" FLAT STEEL WASHER	20	18.07 C		0 C	4.34		Normal Normal
43 3/8"x3 3/4" KB-TZ CRACKED CONCRETE ANCHOR	10	50.12 C		7 C	5.01		Normai
44 #10 XHHW-2 STRANDED	140	601.56 M		2 M	84.22		Normal
45 #2 XHHW-2 STRANDED	35	3,673.04 M		5 M	128.56		Normal
46 #4/0 XHHW-2 STRANDED	140	12,266.80 M		.5 M	1,717.35		Normal
47 #18 - 12 TWISTED PAIRS CABLE - #9741	35	3,853.00 N		9 M	134.85		Normal
48 POLYTWINE	376	12.11 N		6 M	4.55		Normal
49 4" CORE 6" WALL	12	0 E		3 E	0		Quoted
50 DEMO 1 1/4"-2" GRC CONDUIT	314	0 E	8.7	9 C	0		No Cost
51 DEMO 2 1/2"-3" GRC CONDUIT	170	0 E		4 C	0		No Cost
52 DEMO #14-#10 WIRE	1,204	0 M	5.8	6 M	0		No Cost
53 DEMO SURFACE MOUNTED STRUT	5	0 E	0.2	5 E	0	1.25	No Cost
54 DEMO TRAPEZE MOUNTED STRUT	6	0 E	0.3	3 E	0	1.98	No Cost
SS CUT ALLTHREAD	12	3 00.0	0.2	5 E	0.00	3	No Cost
56 REMOVE & RE-INSTALL CONDUIT TO FLR ABOVE	9	0 E		1 E	0		No Cost
57 18" X 30" J-BOX NEMA 4X	2	1,150.00 E	1.	1 E	2,300.00	2.2	Normal
58 2P #22 RS-485	70	225 C		4 C	157.5	2.8	Normal
59 DEMO/REWORK UNDERGOUND CONDUITS	1	0 E	4	8 E	0	48	Normal
60 WATERPROOFING NEW EXISTING CORE	1	500 E		4 E	500	4	Normal

\$ 22,570.12 494.42 TOTAL

New Broadway WWTP, Corpus Christi, TX PCO# 90A rev2 Admin Bldg Elevation Conflict Electrical Utilities-Rosendin

PCM#:

RFP#:

Change Description: Core and Reroute Admin Conduit Overhead from West side

Tax Rate:

Description	Taxalde = T	Function Code	Oty	Uof M	Avg crew Rate	Total Hours	Labor Unit Hours	Material Unit Price	Equip Unit Price	Sub Unit Price	Total Labor	Payrol Taxes & Insurance	Labor w/PTI	Material Cost	Equipmen t Cost	Sub Cost	Total Cost
Estimate Preparation		0104165	1	HR	30.00	1,00	1,0000	\$0.00	\$0.00	\$0.00	\$30.00	\$12.00	\$42,00	\$0.00	\$0.00	\$0.00	\$42.00
Budget Revisions		0104620	1	HR	75.00	1.00	1,0000	\$0.00	\$0.00	\$0.00	\$75.00	\$30.00	\$105.00	\$0,00	\$0.00	\$0.00	\$105.00
Forman		0104130	4	HR	37.50	4.00	1.0000	\$0.00	\$0.00	\$0.00	\$150.00	\$60.00	\$210,00	\$0.00	\$0.00	\$0.00	\$210,00
Site Scheduler		0105130	0	HR	40.00	0.00	1.0000	\$0,00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0,00	\$0.00
	Sau Die			261	29.10	0.00					\$0.00	\$0.00	\$0.00	\$0,00	\$0.00	\$0,00	\$0.00
	Contract	114713			29.10	0.00			ROLL IN		\$0.00	\$0.00	\$0,00	\$0.00	\$0,00	\$0.00	\$0.00
Graham Labor-Layout			1	HR	29.10	27.25	27.2500				\$792.98	\$317.19	\$1,110.17	\$0.00	\$0.00	\$0.00	\$1,110,17
Graham Labor-Inspection	Carrie B		1	HR	29.10	28.36	28,3642				\$825,40	\$330.16	\$1,155.56	\$0.00	\$0.00	\$0.00	\$1,155.56
Graham Labor-Coring	2022		- 1	HR	29.10	30.00	30,0000		Per Parent		\$873.00	\$349.20	\$1,222,20	\$0.00	\$0.00	\$0.00	\$1,222.20
		Article Committee	200		29.10	0.00			Juli Land		\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
					29.10	0.00			hay tomarine		\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0,00	\$0.00
	Revision 1		Maria IA		29.10	0.00			pro		\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Core Admin Bldg-Reroute Conduit Overhead from West - Rosendin Elect			,	lot	29.10	0.00		<u> </u>		\$78,069,10	\$0,00	\$0.00	\$0.00	\$0.00	\$0.00	\$78,069.10	\$78,069.10
	300000		Little 19		29.10	0.00				570,007.10	\$0.00	\$0.00	\$0.00	\$0.00	00.00	\$0.00	\$0.00
	1 100				29.10	0.00					\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Sales Tax on Consumables:	SO	6 8 8			6.3 35.7 36	0.00			des Comple		30,00	30.00	30.00	\$0.00	50.00	30.00	\$0.00
						0.00							0.7	55.00	Name and Address of the Owner, where		50.00
Subtotal:						91.61	0.1	Charles and the			Maritime de		\$3,844.92	\$0.00	\$0.00	\$78,069.10	\$81,914.03
													00,011,02			0.0,000.10	\$0.00
Safety		0151801												\$96.12			\$96.1
Small tools		0152990												\$240.31	1		\$240.3
Consumables		0152903												\$480.62			\$480.6
																	\$0.0
Subtotal:		¥1			a-102029	30 F 8	E-17-15-4	NAME OF STREET	Marine 3	6 CO 9 ITS L 53 (G)	And I I	ALC: NOTE:	\$3,844.92	\$817.05	\$0.00	\$78,069.10	\$82,731.0
Subtrade Bond	-	0174400		-										\$11,710.37	<u> </u>		\$11,710.3
Performance & Payment Bond		0174350		_										\$613.87	-	-	\$613.8
Builders Risk		0175100			-									\$793.31			\$793.3
General Liability Insurance		0175220												\$282.75			\$282.7
C 1 1																	
Subtotal:		1			ICHALLES		distribution of	Equilibrium (Control	MICH COLD			PARCAL TRACE	\$3,844.92	\$14,217.34	\$0.00	\$78,069.10	\$96,131.3
Overhead & Profit		0192310												\$6,612.79			\$6,612.7
Texas Franchise Tax		0176000												\$1,027,44			\$1,027.4
TOTAL:					- Tuesta	67.18 EV	Section 1		Propagation and the second	S. CHANGES			\$3,844.92	\$21,857.58	\$0.00	\$78,069.10	\$103,771.60

PCO 90B PCO 90B-Drain Line reroute and cores @ Administration Building

Drain line reroute to avoid conflict with fire suppression system. Carollo sub LNV requested a cost proposal for coring and rerouting of pipes to avoid conflict with the fire suppression system. RFI 301.

From:

John Crowell

To: Subject: John Crowell

Subject: Date: FW: 180018-024 Change Order - Updated Wednesday, February 18, 2015 10:46:28 AM

Attachments:

image002.png image005.png

From: Dustin Doyle [mailto:ddoyle@rosendin.com] Sent: Tuesday, September 23, 2014 5:50 PM

To: John Crowell

Cc: Brandon Wilson; Patrick Phelps; Clay Howard Subject: RE: 180018-024 Change Order - Updated

John, See below.

Total Price was \$64,363.00

-Plumbing Total: \$13,801.00 (includes OHP) Includes(4 Cores)

-Electrical Total: \$50,562.00 (includes OHP)

-Includes(22 Cores)

The \$17,738 subcontract value was the plumbing subcontractor quote and coring quote.

-Plumbing: \$10,730.00

-Total Coring (electrical and plumbing): \$7,008.00

The locations for the plumbing cores are marked on the beams (on site). The locations for the electrical coring will be the same route that the current conduits are located (just located in the beams above the conduit). I'll get you the coring sizes/diameters, but I cannot imagine how that would play a role in determining if the price is good?

Currently, we are looking at a 47 <u>working</u> day extension if the work can be done simultaneously. Within the <u>working</u> 40 days, we are estimating 7 <u>working</u> days of coring. We do not have overtime bid into this change order. We do not have multiple mobilizations bid into this change order.

If the owner elects to perform only the plumbing work, we will have a small adder to the Plumbing Total (\$13,801.00) to cover additional general conditions/supervision for monitoring subs. I will also have to confirm with the subcontractor on quantity of extended <u>working</u> days.

Please call me if further discussion is needed.

Sincerely,

Dustin Doyle South Texas Division Manager Rosendin Electric

Direct: 361-248-4901 ext 701

Fax: 361-248-4906 Cell: 512-844-9033



From: John Crowell [mailto:johncro@grahamus.com]

Sent: Monday, September 22, 2014 9:50 AM

To: Dustin Doyle

Cc: Brandon Wilson; Patrick Phelps; Clay Howard Subject: RE: 180018-024 Change Order - Updated

Dustin,

We just went through the approval for Admin Bldg - lower level - Total Fire Protection coring, it generated a large amount of questions on coring pricing between the Engineer and the CM. They wanted to confirm the locations, the number of cored holes, diameter, roughly how long it would take (# cores/day, # days), any sources of extra costs like overtime, crew size, etc.

To cut to the chase, can you please have the team break costs into Plumbing work (if we must core holes to run gravity drains) and Electrical work separately. I saw the \$17K Subcontract cost, if that is the coring costs please confirm the locations, the number of cored holes, diameter, roughly how long it would take (# cores/day, # days), any sources of extra costs like overtime, crew size, etc. since they will have to be approved by the Engineer. Then please separately group the costs for any electrical conduit relocation. I saw the \$17K Subcontract cost, if that is the coring costs

This way the Engineer or CM may elect to do all the work or only core for the plumbing. Please let me know if you have any questions. Thank you.

John Crowell P.E. Sr. Project Manager

Your Construction Solutions Partner

9709 Third Avenue NE, Suite 300 | Seattle, WA 98115 Office: 361.881.1279 | Direct: 361.446.6430 | Fax: 206.729.8845 johncro@grahamus.com | www.grahamus.com

COMMITMENT | INTEGRITY | RELIABILITY

From: Dustin Doyle [mailto:ddoyle@rosendin.com]

Sent: Friday, September 05, 2014 9:02 AM

To: John Crowell; Patrick Phelps

Cc: Brandon Wilson

Subject: FW: 180018-024 Change Order - Updated

John/Patrick,

Please see the attached costs for the repiping/coring below the admin building. We will require and executed change order prior to proceeding. Please call with any questions or concerns.

Sincerely,

Dustin Doyle South Texas Division Manager Rosendin Electric

Direct: 361-248-4901 ext 701

Fax: 361-248-4906 Cell: 512-844-9033



From: Brandon Wilson

Sent: Friday, September 05, 2014 8:50 AM

To: Dustin Doyle

Subject: 180018-024 Change Order - Updated

Attached -

Thank you,

Brandon Wilson

Assistant Project Manager Rosendin Electric 2050 Saratoga Blvd. Corpus Christi, TX 78417 direct: 361-248-4901 EXT. 714

cell: 361-737-5907



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New Broadway WWTP, Corpus Christi, TX PCO# 90 Admin Bldg Elevation Conflict Utilities-Rosendin B

PCM#:

RFP#: Change Description: Core and Reroute Plumbing Only Tax Rate:

Description	Taubbe = T	Function Code	Qty	Uof M	Avg crew Rate	Total Hours	Labor Unit Hours	Material Unit Price	Equip Unit Price	Sub Unit Price	Total Labor	Payrol Taxes & Insurance	Labor w/PTI	Material Cost	Equipmen t Cost	Sub Cost	Total Cost
Estimate Preparation		0104165		HR	30.00	1.00	1.0000	\$0.00	\$0.00	\$0.00	\$30.00	\$12.00	\$42.00	\$0.00	\$0.00	\$0.00	\$42.0
Budget Revisions		0104620	1	HR	75.00	1.00	1.0000	\$0.00	\$0.00	\$0.00	\$75.00	\$30.00	\$105.00	\$0,00	\$0.00	\$0.00	\$105.0
Forman		0104130	4	HR	37.50	4.00	1.0000	\$0.00	\$0.00	\$0.00	\$150.00	\$60.00	\$210.00	\$0.00	\$0.00	\$0.00	\$210.0
Site Scheduler	Market A.	0105130	0	HR	40.00	0.00	1.0000	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.0
			-Art		29.10	0.00	au trimerul				\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	. \$0.0
					29.10	0.00					\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.0
					29.10	0.00					\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.0
					29.10	0.00			Same 1		\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.0
	1			100	29.10	0.00			Service .		\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.0
		No. of the last			29.10	0.00					\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.0
			Average		29.10	0.00					\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0,0
	111111111111111111111111111111111111111		With Ma	1993	29.10	0.00	The state of the				\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.0
Core Beams-Reroute Plumbing- Rosendin Elect			1	lot	29.10	0.00	a a lo			\$13,801.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$13,801.00	\$13,801.0
					29.10	0.00		100		CIDIOCIA	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.0
					29.10	0.00					\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.0
Sales Tax on Consumables:	50		4 - 3		Service Annual	0.00	ATTENDED TO		Was to see the		50.00	30.00	30.00	\$0.00	30.00	30.00	\$0.0
						0.00										-	30.0
Subtotal:					O Constant	6.00	A	Procedure of the	EBELLIEV.	Residence of the second		Maria Caralla II	\$357.00	\$0.00	\$0.00	\$13,801,00	\$14,158.0
7 30 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4								1							00.00	515,551.55	\$0.0
Safety		0151801						Name of the last o						\$8.93			\$8.9
Small tools		0152990						-						\$22,31			\$22.3
Consumables		0152903												S44.63			\$44.6
				\top													\$0.0
Subtotal:		N. 1. 24	tu (I		E-7/12		No. of the last of	Re (1868	60 1270	San Principle	Sales Alexandra	(Charles	\$357.00	\$75.86	\$0.00	\$13,801.00	\$14,233.8
Subtrade Bond		0174400												\$2,070.15			\$2,070.1
Performance & Payment Bond		0174350												\$105.98			\$105.9
Builders Risk		0175100												\$136.95			\$136.9
General Liability Insurance		0175220												\$48.81			\$48.8
Subtotal:							1		5-16-16	Note the seconds		-	\$357.00	\$2,437.76	\$0.00	\$13,801.00	\$16,595.7
Overhead & Profit		0192310												\$1,109.26			\$1,109.2
Texas Franchise Tax		0176000												\$177.05			\$177.0
TOTAL:		£		20	in Language				huisekani	Was and his little			\$357.00	\$3,724.07	\$0.00	\$13,801.00	\$17,882.0

PCO 91 42" Tie In

Graham started work but was requested to not complete it. Includes sunk costs to date for pipe fab and fittings, shoring and trench box rental, rental of excavator, excavation, rental of crane, etc. Change Directive 21.

Tax Rate:

			Library									Payrol					
Description	Tenne II T	Function Code	Qty	Uof M	Avg crew Rate	Total Hours	Labor Unit Hours	Material Unit Price	Equip Unit	Sub Unit Price	Total Labor	Taxes &	Labor w/PTI	Material Cost	Equipment Cost	Sub Cost	Total Cost
Estimate Preparation	11112	0104165		HR	30.00	4.00	1,0000	\$0.00	\$0.00	\$0.00	\$120.00	\$48,00	\$168.00	\$0.00	\$0.00	\$0.00	\$168.00
Budget Revisions		0104620		HR	75.00	4.00	1,0000	\$0.00	\$0.00	\$0.00	\$300.00	\$120.00	\$420.00	\$0.00	\$0.00	\$0.00	\$420.00
Site Scheduler		0105130		HR	40.00	0.00	1,0000	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.0X
Superintendent		0123110		HR	75.00	40.00	1.0000	\$0.00	\$0.00	\$0.00	\$3,000,00	\$1,200.00	\$4,200.00	\$0.00	\$0.00	\$0.00	\$4,200.00
Forman		0104130		HR	37.50	40.00	1.0000	\$0.00	\$0.00	\$0.00	\$1,500.00	\$600.00	\$2,100.00	\$0.00	\$0.00	\$0.00	\$2,100.00
Operator-Trackhoe		UTOTIO		HR	30.00	40.00	1,0000	\$0.00	\$0.00	\$0.00	\$1,200.00	\$480.00	\$1,680,00	\$0.00	\$0.00	\$0.00	\$1,680.00
Operator-Loader				HR	30.00	2.00	1.0000	\$0.00	\$0.00	\$0.00	\$60.00	\$24.00	\$84.00	\$0.00	\$0.00	\$0.00	\$1,080.0X
Operator-Forklift				HR	30.00	1.00	1,0000	\$0.00	\$0.00	\$0.00	\$30.00	\$12.00	\$42.00	\$0.00	\$0.00	\$0.00	\$42.00
Pipefitter				HR	31,20	40,00	1,0000	\$0.00	\$0.00	\$0.00	\$1,248.00	\$499.20			\$0.00	\$0.00	\$1,747.20
rijemet			40	nn	31,20	+(1,1,1)	1.0000	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		\$0.00			
BC Equip Excavator Rental			,	EA			1.0000	\$0.00						\$0.00	\$0.00	\$0.00	\$0,00
Gulf Coast Crane Rental	-								\$11.179.24	\$0,00	\$0.00	\$0.00	\$0.00	\$0.00	\$11,179.24	\$0.00	\$11,179.24
Guir Coast Crane Rentai				EA			1.0000	\$0.00	\$3,379.00	\$0.00	\$0.00	\$0.00		\$0.00	\$3,379,00	\$0.00	\$3,379.00
				_			1.0000	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		\$0.00	\$0.00	\$0.00	\$0.0X
				EA			1.0000	\$0,00	\$0.00	\$0,00	\$0.00	\$0.00		\$0.00	\$0.00	. \$0.00	\$0,00
Titos Dina 12 Valvia Edit I Fini			-	CA			1,0000	\$0.00	\$0,00	\$0.00	\$0.00	\$0.00		\$0.00	\$0.00	\$0.00	\$0.08
Titan Pipe 42X48in Fab'd Fitting				EA			1.0000	\$0.00	\$0.00	\$15,300.00	\$0.00	\$0,00	\$0.00	\$0.00	\$0.00	\$15,300.00	\$15,300.00
Titan Pipe two epoxy coated Cor	plines		- 1	EA			1,0000	\$0,00	\$0.00	\$6,639.25	\$0.00	\$0.00		\$0.00	\$0.00	\$6,639,25	\$6,639.25
			-		20.17	0.0"	1,0000	\$0,00	50.00	\$0,00	\$0.00	\$0.00		\$0.00	\$0.00	\$0.00	\$0.00
B. L. B E H E.					29.10	0.00			S. Carlotte		\$0.00	\$0.00		\$0.00	\$0.00	\$0.00	50.00
Baker Pump Equip-Hoses-Figs				EA	29.10	0.00				\$10,794.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$10.794.00	\$10,794.00
Shoring-Trench Box				EA	29.10	0.00				\$27,672.39	\$0.00	\$0.00		\$0.00	\$0,00	\$27,672.39	\$27,672.39
UG Craftsmen travel expense				EA	29.10	0.00			\$1,000.00		\$0.00	\$0.00		\$0.00	\$3,000.00	\$0.00	\$3,000.00
Portable Water Buffalo				EA	29.10	0.00		And the second	\$50.00		\$0.00	\$0.00	-	00,00	\$100.00	\$0.00	\$100.00
Pressure Washer rental			- 1	EA	29.10	0.00		La La Carrieria	\$50.00		\$0.00	\$0.00	\$0.00	\$0.00	\$50.00	\$0.00	\$50.00
Town Mark Mark and the Bark						0.00		21									
Titan Misc Matt gaskets,bolts				EA		0.00		\$487.85	August 1	And the property and the	\$0.00	\$0.00		\$487.85	\$0.00	\$0.00	\$487.85
BC Equip-Loader				EA		0.00		PA 100	\$4,833.60		\$0.00	\$0.00	\$0.00	\$0.00	\$4,888.60	\$0.00	\$4,888.60
				EA		0.00			2000	and the same of the same of	\$0.00	\$0.00	\$0.00	50.00	\$0.00	\$0.00	\$0.00
Import Bedding Matl			- 1	EA	Jan Viery I	0.00	d	\$1,725.00			\$0.00	\$0.00	\$0.00	\$1,725.00	\$0.00	\$0.00	\$1,725.00
Graham Labor survey, layout,						Tanana a									-		
install, test, backfill			1	EA	29.10	80,00	80.0000			The same of the sa	\$2,328.00	\$931.20	\$3,259.20	\$0,00	\$0.00	\$0.00	\$3,259,20
						0.00	7				00.02	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Sales Tax on Consumables:	\$0					0,00	MICOL /5-04	ENLY FAR	ALC: NO PORT					\$0.00	STATE OF THE PARTY		\$0.00
				\Box		0.00				N							
Subtotal:			0			251.00	TO THE OWNER.			Allegan	Mary Mary	10 TO	\$13,700,40	\$2.212.85	\$22,596.84	\$60,405.64	\$98,915.73
																	\$0.00
Safety		0151801												\$342.51	and the same of	-	\$342.5
Small tools		0152990					Lawrence of the St					-		\$856.28			\$856.22
Consumables		0152903	-											\$1.712.55			\$1.712.55
								la concession de					The second second				\$0,0
Subtotal:	1 110					F .3	Barrier Convinces	Personal Property and	AND DUB		Number of the	The Control	\$13,700.40	\$5,124.19	\$22,596.84	\$60,405.64	\$101.827.0
Marie Co. Co.												The same				Land Contract of the Contract	
Subtrade Bond		0174400						4						\$9,060.85			\$9,060.83
Performance & Payment Bond		0174350						Language and						\$720.77	Language La		\$720.7
Builders Risk		0175100		Company of	apara and a second	escua man	and the second	- 1418 C	lara n					\$931.46			\$931.44
General Liability Insurance		0175220									1		Name of the same of	\$331.99		1000	\$331.99
										A							
Subtotal:	All soles	Apr. 2566	1	840		MILIPA	Service residence		and the sections	25, 40, 10, 10, 10	NO CONTRACTOR	STATE OF THE PARTY OF	\$13,700,40	\$16,169.25	\$22,596,84	\$60,405,64	\$112.872.1.
La la company de la company		September 1	Car The														
Overhead & Profit		0192310												\$10,890.26			\$10,890.20
Texas Franchise Tax		0176000									- Alexander			\$1,237.62			\$1,237.6.
												Lymn War					
TOTAL:	-	CASIN SE	-	1		The state	Annual Property	Maria -	MANUFACTOR	See House of the land of	Section 1	THE RESIDENCE OF	\$13,700.40	\$28,297.13	\$22,596.84	\$60,405,64	\$125,000.0

Change Directive # 21

Corpus Christi New Broadway WWTP Carollo Program

Printed 02/19/2015, Page 1 of 1



42" Effluent Tie-In

Submitted:

02/03/2014

Submitted To:

Carollo Engineers, City of

Corpus Christi, Freese &

Nichols, Graham

Construction, John Crowell

Revision Date:

Status:

Pending

Priority:

Low

Created By:

Freese & Nichols, Adam Payne

Created:

02/03/2014

Design Clarification:

See attached pdf for 42in Effluent Line Tie-In Plan and Detail sheets.

The Contractor is directed to tie-in the 42inch effluent line per the attached sheets and project specifications.

Provide cost and time impacts to the CM team for the proposed work included in this Change Directive.

References

Specification # 02084 Drawing # 083-01-Y-08 Published

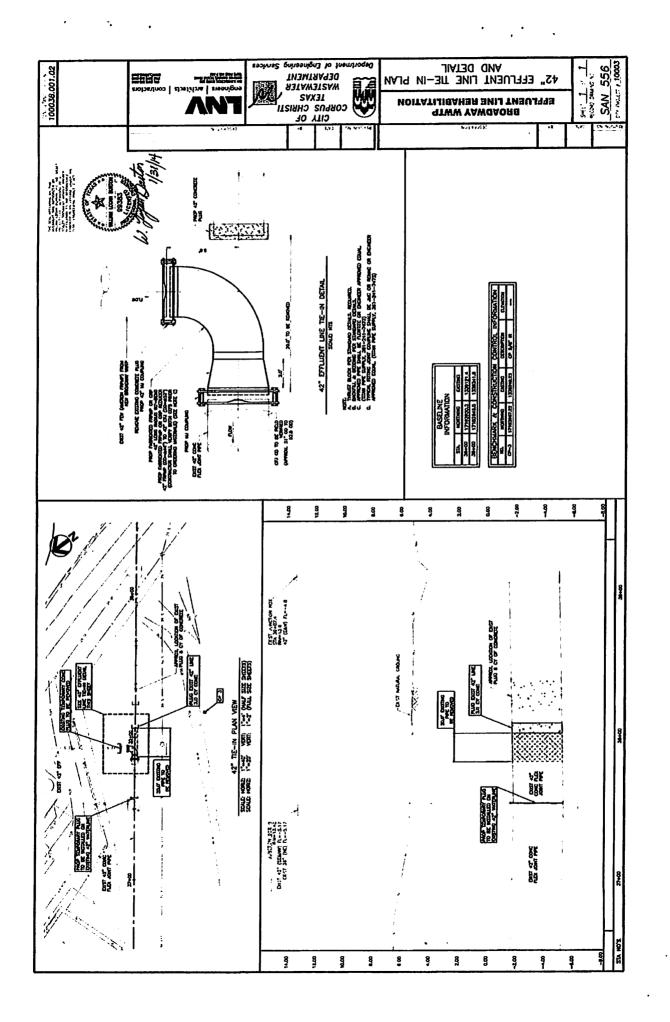
Published

Files

42in Effluent Line Tie-In Plan and

187.86 KB

Detail S&S 1.31.14.pdf



PCO 92 Motorized Overhead Doors SDB/HW

Power to the roll up doors at the SDB and the headworks was not included in the drawings. Carollo sub Mike Colwell reply gave routing and circuit connection instructions. RFI 385.

Change Order Request



Authorized Signature

C.O.R. # 180018-02

G.C. #

Date:

/2014

Project Name: 180018 Broadway WWTP	Project #: 180018
To: Graham Construction Services, Inc. Attn: John Crowell	From: Electric
2995 Lone Oak Circle, Suite 1 Eagan , Mn 55121	Corpus Christi, TX 7841
Phone: (651) 687-0648 Fax: (651) 687-0947	Phone: (361) 248-4901 Fax: (361) 248-4906
We hereby propose to make the following changes:	Phone: (361) 248-4901 Fax: (361) 248-4906
tro notoby propose to make the following changes.	
Exclude: - Overtime Labor Costs - Structural Integrity of Building after Core Drilling	
	Change Order Price
	Original Contract Amount \$6,480,000.00
This price is good for 20 days. If conditions change, this price	
We are requesting a time extension of days in conjunction	on with this
change. /2014	
Author Date Sent	
Accepted The above prices and specifications of accepted. All work to be performed uncontract unless otherwise specified.	of this Change Order request are satisfactory and are hereby under same terms and conditions as specified in original

Date of Acceptance

Rosendin Electric CHANGE ORDER SUMMARY SHEET

Project Name: Broadway WWTP Change Description: Motorized Doors					
REI Change No.: 025				Date	: 14-Nov-14
rear onange rear eac				Taxable	: No
MATERIAL/QUOTES:	Amount	Op	Rate	Extension	Subtotals & Totals
Material Total:	\$9,129.19	X	1.0	\$9,129.19	
Material From T&M Recap Sheet:	\$0.00	X	1.0	\$0.00	
Total Quotes:	\$0.00	X	1.0	\$0.00	
Total Freight:	\$0.00	Х	1.0	\$0.00	
SUBTOTĂL:					\$9,129.19
LABOR:					
Straight-time Labor:	123.81	X	\$39.76	\$4,922.69	
Overtime Labor @ time & one half:	0.00	X	\$57.31	\$0.00	
Double Time Labor:	0.00	X	\$74.50	\$0.00	
Instrumentation Straight Time Labor:	0.00	X	\$75.00	\$0.00	
Total Manhours:	123.81			0.00	
Labor from Time and Material Sheets:	# of Hrs & Labor Ext from	m Attachment	0.00	\$0.00	
General Foreman Straight-time Labor (10% of Man Hrs):	123.81	12.38			
General Foreman Straight-time Labor:	12.38	X	\$57.44	\$711.16	
General Foreman Overtime Labor (10% of Man Hrs):	0.00	0.00	along the control of	(C. * ORONIA III *1.3 (C. 550-5)	
General Foreman Overtime Labor @ time & one half:	0.00	X	\$79.78	\$0.00	
General Foreman Double Time Labor (10% of Man Hrs):	0.00	0.00	*******	******	
General Foreman Double Time Labor:	0.00	X	\$102.12	\$0.00	
Estimating Time:	0.00	X	\$71.87	\$0.00	
Mat. Proc. & Handle (5% of Labor Cost):	4,922.69	X	5.00%	\$246.13	
Update As-Built Dwg's:	0.00	X	\$59.86	\$0.00	
SUBTOTAL:	0.00	,,	400.00	\$5,879.98	\$5,879.98
DIRECT JOB EXP:				40,070.00	40,010.00
Consumables/Expendable Tools (6% of Mat.):	\$9,129.19	X	3.00%	\$273.88	
Drawing Reproduction and or BIM:	\$0.00	X	1.0	\$0.00	
Safety @ \$0.50/MH:	136.19	X	\$0.50	\$68.10	
Equipment:	\$2,600.00	X	1.0	\$2,600.00	
Project Mngmt: 5% of Labor:	5,879.98	X	5%	\$294.00	
Total Subcontractors Quotes:	\$0.00	X	1.0	\$0.00	
SUBTOTAL Direct Job Exp:	Q0.00	^	1.0	\$3,235.97	\$3,235.97
Credit:	\$0.00	X	1.0	\$0.00	\$0.00
Material/Labor/DJE/Credit SUBTOTAL:	ψ0.00	^	1.0	Ψ0.00	\$18,245.14
Warranty:	\$18,245.14	X	0%	\$0.00	\$0.00
SUBTOTAL:	ψ10,240.14	^	070	ψ0.00	\$18,245.14
Material Sales Tax @ 8.25% if Project is Taxable:	\$9,129.19	X	0.00%	\$0.00	\$0.00
Liability/Builders Risk:	\$18,245.14	x	2%	\$364.90	\$364.90
SUBTOTAL:	Ψ10,240.14	^	270	Ψ304.30	\$18,610.05
MARK-UPS:					\$10,010.00
Overhead/Profit @ 15%	\$18,610.05	X	15%	\$2,791.51	\$2.701.51
Overnead/Fibilit @ 15%	\$10,010.03	^	1576	\$2,791.51	\$2,791.51
SUBTOTAL:					\$21,401.56
Total Subcontract Values:	\$0.00	X	1	\$0.00	\$0.00
Overhead/Profit for Subcontract @ %	A STATE OF THE STA	X	15%	\$0.00	\$0.00
		or.T		/	\$21,401.56
SUBTOTAL:					\$0.00
Bond Premium:	\$21,401.56	X	1.0%	\$214.02	\$214.02
Bond i ferniam.	421,101100		1.070	ΨZ 14.02	ΨZ 14.0Z

Description	Quantity	Trade Price	Unit	Labor	Unit	Tota	l Material	Total Hours	Material Condition
1 8"x6"x4" HINGED COVER NEMA 4		. 147.9	Ε	1.65	Ε	\$	147.90	1.65	Normal
2 3/4" FORM 7 FELAROY T CONDULET	4	15.56	Ε	1.5	Ε	\$	62.24	6	Normal
3 2" FORM 7 FELAROY T CONDULET	3	70.47	Ε	4.1	Ε	\$	70.47	4.1	Normal
4 2" FORM 7 STEEL CONDULET GASKET	1	6.27	Ε	0.7	Ε	\$	6.27	0.7	Normal
5 3/4" ARC (AL)	400	277.27	C	8.2	С	\$	1,109.08	32.8	Normal
6 3/4" ARC MYERS HUB	5	604.58	С	30	С	\$	30.23	1.5	Normal
7 3/4" AL GRD BUSHING	10	948.02	С.	67	С	\$	94.80	6.7	Quoted
8 3/4" ARC STRAP	21	. 127.7	C	6	С	\$	26.82		Quoted
9 3/4" LT FLEX	12	417	C	7.5	С	\$	50.04		Normal
10 3/4" LT STRAIGHT CONNECTOR		603.36	С	27	С	Ś	48.27		Normal
11 15/8" SLOTTED GALVANIZED CHANNEL	20	510.98	С	22.5	С	Ś	102.20	4.5	Normal
12 3/4" SS STRUT CLAMP	1	. 338	С	4.5	c .	Ś	3.38	0.04	Normal
13 #12 THHN/THWN STRANDED	800	278.6	М	9	М	Ś	222.88	7.2	Normal
14 #12/3C THHN TRAY CABLE	800	553.02	M	27	М	Ś	442.42	21.6	Quoted
15 15.3" SUPER-GRIP CABLE TIE (SGS)	200	34.92	С	0.05	Ε	\$	69.84		Normal
16 3/4" Korn Clamps	11	1.71	Ε	0.7	Ε	S	18.81	7.7	Normal
17 NEMA 4 SS SIZE (1) COMBO STARTER	4	1,070.59	Ε	2	Ε	\$	4,282.36		Normal
18 SQD MODEL 6 MCC 20A BREAKER	2	1,170.59	Ε	2	Ε	\$	2,341.18		Normal
19 2" CORE 12" WALL			Ε		Ε		(Normal
						\$	9,129.19		

New Broadway WWTP, Corpus Christi, TX PCO# 92 Motorized Overhead Doors Electrical Utilities-Rosendin

PCM#:

RFP#:

Change Description: Provide a dedicated 20A Circuit from DP55A in SDB for motorized electric overhead doors

Tax Rate:

Description	Totalio = T	Function Code	Otv	Uof M	Avg crew Rate	Total Hours	Labor Unit Hours	Material Unit Price	Equip Unit Price	Sub Unit Price	Total Labor	Payrol Taxes & Insurance	Labor w/PTI	Material Cost	Equipmen t Cost	Sub Cost	Total Cost
Estimate Preparation		0104165	1	HR	30.00	1.00	1,0000	\$0.00	\$0,00	\$0.00	\$30.00	\$12.00	\$42.00	\$0.00	\$0.00	\$0.00	\$42.00
Budget Revisions		0104620	1	HR	75.00	1.00	1,0000	\$0.00	\$0.00	\$0.00	\$75.00	\$30,00	\$105.00	\$0.00	\$0.00	\$0.00	\$105.00
Forman		0104130	4	HR	37.50	4.00	1.0000	\$0.00	\$0.00	\$0.00	\$150.00	\$60.00	\$210.00	\$0.00	\$0.00	\$0.00	\$210.00
Site Scheduler		0105130	0	HR	40.00	0.00	1.0000	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
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					29.10	0.00					\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0,00	\$0.00
Provide dedicated 20A Circuit from DP55A for motorized electric overhead doors SDB			1	lot	29.10	0.00				\$21,615.57	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$21,615.57	\$21,615.57
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Subtotal:	-			-		0.00											
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Safety	-	0161001		-													\$0.00
Small tools	-	0151801	_	-										\$8.93			\$8.93
Consumables	_	0152990		-										\$22.31			\$22.31
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Subtrade Bond	-	0174400		-		_		_									
Performance & Payment Bond	-	0174350		-		_								\$3,242.34			\$3,242.34
Builders Risk		0174330					_							\$164.39			\$164.39
General Liability Insurance		0175220		-		_							_	\$212,44			\$212.44
General Elability Institution	-	0173220		-										\$75.72			\$75.72
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					13.4				74-1-24	BALLY COLD - M CROSS			\$357.00	\$3,770.75	\$0.00	\$21,615.57	\$25,743.32
Overhead & Profit		0192310		1										21.000.00			
		0172510		-										\$1,699.94			\$1,699.94
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		2170000	-	-							***************************************			\$274.43			\$274.43
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					Name and Address of the Owner, when the Owner, which the Owner,	100		THE PARTY OF THE	Control of the	STORY OF THE STORY	Benefit Carlo	Part of the state	\$357.00	\$5,745.12	\$0.00	\$21,615.57	\$27,717.69

PCO X1 ATS Mods in ECR-1 for Generator

This is for additional programming and modifications to the automatic transfer switch in ECR-1 to provide greater exercising functionality. These changes were provided by Carollo sub Mike Colwell in the March/April 2014 time frame.

Tax Rate:

New Broadmay WWTP, Corpus Christi, TX TCO+ XI ATS Mods ECR-1 for Generative-Rosenlin TCM+;

0.002 \$25,00.00 0.002 \$0.00 0.003 \$0.00 8 8 8 | Anna | ATS Mode ECRET for Generator-Rowersfor-Sq D

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PCO X2 Generator Switchgear Communications

This is to add additional communications in the generator/switchgear interface regarding parameters for auto switch over. In the March/April 2014 meetings on the generator changes related to PCO-X1, including Carollo sub Mike Colwell, it was determined this additional connection was required.

Tax Rate:

New Branching WWTP, Curpto Christ, TX TCO: X2 Generaline Switchpear Communications-Resendin TCM:

RITY: Charge Description: Generator Swit

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835

PCO X3 ECR-1 Stair Landing Design

There was a mismatch between the NW stair final landing and the achievable drive elevation to meet drainage requirements. Carollo advised via email that a step be constructed using standard details.

ń Tax Kate:

New Bromshay WWTP, Corpus Christ, TX PCOr XJ ECK-1 Sair Landing Deugn Trible; RFP; Classge December FCR-1 San Landing Design

. \$741.2x \$0.00 | Tatal | Payrel | Labor | March | Labor | March | Mar Und Avgeren Tk-1 Nave Landing Dosign

PCO X4 SCADA Programming Changes

Changes to the SCADA programming beyond those originally identified during the configuration meetings and witnessed FAT testing in December 2012 and January 2013.

Tax Rate:

New Broadmay WWTP, Carpus Christi, TX FCOF XJ SCADA Programming Changes-Rosendin-InfoSys FCMe² RJPs²

Change Description: SCA13A Programming Changes

| OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE | OHE 2000 2000 2000 2000 2000 SECULISE SUCCESS CORE XSTANCES | Payrel | P \$0.0818 78.1285 27.9285 ST, UK.79 00.7212 Material Equip
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\$25.

PCO X5 SCADA Relocation

Relocation of SCADA from the temporary location in the old plant to the Administration Building.

New Househop WWTP, Carpus Christ, TX TCOs XS SCADA Redocation Rosendia TCM: RPP: Clauge Description Relocate SCADA from old Hilp i

Description	j	Į	Ě		Use Avgeren	78	Total Labor Unit	Material	Equip		Total	Payrid Tates &	Lebor				
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					23.10	000	100000000000000000000000000000000000000	The state of the s		Service Control	50.00	2000	808		L		2000
Relocate SCADA from old 184g to new Adman 1849-Rosenston				ž.	30.10	000				\$10,500,00	88	88	88			\$10.5	\$10 500 00
					29.10	000	No. of Concession, Name of Street, or other Persons and Street, or other P	STATE OF THE STATE OF	New Yorks		\$0.00	2000	20.03			20.00	\$0.00
					27,10	00.0				Ordinate Charles	\$0.00	20,00	20.00	50.00			2000
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Safety		0151801												51.13			51.13
Studii lank		015290												STR			STA
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	0 0 8														L		
Overhead & Profit	_	0192310												\$1,024.17			\$1,024.17
Texas Francisce Tax	1	017/488)	1	1										\$148.52			SITKE
		1	1														

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PCO X6 Plant Power Cost during Construction

This is to cover energy costs during the operating phase of the construction. The owner is responsible for power costs for the start up and commissioning phases. Specification 01110 Section 1.08E.

Tax Rate:

New Broadway WWTP, Corpus Christ, TX TCOs XG Fart Fower Costs during Naturp FCM: RFP: Change Descrition: Fart Fower Costs during Nature

| SO(0) | SO(0) | SU(494,00) | SU(494,00) | SO(0) | SO | Payrel | P \$232.00 \$0.00 \$0.00 \$0.00 \$0.00 S11,494.00 | March | Marc

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PCO X7 Administration Building Parking Fire Alarm

The RFI requested CAD drawings for the parking garage area as it was beyond the original scope and the fire marshal was requiring annunciators in the garage. Carollo said the system needed to conform to code requirements and was the responsibility of the fire system engineer. RFI 393.

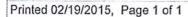
823. Tax Rate:

New Broadway WWTP, Corpus Christ, TX 1009: X7 Acins 1845; Parking Garage Free Alarm FCAM: RTPs: Charge Description: Admin 1846; Parking Garage Free

| 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | Labor Unit | Marriel | Equip | Table | Track 888 21,500.00 50.00 (50.00 50.00 50.00 50.00 50.00 Admin Edg Parking Garage Fire Alami

RFI#393

Corpus Christi New Broadway WWTP Carollo Program





Admin building fire alarm

Submitted:

06/10/2014

Submitted To:

Freese & Nichols, Graham

Construction, Steve Eckersley

Status:

Closed

Priority:

High

Due Date:

06/24/2014

Created By:

Graham Construction, Jong Pak

Created:

06/10/2014

Request:

6/10/14

Please see attached for request.

Locations

19-Administration/Operations/Maintenance Building

References

Drawing # 400-61-E-01

Published

Files

Fire Alarm - RFI.pdf

381.79 KB

Request for Information



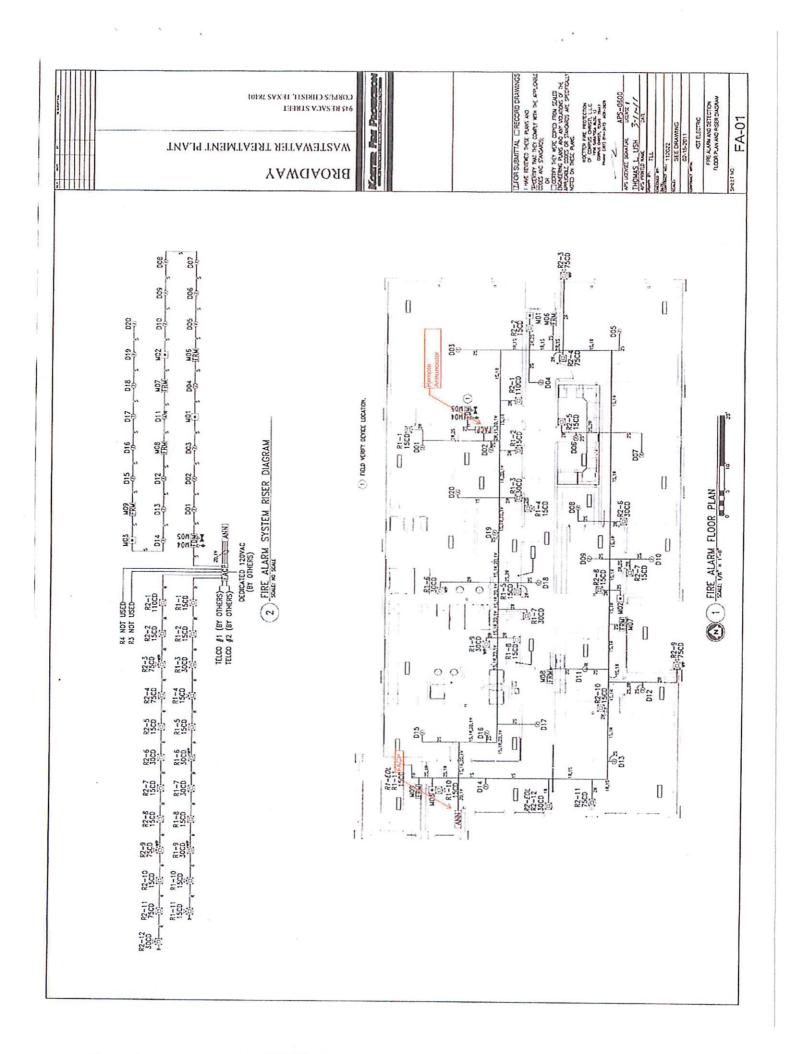
RFI# 180018-0052

GC RFI#

Date: 6/10/2014 Phone: (361) 248-4901 Fax: (361) 248-4906

KST Electric 2411 Rand Morgan Road Corpus Christi, TX 78410

Project	t Name: 180018 Broadway	WWTP			Pr	oject#:	1800	18	
To: Attn:	Graham Construction Serving John Crowell 2995 Lone Oak Circle, Suite	500 T 100 T	10,070	ASON FOR REQUEST Insufficient Information Engineering Conflict	Ø	Clarification Direction			DBABLE EFFECT Increase Cost Decrease Cost
	Eagan , Mn 55121		0	Allernate Proposal		Approval		0	Unknown Cost Increase Time
Phone: From:	(651) 687-0648 Fax: Dustin Doyle	(651) 687-0947	RES	SPONSE REQUIRED BY:	06	/17/2014			Decrease Time Unknown Time
REFERE SUBJEC	ENCE: DRAWING NO.: F. CT: Admin Building Fire Alar			SPECIFICATION	l NC	D.:			
Due to s Broadwa	MATION NEEDED: standard Fire Marshall require ay WWTP will have to be resu g the resubmitted drawings (a ed:	bmitted for approval	due	to lapsed time betwe	en a	approval a	nd ins	pec	tion. In
that the	se advise if the Fire Alarm Co annunciator will be mounted i se confirm that the KNOX BO	n the electrical room	origi	inally designated for t	he F			anel	(please note
 Pleas garage. Pleas 	nction with the above RFI's, p se provide approved submittal se provide CAD files for the pa Marshall will require notificat	drawings Indicating I arking garage (was no	loca ot pa	tion of the sprinkler ris					
Selection of the select	MENDATION: I is the drawing recommendin	g the code approved	loca	ation changes for the	FAC	P and An	nuncia	itor.	
RESPO	NSE:								
ALITHO	RIZED SIGNATURE C	COMPANY			- 7	DATE		_	Page 1 of 1



RFI Response # 2

Corpus Christi New Broadway WWTP Carollo Program

Printed 02/19/2015, Page 1 of 1



Subject:

Carollo Engineers Response to RFI # 393

Submitted:

06/30/2014

Created By:

Carollo Engineers, Rene Aguilar

Type:

Official

Response:

Submitted by Rene Aguilar, Carollo Engineers (06/27/2014):

The Fire Suppression System is based upon Specification 13930 of the Contract Documents. This specification is performance based and requires design and installation to be in accordance with the City of Corpus Christ Building Department, City of Corpus Christi Fire Marshal, and the most recent applicable fire codes. The Fire Systems Engineer is responsible for the equipment and locations of all the required equipment for a complete system. Therefore, the questions about the fire alarm control panel, remote annunciator panel, and knox box should be directed to the Fire Systems Engineer.

In addition, the questions regarding the approved submittal drawings for the Fire Suppression System and the Project CAD files should be directed to Graham as they have the information requested.

PCO X9 RAS Spool Mods

There was a bust in the coordinates of the pipe going from the Ameron to the pump station. This resulted in about a 6' change to the connecting pipe. Field discussions took place between Graham and Carollo at time of occurrence.

New Broadway WWTP, Corpus Christi, TX PCO# X9 RAS Spool Mods Cost Backup

PCM#: RFP#:

Change Description: Layout discrepancy on Contract Drawings Ameron Pipe-RAS

Tax Rate:

8.25%

Description	Taxable = T	Function Code	Qty	Uof M	Avg crew Rate	Total Hours	Labor Unit Hours	Material Unit Price	Equip Unit Price	Sub Unit Price	Total Labor	Payrol Taxes & Insurance	Labor w/PTI	Material Cost	Equipmen t Cost	Sub Cost	Total Cost
Estimate Preparation		0104165	1	HR	30.00	1.00	1.0000	\$0.00	\$0.00	\$0.00	\$30.00	\$12.00	\$42.00	\$0.00	\$0.00	\$0.00	\$42,00
Budget Revisions		0104620		HR	75.00	1.00	1.0000	\$0.00	\$0.00	\$0.00	\$75.00	\$30.00	\$105.00	\$0.00	\$0.00	\$0.00	\$105.00
Forman	PHILIP	0104130		HR	37.50	4.00	1.0000	\$0.00	\$0.00	\$0.00	\$150.00	\$60.00	\$210.00	\$0.00	\$0.00	\$0.00	\$210.00
Site Scheduler		0105130	0	HR		0.00	1.0000	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
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					29.10	0.00					\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Layout discrepancy on Contract Drawings Ameron Pipe-RAS			1	lot	29.10	32.79		\$4,000.00	\$270.00		\$954.19	\$381.68	\$1,335.86	\$4,000.00	\$270,00	\$0.00	\$5,605.86
			ALC: 73		29.10	0.00					\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
					29.10	0.00					\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
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Subtotal:	-					0.00		E. 77 C. 1044	764977				\$1,692.86	\$4,000.00	\$270,00	\$0.00	\$5,962,86
													-11072100	0.1,000.00			\$0.00
Safety		0151801												\$42,32			\$42.32
Small tools		0152990												\$105.80			\$105.80
Consumables		0152903								HEATTER THE THE TANK AND THE				\$211.61			\$211.6
																	\$0.00
Subtotal:							In the said	2 (15)	STC.IN	Mark to the first	5 Y L 192	Market Vill	\$1,692.86	\$4,359.73	\$270.00	\$0.00	\$6,322.60
Subtrade Bond		0174400		-										\$0,00			\$0.00
Performance & Payment Bond		0174350												\$41,10			\$41.10
Builders Risk		0175100												\$53.11			\$53.1
General Liability Insurance		0175220												\$18.93			\$18.9
Subtotal:						B		KO, TOA			E / Belond		\$1,692.86	\$4,472.87	\$270.00	\$0.00	\$6,435.73
Overhead & Profit		0192310		-										60/62/			40/22
Overnead & Front		0192310		_			and the second		t = tracit					\$965.36			\$965.3
Texas Franchise Tax		0176000												\$74.01			\$74.0
TOTAL:						18	2 3 3					Section 1	\$1,692.86	\$5,512.24	\$270.00	\$0.00	\$7,475.11

PCO X10 SS Pole Brackets

This is regarding the attachment of light standards on gratings. Carollo stated it would be covered in a change directive. RFI 372.

New Broadway WWTP, Corpus Christi, TX PCO# X10 SS Light Pole Brackets PCM#:

RFP#:

Change Description: Light Bracket Support Detail missing on Contract Drawings-HW

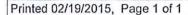
Tax Rate:

8.25%

Description	Yaushie = T	Function Code	Qty	Uof M	Avg crew Rate	Total Hours	Labor Unit Hours	Material Unit Price	Equip Unit Price	Sub Unit Price	Total Labor	Payrol Taxes & Insurance	Labor w/PTI	Material Cost	Equipmen t Cost	Sub Cost	Total Cost
Estimate Preparation		0104165	1	HR	30.00	0.00	1.0000	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	50.00	\$0.00	\$0.00
Budget Revisions		0104620	1	HR	75.00	0.00	1.0000	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Forman		0104130	4	HR	37.50	1.00	1.0000	\$0.00	\$0.00	\$0.00	\$37,50	\$15.00	\$52.50	\$0.00	\$0.00	\$0.00	\$52.50
Site Scheduler		0105130	0	HR	40.00	0.00	1.0000	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
			13.		29.10	0.00	6-1 CH 2005		Control of	Martin America	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
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					29.10	0.00			Printer S		\$0.00	\$0.00	\$0.00	\$0.00	50.00	50.00	\$0.00
					29.10	0.00				Towns Person	\$0.00	\$0.00	\$0.00	\$0.00	50.00	\$0.00	\$0.00
		TO STATE			29.10	0.00			Merchan		\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
			Sec.		29.10	0.00	Local Charles		Beauty 18		\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
					29.10	0.00					\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
					29.10	0.00			100000		\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Light Bracket Support Detail missing on Contract Drawings- HW			1	lot	29.10	2.13		\$5,561.00	\$59.30		\$61.84	\$24.74	\$86.57	\$5,561.00	\$59.30	\$0.00	\$5,706.87
				_	29.10	0.00					\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
61.77.6		4			29.10	0.00	The state of				\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Sales Tax on Consumables:	\$0	L. A.C.	- 199			0.00	And the state of		9/1/20/1/20			THE PARTY	TOTAL BELL	\$0.00		A Charles	\$0.00
81 1	-		-	_		0.00											
Subtotal:	-				Selle All A.S.	3.13	A Constant	Made a standard	304456	ALCOHOLD STATE	Later College	for the sub-	\$139.07	\$5,561.00	\$59.30	\$0.00	\$5.759.37
Safety	-	0151801		-			`										\$0.00
Small tools	-	0151801		-										\$3.48			\$3,48
Consumables	-	0152990		-		-								\$8.69			\$8.69
Consumations	-	0152905	_	-										\$17.38			\$17.38
Subtotal:				-		-							0120.07	85 500 55	050.00	60.00	\$0.00
Suototai.				-		Charles Andrews	Anna Steel of State	ALC: CARREST	Service Co.			A CONTRACTOR OF THE PARTY OF TH	\$139.07	\$5,590.55	\$59.30	\$0.00	\$5,788,9
Subtrade Bond	-	0174400		-										22.00			20.00
Performance & Payment Bond		0174350	-	+-		_								\$0.00			\$0.0
Builders Risk		0175100		-										\$37.63			\$37.63
General Liability Insurance	-	0175100		-										\$48.63			\$48.6
General Liability histrance	-	0175220		-									P-1-	\$17.33			\$17.3
Subtotal:		9 . 19	6213		No. 10 A	EL pé	QS - CASE	SAN PLOYER	Marie Late 19	80025E-5000	52.V.19	May appropriate to	\$139.07	\$5,694.14	\$59.30	\$0.00	\$5,892.5
Overhead & Profit		0192310												\$883.88			\$883.83
Texas Franchise Tax		0176000												\$67.76			\$67.7
TOTAL:	-					4000							8120.07	0001070	050.00	60.00	56.0111
TOTAL:							A. 18 (A. V. L. S.)	Ger Park and St	SELECTION ST		Market Market		\$139.07	\$6.645.78	\$59.30	\$0.00	\$6.844.13

RFI # 372

Corpus Christi New Broadway WWTP Carollo Program





Mounting of Light Poles - Steel Grate

Submitted:

05/17/2013

Submitted To:

Adam Payne, Freese &

Nichols, Graham

Construction, Richard Provolt, Steve

Eckersley

Status:

Closed

Priority:

High

Due Date:

05/28/2013 Richard Provolt, Steve Eckersley

Pending On User: Pending On Org:

Freese & Nichols

Created By:

Graham Construction, John Crowell

Created:

05/14/2013

Request:

5/14/13

Multiple locations require pole lights to be mounted on steel grates (see attached for quick reference). KST Electric is concerned that mounting R&S light poles to the steel grate may affect wind rating requirements and/or the structural integrity of the steel grate. Please provide details for mounting R and S light poles to the removable steel grate(s) or provide new location(s) for light poles.

References

Drawing # 333-11-E-02 Drawing # 344-21-E-06 Drawing # 360-24-E-01 Drawing # 361-24-E-02 Published

Published

Published

Published

Files

RFI 180018-0049 Mounting Light

585.44 KB

Poles.pdf

Request for Information



RFI# 180018-0049

GC RFI#

Date: 5/14/2013 Phone: (361) 248-4901 Fax: (361) 248-4906

KST Electric 2411 Rand Morgan Road Corpus Christi, TX 78410

Project	Name: 180018 Broadway WWTP		Project#: 1	80018
To: Attn:	Graham Construction Services, Inc. John Crowell 2995 Lone Oak Circle, Suite 1	REASON FOR REQUEST ☐ Insufficient Information ☐ Engineering Conflict	ACTION REQUEST ☑ Clarification □ Direction	FED PROBABLE EFFECT Increase Cost Decrease Cost
	Eagan , Mn 55121	☐ Alternate Proposal	□ Approval	☑ Unknown Cost☐ Increase Time
Phone: From:	(651) 687-0648 Fax: (651) 687-0947 Dustin Doyle	RESPONSE REQUIRED BY:	05/21/2013	☐ Decrease Time ☐ Unknown Time
INFORM Multiple concerne integrity	ENCE: DRAWING NO.: 11-E-02, 21-E-06, 24-E-02 24-E-02 CT: Mounting of Light Poles - Steel Grate IATION NEEDED: locations require pole lights to be mounted on steel that mounting R & S light poles to the steel grate of the steel grate. Please provide detail for mounted location(s) for light poles.	el grate (see attached for te may affect wind rating	quick reference). requirements and	dor the structural
RECOM	MENDATION:			
RESPO	NSE:			

RFI Response # 2

Corpus Christi New Broadway WWTP Carollo Program

Printed 02/19/2015, Page 1 of 1



Subject:

Carollo Engineers Response to RFI # 372

Submitted:

06/13/2013

Created By:

Carollo Engineers, Rene Aguilar

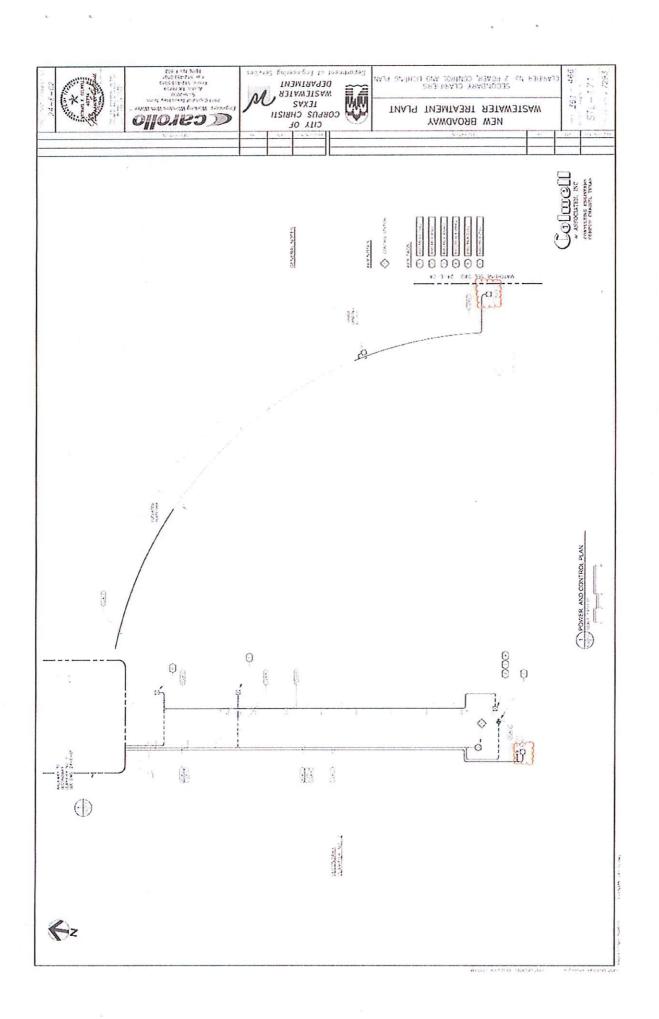
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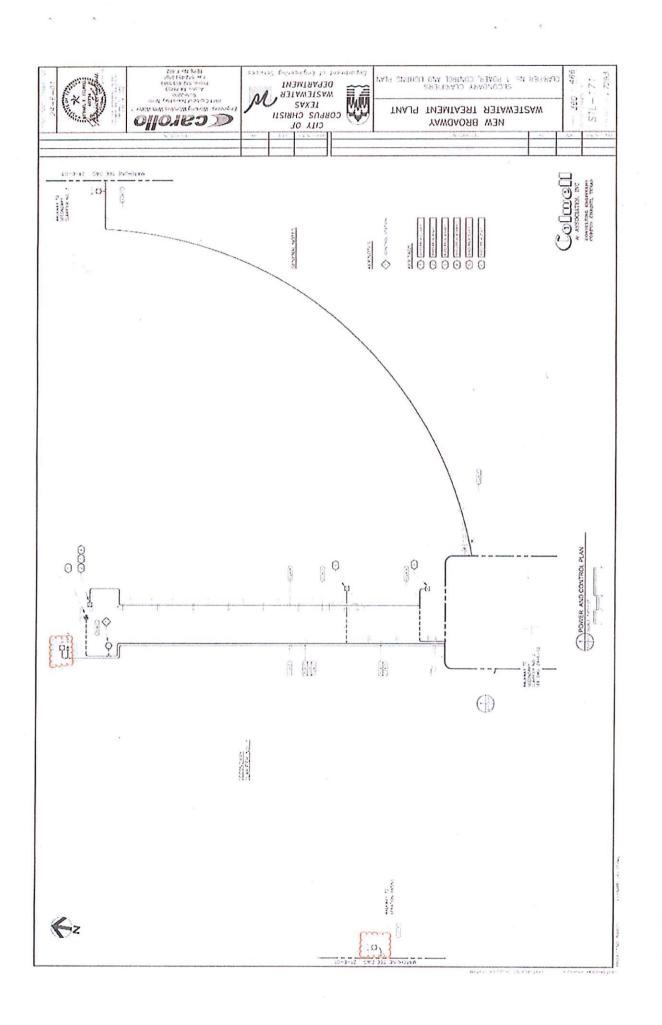
Official

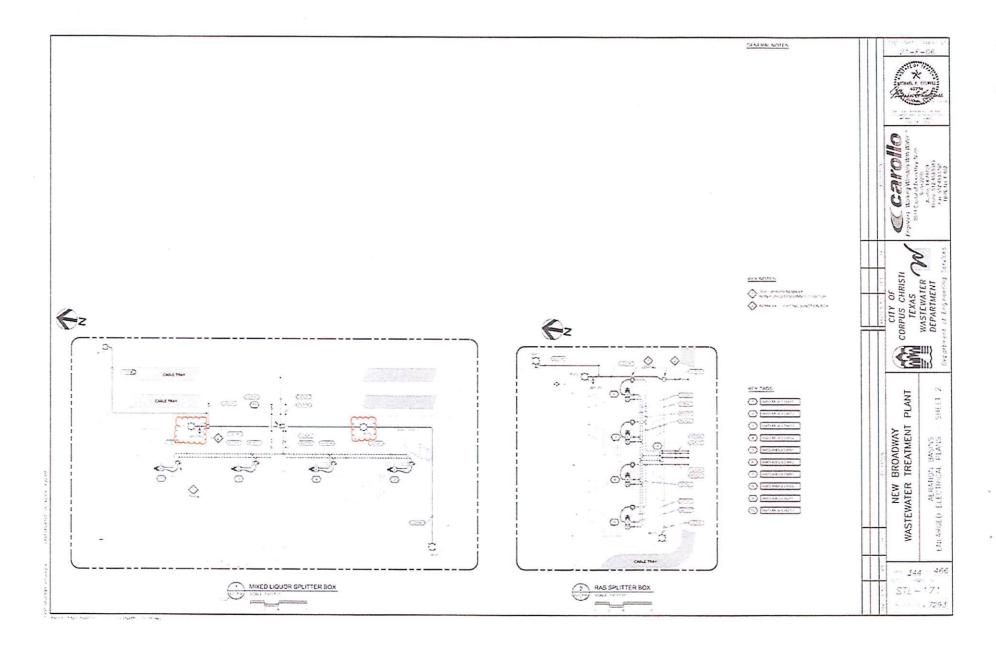
Response:

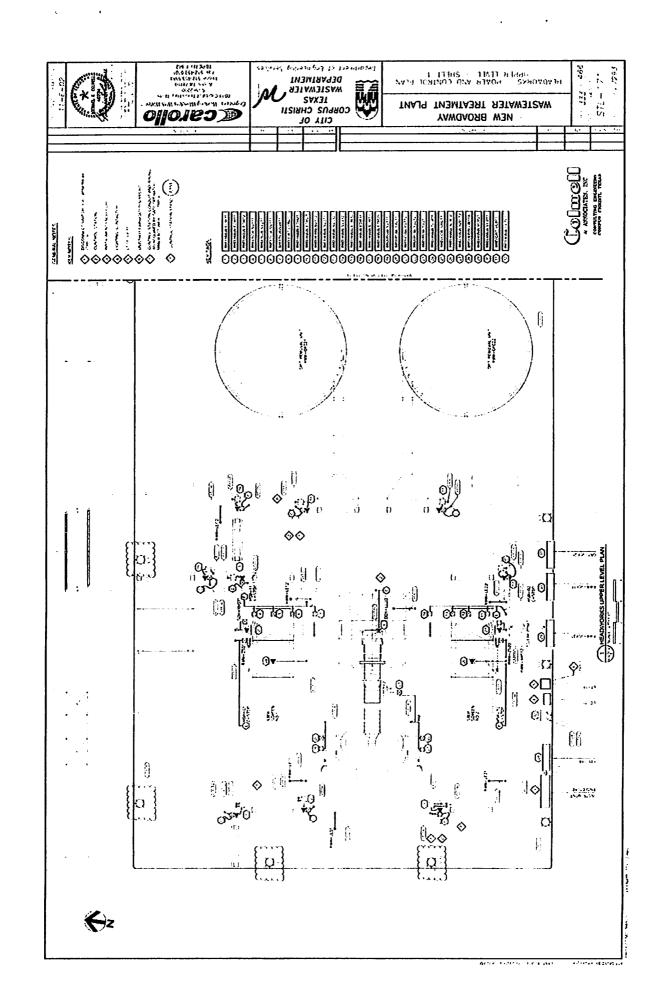
Submitted by Rene Aguilar, Carollo Engineers (06/13/2013):

A response to RFI No. 372 will be addressed in a Change Directive to the Contractor via FNI and EADOC.









PCO X11 ECR-1 Deck Drains

In response to standing rain water on the west deck of ECR-1, Carollo requested installation of deck drains with detailed instructions on how to install the drains. RFI 370.

New Broadway WWTP, Corpus Christi, TX PCO# X11 ECR-1 Deck Drains PCM#:

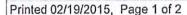
RFP#: Change Description: ECR-1 Deck designed w Zero slope Tax Rate:

8.25%

Description	Trauslie = T		Oty	M	Avg crew Rate	Total Hours	Labor Unit Hours	Material Unit Price	Equip Unit Price	Sub Unit Price	Total Labor	Payrol Taxes & Insurance	Labor w/PTI	Material Cost	Equipmen t Cost	Sub Cost	Total Cost
Estimate Preparation	E E	0104165		HR	30.00	0.00	1.0000	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Budget Revisions		0104620		HR	75.00	0.00	1.0000	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	50.00	\$0.00	\$0.00	\$0.00
Forman	-	0104130		HR	37.50	1.00	1.0000	\$0.00	\$0.00	\$0.00	\$37.50	\$15.00	\$52.50	50.00	\$0.00	\$0.00	\$52.50
Site Scheduler		0105130	0	HR	40.00	0.00	1.0000	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
					29.10	0.00	Carlo Col			Photo Company	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
			EL -4	1	29.10	0.00	Mary Section				\$0.00	\$0.00	\$0.00	\$0.00	50.00	\$0.00	\$0.00
		5,700			29.10	0.00					\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
		(TO 10 10)			29.10	0.00					\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
	A O		The organization	1	29.10	0.00		LOWING MANAGEMENT	BAR IT II		\$0.00	\$0.00	\$0,00	\$0.00	\$0.00	\$0.00	\$0.00
	AT IT IS				29.10	0.00	E-FLANCE PEN		Tarrett Fee	SEE SEE SEE	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
			11577		29.10	0.00			Lote Link		\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
			Value of	1	29.10	0.00					\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
ECR-1 Deck designed w Zero															5.0.00	00.00	20.00
slope-Drains Installed			1	lot	29.10	237.05	Land and	\$887.20			\$6,898,16	\$2,759.26	\$9,657.42	\$887.20	\$0.00	\$0.00	\$10,544.63
			0		29.10	0.00			No Table	Shirt and the last	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
					29.10	0.00					\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Sales Tax on Consumables:	50	4		8 %	W-The-side	0.00	And a second		Cal. Coly	WAY THE REAL PROPERTY.		3100	The second	\$0.00		THE REAL PROPERTY.	\$0.00
						0.00						-					\$0.00
Subtotal:			118	0	A. Landin	238.05		NAME OF STREET				The state of	\$9,709.92	\$887.20	\$0.00	\$0.00	\$10.597.12
														*			\$0.00
Safety		0151801												\$242,75			\$242.75
Small tools		0152990												\$606.87			\$606.8
Consumables		0152903												\$1,213.74			\$1,213.7
						20											\$0.00
Subtotal:		- 1	N. JER		Districts		are more	in interp	MAC ACME		MARKEDIA	Right Paul	\$9,709.92	\$2,950.56	\$0.00	\$0.00	\$12,660.47
Subtrade Bond		0174400						57 50	11.					7.15 7.16			
Performance & Payment Bond		0174350		-										\$0.00			\$0.00
Builders Risk				-										\$82.29			\$82.29
General Liability Insurance		0175100		_										\$106.35			\$106.3
General Liability insurance	-	0175220		_										\$37.90			\$37.90
Subtotal:		77.74		2.7	Lare dead		Butter to be a sector	Maria Cara Cara Cara Cara Cara Cara Cara			0.000		60 700 02	20 122 10	60.00	77.00	212 225 2
									THE REAL PROPERTY.				\$9,709.92	\$3,177.10	\$0.00	\$0.00	\$12,887.0
Overhead & Profit		0192310												\$1,933.05			\$1,933.0
T																	
Texas Franchise Tax		0176000												\$148.20			\$148.2
TOTAL:				1	7.5	25 1904019	& Vindatory Cor	of Astronomy	A A CHARLES	Brack Hall by St.	253,000,00	2-2014-00-00	\$9,709.92	85 250 26	\$0.00	50.00	514.0(0.0
		-		_									\$9.709.92	\$5,258.36	50.00	\$0.00	\$14,968.2

RFI # 370

Corpus Christi New Broadway WWTP Carollo Program





ECR-1 Upper Deck Drainage and Proposed Trench Drains

Submitted:

05/13/2013

Submitted To:

Adam Payne, Freese &

Nichols, Graham Construction, Steve

Eckersley

Status:

Closed

Priority:

Critical

Due Date:

05/22/2013

Pending On User:

Steve Eckersley

Pending On Org:

Freese & Nichols

Created By:

Graham Construction, Clay Howard

Created:

05/08/2013

Request:

5/8/13

RFI 370 - ECR-1 Upper Deck Drainage and Proposed Trench Drains

Reference: Carollo Drawing 22-S-01 (Floor Plan at EL. 13.00) and attached Zurn Cut Sheets

Carollo Drawing 22-S-01 Section B does not note any slope or fall to the concrete deck outside of the Switchgear Room and Electrical Control RM-1. Graham believes that this may cause inadequate drainage away from the doors during a heavy rain event. In order to prevent rainwater from moving into the Switchgear and Electrical Rooms under the doors, Graham proposes to install trench drains in front of doors #02, #04, and #05. See attached 22-S-01 for locations. A few trench drain suggestions by Zurn are also attached.

If the above proposal is required, please provide type of drain, installation details, and drain pipe routing. Cost impacts will occur. Cost impacts will include labor and material to install a trench drain system in existing concrete.

Locations

10-Switchgear/ECR-1/Aeration Basin/Blower Building

R	F	#	3	7	0
1 1		ı T	v		v

Corpus Christi New Broadway WWTP Carollo Program

Printed 02/19/2015, Page 2 of 2

References

Drawing # 170-22-S-01

Published

Files

Clarification__370 for clayh.pdf

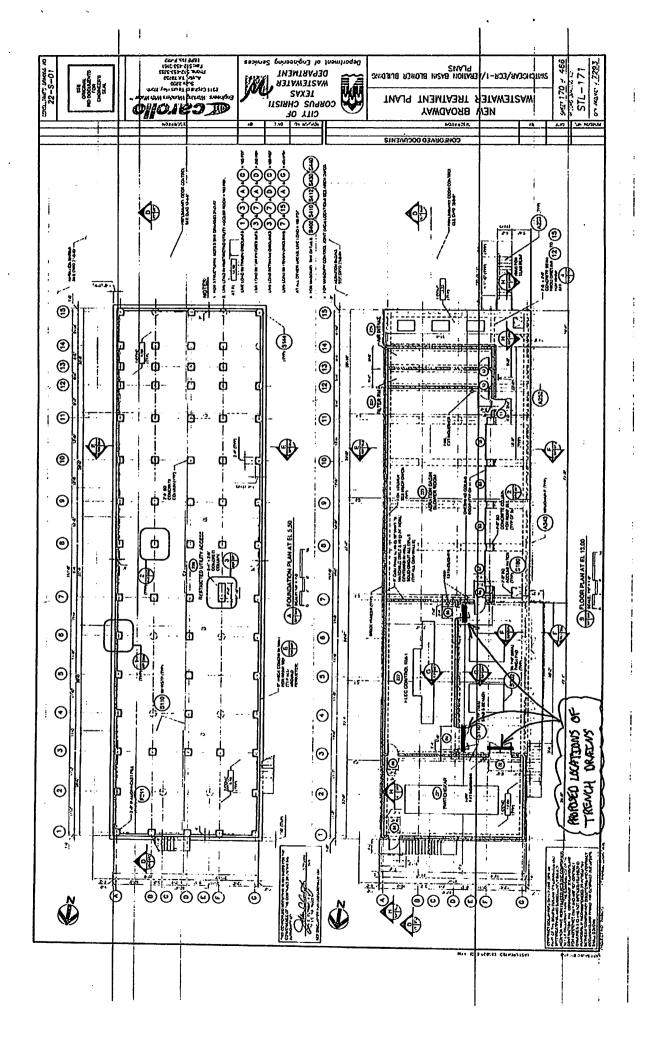
24.17 KB

RFI 370 Locations.pdf

218.37 KB

RFI 370 Zurn Products.pdf

240.04 KB



RFI Response # 1

Corpus Christi New Broadway WWTP Carollo Program

Printed 02/19/2015, Page 1 of 1



Subject:

Carollo Engineers Response to RFI # 370.1

Submitted:

07/10/2013

Created By:

Carollo Engineers, Rene Aguilar

Type:

Official

Response:

Submitted by Rene Aguilar, Carollo Engineers (07/10/2013):

The Contractor shall coordinate the actual installation locations with the CM Team prior to beginning the work. The Contractor and CM Team shall review existing site conditions and the feasibility of coring thru the top decking for the drain piping and utilizing a screen drain cover in lieu of the Zurn drain assembly to minimize the installation time and impact to the rebar of the concrete decking.

In addition, please note the following requirements:

- 1. Core hole size shall be a minimum of 8 inch diameter, sleeve the drain piping for attachment of the screen 1/2" below the top of decking elevation to allow for drainage.
- 2. Drain piping shall be Schedule 80 PVC material, 4 inch diameter, solvent weld, minimum slope of 0.5%.
- 3. Provide hanging pipe supports per Specification No. 15061, use Typical Detail P630 for hanging pipe supports, spacing every 10 ft minimum. Provide wall pipe supports per Specification No. 15061, use Typical Detail No. P662 for vertical riser piping, spacing every 5 ft minimum.
- 4. Apply Duralprep 3020 in accordance with manufacturer's instructions for all coring locations. Grout around PVC drain piping in accordance with Contract Documents.
- 5, Route drain piping on the inside of the restricted access area and core another hole through the bottom of the wall just above the bottom decking elevation of 5.50.
- 6. Route drain piping and fittings over the foundation footing to just above finished grade elevation.
- 7. Test all piping once installed according to Specification No. 15956 to 15 feet/GR test method.
- 8. Apply paint to all exterior exposed piping according to Contract Documents and approved schedules.

PCO X12 Baker Pump Rental

This is for the temporary pumping of the effluent from the UV in the new plant to the inlet for the headworks at the old plant during initial startup.

New Broadway WWTP, Corpus Christi, TX PCO# X12 Baker Pump Rental

PCM#:

RFP#:

Tax Rate:

8.25%

Change Description: Baker Pump Rental Parallel Pumping UV Wetwell to Trickling Filters

Description	Takehe = T	Function Code		M	Avg crew Rate	Total Hours	Labor Unit Hours	Material Unit Price	Equip Unit Price	Sub Unit Price	Total Labor	Payrol Taxes & Insurance	Labor w/PTI	Material Cost	Equipmen t Cost	Sub Cost	Total Cost
Estimate Preparation		0104165		HR	30.00	0.00	1.0000	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Budget Revisions	and the	0104620		HR	75.00	0.00	1.0000	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Forman	- 117	0104130		HR	37.50	1.00	1.0000	\$0.00	\$0.00	50.00	\$37.50	\$15.00	\$52.50	\$0.00	\$0.00	\$0.00	\$52.50
Site Scheduler		0105130	0	HR	40.00	0.00	1.0000	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0,00	\$0.00	\$0.00	\$0.00
					29.10	0.00	Estate and the second				\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
	1				29.10	0.00					\$0.00	\$0.00	\$0.00	\$0.00	" S0.00	\$0.00	\$0.00
	E Y			910	29.10	0.00		Language Service	ALCOHOLD BY		\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
					29.10	0.00				Section 2010	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
					29.10	0.00					\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
		Liber Color	4-11		29.10	0.00	Shrin Like				\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
	E [24]	-			29.10	0.00	85,747,58	Name and			\$0.00	\$0.00	50.00	\$0.00	\$0.00	\$0.00	\$0.00
					29.10	0.00			Street Line		\$0.00	\$0.00	\$0.00	\$0,00	\$0.00	\$0.00	\$0.00
Baker Pump Rental Pumping UV Wetwell to Trickling Filters			1	lot	29.10 29.10	0.00		\$0.00		\$46.607.80	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00	\$46.607.80 \$0.00	\$46,607.80
					29.10	0.00					\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		\$0.00
Sales Tax on Consumables:	50	5	1-316	17-37	Sec. 1 - 20.00	0.00	THE THE				\$0.00	30.00	30.00	\$0.00	30.00	\$0.00	\$0.00
						0.00						-	-	30.00			50.00
Subtotal:	p		1		Garalia k	1.00	are a second		THE PARTY OF THE P	EL SAFE AL SECTION	SECULAR SECULAR	Man Paris	\$52.50	\$0.00	\$0.00	\$46,607.80	\$46,660,30
													00/200/0	20.00	50.00	340,007.60	\$0.00
Safety		0151801		_										\$1.31			\$1.31
Small tools		0152990												\$3.28			\$3.20
Consumables		0152903												\$6.56			\$6.50
				5										50.50			\$0.00
Subtotal:	-	200		2		E 1994			March At		Calca L	£86.C.(1)	\$52,50	\$11.16	\$0.00	\$46.607.80	\$46.671.46
															- 45.00		2,010,11,1
Subtrade Bond		0174400												\$6,991.17			\$6,991.17
Performance & Payment Bond		0174350												\$348.81			\$348.81
Builders Risk		0175100												\$450.77			\$450.77
General Liability Insurance		0175220									177			\$160.66			\$160.66
C. best 1																	
Subtotal:			0			N-46	AL SAFE		-		Negrous and		\$52.50	\$7,962.56	\$0.00	\$46,607.80	\$54,622.80
Overhead & Profit		0102210															
Gverieda ec Fiorit		0192310												\$3,532,65			\$3,532.65
Texas Franchise Tax		0176000			allina and a state of the									\$581.56			0001.0
														3381.36			\$581.50
TOTAL:	in the	-	4 115	SHEET	Lyer my fi	STATE SHOW	Real Assistant			Miles Conseile	Ber Lindon	ALVERT STATE	\$52.50	\$12,076.77	\$0.00	\$46,607,80	\$58,737.07