

## City of Beaumont Wastewater Treatment Plant Salt Mitigation Upgrade Project Change Order No. 22

October 14, 2021

			Amount	Calendar Days	Comp. Date
Contractor:	W.M. Lyles Co.	Original Contract:	\$ 53,312,000.00	820	1/26/2021
Project Name:	Wastewater Treatment Plant Salt Mitigation Upgrade Project	Previous Approved Changes:	\$4,593,415.91	186	9/24/2021
Contract No.:	C18-80	This Change: Amount NTE	\$28,006.52	14	
CO Number:	22	Revised Contract if Approved:	\$57,933,422.43	1075	10/08/2021
		Previous Phase 1 Completion Date			9/18/2020
		Revised Phase 1 Completion Date			9/18/2020

This change order covers changes to the subject contract as described herein. The Contractor shall supply all labor, equipment, and materials to complete the Change Order items for the lump sum price agreed upon herein. All Change Order items must be submitted to the City for approval prior to fabrication.

Item No.	PCO No.	Description of Changes	Amount	Phase 1 Time Extension (CD*)	Phase 2 / Project Completion Time Extension (CD*)
1	52	Existing Centrifuge Drain to Cooper Creek Lift Station	\$8,059.34	0	0
2	54	IPS - Foam Control Sediment Mixing	\$9,035.66	0	0
3	56	Sludge Tank Blowers - Pipe Insulation	\$2,377.64	0	0
4	61	MBR Chemical Skid Discharge Vent System	\$7,844.55	0	0
5	62	UV Network Switch for Claros Connection	\$689.33	0	14
6			\$0	0	
7			\$0	0	
		NET CHANGE IN CONTRACT AMOUNT - DECREASE	\$28,006.52	0	14

<sup>\*</sup>Calendar Days

The amount of the Contract will be increased/decreased by Twenty-Eight Thousand Six dollars and fifty-two cents \$28,006.52. The Contract Time will be increased by fourteen (14) calendar days.

The Contractor agrees to furnish all labor, equipment, and materials and to perform all other necessary work, inclusive of the directly or indirectly related work, within the approved time extension required to complete the above Change Order items. The undersigned Contractor approves the foregoing Change Order as to the changes, if any, in the Contract Price specified for each item including any and all supervision costs and other miscellaneous costs relating to the change in Work, and as to the extension of time allowed, if any, for the completion of the entire Work on account of said Change Order. The City and the Contractor hereby agree that this Change Order constitutes full mutual accord and satisfaction for all time, all costs, and all impacts related directly or indirectly to this Change Order. The Contractor hereby agrees that this Change Order represents the full equitable adjustment owed under the Contract, and further agrees on behalf of himself and all subcontractors to waive all right to file any further claims or request for equitable adjustment arising out of or as a result of this Change Order or the cumulative effect of this Change Order on the performance of the overall Work under the Contract. This document will become a supplement of the contract and all provisions will apply hereto. It is understood that the Change Order shall be effective when approved by the City.

Recommended:	Charl fordy	,	Date: 10/19/2021
	MWH Constructors, Senior Resident Engineer		
Accepted:	Grant Gourley  Digago agreed by Great Gountey  Crede for the Vide Products  Constitution 1, 10, 20 de Great Only 1, 10, 20 de Great Only 1, 20 de	,	Date:
,	W.M. Lyles Co., Contractor	_	
Approved:	Digitally signed by Brian P. Kool NC Kull. Berlain P. Knol NE Horist N. Holl Berlain H. Holl Berlain H. Holl Berlain P. Knol Diese 2021-10.29 89 997-29 070	1	Date: 10/29/2023
• •	Albert A. Webb Associates, Program Manager	_	
Approved:			Date:
πρριονοα.	City of Beaumont City Manager	1	<i>Bate</i>



# City of Beaumont Wastewater Treatment Plant Salt Mitigation Upgrade Project

#### **Technical Justification:**

PCO-52	
Design Adjustment: WML COP-058	Existing Centrifuge Drain Modification

### Reason for Design Changes:

The existing centrifuges drained through a piping system that routed to the Influent Pump Station, which ultimately delivered wash water with excess polymer to the Fine Screens causing operational issues and blinding of the screens. The Cooper Creek Lift Station is located approximately 200-feet west of the centrifuges and is a viable solution to route the centrifuge wash water to the lift station diluting the drain water with raw sewage, which in turn routes to the Headworks Distribution Box at the beginning of the facility.

## Design and Scope Changes:

The contractor shall use spare 12-inch HDPE piping owned by the City to install an above ground drain piping system from the centrifuges to the Cooper Creek Lift Station. The contractor shall procure additional piping and fittings required to complete the installation along with providing fusion machine, labor and equipment necessary to complete the installation as directed by City Staff. The contractor shall also track time and materials used to complete the work.

### Cost Impact:

MWH has reviewed the attached WML cost proposal and find it acceptable. Accordingly, MWHC recommends a contract cost increase of **\$8,059.34** to be executed in a change order for the modifications requested.

## CITY OF BEAUMONT WWTP SALT MITIGATION UPGRADE PROJECT

## CHANGE ORDER PROPOSAL (COP) # 058 (By Contractor)

To (Engineer/CM):	From (Contractor):							
MWH Constructors	W.M. Lyles Co.							
Attention: Charles Reynolds	Attention: Oscar Mendoza							
Phone: 702-497-8024	Phone: 619-565-6064							
Email: Charles.w.reynolds@stantec.com	Email: omendoza@wmlylesco.com							
PCO/DCM No.: PCO # 058								
Subject: Centrifuges Drain Bypass								
Reference Documents: Attached								
DESCRIPTION								
This COP is to install a drain line from the existing cent. City.	rifuges to the Cooper Pump Station as requested by the							
COST ES	STIMATE							
Total Cost: \$ 8,059.34. – see attached breakdown.								
COMEDIA								
SCHEDUL	E IMPACT							
N/A								
Received by MWH Constructors (Date):								

	RESPONSE	
Response By:		Date:

Final Distribution: Oscar Mendoza, W.M. Lyles Co. Brian Knoll, Webb Associates MWH Inspector

W. M. Lyles Co. 42142 Roick Drive Temecula, CA 92590

2142 Roick Drive 7/15/2021

Reference #: N/A

Attention: Charles W. Reynolds

City of Beaumont WWTP Salt Mitigation Upgrade Project

DESCRIPTION: Centrifuges Drain Bypass

Item:		Unit	Total MH	Tota	al MH Cost	Eq.	Cost	Mat	erial	Sub	cont.	Total Cost	
1	Centrifuges Drain Bypass	1 LS	44	\$	3,472.35	\$	1,780.96	\$	1,685.43	\$	-	\$	6,938.73
2		1 LS	0	\$	-	\$	-	\$	-	\$	-	\$	-
3		1 LS	0	\$	-	\$	-	\$	-	\$	-	\$	-
		1 LS	0	\$	-	\$	-	\$	-	\$	-	\$	-
Total (	Costs		44	\$	3,472.35	\$	1,780.96	\$	1,685.43	\$	-	\$	6,938.73

Total This Change Order		\$ 8,059.34
Bond	1.0%	\$ 79.80
Mark-up - Subcontractor	5%	\$ -
Mark-up - Materials	15%	\$ 252.81
Mark-up - Equipment	15%	\$ 267.14
Mark-up - Labor	15%	\$ 520.85
Subtotal		\$ 6,938.73

Comments:

## City of Beaumont WWTP Salt Mitigation Upgrade Project

## **Centrifuges Drain Bypass**

#### A. Labor

Description	La	b Pipe	FM	Li	ab Pip	е	C	perat	or	С	arp FI	M		Carp			Lab		Ce	ment l	Mason
	ST	PT	DT	ST	PT	DT	ST	PT	DT	ST	PT	DT	ST	PT	DT	ST	PT	DT	ST	PT	DT
T&M Ticket 11/16/2020	8			8																	
T&M Ticket 11/17/2020	8			8																	
Timesheet 11/18/20	4			8																	
	20	0	0	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

		Rate				Hours	;	
Name	ST	PT		DT	ST	PT	DT	Extension
Lab Pipe FM	\$80.34		\$107.19	\$134.03	20	0	0	\$1,606.88
Lab Pipe	\$77.73		\$103.27	\$128.79	24	1 0	0	\$1,865.47
Operator	\$98.67		\$131.84	\$165.00	(	0	0	\$0.00
Carp FM	\$87.32		\$117.91	\$148.48	(	0 0	0	\$0.00
Carp	\$83.44		\$112.07	\$140.71	(	0 0	0	\$0.00
Lab	\$74.26		\$98.07	\$121.86	(	0 0	0	\$0.00
Cement Mason	\$80.42		\$105.60	\$130.78	(	0	0	\$0.00

44 0 0 Total Labor = \$3,472.35

## B. Equipment

Description	17.230.	32.037	66.011	15.182		
T&M Ticket 11/16/2020	8	8				
T&M Ticket 11/17/2020	8	8	8			
Timesheet 11/18/20	4			2		
						ſ

<u>Number</u>	<u>Description</u>	Rate	<u>Hours</u>	<u>Extension</u>
17.230.	1/2 Ton PickupChevy1500 Crew Cab	\$29.60	20	\$592.00
32.037	ReachliftXtremeXR1055	\$58.61	16	\$937.76
66.011	Butt Fusion MachineMcelroy618 6-18" IPS	\$24.00	8	\$192.00
15.182	Gang TruckChevy 3500 Service Bed	\$29.60	2	\$59.20

Total Equipment = \$1,780.96

### C. Materials

	Quantity	Unit	Price		Extension
6" IPS DR17 HDPE Flange Adapter	2	ea	\$	25.00	\$50.00
6" SDR11 Backing Ring	2	ea	\$	23.58	\$47.16
6" IPS DR17 HDPE 45 Bend	4	ea	\$	51.40	\$205.60
10" x 6' IPS DR17 Reducer	2	ft	\$	138.00	\$276.00
10" IPS DR11 Wye	1	ea	\$	500.00	\$500.00
10" IPS DR11/17 90	1	ea	\$	225.44	\$225.44
12" x 10' SDR17 IPS	2	ea	\$	130.00	\$260.00

Tax 7.750%

\$121.23 Subtotal \$1,685.43

Total Material = \$1,685.43

### D. Subcontractor

 Quantity
 Unit
 Price
 Extension

 LS
 \$0.00

Total Subcontract =

\$0.00

W.M. Lyles Co. PO Box 4377 Fresno, CA 93744

## TIME & MATERIAL SHEET

W. M. LYLES CO. CONTRACTOR

Progress Through Performance"

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	LABOR				
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ISTOMER Charle Renola		W.M. Lyles ( Signature	io. 4		
nt Name <u>CAA (leg Re Ynou) (</u> Title	Date #/17/20	Print Name_ Title	BUNG	<u>Мгиясы</u> Date	1/1/21

W.M. Lyles Co. PO Box 4377 Fresno, CA 93744

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W. M. LYLES CO.
CONTRACTOR
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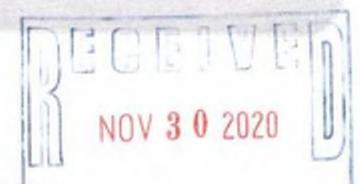
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## INVOICE



1830 Craig Park Court St. Louis, MO 63146



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W. M. LYLES CO. PO BOX 4377 FRESNO CA 93744-4377 Shipped to:

Oscar-619-565-6064 715 W 4th STREET CITY OF BEAUMONT, CA

CUSTOMER JOB- 55.1173 WTP SALTMITIGAT

Invoice #

Account #

Sales Rep

Phone #

Remit To:

Invoice Date

Branch # 168

**Total Amount Due** 

**CORE & MAIN LP** 

ST. LOUIS, MO 63146

PO BOX 28330

N351649

11/17/20

909-574-8662

Corona, CA

\$1,146.67

CORONA CA HOUSE

242591

Thank you for the opportunity to serve you! We appreciate your prompt payment.

Date Ordered Date Shipped Customer PO # Job Name
11/13/20 Date Shipped Customer PO # Job Name
55.1173 Dob # Bill of Lading Shipped Via CORE & MAIN LP N351649

			Quantity				
Product Code	Description	Ordered	Shipped	B/O	Price	UM	Extended Price
0941M0617FA	6 IPS DR17 HDPE FLG ADPT	2	2		25.00000	EA	50.00
0941BUR0611DI	6" SDR11 DI IPS BACKING RING	2	2		23.58000	EA	47.16
0910M061745	6 IPS DR17 HDPE 45 BEND MOLD	4	4		51.40000	EA	205.60
0941M10R0617	10X6 IPS DR17 REDUCER MOLDED	2	2		138.00000	EA	276.00
0941F1017Y	10 IPS DR11 FAB WYE	1		1	500.00000	EA	.00
0941F10173SEG90	10 IPS DR11/17 3SEG 90 PC120	1	1		225.44000	EA	225.44
0910M121017R	12X10 1000 SDR17 IPS PE RED	2	2		130.00000	EA	260.00

Visit core and main.com for a current W-9 form



Online

- · Pay Online
- Paperless Billing
- Invoice Reprints
- · Signed Delivery Receipts

Remit payment to the address shown on this invoice or access your account in Online Advantage to pay online.

Freight

Terms: NET 30

Delivery

Handling

Restock

Misc.

Subtotal:

1,064.20

Other:

0.00

Ordered By: OSCAR

Tax:

82.47

Invoice Total:

\$1,146.67

This transaction is governed by and subject to CORE & MAIN's standard terms and conditions, which are incorporated by reference and accepted.

To review these terms and conditions, please visit: http://tandc.coreandmain.com/.



## INVOICE



1830 Craig Park Court St. Louis, MO 63146

Invoice # Invoice Date Account # Sales Rep Phone # Branch # 168 **Total Amount Due** 

11/19/20 242591 **CORONA CA HOUSE** 909-574-8662 Corona, CA

N359336

\$538.75

Remit To: CORE & MAIN LP PO BOX 28330 ST. LOUIS, MO 63146

Backordered from:

11/17/20

N351649

Oscar-619-565-6064 715 W 4th STREET CITY OF BEAUMONT, CA

Shipped to:

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W. M. LYLES CO. PO BOX 4377 FRESNO CA 93744-4377

CUSTOMER JOB- 55.1173 WTP SALTMITIGAT

Thank you for the opportunity to serve you! We appreciate your prompt payment.

**Date Ordered Date Shipped** Customer PO # Job Name

11/18/20

WTP SALTMITIGAT

Job# 55.1173 Bill of Lading

Invoice # Shipped Via

CORE & MAIN LP N359336

Quantity **Product Code** Description Ordered Shipped B/O Price UM

0941F1017Y

11/13/20

10 IPS DR11 FAB WYE

55.1173

500.00000

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500.00

**Extended Price** 



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Online

- · Pay Online
- · Paperless Billing
- · Invoice Reprints
- · Signed Delivery Receipts

Remit payment to the address shown on this invoice or access your account in Online Advantage to pay online.

Freight

Terms: NET 30

Delivery

Handling

Restock

Misc.

Subtotal: Other:

500.00 0.00

Tax:

38.75

Ordered By: OSCAR

Invoice Total:

\$538.75

This transaction is governed by and subject to CORE & MAIN's standard terms and conditions, which are incorporated by reference and accepted. To review these terms and conditions, please visit: http://tandc.coreandmain.com/.











# City of Beaumont Wastewater Treatment Plant Salt Mitigation Upgrade Project

#### **Technical Justification:**

PCO-54	
Design Adjustment:	
WML COP-061	IPS Spray Blanket / Basin Scour Control Piping

### Reason for Design Changes:

The Influent Pumping Station was retrofitted with new pumps, valves and piping along with level monitoring instrumentation. A heavy organic foam blanket buildup keeps reoccurring on the water surface along with heavy solids materials settling on the floor of the wet-well resulting in false alarms and inaccurate level reading, which interfere with SCADA PID pump control logic. This issue also increases maintenance causing operators to clean the wet-well more frequent than normal.

To mitigate surface foam and solids buildup on the floor of the wet-well additional piping shall be added routing from the aboveground pump station discharge manifold to inside the wet-well. Inside the wet-well the contractor shall install a discharge pipe that sprays the surface of the liquid level and a discharge pipe below the water level that keeps solid materials in suspension.

### Design and Scope Changes:

- A new galvanized steel piping manifold shall be installed per redline markups on design drawing HM-5 and HM-12 and photos attached.
- The contractor shall procure and install all additional piping, fittings and supports necessary to complete the design intent.
- Due to the urgency and operational disruptions caused by the surface foam buildup the contractor shall perform the work under T&M.

#### Cost Impact:

MWH has reviewed the attached WML cost proposal and find it acceptable. Accordingly, MWHC recommends a contract cost increase of **\$9,035.66** to be executed in a change order for the modifications requested.

## CITY OF BEAUMONT WWTP SALT MITIGATION UPGRADE PROJECT

## CHANGE ORDER PROPOSAL (COP) # 061 (By Contractor)

To (Engineer/CM):	From (Contractor):
MWH Constructors	W.M. Lyles Co.
Attention: Charles Reynolds	Attention: Oscar Mendoza
Phone: 702-497-8024	Phone: 619-565-6064
Email: Charles.w.reynolds@stantec.com	Email: omendoza@wmlylesco.com
PCO/DCM No.:	
Subject: IPS Spray Piping	
Reference Documents: Attached	
DESCR	IPTION
This COP is to install spray piping at the influent pump	station per engineer's direction.
	r
COST ES	STIMATE
Total Cost: \$ 9,035.66– see attached breakdown.	
SCHEDUL	E IMPACT
N/A	
D. I. I. MWH C. A.	
Received by MWH Constructors (Date):	

	RESPONSE	
Response By:		Date:

Final Distribution: Oscar Mendoza, W.M. Lyles Co. Brian Knoll, Webb Associates MWH Inspector

W. M. Lyles Co. 42142 Roick Drive Temecula, CA 92590

2142 Roick Drive 7/19/2021

Reference #: N/A

Attention: Charles W. Reynolds

City of Beaumont WWTP Salt Mitigation Upgrade Project

DESCRIPTION: Change Order - IPS Spray Piping

Item:		Unit	Total MH	Tota	al MH Cost	Eq.	Cost	Mat	erial	Sub	cont.	Total Cost	
1	Change Order - IPS Spray Piping	1 LS	33	\$	2,796.19	\$	440.74	\$	4,542.38	\$	-	\$	7,779.31
2		1 LS	0	\$	-	\$	-	\$	-	\$	-	\$	-
3		1 LS	0	\$	-	\$	-	\$	-	\$	-	\$	-
		1 LS	0	\$	-	\$	-	\$	-	\$	-	\$	-
Total (	Costs		33	\$	2,796.19	\$	440.74	\$	4,542.38	\$	-	\$	7,779.31

Total This Change Order		\$ 9,035.66
Bond	1.0%	\$ 89.46
Mark-up - Subcontractor	5%	\$ -
Mark-up - Materials	15%	\$ 681.36
Mark-up - Equipment	15%	\$ 66.11
Mark-up - Labor	15%	\$ 419.43
Subtotal		\$ 7,779.31

Comments:

## City of Beaumont WWTP Salt Mitigation Upgrade Project

## **IPS Spray System**

l aho

A. Labor																									
Description				Lab Pipe FM			La	Lab Pipe			Operator			Carp F	М		Carp	)			Cement Mason				
					ST	PT	DT	ST	PT	DT	ST	PT	DT		PT	DT	ST	PT	DT	ST	PT	DT	ST	PT	DT
T&M Ticket 4/26/ T&M Ticket 4/28/														3			16 6								
T&IVI TICKEL 4/28/	2021													3			ь								
					0	0	0	0	0	0	0	0	0	11	0	0	22	0	0	0	0	0	0	0	0
	-	Rate			i		Hour	s	_																
Name	ST	PT		DT		ST	PT	DT			Exte	ension													
Lab Pipe FM	\$80.34	5	\$107.19	\$134.03		0	0	0				\$0.00													
Lab Pipe	\$77.73	5	\$103.27	\$128.79		0	0	0				\$0.00													
Operator	\$98.67	5	\$131.84	\$165.00		0	0	0				\$0.00													
Carp FM	\$87.32	5	\$117.91	\$148.48		11	0	0				\$960.52													
Carp	\$83.44	5	\$112.07	\$140.71		22	0	0				\$1,835.67													
Lab	\$74.26		\$98.07	\$121.86		0	0	0				\$0.00													
Cement Mason	\$80.42	5	\$105.60	\$130.78		0	0	0				\$0.00													
	•					33	0	0																	
						Tot	al La	bor =				\$2,796.19													
B. Equipmen	t																								
	Descrip	otion				18.311		1	5.198	3															
T&M Ticket 4/26/						8			2																
T&M Ticket 4/28/	2021					3			1																
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	5					11		l	3		Ι	. 0		l	0		ļ	0		ļ	0		l	0	
Number	<u>Description</u>	I. FIF0F0 O	O-1- 0	NA/D	Rate			Hours	_		Exte	nsion													
18.311	1 Ton Gang Truc		rew Cab 2	ZWD		29.60		11				\$325.60													
15.198	Gang TruckDodg	je5500			,	38.38		3				\$115.14													
								14																	
					Tota	l Equi	pmei	nt =				\$440.74													
C. Materials																									
C. Materials				Quantity	Unit	Price					Exte	nsion													
4" 316SS 90				4	ea			265.54				\$1,062.16													
4" x 10' 304SS th	readed on both side	es		2	ea		\$9	14.45				\$1,828.90													
4" Zinc plated Str				5	ea			\$4.24				\$21.20													
4" 304SS 90	·			2	ea		\$1	70.36				\$340.72													
2" 304SS 90				1	ea			38.68				\$38.68													
4"x2" 304SS bus	hing adapter			2	ea			41.17				\$282.34													
4" 316SS Union				1	ea			30.13				\$430.13													
4" 304SS nipple				5	ea			39.84				\$199.20													
Tax				7.750%								\$325.76	-												
								Subt	otal			\$4,529.09													
								Fre	_			\$13.29													
						Total	Mate	erial =	:			\$4,542.38													
												¥ .,• .=.••													
												V 1,0 12.00													
D. Subcontra	ctor											¥ 1,0 12.00													

Total Subcontract =

W.M. Lyles Co. PO Box 4377 Fresno, CA 93744

## TIME & MATERIAL SHEET

W. M. LYLES CO.
CONTRACTOR
South Progress Through Performance

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W.M. Lyles Co. PO Box 4377 Fresno, CA 93744

## TIME & MATERIAL SHEET

W. M. LYLES CO.

Progress Through Performance

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FY THAT I HAVE THE AUTHOR	ITY TO AUTHORI	ZE THE WO	RK PERFORM	ED UNDER THIS	S FIELD WOR	K ORDER
MER OF OP	0		W.M. Lyles	Co.	10	n
FY THAT I HAVE THE AUTHOR  MER  JOHN STEP	ITY TO AUTHORI	ZE THE WO	RK PERFORM W.M. Lyles Signature		NDER THIS	anuite la Ref



Packing List

9630 Norwalk Blvd Santa Fe Springs CA 90670-2932 562-692-5911 la.sales@mcmaster.com

W M Lyles Co Office Trailer 715 W 4TH St Beaumont CA 92223-2674 Attention: Armando Cayama Purchase Order KYLE Order Placed By Armando Cayama

5779331-01

McMaster-Carr Number

Page 1 of 1

04/22/2021

Lin	<u>e</u>	Product	Ordered	Shipped
1	4452K234	316 Stainless Steel Threaded Pipe Filting, Low-Pressure, Union Straight Connector, 4 NPT Female	1 Each	1
		IPS Change Order.		

89



9630 Norwalk Blvd Santa Fe Springs CA 90670-2932 562-692-5911 la.sales@mcmaster.com W M Lyles Co
Office Trailer
715 W 4TH St
Beaumont CA 92223-2674
Attention: kyle

Packing List

Purchase Order 551173

Order Placed By Kyle Garner

McMaster-Carr Number 5791042-01

Page 1 of 1 04/22/2021

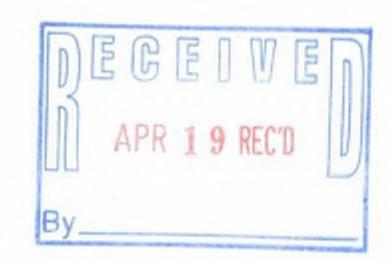
Line	Product	Ordered (	Shipped
1 4830K29	Standard-Wall 304/304L Stainless Steel Pipe Nipple, Fully Threaded, 4 NPT, 2-7/8" Long Your Part Number: IPS change order	5 Each	5



## Invoice

562-692-5911 562-695-2323 (fax) la.sales@mcmaster.com

> Billed to W M LYLES CO P O BOX 4377 FRESNO CA 93744



Shipped to

Attention: Armando Cayama W M Lyles Co Office Trailer 715 W 4TH St Beaumont CA 92223-2674 

 Purchase Order
 1173-IPS T&M

 Total
 \$749.16

 Invoice
 56779153

 Invoice Date
 4/16/21

 Payment Terms
 2% 10, Net 30

 Deduct \$14.72 on merchandise and tax if paid by 4/26/21.

Mail Payment to

McMaster-Carr

PO Box 7690

Chicago IL 60680-7690

Your Account

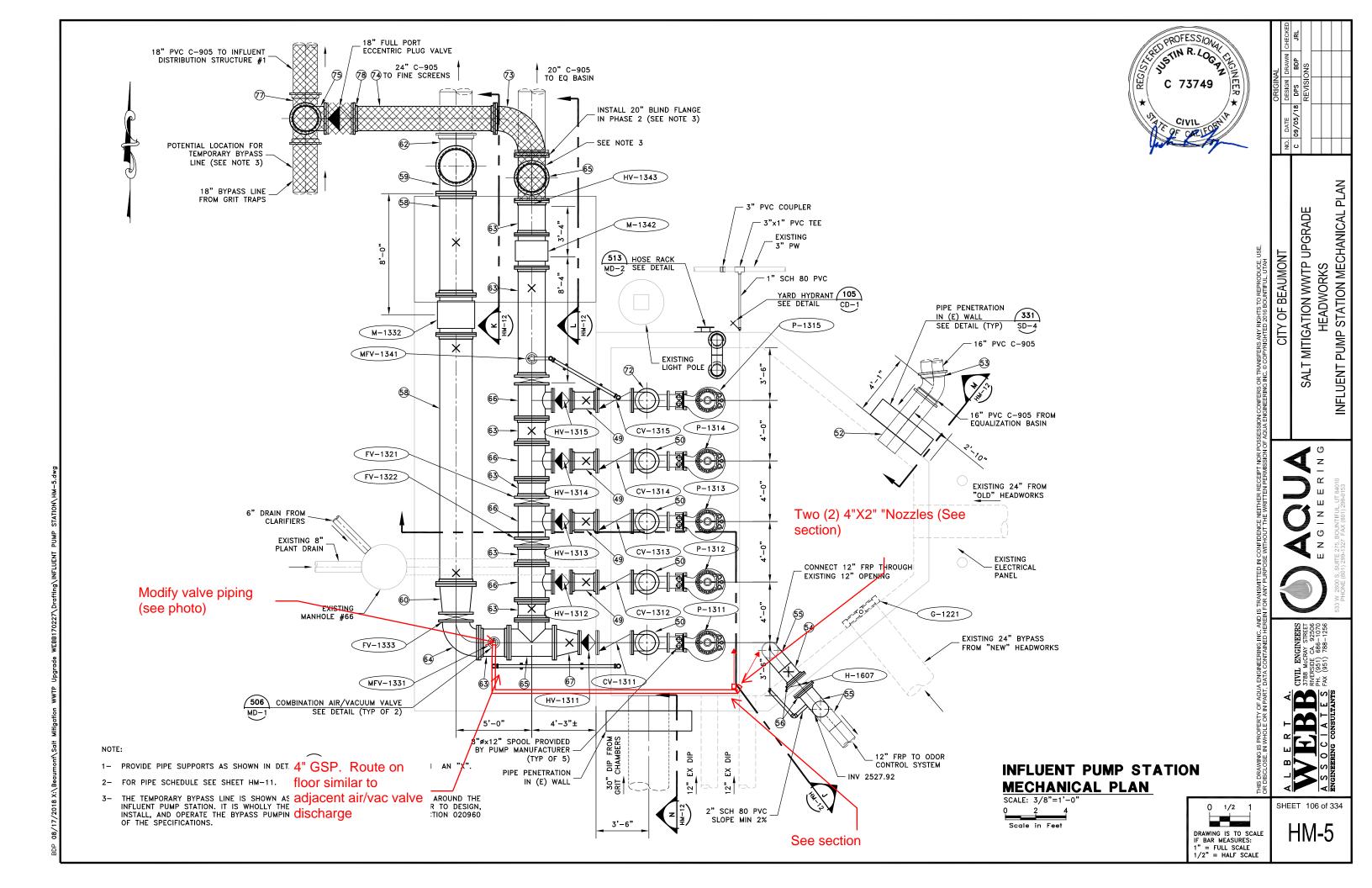
89702600

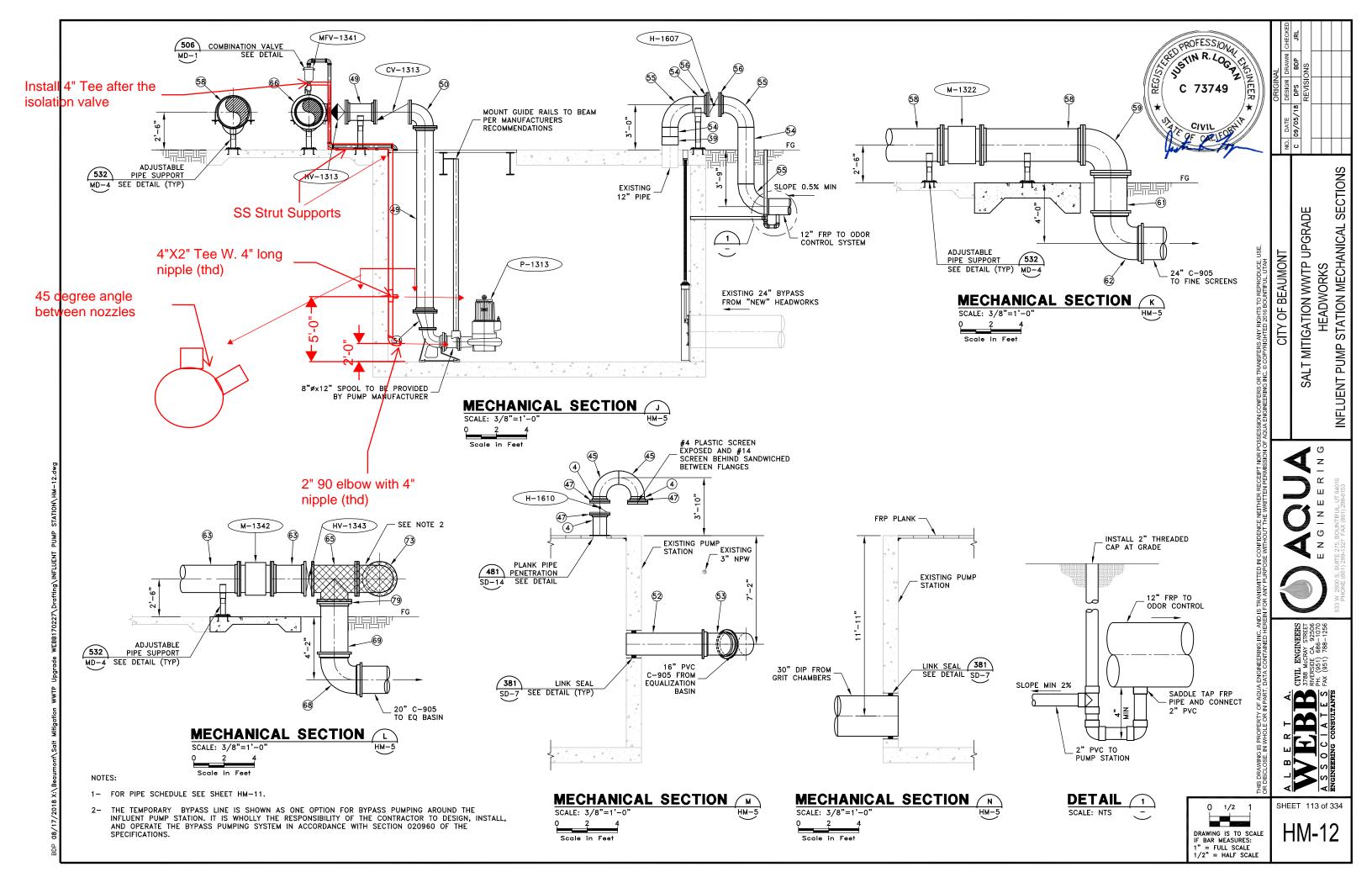
Armando Cayama placed this order.

Line	111	Product	Ordered	Shipped	Balance	Price	Total
1	3115T23	Strut-Mount Metal Routing Clamp, Zinc-Plated Steel, 4" ID, 1/8" Thick	5 Each	5	0	4.24 Each	21.20
2	4464K123	304 Stainless Steel Threaded Pipe Fitting, Low-Pressure, 90 Degree Elbow Connector, 4 NPT Female	2 Each	2	0	170.36 Each	340.72
3	4464K19	304 Stainless Steel Threaded Pipe Fitting, Low-Pressure, 90 Degree Elbow Connector, 2 NPT Female	1 Each	1	0	38.68 Each	38.68
4	6850K36	Low-Pressure Fitting for Flat Tanks, 304 Stainless Steel Bushing Adapter, 4 NPT Male x 2 NPT Female	2 Each	2	0	141.17 Each	282.34
Note				Merchano	dise		682.94
		changed the purchase order number from		Sales Tax	<		52.93
		1173-IPS T&M on April 16th.		Shipping			13.29
	1 1 1			Total			\$749.16
						-1	144

Packing List Shipped Weight Carrier Tracking
5519819-01 4/16/21 37 lb UPS 1Z0526590102893740

\$ 734.44











# City of Beaumont Wastewater Treatment Plant Salt Mitigation Upgrade Project

#### **Technical Justification:**

PCO-56	
Design Adjustment: WML COP-064	Sludge Tank Blowers - Pipe Insulation

## Reason for Design Changes:

The new partially enclosed blower structure consists of three blowers with exposed piping and VFDs for each blower in the rear confined space area of the structure. The heat generated by the blowers produce heated piping from 110 to 125°F within contact of City staff when performing normal day to day equipment checks and maintenance.

### Design and Scope Changes:

- The contractor shall direct its subcontractor, PCI, to insulate the exposed steel piping from the blower discharge up to a height of 8-feet above the finished floor. Insulation and shielding shall be per contract specification section 220719 for three piping runs with service temperatures ranging from 100 to 200 degrees Fahrenheit (see schedule in paragraph 2.1.A of the specification section noted).
- Because operation of the blowers has commenced and to minimized cost while subcontractor, PCI, is already mobilized to the site performing other contract work, this extra work shall be performed immediately.

## Cost Impact:

MWH has reviewed the attached WML cost proposal and find it acceptable. Accordingly, MWHC recommends a contract cost increase of **\$2,377.64** to be executed in a change order for the modifications requested.

## CITY OF BEAUMONT WWTP SALT MITIGATION UPGRADE PROJECT

## CHANGE ORDER PROPOSAL (COP) #064 (By Contractor)

From (Contractor):

MWH Constructors	W.M. Lyles Co.								
Attention: Charles Reynolds	Attention: Samantha Robbins Phone: 951-595-2306								
Phone: 702-497-8024	Email: srobbins@wmlylesco.com								
Email: Charles.w.reynolds@stantec.com	Email: 31000ms@winiyieseo.com								
PCO/DCM No.: 064									
<b>Subject:</b> 6" Blower Pipe Insulation									
Reference Documents: Email Correspondence									
DESCRIPTION									
PCI to insulate 6" blower piping at solids holding tank blo	wers. No more than 8 LF.								
The discharge piping of the three sludge tank aeration blov	vers is located within the walkway that provides access to								
the blower components and VFD control panels. When a b	lower is in operation the piping temperature may be more								
than 110°F to 120°F.									
COST ES	PIM A TE								
COST ES	IIMAIE								
\$2,377.64									
SCHEDULI	EIMPACT								
None									
Received by MWH Constructors (Date):									
RESPO									
This additional work was authorized by MWH with the	e City's approval to be performed while the insulation								
subcontractor PCI was onsite performing other contractor	work.								
Response By: Charles Reynolds	<b>Date</b> : 8/31/2021								
	1								

Final Distribution: Samantha Robbins, W.M. Lyles Co. Brian Knoll, Webb Associates

To (Engineer/CM):

MWH Inspector

W. M. Lyles Co. 42142 Roick Drive Temecula, CA 92590

Date: 30-Aug-21

Reference #:

Attention: Charles W. Reynolds

JOB LOCATION: City of Beaumont WWTP Slat Mitigation Upgrade Project

DESCRIPTION:

Item:		Unit	Total MH	T	otal MH Cost	Eq. C	ost	Material		Sul	bcont.	Total Cost	
1		LS	0	) {	\$ -	\$	-	\$	-	\$	2,242.00	\$	2,242.00
2	-	LS	0	) {	\$ -	\$	-	\$	-	\$	-	\$	-
3	-	LS	0	) {	\$ -	\$	-	\$	-	\$	-	\$	-
4	-	LS	0	) {	\$ -	\$	-	\$	-	\$	-	\$	-
5	-	LS	0	) {	\$ -	\$	-	\$	-	\$	-	\$	-
6	-	LS	0	) {	\$ -	\$	-	\$	-	\$	-	\$	-
Total C	Costs		0	) {	\$ -	\$	-	\$	-	\$	2.242.00	\$	2.242.00

Total This Change Order		\$ 2,377.64
Bond	1.0%	\$ 23.54
Mark-up - Subcontractor	5%	\$ 112.10
Mark-up - Materials	15%	\$ -
Mark-up - Equipment	15%	\$ -
Mark-up - Labor	15%	\$ -
Subtotal		\$ 2,242.00

Comments:

Description																					
	ST	PT	DT	ST	PT	DT	ST	PT	DT	ST	PT	DT	ST	PT	DT	ST	PT	DT	ST	PT	D.
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	Rate				Н	ours		
Name		ST	PT	DT	ST P	T	T	Extension
	0	\$0.00	\$0.00	\$0.00	0	0	0	\$0.00
	0	\$0.00	\$0.00	\$0.00	0	0	0	\$0.00
	0	\$0.00	\$0.00	\$0.00	0	0	0	\$0.00
	0	\$0.00	\$0.00	\$0.00	0	0	0	\$0.00
	0	\$0.00	\$0.00	\$0.00	0	0	0	\$0.00
	0	\$0.00	\$0.00	\$0.00	0	0	0	\$0.00
	0	\$0.00	\$0.00	\$0.00	0	0	0	\$0.00
	0	\$0.00	\$0.00	\$0.00	0	0	0	\$0.00
	0	\$0.00	\$0.00	\$0.00	0	0	0	\$0.00

Total Labor = \$0.00

#### B. Equipment

Description	31.028	32.037	20.041	20.037	30.048	40.094	17.124
	0	0	0	0	0	0	0

		1		
Number	Description	Rate	Hours	Extension
31.028	Hydro Crane - 80 TonLink BeltF	\$164.01	0	\$0.00
32.037	ReachliftXtremeXR1055	\$58.61	0	\$0.00
20.041	ExcavatorJohn Deere350GLC	\$151.12	0	\$0.00
20.037	Mini ExcavatorTakeuchiTB260	\$35.70	0	\$0.00
30.048	Loader Backhoe 410John Deere	\$64.30	0	\$0.00
40.094	Air CompressorIngersol Rand18	\$20.19	0	\$0.00
17	Foreman Truck	\$29.60	0	\$0.00
			0	

Total Equipment = \$0.00

## C. Materials

	Total Material	= \$0.00
Freight		\$0.00
Tax	7.750%	\$0.00
		\$0.00
		\$0.00
		\$0.00
		\$0.00
		\$0.00
		\$0.00
		\$0.00
		\$0.00
	Quantity Unit Price	<u>Extension</u>

D. Subcontractor				
	Quantity	Unit	Price	Extension
PCI	1	LS	\$2,242.00	\$2,242.00
	1	LS	\$0.00	\$0.00
	1	LS	\$0.00	\$0.00
	1	LS	\$0.00	\$0.00
	1	LS	\$0.00	\$0.00
	1	LS	\$0.00	\$0.00
				\$0.00
				\$0.00
		-		\$0.00
		Total	Subcontract =	£2 242 00

Total Subcontract = \$2,242.00



## Change Order INSULATION & SPECIALTY SERVICES

PERFORMANCE CONTRACTING INC. 4955 E. LANDON DRIVE ANAHEIM, CA 92807

TO CUSTOMER: WM LYLES CO.

42142 ROICK DRIVE TEMECULA, CA 92590

ATTENTION: OSCAR MENDOZA DATE: 7/20/2021

Performance Contracting, Inc. (hereinafter designated as "CONTRACTOR") proposes to furnish all materials and labor required for the application of the following (hereinafter designated as the "Work") for the amount stated below:

#### Scope of work: Blower Pipe insulation for personal protection

1. 6" Blower Piping - insulate up to 8' elevation from ground level to provide personal protection from the three blower boxes.

The total change order cost for this work is two thousand two hundred forty-two dollars. \$2,242.00.

Pricing:
Price includes Sales Tax.

In the event CONTRACTOR's price is included within your bid, then CONTRACTOR's bid will be deemed to have been accepted. This proposal is subject to change and will be withdrawn if not accepted within 30 days of the above date; it is subject to and includes all terms and conditions described herein (and such other terms as may be mutually agreed upon).

WM LYLES CO.	PERFORMANCE CONTRACTING, INC.			
By:	By: Nick Naretta			
Title:	Title: Project Engineer			
Contract Price \$	Approval Date:			
Acceptance Date:	By:			

1

#### Crystal Goins

From: Oscar Mendoza < omendoza@wmlylesco.com>

Sent: Tuesday, July 20, 2021 3:24 PM

To: Nick Naretta
Cc: Samantha Robbins

Subject: Fwd: PCI Change Order #001-Blower Pipe Insulation

Follow Up Flag: Follow up Flag Status: Completed

Approved

Oscar Mendoza

Sent from my iPhone

Begin forwarded message:

From: Charles Reynolds < Charles.W.Reynolds@mwhconstructors.com>

Date: July 20, 2021 at 3:06:30 PM PDT

To: Oscar Mendoza <omendoza@wmlylesco.com>

Subject: FW: PCI Change Order #001-Blower Pipe Insulation

See email approval below.

Charles Reynolds Resident Engineer

702.497.8024 | mobile 391 N. Main St. Suite 110 Corona CA 92879

mwhconstructors.com<a href="https://linkprotect.cudasvc.com/url?a=http%3a%2f%2fwww.mwhconstructors.com%2f&c=E,1,w">https://linkprotect.cudasvc.com/url?a=http%3a%2f%2fwww.mwhconstructors.com%2f&c=E,1,w</a> IFDbXRyN21dAMI3nBplstYJ3mBHYqt4XwQClauFUZ60p8PQaeIQu9iU4NTCfa-XUrifSpY5AXO\_ua-0la-

810fp610FYbE\_1Jk1yGdjFA,,&typo=1>

Charles.W.Reynolds@mwhconstructors.com<mailto:Charles.W.Reynolds@mwhconstructors.com>

From: Thaxton VanBelle <TVanBelle@beaumontca.gov>

Sent: Tuesday, July 20, 2021 2:50 PM

To: Charles Reynolds <Charles.W.Reynolds@mwhconstructors.com>; Boris Petkovic <boris.petkovic@aquaeng.com>

Cc: Justin Logan < justin.logan@aquaeng.com>; Brian Knoll <brian.knoll@webbassociates.com>; Kevin Lee

<KLee@beaumontca.gov>; Edmond Sayegh <Edmond.Sayegh@mwhconstructors.com>

Subject: RE: PCI Change Order #001-Blower Pipe Insulation

CAUTION: This message originated externally, please use caution when clicking on links or opening attachments.

This was approved by the Mayor, please proceed.

#### THAXTON VAN BELLE General Manager of Utilities

From: Charles Reynolds

<Charles.W.Reynolds@mwhconstructors.com<mailto:Charles.W.Reynolds@mwhconstructors.com>>

Sent: Tuesday, July 20, 2021 9:28 AM

To: Thaxton VanBelle <TVanBelle@beaumontca.gov<mailto:TVanBelle@beaumontca.gov>>; Boris Petkovic

<boris.petkovic@aquaeng.com<mailto:boris.petkovic@aquaeng.com>>

Cc: Justin Logan < justin.logan@aquaeng.com<mailto:justin.logan@aquaeng.com>>; Brian Knoll

<br/>brian.knoll@webbassociates.com<mailto:brian.knoll@webbassociates.com>>; Kevin Lee

<KLee@beaumontca.gov<mailto:KLee@beaumontca.gov>>; Edmond Sayegh

<Edmond.Sayegh@mwhconstructors.com<mailto:Edmond.Sayegh@mwhconstructors.com>>

Subject: PW: PCI Change Order #001-Blower Pipe Insulation

Importance: High

All, see email and quote attached. For those out of the loop. The discharge piping between the sludge blowers and VFDs gets hot and easily in contact with staff and potential visitors. Temperatures measured last week are in the range of 110 to 120 degrees F. PCI, WML subcontractor is on site completing insulation of contract work. If this is something that needs to be done, please reach out to Kristine and provide direction?

Charles Reynolds Resident Engineer

702.497.8024 | mobile 391 N. Main St. Suite 110 Corona CA 92879

mwhconstructors.com<a href="https://nam04.safelinks.protection.outlook.com/?url=https%3A%2F%2Flinkprotect.cudasvc.com%2Furl%3Fa%3Dhttp%253a%252f%252fwww.mwhconstructors.com%252f%26c%3DE%2C1%2CwIFDbXRyN21dAMI3nBplstYJ3mBHYqt4XwQClauFUZ60p8PQaelQu9iU4NTCfa-XUrifSpY5AKO\_ua-0la-

810fp610FYbE\_1lk1yGdjFA%2C%26typo%3D1&data=04%7C01%7CCharles.W.Reynolds%40mwhconstructors.com% 7Cb53980379d4146aaf96408d94bc86524%7C0a9582790c1d4685846ea8a8fd868442%7C0%7C0%7C6376241463289079 52%7CUnknown%7CTWFpbGZsb3d8eyJWIjoIMC4wLjAwMDAiLCJQIjoIVZluMzIILCJBTiI6lk1haWwiLCJXVCI6Mn0%3D%7C1 000&sdata=L5N%2Fho0u9K2%2FZGIVZIm5VuFXEIHGRgfHBqDkOuDNR20%3D&reserved=0>

Charles.W.Reynolds@mwhconstructors.com<mailto:Charles.W.Reynolds@mwhconstructors.com>

From: Oscar Mendoza <omendoza@wmlylesco.com<mailto:omendoza@wmlylesco.com>>>

Sent: Tuesday, July 20, 2021 9:21 AM

To: Charles Reynolds

<Charles.W.Reynolds@mwhconstructors.com<>mailto:Charles.W.Reynolds@mwhconstructors.com>> Cc: Samantha Robbins <SRobbins@wmlylesco.com<mailto:SRobbins@wmlylesco.com>>; Boris Petkovic

<boris.petkovic@aquaeng.com<mailto:boris.petkovic@aquaeng.com>>

Subject: FW: PCI Change Order #001-Blower Pipe Insulation

CAUTION: This message originated externally, please use caution when clicking on links or opening attachments.

Charles,

With Mark-ups, the total cost is \$2,377.64. Let me know if you want to proceed. Thanks,

Oscar Mendoza | Project Manager W. M. LYLES CO. | Southern Division 42142 Roick Dr. | Temecula, CA 92590 O 951-973-7393 | C 619-565-6064

www.wmlyles.com<a href="https://nam04.safelinks.protection.outlook.com/?url=http%3A%2F%2Fwww.wmlyles.com%2F&data=04%7C01%7CCharles.W.Reynolds%40mwhconstructors.com%7Cb53980379d4146aaf96408d94bc86524%7C0a9582790c1d4685846ex8a8fd868442%7C0%7C0%7C637624146328907952%7CUnknown%7CTWFpbGZsb3d8eyJWljoiMC4wLjAwMDAiLCJQIjoiV2luMzliLCJBTii6lk1haWwiLCJXVCI6Mn0%3D%7C1000&sdata=mEU1e9LQ9WAJYpZUyagfPr1X4MMIWwCin6dw28jNxBw%3D&reserved=0>

From: Nick Naretta <Nick.Naretta@pcg.com<mailto:Nick.Naretta@pcg.com>>

Sent: Tuesday, July 20, 2021 9:05 AM

To: Oscar Mendoza <omendoza@wmlylesco.com<mailto:omendoza@wmlylesco.com>>

Cc: Steve Lintz <Steve.Lintz@pcg.com<mailto:Steve.Lintz@pcg.com>>

Subject: PCI Change Order #001-Blower Pipe Insulation

#### Oscar

See attached CO for the 6" blower piping. Let me know on this, if possible we'd like to just roll into this tomorrow so we don't need to have another mobilization.

Thanks,

Nicholas P. Naretta Performance Contracting, Inc. Performance Abatement Services, Inc. 4955 Landon Drive, Anahelm, CA 92807 C: (714) 328-0907

nick.naretta@pcg.com<a href="https://nam04.safelinks.protection.outlook.com/?url=http%3A%2F%2Fwww.pcg.com%2F&data=04%7C01%7CCharles.W.Reynolds%40mwhconstructors.com%7Cb53980379d4146aaf96408d94bc86524%7C0a9582790c1d4685846ea8a8fd868442%7C0%7C0%7C637624146328917946%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiVZluMzilLCJBTil6lk1haWwiLCJXVCl6Mn0%3D%7C1000&sdata=SnMeHtNgIVSJVmVNtht2WzCgHVcPX8pUn6Wcxfs4bYk%3D&reserved=0>



# City of Beaumont Wastewater Treatment Plant Salt Mitigation Upgrade Project

#### **Technical Justification:**

PCO-61	
Design Adjustment: WML COP-065 CLAR-47	Modification to MBR Chemical Feed Skids – Off-gas Air Vents & Piping

#### Reason for Design Changes:

Noise and excessive cavitation on the chemical piping associated with trapped air caused by chemical off-gassing has been observed in the chemical feed piping on both the NaOCL and Citric Acid discharge piping from the chemical dosing skids to the injection locations on the MBR production trains. To eliminate damage to the piping network caused by the air-cavitation the trapped air must be released.

#### Design and Scope Changes:

• The contractor shall per the design clarification attached provide all piping, air release devices, supports and installation labor required per CLAR-47 attached.

#### Cost Impact:

MWH has reviewed the attached WML cost proposal and find it acceptable. Accordingly, MWH recommends a contract cost increase of **\$7,844.55** to be executed in a change order per design change CLAR-47 attached.

#### CITY OF BEAUMONT WWTP SALT MITIGATION UPGRADE PROJECT

#### CHANGE ORDER PROPOSAL (COP) #065 (By Contractor)

To (Engineer/CM):	From (Contractor):							
MWH Constructors	W.M. Lyles Co.							
Attention: Charles Reynolds	Attention: Oscar Mendoza							
Phone: 702-497-8024	Phone: 619-565-6064							
Email: Charles.w.reynolds@stantec.com	Email: omendoza@wmlylesco.com							
PCO/DCM No.: CLAR 47								
<b>Subject:</b> Modifications to MBR Chemical Feed Skids								
Reference Documents: CLAR 47								
DESCR								
This proposal is to modify the existing MBR chemical skids per CLAR 47. In addition, the work under this scope is								
to be performed during the current contract time. It does n	ot include any extra overhead cost. Thanks,							
COST ES	TIMATE							
\$7,844.55. Please see attached breakdown								
• · · · ·								
200	E MADA CIT							
	SCHEDULE IMPACT							
None. It's assumed that this Proposal will be approved proposal time.	promptly and work will be performed within the current							
Received by MWH Constructors (Date):								

	RESPONSE	
Response By:		Date:

Final Distribution: Oscar Mendoza, W.M. Lyles Co. Brian Knoll, Webb Associates MWH Inspector

W. M. Lyles Co. 42142 Roick Drive Temecula, CA 92590

Date: 2-Sep-21

Reference #: CLAR 47

Attention: Charles W. Reynolds

JOB LOCATION: City of Beaumont WWTP Slat Mitigation Upgrade Project

DESCRIPTION: Modifications to MBR Chemcial Feed Skids

Item:		Unit	Total MH	Tota	al MH Cost	Eq.	Cost	Mat	erial	Sub	cont.	Total Cost	
1	Modifications to MBR Chemcial Feed Skids	LS	48	\$	3,896.27	\$	473.60	\$	2,383.94	\$	-	\$	6,753.81
2	-	LS	0	\$	-	\$	-	\$	-	\$	-	\$	-
3	-	LS	0	\$	-	\$	-	\$	-	\$	-	\$	-
4	-	LS	0	\$	-	\$	-	\$	-	\$	-	\$	-
5	-	LS	0	\$	-	\$	-	\$	-	\$	-	\$	-
6	-	LS	0	\$	-	\$	-	\$	-	\$	-	\$	-
Total (	Costs		48	\$	3.896.27	\$	473.60	\$	2.383.94	\$	-	\$	6.753.81

Total This Change Order		\$ 7,844.55
Bond	1.0%	\$ 77.67
Mark-up - Subcontractor	5%	\$ -
Mark-up - Materials	15%	\$ 357.59
Mark-up - Equipment	15%	\$ 71.04
Mark-up - Labor	15%	\$ 584.44
Subtotal		\$ 6,753.81

Comments:

#### City of Beaumont WWTP Slat Mitigation Upgrade Project Modifications to MBR Chemcial Feed Skids

#### A. Labor

Description	Lal	o Pipe	FM.	L	ab Pi <sub>l</sub>	ре	C	perat	or												
	ST	PT	DT	ST	PT	DT	ST	PT	DT	ST	PT	DT	ST	РТ	DT	ST	PT	DT	ST	PT	DT
Install CPVC Piping, Supports and Valves	16			32																	
	16	0	0	32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

			Rate			Hour	s	
Name		ST	PT	DT	ST	PT	DT	Extension
Lab Pipe FM		\$82.92	\$110.44	\$137.96	16	0	0	\$1,326.66
Lab Pipe		\$80.30	\$106.51	\$132.73	32	2 0	0	\$2,569.61
Operator		\$102.25	\$136.61	\$170.98	C	0	0	\$0.00
	0	\$0.00	\$0.00	\$0.00	C	0	0	\$0.00
	0	\$0.00	\$0.00	\$0.00	C	0	0	\$0.00
	0	\$0.00	\$0.00	\$0.00	C	0	0	\$0.00
	0	\$0.00	\$0.00	\$0.00	C	0	0	\$0.00
	0	\$0.00	\$0.00	\$0.00	C	0	0	\$0.00
	0	\$0.00	\$0.00	\$0.00	C	0	0	\$0.00

48 0 0

Total Labor = \$3,896.27

#### B. Equipment

Description	17.12	32.037	20.041	20.037	30.048	40.094	17.124
Install CPVC Piping, Supports and Valves	16						
	16	Λ	n	0	n	n	Λ

<u>Number</u>	<u>Description</u>	Rate	<u>Hours</u>	<u>Extension</u>
17.12	Foreman Truck	\$29.60	16	\$473.60
32.037	ReachliftXtremeXR1055	\$58.61	0	\$0.00
20.041	ExcavatorJohn Deere350GLC	\$151.12	0	\$0.00
20.037	Mini ExcavatorTakeuchiTB260	\$35.70	0	\$0.00
30.048	Loader Backhoe 410John Deere	\$64.30	0	\$0.00
40.094	Air CompressorIngersol Rand18	\$20.19	0	\$0.00
17	Foreman Truck	\$29.60	0	\$0.00
			16	

Total Equipment =

\$473.60

#### C. Materials

	Quantity	Unit	Price	<u> </u>	<u>Extension</u>
1/2" Accu-Vent - AV50	2	ea	\$	184.00	\$368.00
1/2" CPVC Vented Ball Valve	1	ea	\$	120.67	\$120.67
1/2" CPVC Ball Valve	1	ea	\$	78.44	\$78.44
1/2" CPVC Couplers	4	ea	\$	3.02	\$12.08
1/2" CPVC Elbows	10	ea	\$	2.86	\$28.60
1" CPVC Tee	2	ea	\$	8.37	\$16.74
1"x1/2" CPVC Bushing	2	ea	\$	15.55	\$31.10
1/2" CPVC Pipe	4	ea	\$	22.80	\$91.20
1" CPVC Pipe	1	ea	\$	45.80	\$45.80
FRP Strut	6	ea	\$	113.40	\$680.40
FRP Clamps	12	ea	\$	5.32	\$63.84
FRP brackets	24	ea	\$	21.15	\$507.60
Consumables	48	mhr	\$	3.50	\$168.00
Tax	7.750%				\$171.47
Freight					\$0.00
			Tota	l Material =	\$2,383.94

#### D. Subcontractor

	Total	Subcontract =	\$0.00
	_		\$0.00
			\$0.00
			\$0.00
Quantity	<u>Unit</u>	<u>Price</u>	<u>Extension</u>

	Q
Basket	Shopping cart Secure checkout Send ord
croll down to checkout.	Continue shopping
My cart	Products: US\$368.00
Accu-Vent US\$184.00 x 2 Calculate Model: AV-50-CPVC (US\$184.00)	×
	US\$368.00
Shipping details	Shipping: US\$0.00
Where and how do you want this delivered?	
United States	Show shipping methods

Total: US\$368.00

I accept the terms and conditions.

VISA Visa

Enter address and payment details on the next pages.

Mastercard

■ Secure checkout

You will be asked for your personal details on the next page

# CITY OF BEAUMONT WASTE WATER TREATMENT PLANT SALT MITIGATION UPGRADE PROJECT

#### **CLARIFICATION 47**

To (	<b>Construction</b>	Manager)	:	Stantec

Attention: Charles Reynolds Phone: 702-497-8024

Email: Charles.w.reynolds@stantec.com

From (Engineer): Aqua Engineering

Attention: Boris Petkovic Phone: 801-683-3734

Email: boris.petkovic@aquaeng.com

**Subject**: Modifications to MBR Chemical Feed Skids | **Location: MBR Building** 

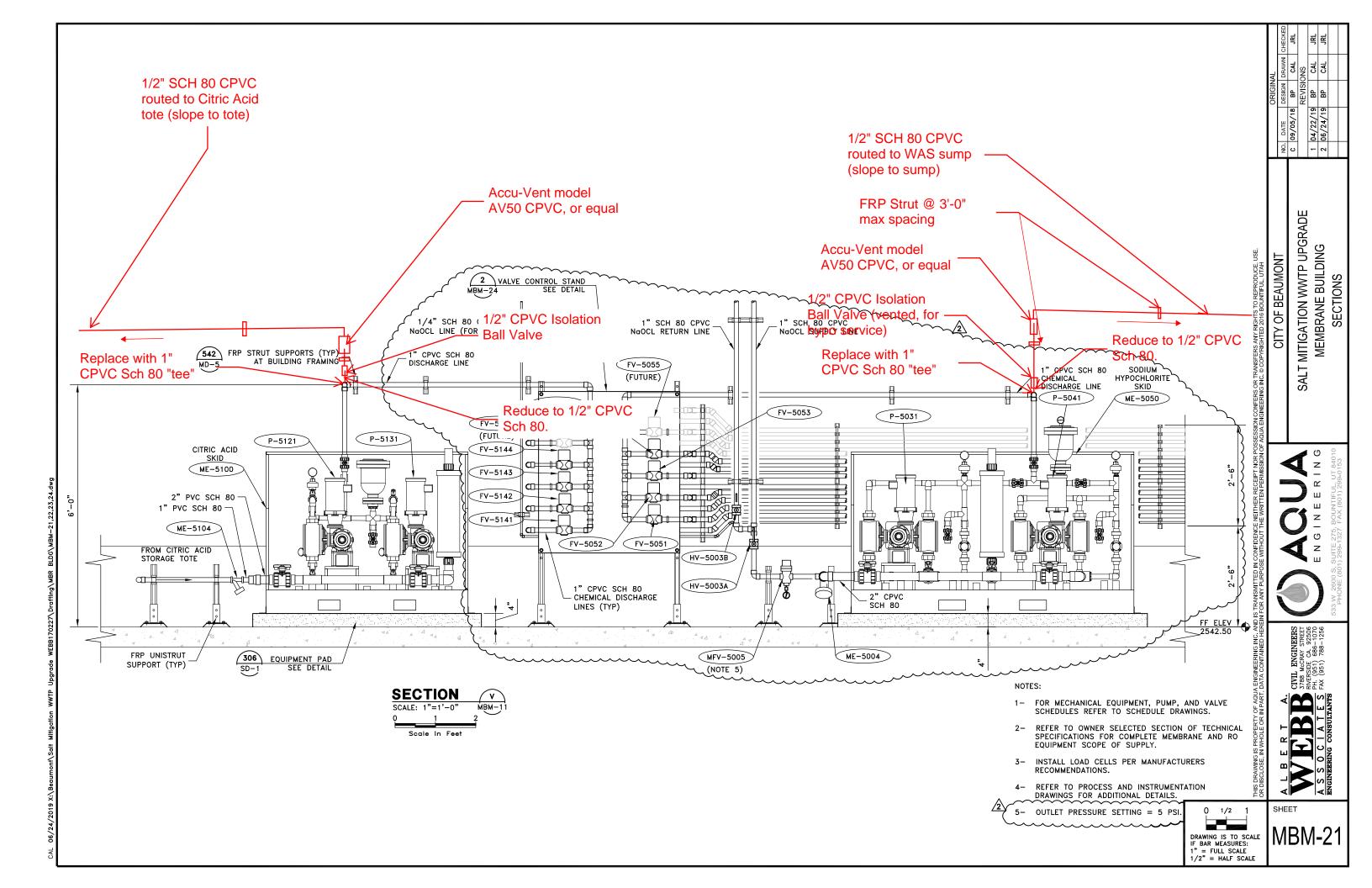
**Reference Documents**: Drawing Nos. MBM-21

#### **CLARIFICATION**

#### Note the following:

Noise, arguably associated with trapped air, has been intermittently observed in the chemical feed piping (both NaOCl and Citric Acid) associated with the MBR system. To minimize the potential to trap air in the discharge piping, automatic air release vents are proposed as shown in the attached drawing MBM-21.

Prepared By (Name):	Boris Petkovic	Date:	8/16/2021
Distributed By:		Date:	





# Accu-Vent Automatic Degassing Valve

### Standard Features

- CPVC (Corzan) corrosion resistant materials of construction
- Specially designed float material that automatically vents built up gases on system start up and under working pressure
- Can be used on feed side or discharge side of pump (or both)
- Standard CPVC and Stainless Steel 1/2", 3/4", and 1" NPT threaded connections, or optional socketweld
- **NEW!** Stainless Steel Accu-Vent with 1.5", or 2" connections, for chemical, temperature, and pressure applications
- NEW! Compact Accu-Vent with 1/4" connection

# **ACCU-VENT**

Automatic Degassing valves are designed to automatically vent gases and vapors that are commonly released from chemicals such as Sodium Hypochlorite, Sulfuric Acid, or Hydrogen Peroxide.

The standard valve assembly is constructed of CPVC (Corzan) for use specifically with Sodium Hypochlorite, Sulfuric Acid to 98% and Hydrogen Peroxide to 30% applications. Alternative options include our *Stainless Steel* model and our *compact Accu-Vent* with a 1/4" connection for those applications with confined spaces.

Available in other materials of construction for various gaseous liquid chemicals.



## **SPECIFICATIONS**

# Accu-Vent Automatic Degassing Valve

# Sizing and Ordering Information

Model	Material of Construction	<b>Bottom Connection</b>	Top Connection	Max. Temperature	Max. Pressure
AV-25-CPVC	CPVC	1/4" NPT or BSP Thread	1/4" Thread	180 F (82 C)	150 PSIG
AV-50-CPVC	CPVC	1/2" NPT or BSP Thread	1/2" Thread	180 F (82 C)	150 PSIG
AV-50-CPVC-S	CPVC	Socketweld	1/2" Thread	180 F (82 C)	150 PSIG
AV-75-CPVC	CPVC	3/4" NPT or BSP Thread	1/2" Thread	180 F (82 C)	150 PSIG
AV-75-CPVC-S	CPVC	Socketweld	1/2" Thread	180 F (82 C)	150 PSIG
AV-100-CPVC	CPVC	1" NPT or BSP Thread	1" Thread	180 F (82 C)	150 PSIG
AV-25-PVDF	PVDF	1/4" NPT or BSP Thread	1/4" Thread	180 F (82 C)	150 PSIG
AV-50-PVDF	PVDF	1/2" NPT or BSP Thread	1/2" Thread	180 F (82 C)	150 PSIG
AV-75-PVDF	PVDF	3/4" NPT or BSP Thread	3/4" Thread	180 F (82 C)	150 PSIG
AV-50-316S/S	316 S/S	1/2" NPT or BSP Thread	1" Thread	500 F (260 C)	250 PSIG
AV-75-316S/S	316 S/S	3/4" NPT or BSP Thread	1" Thread	500 F (260 C)	250 PSIG
AV-100-316S/S	316 S/S	1" NPT or BSP Thread	1" Thread	500 F (260 C)	250 PSIG
<b>NEW!</b> AV-150-316S/S	316 S/S	1.5" NPT or BSP Thread	1.5" Thread	500 F (260 C)	250 PSIG
<b>NEW!</b> AV-200-316S/S	316 S/S	2" NPT or BSP Thread	2" Thread	500 F (260 C)	250 PSIG

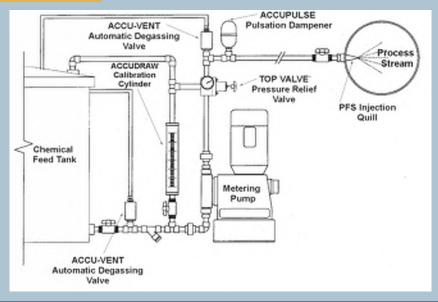
Other body materials available upon request. ( -25 indicates 1/4", -50 indicates 1/2", -75 indicates 3/4", -100 indicates 1", -150 indicates 1.5", -200 indicates 2", -B for BSP thread, and -S indicates socketweld)

### Why do you need Accu-Vent?

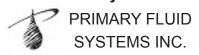
Gases and vapor are compressible, and if not vented, cause what is known as vapor lock in your metering pump and the system. This causes metering pump malfunction and in most cases, causes the pump to stop discharging chemical accurately to the system. Our automatic degassing valves are designed to automatically vent gases and vapors that are commonly released from Sodium Hypochlorite, Sulfuric Acid and Hydrogen Peroxide.

The valve is designed to allow for the venting of gases and condensed vapor back to the feed tank, which improves priming on initial start ups and continuous, trouble free operation while working under pressure. When in operation, the valve vents gases, vapor and a small amount of the chemical being pumped. This discharge must be returned through hard piping or tubing back to the tank, to prevent personnel or equipment from coming in contact with vented corrosive fluid.

# Typical Installation



#### **Distributed By:**



For more information on Accu-Vent and Call Toll Free 1-800-776-6580 our other products visit www.primaryfluid.com

Tel: (905) 333-8743 Fax: (905) 333-8746

E-Mail: primary@primaryfluid.com



# City of Beaumont Wastewater Treatment Plant Salt Mitigation Upgrade Project

#### **Technical Justification:**

PCO-62	
Design Adjustment:	
WML COP-066	UV System UVT Monitoring Required Connectivity Addition
CLAR-48	

#### Reason for Design Changes:

Previous change order to replace the existing UV equipment and structure included a new UVT monitoring device and transmitter. The HACH sc200 transmitter was later upgraded to a sc4200 transmitter which requires internet connectivity for online monitoring, programming, and calibration. To provide this connectivity additional control panel hardware and fiber optic cabling is required.

#### Design and Scope Changes:

- The contractor shall provide and install an industrial Ethernet Switch, Allen-Bradley Stratix 1783-US8TG2GX in the UV System Control Center. Connect 24VDC power to the switch to power it up. Install a fiber duplex LC single mode jumper between the switch and the fiber patch panel.
- Install a CAT6 shielded cable between the Stratix switch and the UVT transmitter.
- Install a fiber duplex LC single mode jumper between the City's switch in the Headworks Electrical Building and the patch panel to the UV System Control Center. The Owner will provide the SFP module that installs in the City's switch..

#### Cost Impact:

MWH has reviewed the attached WML cost proposal and find it acceptable. Accordingly, MWH recommends a contract cost increase of **\$689.33** to be executed in a change order per design change CLAR-48 attached.

#### CITY OF BEAUMONT WWTP SALT MITIGATION UPGRADE PROJECT

#### CHANGE ORDER PROPOSAL (COP) #066 (By Contractor)

To (Engineer/CM):	From (Contractor):
MWH Constructors	W.M. Lyles Co.
Attention: Charles Reynolds	Attention: Oscar Mendoza
Phone: 702-497-8024	Phone: 619-565-6064
Email: Charles.w.reynolds@stantec.com	Email: omendoza@wmlylesco.com
PCO/DCM No.: DCM 42	
Subject: UVT Transmitter Internet Service	
Reference Documents: N/A	
DESCR	IPTION
This Change Order Proposal is to provide internet connec	t for the new UVT Transmitter at the UV Splitter box per
CLAR 48.	
COST ES	TIMATE
\$689.33.	
SCHEDUL	E IMPACT
	mpletion date. WML will request a non-compensable time
extension of up to 2 weeks after change order approval to	procure, msian and commission.
Received by MWH Constructors (Date):	

	RESPONSE	
Response By:		Date:

Final Distribution: Samantha Robbins, W.M. Lyles Co. Brian Knoll, Webb Associates MWH Inspector

W. M. Lyles Co. 42142 Roick Drive Temecula, CA 92590

2142 Roick Drive Date: 23-Sep-21

Reference #: CLAR - 48

Attention: Charles W. Reynolds

JOB LOCATION: City of Beaumont WWTP Slat Mitigation Upgrade Project

DESCRIPTION: UVT Transmitter Internet Service

Item:		Unit	Total MH	Т	Total MH Cost	Eq. Cost		Material		Sub	cont.	Total Cost	
1	UVT Transmitter Internet Service	LS	0	) ;	\$ -	\$	-	\$	-	\$	650.00	\$	650.00
2	-	LS	0	) ;	\$ -	\$	-	\$	-	\$	-	\$	-
3	-	LS	0	) ;	\$ -	\$	-	\$	-	\$	-	\$	-
4	-	LS	0	) ;	\$ -	\$	-	\$	-	\$	-	\$	-
5	-	LS	0	) ;	\$ -	\$	-	\$	-	\$	-	\$	-
6	-	LS	0	) ;	\$ -	\$	-	\$	-	\$	-	\$	-
Total (	Costs		0	) :	\$ -	\$	_	\$	_	\$	650.00	\$	650.00

Subtotal		\$ 650.00
Mark-up - Labor	15%	\$ -
Mark-up - Equipment	15%	\$ -
Mark-up - Materials	15%	\$ -
Mark-up - Subcontractor	5%	\$ 32.50
Bond	1.0%	\$ 6.83
Total This Change Order		\$ 689.33

Comments:

La		

Description																					
	ST	PT	DT	ST	PT	DT	ST	PT	DT	ST	PT	DT	ST	PT	DT	ST	PT	DT	ST	PT	D'
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Poto	=		Lour				-			-									-		

	_		Rate		H	ours		
Name		ST	PT	DT	ST F	PT [	TC	Extension
	0	\$0.00	\$0.00	\$0.00	0	0	0	\$0.00
	0	\$0.00	\$0.00	\$0.00	0	0	0	\$0.00
	0	\$0.00	\$0.00	\$0.00	0	0	0	\$0.00
	0	\$0.00	\$0.00	\$0.00	0	0	0	\$0.00
	0	\$0.00	\$0.00	\$0.00	0	0	0	\$0.00
	0	\$0.00	\$0.00	\$0.00	0	0	0	\$0.00
	0	\$0.00	\$0.00	\$0.00	0	0	0	\$0.00
	0	\$0.00	\$0.00	\$0.00	0	0	0	\$0.00
	0	\$0.00	\$0.00	\$0.00	0	0	0	\$0.00
					0	0	0	

Total Labor = \$0.00

#### B. Equipment

Description	31.028	32.037	20.041	20.037	30.048	40.094	17.124
	0	0	0	0	0	0	0

31.028         Hydro Crane - 80 TonLink BeltR \$164.01         0         \$0.00           32.037         ReachliftXtremeXR1055         \$58.61         0         \$0.00           20.041         ExcavatorJohn Deere350GLC         \$151.12         0         \$0.00           20.037         Mini ExcavatorTakeuchiTB260         \$35.70         0         \$0.00           30.048         Loader Backhoe 410John Deere         \$64.30         0         \$0.00           40.094         Air CompressorIngersol Rand18         \$20.19         0         \$0.00           17         Foreman Truck         \$29.60         0         \$0.00	Number	Description	Rate	Hours	EXIGNSION
20.041         ExcavatorJohn Deere350GLC         \$151.12         0         \$0.00           20.037         Mini ExcavatorTakeuchiTB260         \$35.70         0         \$0.00           30.048         Loader Backhoe 410John Deere         \$64.30         0         \$0.00           40.094         Air CompressorIngersol Rand18         \$20.19         0         \$0.00	31.028	Hydro Crane - 80 TonLink BeltR	\$164.01	0	\$0.00
20.037         Mini ExcavatorTakeuchiTB260         \$35.70         0         \$0.00           30.048         Loader Backhoe 410John Deere         \$64.30         0         \$0.00           40.094         Air CompressorIngersol Rand18         \$20.19         0         \$0.00	32.037	ReachliftXtremeXR1055	\$58.61	0	\$0.00
30.048         Loader Backhoe 410John Deere         \$64.30         0         \$0.00           40.094         Air CompressorIngersol Rand18         \$20.19         0         \$0.00	20.041	ExcavatorJohn Deere350GLC	\$151.12	0	\$0.00
40.094 Air CompressorIngersol Rand18 \$20.19 0 \$0.00	20.037	Mini ExcavatorTakeuchiTB260	\$35.70	0	\$0.00
, ,	30.048	Loader Backhoe 410John Deere	\$64.30	0	\$0.00
17 Foreman Truck \$29.60 0 \$0.00	40.094	Air CompressorIngersol Rand18	\$20.19	0	\$0.00
	17	Foreman Truck	\$29.60	0	\$0.00
				0	

Total Equipment = \$0.00

#### C. Materials

	Quantity Unit Price	Extension
		\$0.00
		\$0.00
		\$0.00
		\$0.00
		\$0.00
		\$0.00
		\$0.00
		\$0.00
Tax	7.750%	\$0.00
Freight		\$0.00
	Total Materia	I = \$0.00

D. Subcontractor	Quantity	Unit	Price	Extension
Southern	1	LS	\$650.00	\$650.00
	1	LS	\$0.00	\$0.00
	1	LS	\$0.00	\$0.00
	1	LS	\$0.00	\$0.00
	1	LS	\$0.00	\$0.00
	1	LS	\$0.00	\$0.00
				\$0.00
				\$0.00
		_		\$0.00
		Total	Subcontract -	6650.00

Total Subcontract = \$650.00

# CITY OF BEAUMONT WASTE WATER TREATMENT PLANT SALT MITIGATION UPGRADE PROJECT

#### **CLARIFICATION 48**

To (Construction Manager): MWH Constructors

Attention: Charles Reynolds Phone: 702-497-8024

Email: Charles.w.reynolds@mwhconstructors.com

From (Engineer): SKM Engineering

Attention: Mark Jeppsen Phone: 801-677-0011

Email: mark.jeppsen@skmeng.com

Subject: UVT Transmitter Internet Service Location: UV Trains, Headworks Electrical Building

#### **Reference Documents:**

#### **CLARIFICATION**

#### Note the following:

The new UVT transmitter is a Hach SC4200 and it requires an Internet Connection. To accomplish this, the Contractor shall do the following:

- Install an industrial Ethernet Switch, Allen-Bradley Stratix 1783-US8TG2GX in the UV System Control Center. Connect 24VDC power to the switch to power it up. Install a fiber duplex LC single mode jumper between the switch and the fiber patch panel.
- Install a CAT6 shielded cable between the Stratix switch and the UVT transmitter.
- Install a fiber duplex LC single mode jumper between the City's switch in the Headworks Electrical Building and the patch panel to the UV System Control Center. The Owner will provide the SFP module that installs in the City's switch.

	Prepared By (Name):	Mark Jeppsen, SKM	Date: September 14, 2021
Ī	Distributed By:		Date:

# CITY OF BEAUMONT WASTE WATER TREATMENT PLANT SALT MITIGATION UPGRADE PROJECT

#### **CLARIFICATION 48**

To (Construction Manager): MWH Constructors

Attention: Charles Reynolds Phone: 702-497-8024

Email: Charles.w.reynolds@mwhconstructors.com

From (Engineer): SKM Engineering

Attention: Mark Jeppsen Phone: 801-677-0011

Email: mark.jeppsen@skmeng.com

Subject: UVT Transmitter Internet Service Location: UV Trains, Headworks Electrical Building

#### **Reference Documents:**

#### **CLARIFICATION**

#### Note the following:

The new UVT transmitter is a Hach SC4200 and it requires an Internet Connection. To accomplish this, the Contractor shall do the following:

- Install an industrial Ethernet Switch, Allen-Bradley Stratix 1783-US8TG2GX in the UV System Control Center. Connect 24VDC power to the switch to power it up. Install a fiber duplex LC single mode jumper between the switch and the fiber patch panel.
- Install a CAT6 shielded cable between the Stratix switch and the UVT transmitter.
- Install a fiber duplex LC single mode jumper between the City's switch in the Headworks Electrical Building and the patch panel to the UV System Control Center. The Owner will provide the SFP module that installs in the City's switch.

	Prepared By (Name):	Mark Jeppsen, SKM	Date: September 14, 2021
Ī	Distributed By:		Date: