



# City of Beaumont

## Wastewater Treatment Plant Salt Mitigation Upgrade Project

### Change Order No. 19

March 18, 2020

<b>Contractor:</b>	W.M. Lyles Co.	<b>Original Contract:</b>	\$ 53,312,000.00	820	1/26/2021
<b>Project Name:</b>	Wastewater Treatment Plant Salt Mitigation Upgrade Project	<b>Previous Approved Changes:</b>	\$4,171,594.50	186	5/30/2021
<b>Contract No.:</b>	C18-80	<b>This Change: Amount NTE</b>	<b>\$95,556.60</b>	<b>0</b>	
<b>CO Number:</b>	19	<b>Revised Contract:</b>	\$57,579,151.10	1006	<b>7/31/2021</b>
		<b>Previous Phase 1 Completion Date</b>			5/20/2020
		<b>Revised Phase 1 Completion Date</b>			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	43	Aeration Basin 1 thru 4 MOV Extension Risers	\$11,028.75	0	0
2	44	Aeration Basin Network Switch for HACH Instruments	\$14,093.21	0	0
3	45	Fine Screens – Addition of a High-Level Alarm Switch	\$11,639.14	0	0
4	46	MBR – Addition of MOV Actuator on the Influent Gates	\$58,795.50	0	0
<b>NET CHANGE IN CONTRACT AMOUNT – INCREASE (OR-DECREASE) NTE</b>			<b>\$95,556.60</b>	<b>0</b>	<b>0</b>

\*Calendar Days

The amount of the Contract will be increased/decreased by Ninety-Five Thousand, Five Hundred Fifty-six dollars and sixty cents (\$95,556.60). The Contract Time will be increased by zero (0) 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:** , **Date:** 3-18-2021  
 MWH Constructors, Senior Resident Engineer

**Accepted:** , **Date:** 3.23.21  
 W.M. Lyles Co., Contractor

**Approved:** Brian P. Knoll, **Date:** 3/23/21  
Digitally signed by Brian P. Knoll  
 DN: C=US, E=brian.knoll@webbassociates.com,  
 O=Albert A. Webb Associates, OU=Vice  
 President, CN=Brian P. Knoll  
 Date: 2021.03.23 13:01:49-0700  
 Albert A. Webb Associates, Program Manager

**Approved:** \_\_\_\_\_, **Date:** \_\_\_\_\_  
 City of Beaumont, City Manager



# City of Beaumont Wastewater Treatment Plant Salt Mitigation Upgrade Project

## Technical Justification:

PCO-43	
Design Adjustment: WML COP-048	Aeration Basin 1 thru 4 MOV Extension Riser Addition
<p><u>Reason for Design Changes:</u></p> <p>Safe Access required change. Each of the four aeration basins has a motor operated valve that control air flow to the aerobic zones in the basins. The valve controller is located directly on the valve and air piping manifold within the basins above approximately 18-feet of concentrated mixed liquor wastewater, MLSS, creating a potential safety and difficult maintenance or repair hazard. Staff or a repair technician would be required to lie in a prone position or crawl outside of safety railing on to piping to adjust or repair valve equipment.</p> <p><u>Design and Scope Changes:</u></p> <ul style="list-style-type: none"><li>• Add a 48-inch valve extension stem and elevate valve controller to a height suitable for human interaction.</li><li>• Contractor shall also include all necessary labor for conduit, wiring and termination adjustments to disconnect and reconnect the valve controller at its new location.</li><li>• Cost proposal shall include all necessary costs for labor and miscellaneous materials to perform this change. Contractor shall not perform any work until change has been approved by the City.</li></ul> <p><u>Cost Impact:</u></p> <p>MWHC has reviewed the attached WML cost proposal and find it acceptable. Accordingly, MWHC recommends a contract cost increase of \$11,028.75 to be executed in a change order for the modifications requested.</p>	

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

**CHANGE ORDER PROPOSAL (COP) # 048  
(By Contractor)**

<b>To (Engineer/CM):</b> MWH Constructors Attention: Charles Reynolds Phone: 702-497-8024 Email: Charles.w.reynolds@stantec.com	<b>From (Contractor):</b> W.M. Lyles Co. Attention: Oscar Mendoza Phone: 619-565-6064 Email: omendoza@wmlylesco.com
<b>PCO/DCM No.:</b> N/A	
<b>Subject:</b> A-Basin Air Line MOV Actuator Relocation	
<b>Reference Documents:</b> Attached	
<b>DESCRIPTION</b>	
This COP is for the installation of 4ea MOV Actuation stem extensions on the air lines in order to provide better access to actuator's main electrical components per the attached MWH Field Observation dated February 26 <sup>th</sup> , 2020.	
<b>COST ESTIMATE</b>	
Total Cost : \$ 11,028.75 – see attached breakdown	
<b>SCHEDULE IMPACT</b>	
<b>Received by MWH Constructors (Date):</b>	

**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

Reference #: N/A

Attention: Charles W. Reynolds

City of Beaumont WWTP Salt Mitigation Upgrade Project

DESCRIPTION: A-Basin Air Line MOV Actuator Relocation

Item:		Unit	Total MH	Total MH Cost	Eq. Cost	Material	Subcont.	Total Cost
1	A-Basin Air Line MOV Actuator Relocation	1 LS	24	\$ 1,994.61	\$ 1,548.88	\$ 5,495.25	\$ 500.00	\$ 9,538.74
2		1 LS	0	\$ -	\$ -	\$ -	\$ -	\$ -
3		1 LS	0	\$ -	\$ -	\$ -	\$ -	\$ -
		1 LS	0	\$ -	\$ -	\$ -	\$ -	\$ -
Total Costs			24	\$ 1,994.61	\$ 1,548.88	\$ 5,495.25	\$ 500.00	\$ 9,538.74

Subtotal		\$	9,538.74
Mark-up - Labor	15%	\$	299.19
Mark-up - Equipment	15%	\$	232.33
Mark-up - Materials	15%	\$	824.29
Mark-up - Subcontractor	5%	\$	25.00
Bond	1.0%	\$	109.20
<b>Total This Change Order</b>		<b>\$</b>	<b>11,028.75</b>

Comments:

**City of Beaumont WWTP Salt Mitigation Upgrade Project**

**A-Basin Air Line MOV Actuator Relocation**

**A. Labor**

Description	Lab Pipe FM			Lab Pipe			Operator			Carp FM			Carp			Lab			Cement Mason			
	ST	PT	DT	ST	PT	DT	ST	PT	DT	ST	PT	DT	ST	PT	DT	ST	PT	DT	ST	PT	DT	
Install 48" MOV extension and reconnect	8			8			8															
	8	0	0	8	0	0	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Name	Rate			Hours			Extension	
	ST	PT	DT	ST	PT	DT		
Lab Pipe FM	\$77.80		\$103.90	\$129.98	8	0	0	\$622.43
Lab Pipe	\$75.19		\$99.97	\$124.75	8	0	0	\$601.51
Operator	\$96.33		\$128.99	\$161.66	8	0	0	\$770.67
Carp FM	\$85.03		\$115.33	\$145.63	0	0	0	\$0.00
Carp	\$81.11		\$109.45	\$137.79	0	0	0	\$0.00
Lab	\$71.72		\$94.78	\$117.82	0	0	0	\$0.00
Cement Mason	\$78.05		\$102.25	\$126.45	0	0	0	\$0.00
					24	0	0	
					<b>Total Labor =</b>			<b>\$1,994.61</b>

**B. Equipment**

Description	17.12	32.037	31.028	30.048	20.041	35.064	Rent
Install 48" MOV extension and reconnect	8		8				
	8	0	8	0	0	0	0

Number	Description	Rate	Hours	Extension	
17.12	Foreman Truck	\$29.60	8	\$236.80	
32.037	Reachlift Xtreme XR1055	\$58.61	0	\$0.00	
31.028	Hydro Crane - 80 Ton Link Belt RTC-8080 II 80 Ton	\$164.01	8	\$1,312.08	
30.048	Loader Backhoe 410 John Deere 410L	\$64.30	0	\$0.00	
20.041	Excavator John Deere 350GLC	\$151.12	0	\$0.00	
35.064	Loader John Deere 644J	\$123.00	0	\$0.00	
17	Foreman Truck	\$29.60	0	\$0.00	
20.041	Excavator John Deere 350GLC	\$151.12	0	\$0.00	
35.064	Loader John Deere 644J	\$123.00	0	\$0.00	
Rent	Owner Op dump trucks	\$100.00	0	\$0.00	
			16		
			<b>Total Equipment =</b>		<b>\$1,548.88</b>

**C. Materials**

	Quantity	Unit	Price	Extension	
SS Flanged Valve Stem Extension - 48"	4	ea	\$ 1,275.00	\$5,100.00	
				\$0.00	
				\$0.00	
Tax	7.750%			\$395.25	
			Subtotal	\$5,495.25	
			<b>Total Material =</b>		<b>\$5,495.25</b>

**D. Subcontractor**

	Quantity	Unit	Price	Extension	
Southern	1	LS	\$500.00	\$500.00	
				\$0.00	
			<b>Total Subcontract =</b>		<b>\$500.00</b>



**Bray Sales Southern  
California**

**Quote QQ-1274615-01**

Date 11/17/2020

**Company** W M Lyles - Temecula  
**Name** Oscar Mendoza  
**Email** omendoza@wmlylesco.com  
**Phone** +1 951 973-7393

**Sales Rep** Gary Figueroa  
**Email** gary.figueroa@bray.com  
**Phone** +1-951-640-6384

**Quote Ref** A-Basin MOV actuator location Issue

**Prepared By** Gary Figueroa  
**Email** gary.figueroa@bray.com  
**Phone** +1 909 937 1624,2402

Line No	Product Details	Qty	Unit Price	Line Total	Delivery
1	<b>Part Number 120480-22101534</b> Stainless steel flanged valve stem extension to raise the existing Auma SQR12.2 actuators mounted on 12" Bray Series #40 HPBFV. Extension to be constructed from a S/S flanged outer housing with a stainless steel inner shaft that will be mounted between the valve bracket and bottom of the Auma actuator. Overall extension length to be advised, the proposed price is for extensions up to 48".	4	\$1,275.00	\$5,100.00	3-4 Week(s)
<b>Total Price: ( USD )</b>				<b>\$5,100.00</b>	

**Terms Notes**

All deliveries subject to prior sales  
Seller's acceptance of this Order is expressly limited to, and expressly conditional on, Buyer's  
Acceptance of Seller's standard terms and conditions attached and available at  
<https://www.bray.com/sales-terms-and-conditions>. Seller objects to any different or additional terms.

## BRAY INTERNATIONAL TERMS AND CONDITIONS OF SALE

**1. APPLICABILITY.** These terms and conditions of sale (these "Terms") are the only terms which govern the sale of the products ("Products") by Bray International, Inc. and its subsidiaries, branches and divisions (as applicable, "Bray" or "Seller") to a purchaser of Products ("Buyer") from Bray. Notwithstanding anything herein to the contrary, if a written contract signed by Bray and a Buyer covers the sale of Products covered hereby, the terms and conditions of such contract shall prevail to the extent they are inconsistent with these Terms.

References to (i) "Bray factory" are to the applicable Bray national or regional headquarters of Seller in the country where the order is received and (ii) "dollars" or "\$" are to United States dollars unless specified otherwise.

**2. ENTIRE AGREEMENT.** These Terms and the quotation (the "Quotation") which they accompany (collectively, the "Agreement") comprise the entire agreement between Bray and Buyer relating to the Products that are the subject of such Quotation, and supersede all prior or contemporaneous understandings, agreements, negotiations, representations and warranties and communications, both written and oral. These Terms prevail over any of Buyer's general terms and conditions of purchase regardless of whether or when Buyer submitted its purchase order or such terms. Buyer's acceptance of the Quotation is expressly limited to these Terms, and Bray objects to, and is not bound by, any terms or conditions that differ from, add to, or modify these Terms. Fulfillment of Buyer's order does not constitute acceptance of any of Buyer's terms and conditions and does not serve to modify or amend these Terms. Notwithstanding anything to the contrary in these Terms or any Agreement, Bray shall not be obligated to make, or otherwise fulfill the terms of, any sale of Products to Buyer in an order amount less than Two Hundred and Fifty Dollars (\$250).

**3. QUOTATIONS.** Unless stated otherwise in writing by Seller, all Quotations made by Seller are for immediate acceptance. Seller reserves the right to withdraw and/or revise any Quotation at any time prior to final acceptance by Buyer.

**4. PRICE.** Buyer shall purchase the Products from Seller at the prices (the "Prices") set forth in Seller's published price list in force as of the date Buyer's order is received by Bray. All Prices (and any applicable discounts) for Products are subject to change without notice. Any order that is delayed for delivery at Buyer's request or is otherwise scheduled to be made in excess of one hundred twenty (120) days from the order date will be invoiced at published list prices and discounts effective at the time of shipment unless otherwise specifically agreed at the time of Seller's order acceptance. Any extra expenses incurred by Seller, such as engineering, tagging, taxes, service calls, export crating or other expenses, will be added to the invoice after notification to Buyer of the extra costs.

**5. TAXES.** Prices are exclusive of all sales, use and

excise taxes, and any other similar taxes, duties, fees and charges of any kind imposed by any governmental authority (including those arising from changes in laws or regulations affecting foreign exchange) on any amounts payable by Buyer. Buyer shall be responsible for all such charges, costs and taxes, and if payable or paid by Seller, then added to the Price.

### 6. PAYMENT TERMS.

**A.** All invoices for domestic (U.S.) Buyers will be due net thirty (30) days from date of invoice unless otherwise stated by Seller. All invoices for international (non-U.S.) Buyers will require confirmed, irrevocable letters of credit due upon delivery to freight forwarder at its United States port for shipment, unless otherwise agreed by Seller. Seller reserves the right (including if it determines subsequently that Buyer's financial condition becomes unsatisfactory to Seller) to (i) require payment on "cash in advance" basis, (ii) require a confirmed, irrevocable letter of credit or other acceptable security (including preservation of any lien rights) before shipment, or (iii) cancel shipment at any time prior to delivery of the Products (without further obligation or liability on Seller's part). In such cases, an order will be considered valid only upon receipt of any such advance payment or provision of security. Credit terms are provided solely at the discretion of Seller and may be denied for any reason by Seller.

**B.** Buyer shall pay interest on all late payments at the lesser of: (i) the rate of two percent (2%) per month and (ii) the highest rate permissible under applicable law. Buyer shall reimburse Seller for all costs incurred in collecting any late payments, including, without limitation, attorney fees and court costs. In addition to all other remedies available under these Terms or at law (which are not waived by Seller's exercise of any rights hereunder), Seller shall be entitled to suspend the delivery of any Products if Buyer fails to pay any amounts when due hereunder.

**C.** Buyer shall not withhold or delay payment of any amounts due and payable by reason of any set-off of any claim, counterclaim, abatement, delay of customer payment or dispute with Seller, whether relating to Seller's breach, bankruptcy or otherwise.

**7. CREDIT.** Shipments and deliveries of Products to Buyer shall remain at all times subject to the approval of Seller's credit department. Seller, in addition to any other rights and remedies, may, at its option, decline to make shipments or deliveries hereunder except upon receipt of payment or satisfactory security or otherwise upon terms and conditions satisfactory to Seller. Should Seller elect to extend credit to Buyer, Seller may limit or deny further extensions of credit in Seller's sole discretion. Any extension of open payment terms by Seller is dependent on Buyer's ongoing ability to support its working capital requirements for its business.



## 8. DELIVERY.

A. The Products will be delivered within a reasonable time after the receipt of Buyer's order. Delivery dates are approximate and are dependent upon prompt receipt of all necessary Buyer-furnished information and materials (if applicable). Penalty fees/liquidated damages that may be associated with any late delivery will not apply unless mutually agreed in writing at the time of order acknowledgement.

B. Unless otherwise agreed in writing by the parties, Seller shall make the Products available at the Bray factory (the "Delivery Point"). The title to and risk of loss for Products passes to Buyer upon signing of the bill of lading by the transportation company (which signifies the delivery of the Products to the transportation company for shipment to Buyer). Buyer shall be responsible for all loading costs and provide equipment and labor reasonably suited for receipt of the Products at the Delivery Point.

C. All Prices are quoted ExWorks (EXW) Bray factory or such other place that Seller shall designate on the Quotation. Seller does not insure shipments beyond the Delivery Point and, therefore, all claims of lost or damaged Products in transit must be filed directly with the transportation company by Buyer. Seller shall select the method of shipment and the carrier for the Products. Seller may ship via the Buyer's choice if routing is satisfactory and rates equal to or less than Seller's normal choice. In the case of higher than normal special shipping requirements, Seller will ship the Products at Buyer's expense (including a handling fee or collect basis) and Buyer will not receive any credit for freight charges that under normal circumstances would be incurred by Seller. There may be only one destination per order.

D. Bray's standard document package will be provided—please see associated Quotation for details on what is included in document package for associated Product(s); document package will be delivered via electronic delivery (additional charges may apply if hard copy is required).

E. If for any reason Buyer fails to accept delivery of Products on the date fixed pursuant to Seller's notice to Buyer that the Products are being made available for delivery at the Delivery Point: (i) risk of loss to the Products shall pass to Buyer, (ii) the Products shall be deemed to have been delivered and accepted by Buyer and (iii) Seller, at its option, may store the Products until Buyer picks them up, whereupon Buyer shall be liable for all related costs and expenses (including, without limitation, storage and insurance). Any failure of Buyer to provide appropriate instructions, documents, licenses or authorizations in connection with delivery of Products shall be deemed to be a failure of Buyer to accept delivery of Products at such time as such Products

are otherwise available for delivery. Any orders held by Seller more than thirty (30) days may be treated as a cancelled and the Products deemed returned.

## 9. INSPECTION AND REJECTION OF NONCONFORMING PRODUCTS.

A. Buyer shall inspect the Products within ten (10) days of receipt ("Inspection Period"). Buyer will be deemed to have accepted the Products unless it notifies Seller in writing of any Nonconforming Products during the Inspection Period and furnishes such written evidence or other documentation as reasonably required by Seller. "Nonconforming Products" means that the Products shipped are different than those identified in Buyer's purchase order.

B. If Buyer timely notifies Seller of any Nonconforming Products during the Inspection Period, Seller shall, in its sole discretion, (i) replace such Nonconforming Products with conforming Products, or (ii) credit or refund the Price for such Nonconforming Products, together with any reasonable shipping and handling expenses incurred by Buyer in connection therewith. Buyer shall ship, at its expense and risk of loss, the Nonconforming Products to the Bray factory or such other place that Seller shall designate on the Quotation. Upon Seller's confirmation of the nonconforming nature of the Nonconforming Products, Seller shall credit the Buyer's expense for such shipment against the Buyer's payment obligations to Seller. If Seller exercises its option to replace such Nonconforming Products, Seller shall, after receiving Buyer's shipment of returned Nonconforming Products, ship to Buyer the replaced Products and the terms of [Section 8\(B\)](#) shall apply for such replaced Products, except that Seller shall be responsible for the costs and expenses for such shipment.

C. Buyer acknowledges and agrees that the remedies set forth in [Section 9\(B\)](#) (exercised in accordance with these Terms) are Buyer's exclusive remedies for the delivery of Nonconforming Products.

## 10. CHANGE ORDER / CANCELLATIONS.

Orders received and accepted by Seller may not be changed or cancelled except on terms satisfactory to Seller and which prevent Seller from incurring any loss. Seller will not accept changes or cancellations of Products, whether standard, non-standard or special, without full reimbursement of all related expenses incurred to date. Buyer must request all cancellations and change orders in writing, and must be signed by an authorized representative of Seller to be effective. Any changes or cancellations of Projects will be subject to appropriate changes in discounts, freight costs and other charges to Buyer.

## II. LIMITED WARRANTY.

A. Seller warrants to Buyer that, for a period of thirty-six (36) months from the date of Bray's shipment (the "Warranty Period") from its manufacturing facility, Products manufactured by Seller will be free from defects in materials and workmanship when used for the purposes for which they were designed and manufactured. Seller does not warrant the Products against chemical or stress corrosion or against any other failure (including normal wear and tear due to operation or the environment) other than from defects in materials or workmanship.

**B. THE EXPRESS WARRANTY SET FORTH IN SECTION 1.11(A) IS EXCLUSIVE AND IN LIEU OF ANY AND ALL OTHER WARRANTIES, EXPRESS OR IMPLIED. NO WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE IS INTENDED OR GIVEN.**

C. Products manufactured by a third party ("Third Party Product") may constitute, contain, be contained in, incorporated into, attached to or packaged together with, the Products. Third Party Products are not covered by the warranty in [Section 11\(A\)](#). For the avoidance of doubt, SELLER MAKES NO REPRESENTATIONS OR WARRANTIES WITH RESPECT TO ANY THIRD PARTY PRODUCT.

D. The Seller shall not be liable for a breach of the warranty set forth in [Section 11\(A\)](#) unless: (i) Buyer gives written notice to Seller of the defect during the Warranty Period and, in any event, within fourteen (14) days of the time when Buyer discovers or ought to have discovered the defect; (ii) Seller is given a reasonable opportunity after receiving the notice to examine such Products and Buyer (if requested to do so by Seller) returns such Products to Bray's factory or such other place that Seller shall designate on the Quotation for the examination to take place there; (iii) Products are stored, maintained and shipped in accordance with Seller's applicable guidelines therefor (available to Buyer in product information available at <https://www.bray.com/resources/documents/manuals-guides?page=1>, please contact [productspec@bray.com](mailto:productspec@bray.com) with any questions concerning the guidelines) and (iv) Seller reasonably verifies Buyer's claim that the Products are defective. Buyer shall return (freight prepaid) the defective Product to Bray at Bray's factory or such other place that Seller shall designate on the Quotation no later than ninety (90) days of Buyer's initial written notice to Seller of the defect. Upon Seller's confirmation of Products in breach of the warranty provided under [Section 11\(A\)](#), Seller shall credit the Buyer's expense for shipment against the Buyer's payment obligations to Seller and, if Seller exercises its option to replace such defective Products, Seller shall ship to Buyer the replaced Products and the terms of [Section 8\(B\)](#) shall apply for such replaced Products, except that Seller shall be responsible for the costs and expenses for such

shipment. Seller shall not be obligated for any on-site costs, including removal and reinstallation of any warranted Products. Upon request, Buyer shall provide Seller reasonable and clear access to the warranted Products.

E. The Seller shall not be liable for a breach of the warranty set forth in [Section 11\(A\)](#) if: (i) Buyer makes any further use of such Products after giving such notice; (ii) the defect arises because Buyer failed to follow Seller's oral or written instructions as to the storage, installation, commissioning, use or maintenance of the Products; or (iii) Buyer alters or repairs such Products without the prior written consent of Seller.

F. Subject to [Section 11\(D\)](#) and [Section 11\(E\)](#) above, with respect to any such Products during the Warranty Period, Seller shall, in its sole discretion, either: (i) repair or replace such Products (or the defective part) or (ii) credit or refund the price of such Products at the pro rata contract rate provided that, if Seller so requests, Buyer shall, at Seller's expense, return such Products to Seller. **THE REMEDIES SET FORTH IN THIS SECTION 11(F) SHALL BE THE BUYER'S SOLE AND EXCLUSIVE REMEDY AND SELLER'S SOLE AND ENTIRE LIABILITY FOR ANY BREACH OF THE LIMITED WARRANTY SET FORTH IN SECTION 11(A).**

## 12. LIMITATION OF LIABILITY.

A. IN NO EVENT SHALL SELLER BE LIABLE FOR ANY CONSEQUENTIAL, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY OR PUNITIVE DAMAGES, LOST PROFITS OR REVENUES OR DIMINUTION IN VALUE, ARISING OUT OF OR RELATING TO ANY BREACH OF THESE TERMS, WHETHER OR NOT THE POSSIBILITY OF SUCH DAMAGES HAS BEEN DISCLOSED IN ADVANCE BY BUYER OR COULD HAVE BEEN REASONABLY FORESEEN BY BUYER, REGARDLESS OF THE LEGAL OR EQUITABLE THEORY (CONTRACT, TORT OR OTHERWISE) UPON WHICH THE CLAIM IS BASED, AND NOTWITHSTANDING THE FAILURE OF ANY AGREED OR OTHER REMEDY OF ITS ESSENTIAL PURPOSE. No action, regardless of form, may be brought by Buyer more than one (1) year after the cause of action has accrued.

B. IN NO EVENT SHALL SELLER'S AGGREGATE LIABILITY ARISING OUT OF OR RELATED TO ANY PRODUCT, WHETHER ARISING OUT OF OR RELATED TO BREACH OF CONTRACT, TORT (INCLUDING NEGLIGENCE) OR OTHERWISE, EXCEED THE TOTAL OF THE AMOUNTS PAID TO SELLER FOR SUCH PRODUCT.

**13. AUTHORIZED RETURNS.** All sales of Products to Buyer are made on a one-way basis and no Products may be returned without prior written approval from Seller. Generally, in addition to the requirement for prior written approval, Bray will accept returns from a Buyer only if the return request is timely made following shipment of the applicable Product(s) to Buyer and the Product(s) are in good, reusable condition and remain standard Bray products (*i.e.*, not custom-made, obsolete or buyout products). In regard to any returns, Seller generally issues credit (from which Seller may deduct shipping, restocking and reconditioning expenses).

**14. INTELLECTUAL PROPERTY RIGHTS.** All copyrights, patents, trademarks, trade secrets, know-how and other intellectual property or proprietary rights pursuant to the laws of any jurisdiction worldwide ("IP Rights") associated with or relating to the Products shall belong solely and exclusively to Seller. Seller will retain all IP Rights used to create, embodied in, used in and otherwise relating to the Products and any of their component parts, and Buyer shall not acquire any ownership interest in any of Seller's IP Rights. Buyer shall use Seller's IP Rights only in accordance with these Terms and any instructions of Seller. No license, either express or implied, is granted in any IP Rights of Seller. If Buyer acquires any IP Rights in or relating to any Product by operation of law or otherwise, such rights are deemed and are hereby irrevocably assigned to Seller without further action. Buyer shall, at Seller's expense, execute such documents and do such things as are necessary to enable Seller to protect its IP Rights.

**15. DESIGN CHANGES.** Seller reserves the right to change, discontinue or alter the design and construction of Products without prior notice and without further obligation.

**16. COMPLIANCE WITH LAW.** Buyer shall comply with all applicable laws, regulations and ordinances, and shall maintain in effect all the licenses, permissions, authorizations, consents and permits that it needs to carry out its obligations under the Agreement. Upon Seller request, Buyer agrees to provide Seller with information about the end use (including location of) of any products purchased. In furtherance of the foregoing (and without limitation thereto), please note the following in regards to compliance:

**A. Trade Compliance.** Buyer must comply with all laws governing export/import control and regulation, including, without limitation, laws governing re-exporting. If Buyer is obtaining Product(s) for resale, such compliance requires that Buyer know of the end-use, end-user, ultimate destination or other facts relating to such sale of Product(s), and be alerted to "red flags" in the circumstances related to such sale. Buyer is obligated to comply with Bray's trade compliance program in regards to any sale and purchase of Product(s). Buyer should contact Bray to confirm compliance with the requirements of this program.

**B. Anti-Corruption Laws.** Buyer must comply with all anti-corruption and bribery laws and regulations,

including, without limitation the United Kingdom's Bribery Act of 2010 and the United States' Foreign Corrupt Practices Act. Buyer must not pay, offer or promise to pay, directly or indirectly, anything of value for purposes of influencing an official decision or seeking influence in regards to any such decision from a person or organization affiliated with any government body, organization or business entity owned in part or in whole by a government body. Buyer must contact Bray in regards to any transaction in respect of Product(s) provided under this Agreement that could implicate such laws. Bray may immediately terminate, without any liability, any sale, agreement or association with any person violating such laws.

**17. TERMINATION.** In addition to any remedies that may be provided under the Agreement, Seller may terminate the Agreement with immediate effect upon written notice to Buyer, if Buyer: (i) fails to pay any amount when due; (ii) has not otherwise performed or complied with any of the terms of the Agreement, in whole or in part; or (iii) becomes insolvent, files a petition for bankruptcy or commences or has commenced against it proceedings relating to bankruptcy, receivership, reorganization or assignment for the benefit of creditors.

**18. WAIVER.** No waiver by Seller of any of the provisions of these Terms or the Agreement is effective unless explicitly set forth in writing and signed by Seller. No failure to exercise, or delay in exercising, any rights, remedy, power or privilege arising from the Agreement operates or may be construed as a waiver thereof. No single or partial exercise of any right, remedy, power or privilege hereunder precludes any other or further exercise thereof or the exercise of any other right, remedy, power or privilege.

**19. CONFIDENTIAL INFORMATION.** All Confidential Information (as defined below) of Seller disclosed by Seller to Buyer, whether disclosed orally or disclosed or accessed in written, electronic or other form or media, and whether or not marked, designated or otherwise identified as "confidential," in connection with these Terms or the Agreement is confidential, solely for the use of performing this Agreement and may not be disclosed or copied unless authorized in advance by Seller in writing. Upon Seller's request, Buyer shall promptly return all Confidential Information received from Seller. Seller shall be entitled to injunctive relief for any violation of this Section. For purposes of this Agreement, "Confidential Information" means all non-public, confidential or proprietary information of Seller including, but not limited to, business affairs, business plans, trade secrets, intellectual property, specifications, samples, patterns, designs, client information, customer information, supplier information, technical data, developments, properties, systems, procedures, services, processes, methods, drawings, know-how, equipment, development plans, documents, manuals, strategies, training materials, costs, pricing, discounts or rebates, inventions, discoveries or any other confidential matters acquired in respect of the Seller or

the Products.

**20. FORCE MAJEURE.** Neither Seller nor Buyer shall be in breach of contract nor liable to the other party for any delay or damages if prevented from performance of these Terms and the Agreement (other than the payment of money) by any condition of force majeure which is beyond the control and not caused by the negligence of the party so affected ("**Force Majeure**"). Force Majeure includes, but shall not be limited to, earthquakes, floods, hurricanes, named tropical storms, lightning strikes, ice storms, blizzards, icebergs, pack ice, air and sea disasters, explosions and fire, epidemics, acts of God, acts of public enemy, war, terrorism, national emergency, invasion, insurrection, riot, strike, lockout, blockade or other industrial disputes, any laws, rules, regulations, orders, directives or requirements of or interference by any government or government agency (including any thereof or any affecting foreign exchange or otherwise making the terms of sale materially impractical on the basis of the economics relating to the agreed sale price or of illegality), inability or delay in obtaining supplies of adequate or suitable materials, power outage or other circumstances not within the control of the party and which, by the exercise of reasonable diligence, the party is unable to prevent or remedy, whether similar or dissimilar, foreseen or unforeseen. Seller shall have such additional time as may be reasonably necessary to perform its obligations upon the occurrence of any Force Majeure event.

**21. ASSIGNMENT.** Buyer shall not assign any of its rights or delegate any of its obligations under this Agreement without the prior written consent of Seller. Any purported assignment or delegation in violation of this Section is null and void. No assignment or delegation relieves Buyer of any of its obligations under this Agreement.

**22. AMENDMENT AND MODIFICATION.** These Terms may only be amended or modified in a writing which specifically states that it amends these Terms and is signed by an authorized representative of each of Seller and Buyer.

**23. RELATIONSHIP OF THE PARTIES.** The relationship between the parties is that of independent contractors. Nothing contained in these Terms or the Agreement shall be construed as creating any agency, partnership, joint venture or other form of joint enterprise, employment or fiduciary relationship between Seller and Buyer, and neither party shall have authority to contract for or bind the other party in any manner whatsoever.

**24. NO THIRD-PARTY BENEFICIARIES.** These Terms and the Agreement are for the sole benefit of the Seller and Buyer and their respective successors and permitted assigns, and nothing herein, express or implied, is intended to or shall confer upon any other person or entity any legal or equitable right, benefit or remedy of any nature whatsoever under or by reason of these Terms.

**25. GOVERNING LAW / JURISDICTION / JURY WAIVER.** THESE TERMS, THE AGREEMENT AND THE RELATIONS BETWEEN THE PARTIES SHALL BE GOVERNED BY THE PROCEDURAL AND SUBSTANTIVE LAWS OF THE STATE OF TEXAS, EXCLUSIVE OF CONFLICT OF LAWS PRINCIPLES WHICH WOULD DIRECT THE APPLICATION OF THE SUBSTANTIVE OR PROCEDURAL LAW OF ANOTHER JURISDICTION. IN THE EVENT TEXAS LAW IS RULED OR ORDERED TO NOT APPLY TO ANY DISPUTE BETWEEN THE PARTIES, THEN FOR PURPOSES OF THAT DISPUTE THESE TERMS, THE AGREEMENT AND THE RELATIONS BETWEEN THE PARTIES SHALL BE GOVERNED BY THE LAWS OF THE JURISDICTION IN WHICH BRAY'S FACTORY APPLICABLE TO THE SALE IS LOCATED, EXCLUSIVE OF CONFLICT OF LAWS PRINCIPLES WHICH WOULD DIRECT THE APPLICATION OF THE SUBSTANTIVE OR PROCEDURAL LAW OF ANOTHER JURISDICTION.

IF BRAY'S FACTORY APPLICABLE TO THE SALE IS LOCATED IN ANY STATE, TERRITORY, OR DISTRICT OF THE UNITED STATES OF AMERICA, EACH PARTY: (A) IRREVOCABLY SUBMITS TO THE JURISDICTION AND VENUE OF THE COURTS LOCATED IN HARRIS COUNTY, TEXAS FOR THE RESOLUTION OF ANY AND ALL DISPUTES ARISING FROM OR RELATING TO THESE TERMS, THE AGREEMENT AND THE RELATIONS BETWEEN THE PARTIES; AND (B) KNOWINGLY AND VOLUNTARILY WAIVES ALL RIGHTS TO A JURY TRIAL IN ANY LEGAL PROCEEDING RELATING TO THESE TERMS, THE AGREEMENT AND THE RELATIONS BETWEEN THE PARTIES.

IF BRAY'S FACTORY APPLICABLE TO THE SALE IS NOT LOCATED IN ANY STATE, TERRITORY, OR DISTRICT OF THE UNITED STATES OF AMERICA, EACH PARTY AGREES ALL DISPUTES ARISING OUT OF OR IN CONNECTION WITH THIS AGREEMENT OR THE ORDER(S) SHALL BE FINALLY SETTLED, SUBJECT TO THE DEFENSES ALLOWED BY APPLICABLE LAW, UNDER THE RULES OF ARBITRATION OF THE INTERNATIONAL CHAMBER OF COMMERCE BY A SINGLE ARBITRATOR APPOINTED IN ACCORDANCE WITH THE SAID RULES. THE ARBITRATION SHALL BE CONDUCTED IN ENGLISH WITHIN THE LIMITS OF THE CITY OF HOUSTON, TEXAS. THE ARBITRATOR MUST MEET EACH OF THE FOLLOWING QUALIFICATIONS IN ORDER TO BE APPOINTED: (1) BE A GRADUATE OF A LAW SCHOOL LOCATED IN THE UNITED STATES; (2) HAVE MORE THAN TWENTY YEARS OF EXPERIENCE IN LITIGATING AND/OR ARBITRATING COMPLEX COMMERCIAL DISPUTES; (3) BE LICENSED TO PRACTICE LAW IN THE STATE OF TEXAS; AND (4) BE IMPARTIAL. THE ARBITRATOR WILL HAVE THE AUTHORITY TO APPORTION LIABILITY BETWEEN THE PARTIES, BUT WILL NOT HAVE THE AUTHORITY TO AWARD ANY

DAMAGES OR REMEDIES NOT AVAILABLE UNDER, OR IN EXCESS OF, THE EXPRESS TERMS OF THESE TERMS OR THE AGREEMENT. THE ARBITRATION AWARD WILL BE PRESENTED TO THE PARTIES IN WRITING, AND UPON THE REQUEST OF EITHER PARTY, WILL INCLUDE FINDINGS OF FACT AND CONCLUSIONS OF LAW. THE AWARD MAY BE CONFIRMED AND ENFORCED IN ANY COURT OF COMPETENT JURISDICTION. BUYER AND SUPPLIER HEREBY CONSENT AND SUBMIT TO THE AFOREMENTIONED ARBITRATION AND THE JURISDICTION OF ANY LOCAL, STATE OR FEDERAL COURT LOCATED WITHIN HOUSTON, TEXAS, AS JURISDICTION FOR REVIEW OR CHALLENGE OF THE ARBITRATION RESULTS AND WAIVE ANY RIGHT SUCH PARTY MAY HAVE TO TRANSFER THE VENUE TO ANY OTHER JURISDICTION. THE PARTIES EXPRESSLY RESERVE ALL RIGHTS TO PURSUE INJUNCTIVE RELIEF IN ANY COURT LOCATED IN HOUSTON, TEXAS. THE PARTIES ACKNOWLEDGE AND AGREE THAT THIS AGREEMENT INCLUDES ACTIVITIES IN INTERSTATE COMMERCE (AND, ACCORDINGLY, THE FEDERAL ARBITRATION ACT OF THE UNITED STATES SHALL CONTROL AND APPLY TO ALL ARBITRATIONS CONDUCTED HEREUNDER, NOTWITHSTANDING ANY STATE LAW PROVISIONS TO THE CONTRARY).

**26. NOTICES.** All notices, request, consents, claims, demands, waivers and other communications hereunder (each, a "Notice") shall be in writing and addressed to the parties at the addresses set forth on the face of the Quotation or to such other address that may be designated by the receiving party in writing. All Notices shall be delivered by personal delivery, nationally recognized overnight courier (with all fees pre-paid), facsimile (with confirmation of transmission), email or certified or registered mail (in each case, return receipt requested, postage prepaid). Except as otherwise provided in the Agreement, a Notice is effective only (i) upon receipt of the receiving party (and confirmation of such receipt in respect of facsimile or email transmissions), and (ii) if the party giving the Notice has complied with the requirements of this Section.

**27. SEVERABILITY.** If any of these Terms or other terms or provision of the Agreement are determined to be invalid, illegal or unenforceable in any jurisdiction, such invalidity, illegality or unenforceability shall not affect any other term or provision or invalidate or render unenforceable such term or provision in any other jurisdiction.

**28. CLERICAL ERRORS.** Seller reserves the right to correct all stenographic or clerical errors or omissions in any documents (whether Quotations, invoices or other documents).

**29. SURVIVAL.** Any provision of the Agreement that by its nature should apply after any termination or expiration of the Agreement, including (but not limited to) the following provisions: Compliance with Laws, Confidentiality, Governing Law / Jurisdiction and Survival, shall survive any

such termination or expiration.

**30. PUBLISHED DATA.** All published dimensions, weights, temperatures, pressure ratings and other Product data are approximate.

#### **CANCELLATION, CHANGE ORDERS AND RETURNED GOODS POLICY ADDENDUM**

As guidance and further clarification on the applicable terms and conditions relating to change orders or cancellations, Bray will accept changes and cancellations generally subject to Buyer agreement to pay all costs and expenses incurred by Bray for the order, including, without limitation, costs and expenses relating to engineering, financing costs (including those for any performance or warranty obligations), restocking, order administration, supplies, freight, duties and inspection. For standard product, Bray will generally apply a twenty-five percent (25%) cancellation fee unless such amount is not sufficient to recapture Bray's fees and expenses (e.g., financing costs, freight, duties, etc.) relating to the order. For non standard products (i.e., product with unique feature(s) or specifically designed for the applicable purchase), the cancellation charge will usually be the purchase price of the product(s). For any such agreed cancellation or change, Bray will calculate the specific amount of such costs and expenses incurred to the date of such cancellation or change and advise Buyer of the applicable amount owed. For any standard product returns, exceptional costs such as freight, duties and financing costs will be added to any standard cancellation fee. For any non standard product returns, the cancellation charge will additionally include amounts incurred in connection with the return.

**Specific terms and conditions relating to the foregoing and the events and circumstances relating to the novel coronavirus COVID-19:** Bray will agree to delay the delivery of orders beyond a previously agreed delivery date as long as the Buyer pays an additional storage fee of five percent (5%) relating to such applicable order(s); *provided, however,* that the applicable order(s) must nevertheless be shipped and invoiced by no later than ninety (90) days after the previously agreed delivery date or the applicable order(s) will be deemed canceled and the cancellation charge (as outlined above) therefor shall be charged.

**Technical Justification:**

PCO-44	
Design Adjustment: WML COP-050 CLAR-38	Aeration Basin - Network Switches for HACH Instruments
<p><u>Reason for Design Changes:</u></p> <p>Network Reliability Improvement for critical process analyzers. Liquid process analyzer transmitters were upgraded in a previous approved and executed design change. The initial intent was for the HACH sc4200 transmitters to access the network via wireless connectivity. With the spotty Wi-Fi access and occasional signal loss due to long distances it now necessary to hardwire the devices to the network via CAT6 cabling. The cost to install field data switches and cabling for aeration basins 1 &amp; 2 has been covered by the equipment vendor, HACH. The cost for basins 3 &amp; 4 now in construction, includes additional conduit and cabling has been requested in Design Clarification-38.</p> <p><u>Design and Scope Changes:</u></p> <ul style="list-style-type: none"> <li>• Provide conduit and wire to connect the following AIT's 2151, 2152, 2251, 2252, 2351, 2352, 2451, 2452, 2111, 2211, 2311, 2411 to the 18-port data comm switches located in Pull Box JB-2111 and JB-2311.</li> <li>• NOTE: the installation shall vary from the design issued in CLAR-038 sense data switches provided by transmitter supplier HACH were sized to accommodate transmitters that are to be installed in basins 3 &amp; 4.</li> <li>• Cost proposal shall include all necessary costs for labor and miscellaneous materials to perform this change. Contractor shall not perform any work until change has been approved by the City.</li> </ul> <p><u>Cost Impact:</u></p> <p>MWH and Network design engineer, SKM, has reviewed the attached WML cost proposal and find it acceptable. Accordingly, MWHC recommends a contract cost increase of \$14,093.21 to be executed in a change order for the modifications requested.</p>	

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

**CHANGE ORDER PROPOSAL (COP) # 050  
(By Contractor)**

<b>To (Engineer/CM):</b> MWH Constructors Attention: Charles Reynolds Phone: 702-497-8024 Email: Charles.w.reynolds@stantec.com	<b>From (Contractor):</b> W.M. Lyles Co. Attention: Oscar Mendoza Phone: 619-565-6064 Email: omendoza@wmlylesco.com
<b>PCO/DCM No.:</b> CLAR-38, DCM-32	
<b>Subject:</b> Network Switches for HACH Instruments	
<b>Reference Documents:</b> Attached	
<b>DESCRIPTION</b>	
This COP is to provide conduit and wire as directed on CLAR 38.	
<b>COST ESTIMATE</b>	
Total Cost : \$ 14,093.21 – see attached breakdown	
<b>SCHEDULE IMPACT</b>	
<b>Received by MWH Constructors (Date):</b>	

**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

1/27/2021

Reference #: CLAR-38, DCM-32

Attention: Charles W. Reynolds

City of Beaumont WWTP Salt Mitigation Upgrade Project

DESCRIPTION: Network Switches for HACH Instruments

Item:		Unit	Total MH	Total MH Cost	Eq. Cost	Material	Subcont.	Total Cost
1	Network Switches for HACH Instruments	1 LS	0	\$ -	\$ -	\$ -	\$ 13,289.21	\$ 13,289.21
2		1 LS	0	\$ -	\$ -	\$ -	\$ -	\$ -
3		1 LS	0	\$ -	\$ -	\$ -	\$ -	\$ -
		1 LS	0	\$ -	\$ -	\$ -	\$ -	\$ -
Total Costs			0	\$ -	\$ -	\$ -	\$ 13,289.21	\$ 13,289.21

Subtotal		\$	13,289.21
Mark-up - Labor	15%	\$	-
Mark-up - Equipment	15%	\$	-
Mark-up - Materials	15%	\$	-
Mark-up - Subcontractor	5%	\$	664.46
Bond	1.0%	\$	139.54
<b>Total This Change Order</b>		<b>\$</b>	<b>14,093.21</b>

Comments:

**City of Beaumont WWTP Salt Mitigation Upgrade Project**

**Network Switches for HACH Instruments**

###

**A. Labor**

Description	Lab Pipe FM			Lab Pipe			Operator			Carp FM			Carp			Lab			Cement Mason					
	ST	PT	DT	ST	PT	DT	ST	PT	DT	ST	PT	DT	ST	PT	DT	ST	PT	DT	ST	PT	DT			
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Name	Rate			Hours			Extension
	ST	PT	DT	ST	PT	DT	
Lab Pipe FM	\$80.34		\$107.19	\$134.03	0	0	\$0.00
Lab Pipe	\$77.73		\$103.27	\$128.79	0	0	\$0.00
Operator	\$98.67		\$131.84	\$165.00	0	0	\$0.00
Carp FM	\$87.32		\$117.91	\$148.48	0	0	\$0.00
Carp	\$83.44		\$112.07	\$140.71	0	0	\$0.00
Lab	\$74.26		\$98.07	\$121.86	0	0	\$0.00
Cement Mason	\$80.42		\$105.60	\$130.78	0	0	\$0.00
				0	0	0	
<b>Total Labor =</b>							<b>\$0.00</b>

**B. Equipment**

Description	17.12	32.037	31.028	30.048	20.041	35.064	Rent
	0	0	0	0	0	0	0

Number	Description	Rate	Hours	Extension
17.12	Foreman Truck	\$29.60	0	\$0.00
32.037	ReachliftXtremeXR1055	\$58.61	0	\$0.00
31.028	Hydro Crane - 80 TonLink BeltRTC-8080 II 80 Ton	\$164.01	0	\$0.00
30.048	Loader Backhoe 410John Deere410L	\$64.30	0	\$0.00
20.041	ExcavatorJohn Deere350GLC	\$151.12	0	\$0.00
35.064	LoaderJohn Deere644J	\$123.00	0	\$0.00
17	Foreman Truck	\$29.60	0	\$0.00
20.041	ExcavatorJohn Deere350GLC	\$151.12	0	\$0.00
35.064	LoaderJohn Deere644J	\$123.00	0	\$0.00
Rent	Owner Op dump trucks	\$100.00	0	\$0.00
			0	
<b>Total Equipment =</b>				<b>\$0.00</b>

**C. Materials**

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

**D. Subcontractor**

	Quantity	Unit Price	Extension
Southern Contracting	1	LS \$13,289.21	\$13,289.21
<b>Total Subcontract =</b>			<b>\$13,289.21</b>



Southern Contracting Company  
P.O. Box 445 San Marcos, CA 92079-0445  
Tel 760-744-0760 Fax 760-744-6475  
website: www.southerncontracting.com  
email: info@southerncontracting.com

## Change Order Request

**103801 — Wastewater Treatment Plant Salt Mitigation Upgrade**

**COR Subject: COR#028 CLAR-038 Hach Changes phase 2**

**To** Juan C. Ahumada  
W.M. Lyles  
42142 Roick Drive  
Temecula, CA 92590  
951-973-7393

**Contract No:** 55.1173  
**COR Number:** 103801-COR#028  
**COR Revision Number:** 0  
**COR Date:** 1/7/2021  
**Work Type:** Price / Do Not Proceed  
**Other Reference No:** CLAR-038  
**Days Valid:** 5

**Return To** Dan Alcantar  
Southern Contracting Company  
760-744-0760x621  
619-778-0681  
DAlcantar@southerncontracting.com

### Scope Of Work / Time Extension Request

The work associated with CLAR-038 phase 2 Hach Changes is a change to Southern Contracting Company's scope of work in which a change in Contract Price and Time is to be considered.

Accordingly, Southern Contracting Company requests a Contract Change Order in the amount of \$13,289.21

Scope of Work is as follows:

- provide conduit and wire to connect the following AIT's 2151, 2152, 2251, 2252, 2351, 2352, 2451, 2452, 2111, 2211, 2311, 2411 to the 18 port data comm switches located in Pull Box JB-2111 and JB-2311.

NOTE: this installation varies from the design issued in CLAR-038 and we have included a rough sketch on NI-04A showing the differences. Actual red line as built will be provided as part of the project record drawing.

Exclusions: Set up of network, Programming, Installation of inline instrumentation, Overtime.

Change in time: 5 days

Southern Contracting reserves all rights to additional costs and time for changes not identified in the documents furnished, and is not responsible for additional costs or time for work which is not part of our contract scope of work, unless stipulated above. Should additional information or clarification be required, please contact me at your convenience.

### Summary

**Total: \$13,289.21**

**Reservation of Rights**

This COR does not include any amount for impacts such as interference, disruptions, rescheduling, changes in the sequence of work, delays and/or associated acceleration. We expressly reserve the right to submit our request for any of these items.

---

Signed By:



Daniel Alcantar

PM

Dated: 1/7/2021

### Bid Summary Report

103801 Beaumont Chang Orders Estimator: Dan Alcantar

Job #2336

**Job Name:** 103801 Beaumont Chang Orders

**Contractor:**

**Estimator:** Dan Alcantar

**Notes:**

**Bid Date:**

Summary Description	Material			Labor		
	Extended	%	Adjusted	Extended	%	Adjusted
COR#028 CLAR-038 Hach Comm phase 2	\$3,196.30	100.00%	\$3,196.30	81.19	100.00%	81.19

**Top Sheet**

Raw Cost	\$11,340.44	Sales per Month	\$0.00
Tax	\$247.71	Return per Month	\$0.00
Raw Cost with Tax	\$11,588.15	Price per Square Foot	\$0.00
Overhead	\$1,701.07	Hours per Square Foot	0.00
Profit	\$0.00	Square Feet	0.00
Total Return Amount	\$1,701.07	Job Months	0.00
Total Return %	12.80%	Hours per Week	0.00
Price	\$13,289.21	Workers per Day	0.00
Bond	\$0.00	Total Hours	81.19
Sell Price	<b>\$13,289.21</b>	Markup Sales Tax (Overhead)	No
Adjusted Sell ()	\$0.00	Markup Sales Tax (Profit)	No
Adjusted Sell Return 0.00 %	\$0.00	Use Bond Table	No

**Labor**

Class Description	Percent of Total	Hours Distributed	Hourly Rate	Burden		Labor Cost
				Rate	Percent	
General Foreman	12.00%	9.74	\$99.49	\$0.00	0.00%	\$969.34
Journeyman	88.00%	71.45	\$85.51	\$0.00	0.00%	\$6,109.60
<b>Totals</b>	100.00%	81.19	\$87.19	\$0.00	0.00%	\$7,078.94

**Mark Ups**

	OVERHEAD			PROFIT		
	Total	%	Amount	%	Amount	
Materials	\$3,196.30	+ 15.00%	\$3,675.74	+ 0.00%	\$3,675.74	
Labor	\$7,078.94	+ 15.00%	\$8,140.78	+ 0.00%	\$8,140.78	
Supplier Quotes	\$0.00	+ 15.00%	\$0.00	+ 0.00%	\$0.00	
SubContractors	\$0.00	+ 5.00%	\$0.00	+ 0.00%	\$0.00	

### Bid Summary Report

103801 Beaumont Chang Orders Estimator: Dan Alcantar

Job #2336

Direct Job Expense	\$1,065.20	+	15.00%	\$1,224.98	+	0.00%	\$1,224.98
Equipment Rental	\$0.00	+	15.00%	\$0.00	+	0.00%	\$0.00
<b>Totals</b>	<b>\$11,340.44</b>		<b>15.00%</b>	<b>\$13,041.50</b>		<b>0.00%</b>	<b>\$13,041.50</b>

Tax Report	Taxed Amount	Tax Rate %	Tax Amount
Materials	\$3,196.30	7.75%	\$247.71
Labor	\$7,078.94	0.00%	\$0.00
Supplier Quotes	\$0.00	0.00%	\$0.00
SubContractors	\$0.00	0.00%	\$0.00
Direct Job Expense	\$0.00	0.00%	\$0.00
Equipment Rental	\$0.00	0.00%	\$0.00
		<b>Total Tax:</b>	<b>\$247.71</b>

Direct Job Expense					
Name	Supplier	Tax (0.0 %)	Unit Cost	Multiplier	Amount
FM Truck		No	\$26.63	40.00	\$1,065.20
				<b>Total:</b>	<b>\$1,065.20</b>

Job Name: 103801 Beaumont Chang Orders

Job Number: 2336

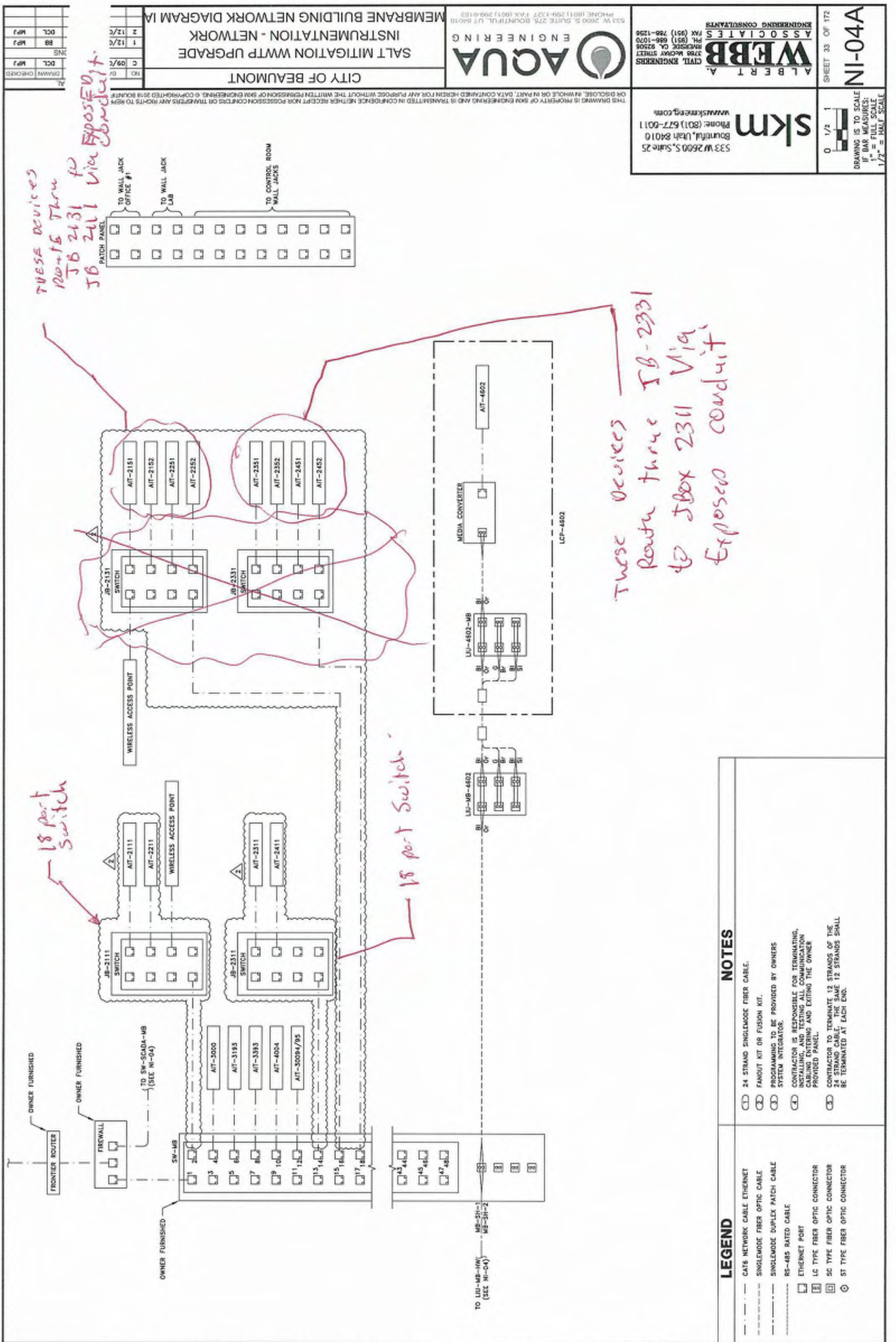
Extension Name: COR#028 CLAR-038 Hach Comm phase 2

Material Filter: <None>

Report: COR - 2

[Items and ByProducts]

Item #	Item Name	Quantity	Unit Price	U	Ext Price	Unit Labor	U	Ext Labor
Label Set: Combined, Combined, Combined, Combined, Combined								
Cost Code: 010 - Conduit/Raceway								
2,615	1/4" SS WEDGE ANCHOR	20.00	\$230.00	C	\$46.00	20.10	C	37.68
2,675	1 5/8 STRUT-STAINLESS	12.00	\$1,187.50	C	\$142.50	18.84	C	4.02
2,702	1 GRC/PVC COATED	150.00	\$614.33	C	\$921.49	12.56	C	2.26
2,731	1 GRC/PVC ELBOW	4.00	\$2,017.25	C	\$80.69	81.64	C	18.84
2,808	1 GRC/PVC HUB	4.00	\$51.43	E	\$205.74	62.80	C	3.27
3,015	1 GRC/PVC CLAMP BAK	20.00	\$1,515.15	C	\$303.03	7.54	C	2.51
3,043	1 GRC/PVC CLAMP	20.00	\$9.65	E	\$193.05	26.38	C	1.51
Cost Code: 020 - Wire/Cable								
749	CAT6E CABLE	1,200.00	\$950.00	M	\$1,140.00	3.14	C	5.28
750	CAT6 TERMINATION	18.00	\$6.60	E	\$118.80	0.31	E	43.51
60,050	Wire Tags Tube Style	18.00	\$250.00	C	\$45.00	1.00	C	37.68
<b>[Items and ByProducts] Total:</b>					<b>\$3,196.30</b>			<b>81.19</b>



AT	DRAWN CHECKED	WPL	DCL
NHS		WPL	BB
		WPL	DCL

NO	DI	NO	DI
C	09/1	1	12/6
Z	12/6	2	12/6

CITY OF BEAUMONT  
 SALT MITIGATION WTP UPGRADE  
 INSTRUMENTATION - NETWORK  
 MEMBRANE BUILDING NETWORK DIAGRAM I.A.

**AQUA ENGINEERING**  
 533 W. 2600 S. SUITE 275, BOUNTIFUL, UT 84010  
 PHONE: (801) 299-1227 FAX: (801) 299-4303

**ALBERT A. WEBB ASSOCIATES**  
 CIVIL ENGINEERS  
 3788 MCKAY STREET  
 RIVERSIDE, CA 92506  
 PH: (951) 686-1070  
 FAX: (951) 788-1296

**skm**  
 533 W 2600 S, Suite 25  
 Bountiful, Utah 84010  
 Phone: (801) 677-6011  
 www.skmeng.com

SHEET 33 OF 172  
**NI-04A**

0 1/2 1  
 DRAWING IS TO SCALE  
 IF BAR MEASURES:  
 1" = FULL SCALE  
 1/2" = HALF SCALE

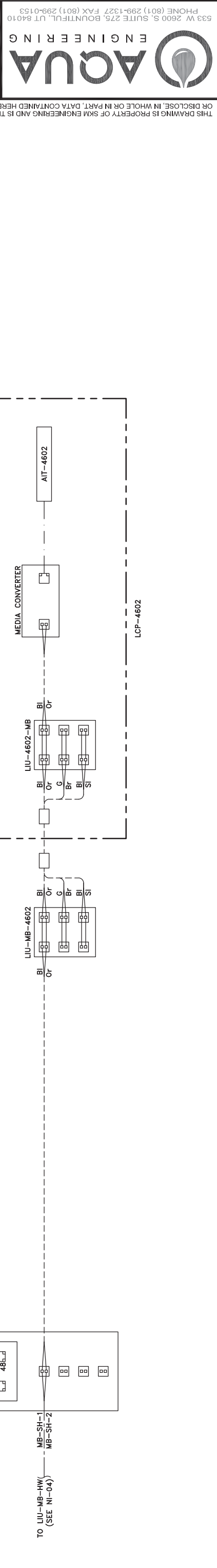
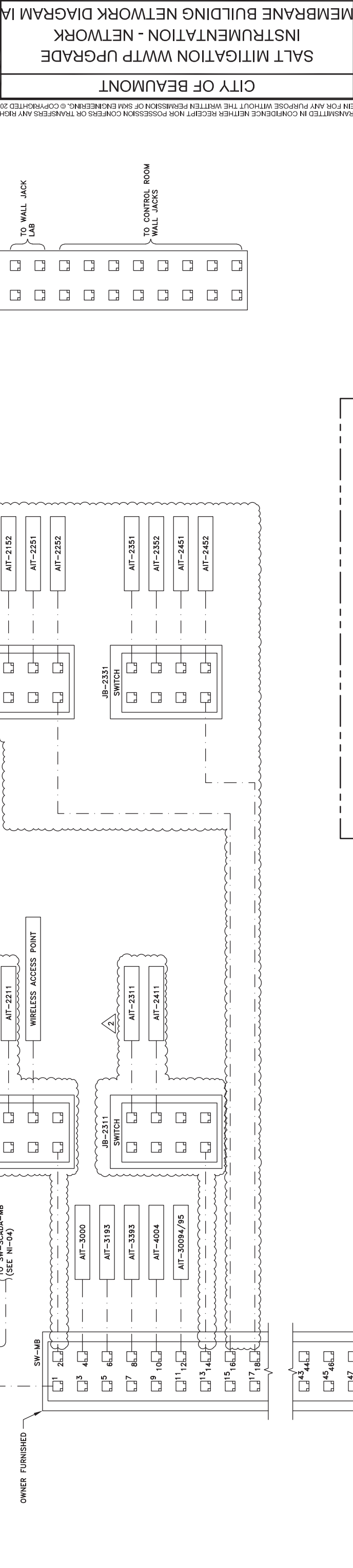
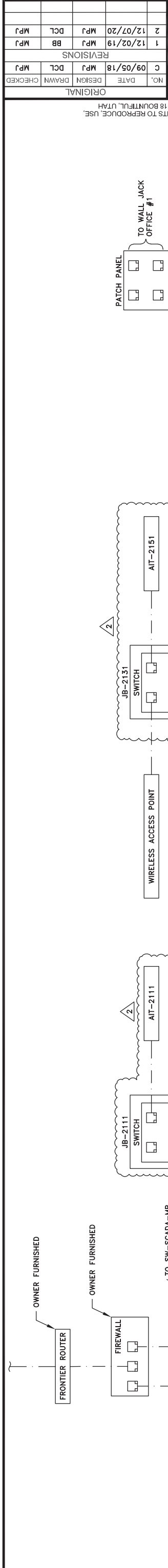
LEGEND	NOTES
--- CAT5 NETWORK CABLE ETHERNET	24 STRAND SINGLEMODE FIBER CABLE.
--- SINGLEMODE FIBER OPTIC CABLE	FANOUT KIT OR FUSION KIT.
--- SINGLEMODE DUPLEX PATCH CABLE	PROGRAMMING TO BE PROVIDED BY OWNERS SYSTEM INTEGRATOR.
--- RS-485 RATED CABLE	CONTRACTOR IS RESPONSIBLE FOR TERMINATING, INSTALLING, AND TESTING ALL COMMUNICATION CABLING ENTERING AND EXITING THE OWNER PROVIDED PANEL.
□ ETHERNET PORT	CONTRACTOR TO TERMINATE 12 STRANDS OF THE 24 STRAND CABLE. THE SAME 12 STRANDS SHALL BE TERMINATED AT EACH END.
□ LC TYPE FIBER OPTIC CONNECTOR	
□ SC TYPE FIBER OPTIC CONNECTOR	
○ ST TYPE FIBER OPTIC CONNECTOR	



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

**CLARIFICATION 38**

<b>To (Construction Manager):</b> Stantec Attention: Charles Reynolds Phone: 702-497-8024 Email: Charles.w.reynolds@stantec.com	
<b>From (Engineer):</b> SKM Engineering Attention: Lindsey Stevens Phone: 801-677-0011 Email: lindsey.stevens@skmeng.com	
<b>Subject:</b> Network Switches for HACH Instrumentation	<b>Location:</b> Process Basins
<b>Reference Documents:</b> Drawing Nos. NI-04A, LE-07, CE-07, CE-09, CE-11	
<b>CLARIFICATION</b>	
<p><b>Note the following:</b></p> <p>The HACH transmitters located at the Anoxic and Aeration Basins (AIT-2111, AIT-2151, AIT-2152, AIT-2211, AIT-2251, AIT-2252, AIT-2311, AIT-2351, AIT-2352, AIT-2411, AIT-2451 and AIT-2452) require ethernet communication. To accommodate this network switches will be added to the four main junction boxes at the Anoxic and Aeration Basins, JB-2111, JB-2131, JB-2311 and JB-2331, as shown on NI-04A and LE-07.</p> <p>To provide ethernet communication to the HACH transmitters and wireless access points, existing conduits and combined conduits will need to be modified as follows. Communication conduits have been added, which will not be physically installed, but have been listed for clarity (F2111, F2151, F2311, and F2351). Conduit F2111 with CAT6 shielded cable will be combined into conduit F0203+ to provide communications from CTC-MB to RIO-MB. F2111 will then be combined with S2111+ to provide communications from RIO-MB to JB-2111 (CE-10 and CE-11). Conduits F2151, F2311 and F2351 will similarly be used to route CAT6 shielded cable from CTC-MB to RIO-MB and on to junction boxes JB-2131, JB-2311 and JB-2331.</p> <p>From the new network switches in the junction boxes, CAT6 shielded conduit is routed to the wireless access points and analyzer transmitters through existing signal conduits.</p> <ul style="list-style-type: none"> <li>• Conduit S2111 will have two (2) CAT6 shielded cables from the network switch in JB-2111 to AIT-2111 and the wireless access point. Conduit S2211 will be used to route CAT6 shielded cable from JB-2111 to AIT-2211.</li> <li>• Conduit S2151 will have two (2) CAT6 shielded cables from the network switch in JB-2131 to AIT-2151 and the wireless access point. Conduit S2152 will be used to route CAT6 shielded cable from JB-2131 to AIT-2152. Conduit S2251 will be used to route CAT6 shielded cable from JB-2131 to AIT-2251. Conduit S2252 will be used to route CAT6 shielded cable from JB-2131 to AIT-2252.</li> <li>• Conduit S2311 will add a CAT6 shielded cable from JB-2311 to AIT-2311, while conduit S2411 will route CAT6 cable from JB-2311 to AIT-2411.</li> <li>• CAT6 shielded cables will be added to conduits S2351, S2352, S2451 and S2452 to feed from the network switch in JB-2331 to AIT-2351, AIT-2352, AIT-2451 and AIT-2452, respectively.</li> </ul> <p>See drawing CE-07.</p>	
<b>Prepared By (Name):</b> Lindsey Stevens, SKM	<b>Date:</b> Dec. 10, 2020
<b>Distributed By:</b>	<b>Date:</b>



CITY OF BEAUMONT

SALT MITIGATION WTP UPGRADE

INSTRUMENTATION - NETWORK

MEMBRANE BUILDING NETWORK DIAGRAM I.A.

NO.	DATE	DESIGN	CHECKED
C	09/05/18	MPJ	MPJ
1	12/02/19	MPJ	BB
2	12/07/20	MPJ	DCL

REVISIONS

ORIGINAL

633 W. 2600 S., SUITE 275, BOUNTIFUL, UT 84010

PHONE (801) 299-1327 FAX (801) 299-0153

ENGINEERING

AQUA

ALBERT A. WEBB ASSOCIATES ENGINEERING CONSULTANTS

PH. (951) 686-1070 FAX (951) 788-1256

3788 MCCRAY STREET RIVERSIDE CA. 92506

CIVIL ENGINEERS

533 W 2600 S, Suite 25

Bountiful, Utah 84010

Phone: (801) 677-0011

www.skmeng.com

0 1/2 1

DRAWING IS TO SCALE

IF BAR MEASURES:

1" = FULL SCALE

1/2" = HALF SCALE

SHEET 33 OF 172

NI-04A

**LEGEND**

- CAT6 NETWORK CABLE ETHERNET
- SINGLEMODE FIBER OPTIC CABLE
- SINGLEMODE DUPLEX PATCH CABLE
- RS-485 RATED CABLE
- ETHERNET PORT
- LC TYPE FIBER OPTIC CONNECTOR
- SC TYPE FIBER OPTIC CONNECTOR
- ST TYPE FIBER OPTIC CONNECTOR

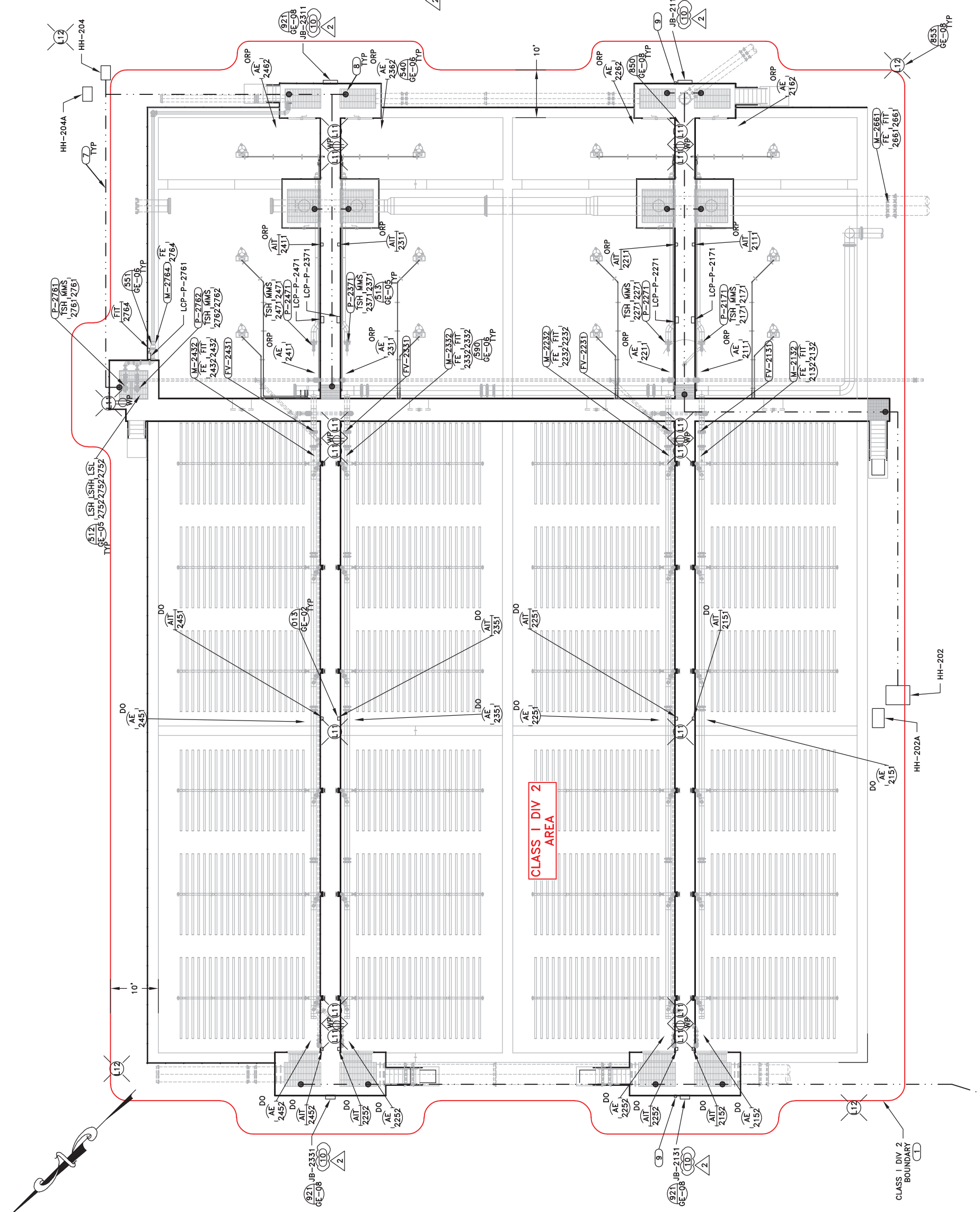
**NOTES**

- 1 24 STRAND SINGLEMODE FIBER CABLE.
- 2 FANOUT KIT OR FUSION KIT.
- 3 PROGRAMMING TO BE PROVIDED BY OWNERS SYSTEM INTEGRATOR.
- 4 CONTRACTOR IS RESPONSIBLE FOR TERMINATING, INSTALLING, AND TESTING ALL COMMUNICATION CABLING ENTERING AND EXITING THE OWNER PROVIDED PANEL.
- 5 CONTRACTOR TO TERMINATE 12 STRANDS OF THE 24 STRAND CABLE. THE SAME 12 STRANDS SHALL BE TERMINATED AT EACH END.

THIS DRAWING IS PROPERTY OF SKM ENGINEERING AND IS TRANSMITTED IN CONFIDENCE NEITHER RECEIPT NOR POSSESSION CONFERS OR TRANSFERS ANY RIGHTS TO REPRODUCE, USE, OR DISCLOSE, IN WHOLE OR IN PART, DATA CONTAINED HEREIN FOR ANY PURPOSE WITHOUT THE WRITTEN PERMISSION OF SKM ENGINEERING. © COPYRIGHTED 2018 BOUNTIFUL, UTAH

**ANOXIC & AERATION BASINS PLAN**

3/32" = 1'-0"  
 Scale in Feet  
 0 8 16



**ELECTRICAL LEGEND**

- GARCO STANCHION MOUNTED 69W LED LIGHT, 120V WITH PHOTO CELL CONTROL, MODEL FX164G2TAA33NA3EDNGSP1 OR APPROVED EQUAL.
- GE EVOLVE SERIES LED COBRA HEAD MODEL ERS-50-F2-JD1-5-00-2-GRAY-F WITH 2 HEADS, OR APPROVED EQUAL.
- DUPLEX OUTLET
- G- GFCI PROTECTED OUTLET
- WP: WEATHER-PROOF OUTLET GFCI PROTECTED.

- NOTES:**
1. THE INTERIOR OF THE ANOXIC BASIN AND EXTENDING OUT 10 FEET HORIZONTALLY AND 1.5 FEET VERTICALLY IS RATED CLASS 1, DIV 2 (SEE NFPA 820 FIGURE A.5.2). IN THIS CLASSIFIED AREA, ALL ELECTRICAL COMPONENTS SHALL BE RATED CLASS 1, DIV 2. SEAL OFFS SHALL BE UTILIZED PER THE REQUIREMENTS OF NEC. FOR THE UNCLASSIFIED SPACE SURROUNDING THIS AREA, ALL COMPONENTS SHALL BE CORROSION RESISTANT AND PANELS SHALL BE 316SS NEMA 4X. ALL EXPOSED CONDUITS AND FITTINGS SHALL BE PVC COATED GRG. ALL CHANNEL, ANCHORS, FASTENERS AND ASSOCIATED HARDWARE SHALL BE 316SS. CONDUIT SHALL ONLY RUN EXPOSED WHERE NECESSARY.
  2. CONTRACTOR SHALL BE RESPONSIBLE FOR SUBMITTING CONDUIT DETAILS AND A CONDUIT ROUTING PLAN IN AUTOCAD FORMAT TO THE ELECTRICAL ENGINEER FOR APPROVAL.
  3. LIMIT EXPOSED CONDUITS, 90° BENDS, AND WALL PENETRATIONS. MAINTAIN SEPARATION BETWEEN SIGNAL AND POWER-CARRYING CONDUITS.
  4. MOUNT ALL LCP'S AND PANELS AT LEAST 3' ABOVE THE HIGHEST LIQUID LEVEL.
  5. ALL ELECTRONIC DISPLAYS SUBJECT TO OUTDOOR EXPOSURE SHALL BE PROTECTED AS PER DETAIL 901.
  6. CONTRACTOR TO KEEP APPROPRIATE SEPARATION BETWEEN 480VAC, 120VAC AND 24VDC IN ALL JUNCTION AND HAND HOLES.
  7. GROUND GRID SHALL BE CONNECTED TO MAIN GROUND GRID THROUGH DUCT BANK SYSTEM.
  8. BOND ALL BUILDING STEEL TO GROUND PER NEC.
  9. INSTALL 2" MAST FOR WIRELESS ACCESS POINT (MAP SUPPLIED BY CITY). SEE DETAIL 921 ON SHI. GE-06.
  10. NEW NETWORK SWITCH LOCATIONS.

NO.	DATE	DESIGN	CHECKED
C	09/05/18	MPJ	MPJ
1	12/02/19	MPJ	BB
2	12/07/20	MPJ	MPJ

REVISIONS

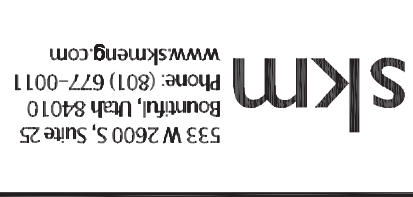
CITY OF BEAUMONT  
 SALT MITIGATION WTP UPGRADE  
 ELECTRICAL - LAYOUT  
 ANOXIC & AERATION BASINS PLAN



633 W 2600 S, SUITE 225, BOUNTIFUL, UT 84010  
 PHONE (801) 299-1327 FAX (801) 299-0153



ALBERT A. WEBB  
 CIVIL ENGINEERS  
 3788 MCCRAY STREET  
 RIVERSIDE, CA 92506  
 PH. (951) 686-1070  
 FAX (951) 788-1256



533 W 2600 S, Suite 25  
 Bountiful, Utah 84010  
 Phone: (801) 677-0011  
 www.skmeng.com

SHEET 100 OF 172  
**LE-07**

0 1/2 1  
 DRAWING IS TO SCALE  
 IF BAR MEASURES:  
 1" = FULL SCALE  
 1/2" = HALF SCALE





- (C) NOTES:  
CONDUITS THAT ARE COMBINED BETWEEN PULL POINTS ARE DENOTED WITH A + (PLUS) SYMBOL. SEE THE COMBINED CONDUITS SCHEDULE ON SHEET CE-11. CONDUITS THAT HAVE BEEN COMBINED SHALL BE LABELED WITH MULTIPLE CONDUIT TAGS, ONE FOR EACH CONDUIT THAT HAS BEEN COMBINED.
- (C2) THE CONDUIT DEVELOPMENT AND SCHEDULE DOES NOT SHOW CONDUIT AND CONDUCTORS FOR LIGHTS, RECEPTACLES AND DATA JACKS. IT ALSO DOESN'T SHOW CONDUIT AND CONDUCTORS FOR THE MBR BUILDING'S HVAC AND APPLIANCES FOR THE OFFICE, BREAK ROOM, CONTROL ROOM, LAB, MECHANICAL ROOM AND RESTROOMS. THE CONTRACTOR IS RESPONSIBLE TO INCLUDE THESE CONDUITS AND CONDUCTORS IN THEIR WORK AND IN THEIR SUBMITTED CONDUIT ROUTING PLAN.

CONDUIT SIZE	CONDUITS	SERVICE	FROM	TO	DUCTBANKS	NOTES
2"	P2311, P2311, P2311	120VAC	LP-18B2	JB-1081	102, 204	
1"	P0263, P0311, P2411	120VAC	LP-18B2	JB-1081	202, 204	
2"	P1101, P1102, P1111, P1113, P1151, P1152	120VAC	DP-18A1	JB-1081	101, 104, 104.4, PASSES THRU HH-101	
2"	P1311, C1311D	480VAC, 120VAC	HH-18	JB-2131		
2"	P1312, C1312	480VAC, 120VAC	HH-18	JB-2131		
2"	P1313, C1313	480VAC, 120VAC	HH-18	JB-2131		
2"	P1314, C1314	480VAC, 120VAC	HH-18	JB-2131		
2"	P1315, C1315	480VAC, 120VAC	HH-18	JB-2131		
2"	P1321, P1322, P1343	480VAC	DP-HW1	HH-18	101, 2, 18	
2"	P1332, P1342	120VAC	CP-HW2	HH-18	101, 2, 18	
2"	P1501, P1502, P1541	120VAC	LP-5H1	HH-303	303.1	
2"	P2111, P2112	120VAC	JB-0251	JB-2211		
1"	P2131, P2132	120VAC	JB-2151	JB-2131A		
1"	P2151, P2152, P2153	120VAC	JB-2152	JB-2151		
1.25"	P2153, P2154, P2155, P2156	120VAC	LP-18B2	JB-2152	203, 205	
1"	P0262, P2231, P2322	120VAC	JB-2251	JB-2231		
1.25"	P0252, P2231, P2322, P2251, P2252	120VAC	JB-2252	JB-2251		
1.25"	P0254, P2311, P2411	120VAC	LP-18B2	JB-2252	203, 205	
1.25"	P0254, P2331, P2332	120VAC	JB-2351	JB-2331A		
1.25"	P0254, P2331, P2332, P2351, P2352	120VAC	JB-2351	JB-2331		
1"	P2431, P2432	120VAC	LP-18B2	JB-2451	203, 205	
1"	P2431, P2432, P2451	120VAC	JB-2451	JB-2451		
1.25"	P2431, P2432, P2451, P2452	120VAC	LP-18B2	JB-2452	203, 205	
1.5"	P6302, P6400, P1132, P1151, P1472	120VAC	LP-HW1	HH-108	102, 38, 108	
2"	P6411A, P6412A	480VAC	CP-6411 (VFD P-6411, VFD P-6412)	HH-105	CONDUIT WAS PREVIOUSLY SP1432	
C1311D4	C1311D, C1312, C1313, C1314, C1315	120VAC	LP-1311	HH-18	101, 105	
C1321	C1321, C1322, C1343	120VAC	LP-1311	HH-18		
C1503+	C1503, C1504	120VAC	HH-303	HH-303	303.1	
C2171+	C2171, C2271	120VAC	HH-302	LCP-P-2271	204	
C2371+	C2371, C2471	120VAC	HH-202	LCP-P-2371	204	
C3907+	C3907, P3908, P3909	120VAC	H-3907	120VAC CABLE TRAY		
C3910+	C3910, P3911	120VAC	H-3910	120VAC CABLE TRAY		
C5422+	C5422, S5002A	24VDC/SIGNAL	HH-3910	HH-3910	202, 206	
C6411+	C6411A	120VAC	CP-6411 (VFD P-6411, VFD P-6412)	HH-105	101, 105	CONDUIT WAS PREVIOUSLY SP1422
C7406+	C7406, C7531	120VAC	HH-105	HH-105	102, 38, 108	
C8101+	C8101, C8102	120VAC	HH-106A	HH-106A	103, 103.1	
C8411+	C8411, C8412	120VAC	HH-103	HH-103	103	
C9201+	C9201, C9901, C9401, C9501	120VAC	HH-301	HH-301A, 9301A, 9401A, 9501A	301.1	
C9301A+	C9301A, C9301A, C9401A, C9501A	120VAC	HH-303	HH-9301B, 9301B, 9401B, 9501B	303.2	
S1332+	S1332, S1342	SIGNAL	HH-301	HH-2A	101, 2	
S1501+	S1501, S1502, S1543	SIGNAL	HH-302A	HH-302A	303.1	
S1741+	S1741, S1432, S1743, S1432, S6410	SIGNAL	HH-101A	HH-105A	105	
S1801+	S1801, S1822, C1802	SIGNAL	HH-101	HH-101	101	
S2111+	S2111, S2211, F2111	SIGNAL	HH-101	HH-101	202, 204	
S2131+	S2131, S2132	SIGNAL	HH-101	HH-101	202, 204	
S2151+	S2151, S2152, S2153, S2154	SIGNAL	HH-101	HH-101	202, 204	
S2231+	S2231, S2232	SIGNAL	HH-101	HH-101	202, 204	
S2251+	S2251, S2252, S2253	SIGNAL	HH-101	HH-101	202, 204	
S2251+	S2251, S2252, S2253	SIGNAL	HH-101	HH-101	202, 204	
S2251+	S2251, S2252, S2253	SIGNAL	HH-101	HH-101	202, 204	
S2251+	S2251, S2252, S2253	SIGNAL	HH-101	HH-101	202, 204	
S2251+	S2251, S2252, S2253	SIGNAL	HH-101	HH-101	202, 204	
S2311+	S2311, S2411, F2311	SIGNAL	HH-101	HH-101	202, 204	
S2331+	S2331, S2332	SIGNAL	HH-101	HH-101	202, 204	
S2351+	S2351, S2352, S2353	SIGNAL	HH-101	HH-101	202, 204	
S2351+	S2351, S2352, S2353	SIGNAL	HH-101	HH-101	202, 204	
S2431+	S2431, S2432	SIGNAL	HH-101	HH-101	202, 204	
S2451+	S2451, S2452, S2453	SIGNAL	HH-101	HH-101	202, 204	
S2451+	S2451, S2452, S2453	SIGNAL	HH-101	HH-101	202, 204	
S2451+	S2451, S2452, S2453	SIGNAL	HH-101	HH-101	202, 204	
S5002+	S5002, S5001, S9540	SIGNAL	HH-101	HH-101	202, 206	
S5002A+	S5002A, S5002B	SIGNAL	HH-101	HH-101	202, 206	
S6302+	S6302, S6412, S6420, S7101, S7122	SIGNAL	HH-101	HH-101	102, 38, 108	
S7131+	S7131, S7472	SIGNAL	HH-101	HH-101	103	
S7401+	S7401, S8433, S8443	SIGNAL	HH-101	HH-101	102, 38, 108	
S8002+	S8002, C8203	SIGNAL	HH-101	HH-101	103, 103.1	
S8302+	S8302, C8303	SIGNAL	HH-101	HH-101	103, 103.1	
F0303+	F0303, F2111, F2311, F2351	CONVMS	CTC-HW	HH-103A	103	
F6401+	F6401, F6402, F6403	CONVMS	CTC-HW	HH-103A	103	



NO.	DATE	DESIGN	DRAWN	CHECKED
C	09/05/18	MPJ	DCL	MPJ
ORIGINAL				

# CITY OF BEAUMONT

## SALT MITIGATION WFTP UPGRADE ELECTRICAL - CONDUITS AND DUCTBANKS

### CONDUIT SCHEDULE 11

633 W 2600 S, SUITE 275, BOUNTIFUL, UT 84010  
 PHONE (801) 299-1327 FAX (801) 299-0153

ALBERT A. WEBB  
 CIVIL ENGINEERS  
 3788 MCCRAY STREET  
 RIVERSIDE CA, 92506  
 PH. (951) 686-1070  
 FAX (951) 788-1256  
 ENGINEERING CONSULTANTS

533 W 2600 S, Suite 25  
 Bountiful, Utah 84010  
 Phone: (801) 677-0011  
 www.skmeng.com

SHEET 163 OF 172

# CE-11

0 1/2 1  
 DRAWING IS TO SCALE  
 IF BAR MEASURES:  
 1" = FULL SCALE  
 1/2" = HALF SCALE



# City of Beaumont Wastewater Treatment Plant Salt Mitigation Upgrade Project

## Technical Justification:

PCO-45	
Design Adjustment: WML COP-050 CLAR-35	Fine Screens – Addition of a High-Level Alarm Float Switch
<p><u>Reason for Design Changes:</u></p> <p>To provide operations with advanced notice of potential overflow of the Fine Screen. A high-level float switch is to be added to the Fine Screen Splitter Box to provide an alarm in case of high liquid level upstream of fine screens.</p> <p><u>Design and Scope Changes:</u></p> <ul style="list-style-type: none"><li>• Please provide and install a high-level float switch as indicated on revised drawing FSM-1, PI-05 and LE-05. The high-level float switch shall be installed so that an alarm is triggered once the liquid elevation reaches a level of 3'-4" above the finished floor of the influent box (Note that this level may need to be adjusted following flow testing of screens).</li><li>• Route the float switch cable to a small NEMA 4X Junction Box adjacent to the float switch location (a minimum 18" above top of wall) and provide an intrinsically safe barrier (120VAC powered) inside the junction box. Three #12 with #12 Ground wires will need to be routed to the junction box from RIO-HW. To accomplish this, utilize conduit C1711 from RIO-HW to HH-105 and then from HH-105 route the wires through one of the underground conduits that is being used for lighting. See drawings CE-05 and CE-18</li><li>• Cost proposal shall include all necessary costs for labor and miscellaneous materials to perform this change. Contractor shall not perform any work until change has been approved by the City.</li></ul> <p><u>Cost Impact:</u></p> <p>MWH and Network design engineer, SKM, has reviewed the attached WML cost proposal and find it acceptable. Accordingly, MWHC recommends a contract cost increase of \$11,639.14 to be executed in a change order for the modifications requested.</p>	

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

**CHANGE ORDER PROPOSAL (COP) # 047  
(By Contractor)**

<b>To (Engineer/CM):</b> MWH Constructors Attention: Charles Reynolds Phone: 702-497-8024 Email: Charles.w.reynolds@stantec.com	<b>From (Contractor):</b> W.M. Lyles Co. Attention: Oscar Mendoza Phone: 619-565-6064 Email: omendoza@wmlylesco.com
<b>PCO/DCM No.:</b> 29	
<b>Subject:</b> High Level Float Switch at Fine Screens	
<b>Reference Documents:</b> Attached	
<b>DESCRIPTION</b>	
This COP is for the installation of a High Level Float Switch at the Fine Screens Splitter Box as outlined under DCM 29 (Attached).	
<b>COST ESTIMATE</b>	
Total Cost : \$ 11,639.14 – see attached breakdown	
<b>SCHEDULE IMPACT</b>	
<b>Received by MWH Constructors (Date):</b>	



**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

Reference #: CLAR. 35

Attention: Charles W. Reynolds

City of Beaumont WWTP Salt Mitigation Upgrade Project

DESCRIPTION: High Level Float Switch at Fine Screen

Item:		Unit	Total MH	Total MH Cost	Eq. Cost	Material	Subcont.	Total Cost
1	High Level Float Switch at Fine Screen	1 LS	0	\$ -	\$ -	\$ -	\$ 10,975.14	\$ 10,975.14
2		1 LS	0	\$ -	\$ -	\$ -	\$ -	\$ -
3		1 LS	0	\$ -	\$ -	\$ -	\$ -	\$ -
		1 LS	0	\$ -	\$ -	\$ -	\$ -	\$ -
Total Costs			0	\$ -	\$ -	\$ -	\$ 10,975.14	\$ 10,975.14

Subtotal		\$	10,975.14
Mark-up - Labor	15%	\$	-
Mark-up - Equipment	15%	\$	-
Mark-up - Materials	15%	\$	-
Mark-up - Subcontractor	5%	\$	548.76
Bond	1.0%	\$	115.24
<b>Total This Change Order</b>		<b>\$</b>	<b>11,639.14</b>

Comments:

**City of Beaumont WWTP Salt Mitigation Upgrade Project**  
**High Level Float Switch at Fine Screen**

**A. Labor**

Description	Lab Pipe FM			Lab Pipe			Operator			Carp FM			Carp			Lab			Cement Mason			
	ST	PT	DT	ST	PT	DT	ST	PT	DT	ST	PT	DT	ST	PT	DT	ST	PT	DT	ST	PT	DT	

Name	Rate			Hours			Extension	
	ST	PT	DT	ST	PT	DT		
Lab Pipe FM	\$77.80		\$103.90	\$129.98	0	0	0	\$0.00
Lab Pipe	\$75.19		\$99.97	\$124.75	0	0	0	\$0.00
Operator	\$96.33		\$128.99	\$161.66	0	0	0	\$0.00
Carp FM	\$85.03		\$115.33	\$145.63	0	0	0	\$0.00
Carp	\$81.11		\$109.45	\$137.79	0	0	0	\$0.00
Lab	\$71.72		\$94.78	\$117.82	0	0	0	\$0.00
Cement Mason	\$78.05		\$102.25	\$126.45	0	0	0	\$0.00
					0	0	0	
<b>Total Labor =</b>								<b>\$0.00</b>

**B. Equipment**

Description	17.12	32.037	31.028	30.048	20.041	35.064	Rent

Number	Description	Rate	Hours	Extension
17.12	Foreman Truck	\$29.60	0	\$0.00
32.037	Reachlift Xtreme XR1055	\$58.61	0	\$0.00
31.028	Hydro Crane - 80 Ton Link Belt RTC-8080 II 80 Ton	\$164.01	0	\$0.00
30.048	Loader Backhoe 410 John Deere 410L	\$64.30	0	\$0.00
20.041	Excavator John Deere 350GLC	\$151.12	0	\$0.00
35.064	Loader John Deere 644J	\$123.00	0	\$0.00
17	Foreman Truck	\$29.60	0	\$0.00
20.041	Excavator John Deere 350GLC	\$151.12	0	\$0.00
35.064	Loader John Deere 644J	\$123.00	0	\$0.00
Rent	Owner Op dump trucks	\$100.00	0	\$0.00
				0
<b>Total Equipment =</b>				<b>\$0.00</b>

**C. Materials**

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

**D. Subcontractor**

Quantity	Unit	Price	Extension
1	LS	\$10,975.14	\$10,975.14
			\$0.00
<b>Total Subcontract =</b>			<b>\$10,975.14</b>



Southern Contracting Company  
P.O. Box 445 San Marcos, CA 92079-0445  
Tel 760-744-0760 Fax 760-744-6475  
website: [www.southerncontracting.com](http://www.southerncontracting.com)  
email: [info@southerncontracting.com](mailto:info@southerncontracting.com)

## Change Order Request

**103801 — Wastewater Treatment Plant Salt Mitigation Upgrade**

**COR Subject: High Level Float Switch at Fine Screen**

**To**                    **Juan C. Ahumada**  
**W.M. Lyles**  
**42142 Roick Drive**  
**Temecula, CA 92590**  
**951-973-7393**

**Contract No: 55.1173**  
**COR Number: 103801-COR#024**  
**COR Revision Number: 0**

**COR Date: 11/9/2020**  
**Work Type: Price / Do Not Proceed**

**Return To**        **Dan Alcantar**  
**Southern Contracting Company**  
**760-744-0760x621**  
**619-778-0681**  
**DAlcantar@southerncontracting.com**

**Other Reference No: CLAR-035**  
**Days Valid: 5**

### Scope Of Work / Time Extension Request

The work associated with CLAR-035 High Level Float Switch at Fine Screen Splitter Box is a change to Southern Contracting Company's scope of work in which a change in Contract Price and Time is to be considered. Accordingly, Southern Contracting Company requests a Contract Change Order in the amount of \$10,975.14

Scope of Work is as follows:

- Per the request made by W.M. Lyles we will provide A high-level float switch will be added to the Fine Screen Splitter Box to provide an alarm in case of high liquid level upstream of fine screens. An approximate location is indicated on FSM-1, PI-05 and LE-05. The high-level float switch shall be installed so that an alarm is triggered once the liquid elevation reaches a level of 3'-4" above the finished floor of the influent box (Note that this level may need to be adjusted following flow testing of screens). Route the float switch cable to a small NEMA 4X Junction Box adjacent to the float switch location (a minimum 18" above top of wall) and provide an intrinsically safe barrier (120VAC powered) inside the junction box. Three #12 with #12 Ground wires will need to be routed to the junction box from RIO-HW. To accomplish this, utilize conduit C1711 from RIO-HW to HH-105 and then from HH-105 route the wires through one of the underground conduits that is being used for lighting. See drawings CE-05 and CE-18.

Exclusions: Set up of network, programming, Overtime.

Change in time: 5 days

Southern Contracting reserves all rights to additional costs and time for changes not identified in the documents furnished, and is not responsible for additional costs or time for work which is not part of our contract scope of work,

unless stipulated above. Should additional information or clarification be required, please contact me at your convenience.

---

## Summary

**Total:            \$10,975.14**

---

## Reservation of Rights

This COR does not include any amount for impacts such as interference, disruptions, rescheduling, changes in the sequence of work, delays and/or associated acceleration. We expressly reserve the right to submit our request for any of these items.

---

**Signed By:** \_\_\_\_\_

**Dated:** 11/9/2020

## Bid Summary Report

103801 Beaumont Chang Orders Estimator: Dan Alcantar

Job #2336

**Job Name:** 103801 Beaumont Chang Orders

**Contractor:**

**Estimator:** Dan Alcantar

**Notes:**

**Bid Date:**

Summary Description	Material			Labor		
	Extended	%	Adjusted	Extended	%	Adjusted
COR#024 CLAR-035 High Level Float Fine Screen	\$1,144.12	100.00%	\$1,144.12	31.11	100.00%	31.11

### Top Sheet

Raw Cost	\$9,360.44	Sales per Month	\$0.00
Tax	\$88.67	Return per Month	\$0.00
Raw Cost with Tax	\$9,449.11	Price per Square Foot	\$0.00
Overhead	\$1,417.37	Hours per Square Foot	0.00
Profit	\$0.00	Square Feet	0.00
Total Return Amount	\$1,417.37	Job Months	0.00
Total Return %	12.91%	Hours per Week	0.00
Price	\$10,866.47	Workers per Day	0.00
Bond	\$108.66	Total Hours	31.11
Sell Price	<b>\$10,975.14</b>	Markup Sales Tax (Overhead)	Yes
Adjusted Sell ( )	\$0.00	Markup Sales Tax (Profit)	Yes
Adjusted Sell Return 0.00 %	\$0.00	Use Bond Table	Yes

### Labor

Class Description	Percent of Total	Hours Distributed	Hourly Rate	Burden		Labor Cost
				Rate	Percent	
General Foreman	20.00%	6.22	\$99.49	\$0.00	0.00%	\$619.08
Journeyman	80.00%	24.89	\$85.51	\$0.00	0.00%	\$2,128.34
<b>Totals</b>	100.00%	31.11	\$88.31	\$0.00	0.00%	\$2,747.42

### Mark Ups

	OVERHEAD			PROFIT		
	Total	%	Amount	%	Amount	
Materials	\$1,144.12	+ 15.00%	\$1,315.74	+ 0.00%	\$1,315.74	
Labor	\$2,747.42	+ 15.00%	\$3,159.53	+ 0.00%	\$3,159.53	
Supplier Quotes	\$4,670.00	+ 15.00%	\$5,370.50	+ 0.00%	\$5,370.50	

## Bid Summary Report

103801 Beaumont Chang Orders Estimator: Dan Alcantar

Job #2336

SubContractors	\$0.00	+	5.00%	\$0.00	+	0.00%	\$0.00
Direct Job Expense	\$798.90	+	15.00%	\$918.74	+	0.00%	\$918.74
Equipment Rental	\$0.00	+	15.00%	\$0.00	+	0.00%	\$0.00
<b>Totals</b>	<b>\$9,360.44</b>		<b>15.00%</b>	<b>\$10,764.50</b>		<b>0.00%</b>	<b>\$10,764.50</b>

### Tax Report

	Taxed Amount	Tax Rate %	Tax Amount
Materials	\$1,144.12	7.75%	\$88.67
Labor	\$2,747.42	0.00%	\$0.00
Supplier Quotes	\$0.00	0.00%	\$0.00
SubContractors	\$0.00	0.00%	\$0.00
Direct Job Expense	\$0.00	0.00%	\$0.00
Equipment Rental	\$0.00	0.00%	\$0.00
<b>Total Tax:</b>			<b>\$88.67</b>

### Supplier Quotes

Name	Supplier	Tax (0.0 %)	Unit Cost	Multiplier	Amount
Intrumentation and controls		No	\$4,670.00	1.00	\$4,670.00
<b>Total:</b>					<b>\$4,670.00</b>

### Direct Job Expense

Name	Supplier	Tax (0.0 %)	Unit Cost	Multiplier	Amount
FM Truck		No	\$26.63	30.00	\$798.90
<b>Total:</b>					<b>\$798.90</b>

Job Name: 103801 Beaumont Chang Orders

Job Number: 2336

Extension Name: COR#024 CLAR-035 High Level Float Fine Screen

**[Items and ByProducts]**

Material Filter: <None>

Report: COR - 2

Item #	Item Name	Quantity	Unit Price	U	Ext Price	Unit Labor	U	Ext Labor
Label Set: Combined, Combined, Combined, Combined, Combined					<b><u>\$1,144.12</u></b>			<b><u>31.11</u></b>
Cost Code: 010 - Conduit/Raceway					<u>\$797.37</u>			<u>6.88</u>
2,701	3/4 GRC/PVC COATED	20.00	\$474.52	C	\$94.90	10.05	C	2.01
2,715	3/4 GRC/PVC COUP	4.00	\$493.74	C	\$19.75	11.30	C	0.45
2,730	3/4 GRC/PVC ELBOW	2.00	\$1,758.82	C	\$35.18	69.08	C	1.38
2,807	3/4 GRC/PVC HUB	2.00	\$41.16	E	\$82.32	50.24	C	1.00
2,987	3/4 GRC/PVC CHNL STP	4.00	\$680.49	C	\$27.22	3.77	C	0.15
15,779	12x10x6 N4X SS PULLBOX	1.00	\$538.00	E	\$538.00	1.88	E	1.88
Cost Code: 020 - Wire/Cable					<u>\$346.75</u>			<u>19.83</u>
44	12 THHN CU STRANDED	2,000.00	\$130.18	M	\$260.35	7.54	M	15.07
4,150	12 GA TERMINATION	24.00	\$110.00	C	\$26.40	0.19	E	4.52
60,050	Wire Tags Tube Style	24.00	\$250.00	C	\$60.00	1.00	C	0.24
Cost Code: 140-Instrumentation					<u>\$0.00</u>			<u>4.40</u>
15,890	LSL/LSH -LEVEL SW, FBO	2.00	\$0.00	X	\$0.00	2.20	E	4.40
<b>[Items and ByProducts] Total:</b>					<b><u>\$1,144.12</u></b>			<b><u>31.11</u></b>



**Scope Letter: 2 pages**

Technical  
Systems  
Incorporated

November 9, 2020

Quote Number: CO#11

To: Southern Contracting  
Attn: Dan Alcantar

Project: Beaumont WWTP Salt Mitigation  
Beaumont Wastewater Treatment Plant

Reference: **CLAR-35 Fine Screens Level Switch**

2303 196th Street SW  
Lynnwood, WA 98036  
Tel: (425) 775-5696  
Fax: (425) 775-9074  
info@tsicontrols.com

Bid Date: N/A

Bid Time: N/A

Technical Systems, Inc. (TSI) is pleased to provide a quote for the above referenced project. Material for this project will be shipped FOB Lynnwood WA, complete, ready for field termination by others. TSI's price includes CA sales tax and does not include the cost to bond TSI's portion of the project.

TSI's price for the scope of work detailed on the following pages:

**Change Order Proposal Pricing:****\$4,670.00****Change Scope as Follows:**

- Add New Float Switch LSH-14XX
  - o Conery B8, 10A@120vac, Gold Contacts for I.S. Application, Cord Weight, 100' Cable (trimmable)
- Add New Junction Box with I.S. Relay
  - o CAD Drawings/Submittal and Wiring Diagrams
  - o 304SS NEMA 4X, 12"x10"x6", Wall Mount, Screw Clamp Closure, Backpan
    - Hoffman A12106CHNFSS
  - o Turck I.S. Relay, Universal Voltage, UL Listed, Relay Output
  - o Terminals and Nameplate
- Update RIO-HW drawings with new IO

Terms: Net 30  
FOB: Lynnwood WA  
Freight: Prepaid

This quote is valid for 90 days.

Please call with any questions you may have concerning pricing or any technical questions.

Sincerely,

*Colin Dightman-Kovak*

Colin Dightman-Kovak  
Technical Systems, Inc.  
1-425-678-4116

### **Scope of Work**

#### **Misc Equipment:**

Including:

1. Hardware Procurement
2. Required Testing
3. O&M, drawings updates

### **GENERAL**

1. TSI supplies a bill of materials, CAD-based drawings, and Operations and Maintenance Manuals for all equipment furnished by TSI.
2. TSI supplies the required field startup services for this project.
3. Panels fabricated by TSI are UL 508 labeled.

### **STANDARD INCLUSIONS**

We provide the following unless specifically excluded on our bill of material:

- 1) Equipment shipped FOB factory with freight allowed, tailgate, destination.
- 2) Field wiring diagrams showing interconnection of field instruments and instrumentation panels.
- 3) Instruction manuals as required.
- 4) All necessary field start-up and calibration of the equipment we supply.

### **STANDARD EXCLUSIONS**

We do NOT include the following unless specifically included in our bill of material:

- 1) Pipe, tubing, valves or fittings between the instrument and the process.
- 2) Conduit, wire or cable not an integral part of the instrument.
- 3) Mounting brackets, stanchions, supports or mounting pads not an integral part of the instrument.
- 4) Labor to install the equipment.
- 5) The Cost, (if due to local union regulations), to have local craftsman make adjustments or wiring modifications to our equipment during start-up and calibration.
- 6) Any material or services not in our quoted sections.
- 7) This proposal is based on award of a supply purchase order and does not include any of the costs associated with bonding or subcontract administration. If bonding or a subcontract is required they can be provided for additional cost.

## **SPECIFIC EXCLUSIONS**

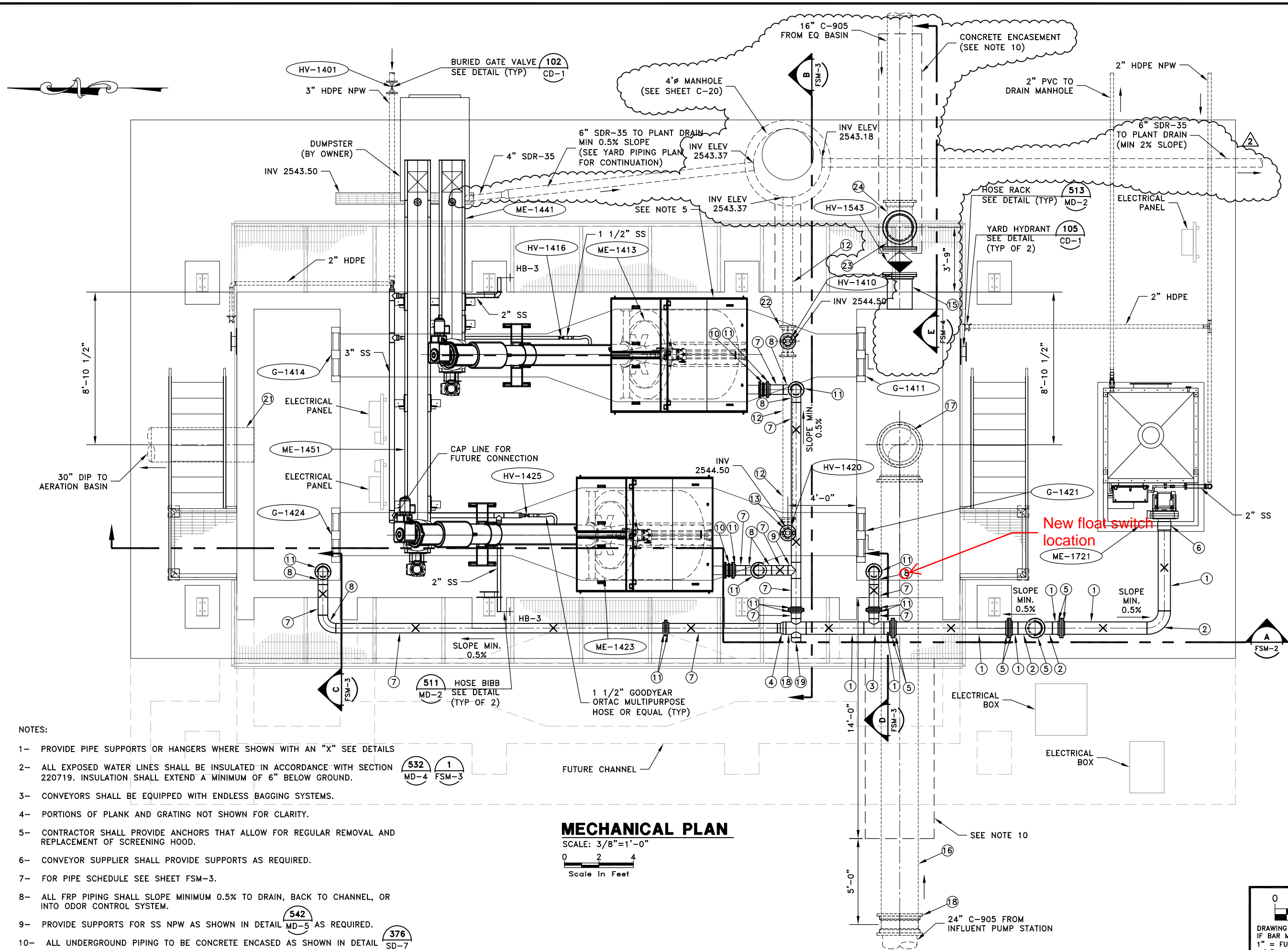
- 1) Installation of Panels, programming/SCADA modifications.

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

**CLARIFICATION 35**

<b>To (Construction Manager):</b> Stantec Attention: Charles Reynolds Phone: 702-497-8024 Email: Charles.w.reynolds@stantec.com	
<b>From (Engineer):</b> SKM Engineering Attention: Lindsey Stevens Phone: 801-677-0011 Email: lindsey.stevens@skmeng.com	
<b>Subject:</b> High Level Float Switch at Fine Screen Splitter Box	<b>Location:</b> Fine Screens Building
<b>Reference Documents:</b> Drawing Nos. FSM-1, PI-05, I-14, LE-05, CE-05 and CE-18	
<b>CLARIFICATION</b>	
<p><b>Note the following:</b></p> <p>A high-level float switch will be added to the Fine Screen Splitter Box to provide an alarm in case of high liquid level upstream of fine screens. An approximate location is indicated on FSM-1, PI-05 and LE-05. The high-level float switch shall be installed so that an alarm is triggered once the liquid elevation reaches a level of 3'-4" above the finished floor of the influent box (Note that this level may need to be adjusted following flow testing of screens). Route the float switch cable to a small NEMA 4X Junction Box adjacent to the float switch location (a minimum 18" above top of wall) and provide an intrinsically safe barrier (120VAC powered) inside the junction box. Three #12 with #12 Ground wires will need to be routed to the junction box from RIO-HW. To accomplish this, utilize conduit C1711 from RIO-HW to HH-105 and then from HH-105 route the wires through one of the underground conduits that is being used for lighting. See drawings CE-05 and CE-18.</p>	
<b>Prepared By (Name):</b> Lindsey Stevens, SKM	<b>Date:</b> Oct. 12, 2020
<b>Distributed By:</b>	<b>Date:</b>

BDP 10/16/2019 X:\Beaumont\Salt Mitigation WWP Upgrade WEBB170227\Drafting\FINE SCREENS\FSM-1.dwg



- NOTES:**
- 1- PROVIDE PIPE SUPPORTS OR HANGERS WHERE SHOWN WITH AN "X" SEE DETAILS
  - 2- ALL EXPOSED WATER LINES SHALL BE INSULATED IN ACCORDANCE WITH SECTION 220719. INSULATION SHALL EXTEND A MINIMUM OF 6" BELOW GROUND.
  - 3- CONVEYORS SHALL BE EQUIPPED WITH ENDLESS BAGGING SYSTEMS.
  - 4- PORTIONS OF PLANK AND GRATING NOT SHOWN FOR CLARITY.
  - 5- CONTRACTOR SHALL PROVIDE ANCHORS THAT ALLOW FOR REGULAR REMOVAL AND REPLACEMENT OF SCREENING HOOD.
  - 6- CONVEYOR SUPPLIER SHALL PROVIDE SUPPORTS AS REQUIRED.
  - 7- FOR PIPE SCHEDULE SEE SHEET FSM-3.
  - 8- ALL FRP PIPING SHALL SLOPE MINIMUM 0.5% TO DRAIN, BACK TO CHANNEL, OR INTO ODOR CONTROL SYSTEM.
  - 9- PROVIDE SUPPORTS FOR SS NPW AS SHOWN IN DETAIL **542** MD-5 AS REQUIRED.
  - 10- ALL UNDERGROUND PIPING TO BE CONCRETE ENCASED AS SHOWN IN DETAIL **376** SD-7

**MECHANICAL PLAN**  
SCALE: 3/8"=1'-0"  
0 2 4  
Scale in Feet

THIS DRAWING IS PROPERTY OF AQUA ENGINEERING INC. AND IS TRANSMITTED IN CONFIDENCE. NEITHER RECEIPT NOR POSSESSION CONFERS OR TRANSFERS ANY RIGHTS TO REPRODUCE, USE, OR DISCLOSE, IN WHOLE OR IN PART, DATA CONTAINED HEREIN FOR ANY PURPOSE WITHOUT THE WRITTEN PERMISSION OF AQUA ENGINEERING INC. © COPYRIGHTED 2016 BOUNTIFUL, UTAH

NO.	DATE	DESIGN	DRAWN	CHECKED
C	09/05/18	DPS	BDP	JRL
1	11/15/18	DPS	KRB	JRL
2	10/11/19	DPS	BDP	JRL

CITY OF BEAUMONT  
SALT MITIGATION WWTP UPGRADE  
FINE SCREENS  
MECHANICAL PLAN

**AQUA**  
ENGINEERING  
593 W. 2600 S. SUITE 275 BOUNTIFUL, UT 84010  
PHONE (801) 299-1327 FAX (801) 299-0153

**ALBERT A. WEBB**  
CIVIL ENGINEERS  
3788 McCRAV STREET  
RIVERSIDE CA 92506  
PH. (951) 686-1070  
FAX (951) 788-1256  
**ASSOCIATES**  
ENGINEERING CONSULTANTS

0 1/2 1  
DRAWING IS TO SCALE  
IF BAR MEASURES:  
1" = FULL SCALE  
1/2" = HALF SCALE

SHEET  
**FSM-1**

RIO-HW

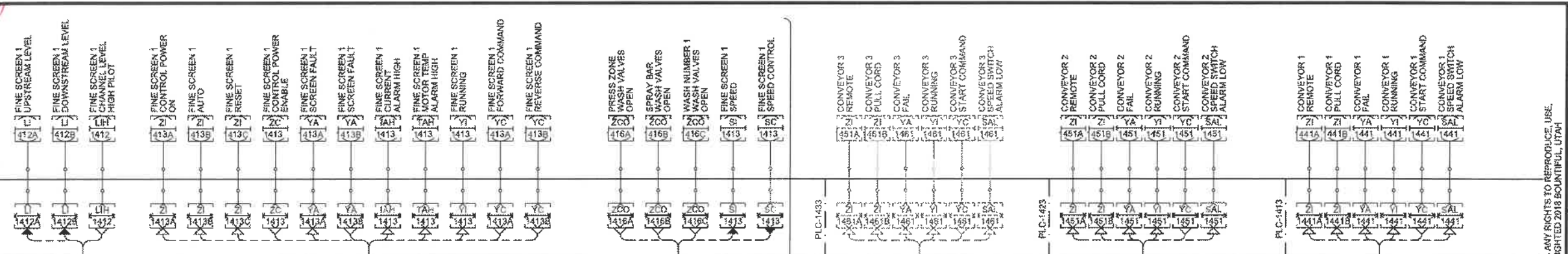
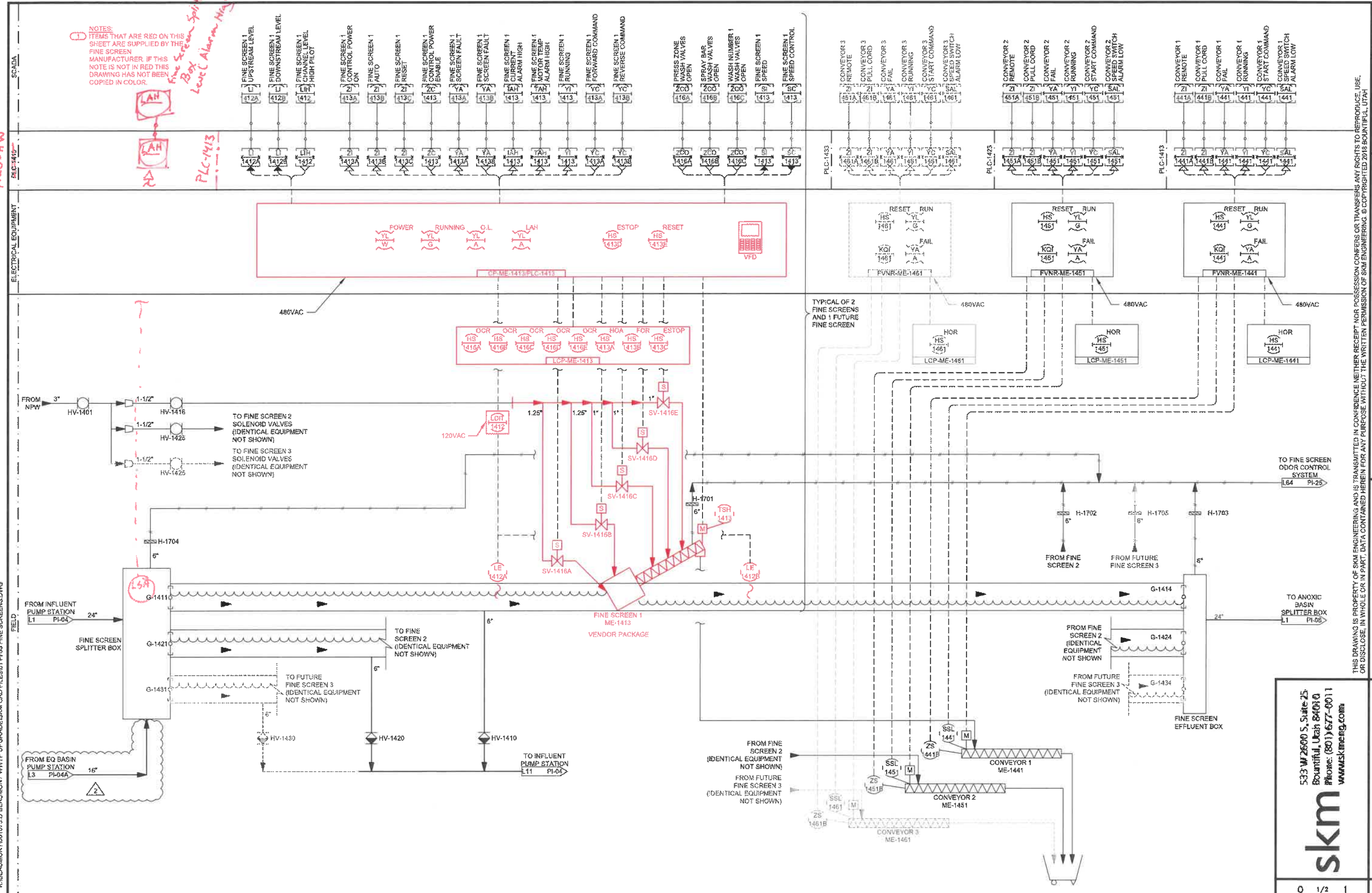
K:\BEAUMONT\031073.D\BEAUMONT\WVTP-UPGRADE\SKM CAD FILES\PI-05 FINE SCREENS.DWG

8/19/2019

NOTES:  
1. ITEMS THAT ARE RED ON THIS SHEET ARE SUPPLIED BY THE FINE SCREEN MANUFACTURER. IF THIS NOTE IS NOT IN RED THIS DRAWING HAS NOT BEEN COPIED IN COLOR.

LAH  
LAH  
Fine Screen Splitter Box Alarm High  
Level Alarm High

PLC-1413



- FINE SCREENS 1, 2, & (3 FUTURE)  
ME-1413, ME-1423, (ME-1433)
- CONVEYORS 1, 2, & (3 FUTURE)  
ME-1441, ME-1451, (ME-1461)
- LOOPS: 1412, 1413, 1416, 1422, 1423, 1426, (1432, 1433, 1436), 1441, 1451, (1461)

533 W 2600 S, Suite 25  
 Bountiful, Utah 84003  
 Phone: (801) 677-0011  
 WWW.SKMEINC.COM



0 1/2 1  
 DRAWING IS TO SCALE  
 IF BAR MEASURES:  
 1" = FULL SCALE  
 1/2" = HALF SCALE

NO.	DATE	DESIGN	DRAWN	CHECKED
C	09/05/18	MPJ	DCL	MPJ
REVISIONS				
1	11/26/18	MPJ	BR	MPJ
2	10/17/19	MPJ	DCL	MPJ

CITY OF BEAUMONT  
 SALT MITIGATION WWTP UPGRADE  
 INSTRUMENTATION - P&IDs  
 FINE SCREENS

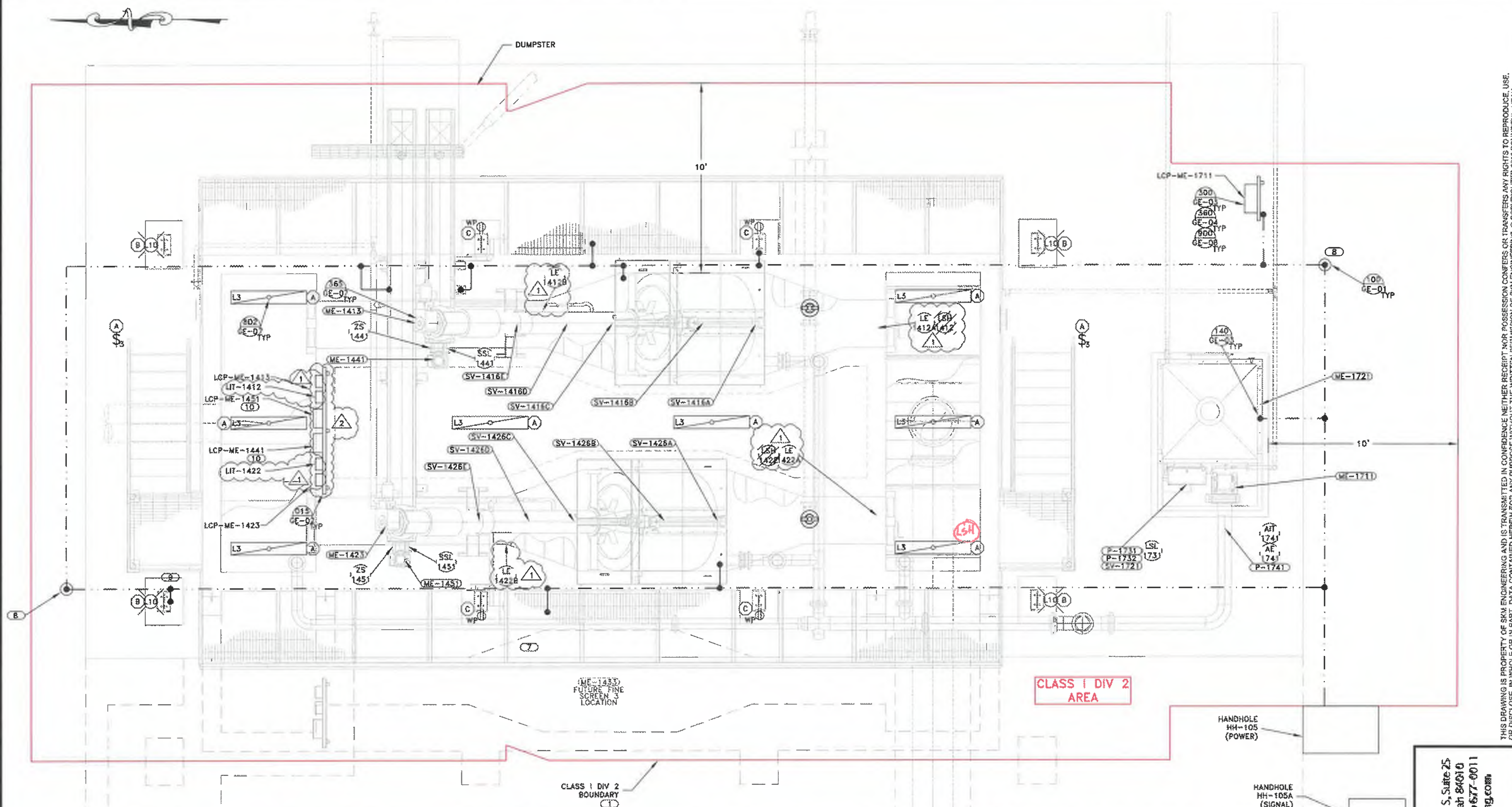
AQUA ENGINEERING  
 533 W. 2600 S., SUITE 25, BOUNTIFUL, UT 84010  
 PHONE (801) 299-1927 FAX (801) 299-0155

ALBERT A. WEBB ASSOCIATES ENGINEERING CONSULTANTS  
 CIVIL ENGINEERS  
 3789 MACRAY STREET  
 RIVERSIDE CA 92506  
 PH. (951) 686-1070  
 FAX (951) 788-1256

THIS DRAWING IS PROPERTY OF SKM ENGINEERING AND IS TRANSMITTED IN CONFERENCE NEITHER RECEIPT NOR POSSESSION CONFERS OR TRANSFERS ANY RIGHTS TO REPRODUCE, USE, OR DISCLOSE, IN WHOLE OR IN PART, DATA CONTAINED HEREIN FOR ANY PURPOSE WITHOUT THE WRITTEN PERMISSION OF SKM ENGINEERING. © COPYRIGHTED 2018 BOUNTIFUL, UT.



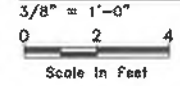
2/28/2019 K:\BEAUMONT\001073.D BEAUMONT WWTP UPGRADE\SKM CAD FILES\13 LE-05 FINE SCREENS ELECTRICAL PLAN.DWG



**NOTES:**

- 1 THE FINE SCREEN CHANNELS AND INTERIOR OF THE SCREENS AS WELL AS THE FINE SCREEN ODOR CONTROL UNIT ARE CLASS I, DIV2. FOR ELECTRICAL COMPONENTS IN THIS CLASSIFIED AREA, ALL COMPONENTS SHALL BE RATED CLASS I, DIV 2 AND SEAL OFFS SHALL BE UTILIZED PER THE REQUIREMENTS OF NEC. FOR THE UNCLASSIFIED SPACE SURROUNDING THIS AREA, ALL COMPONENTS SHALL BE CORROSION RESISTANT AND PANELS SHALL BE 316SS NEMA 4X. ALL EXPOSED CONDUITS AND FITTINGS SHALL BE PVC COATED GR5. ALL CHANNEL, ANCHORS, FASTENERS AND ASSOCIATED HARDWARE SHALL BE 316SS. CONDUIT SHALL ONLY RUN EXPOSED WHERE NECESSARY.
- 2 CONTRACTOR SHALL BE RESPONSIBLE FOR SUBMITTING CONDUIT DETAILS AND A CONDUIT ROUTING PLAN IN AUTOCAD FORMAT TO THE ELECTRICAL ENGINEER FOR APPROVAL.
- 3 LIMIT EXPOSED CONDUITS, 90° BENDS, AND WALL PENETRATIONS, MAINTAIN SEPARATION BETWEEN SIGNAL AND POWER-CARRYING CONDUITS.
- 4 MOUNT ALL LCP'S AND PANELS AT LEAST 3' ABOVE THE HIGHEST LIQUID LEVEL.
- 5 ALL ELECTRONIC DISPLAYS SUBJECT TO OUTDOOR EXPOSURE SHALL BE PROTECTED AS PER DETAIL 901.
- 6 CONTRACTOR TO KEEP APPROPRIATE SEPARATION BETWEEN 480VAC, 120VAC AND 24VDC IN ALL JUNCTION AND PULL BOXES.
- 7 CONTRACTOR SHALL PROVIDE 2 CONCRETE ENCASED ELECTRODES IN FOOTINGS PER SPECIFICATIONS 60' PER CONDUCTOR.
- 8 CONTRACTOR SHALL INSTALL (2) 10"x3/4" COPPER GROUND RODS 10' MINIMUM SPACING AND 10' MINIMUM FROM BUILDING.
- 9 BOND ALL BUILDING STEEL TO GROUND PER NEC.
- 10 LCP SHALL BE NEMA 4X DISCONNECT SWITCH WITH HOR SWITCH. LCP SHALL BE A MINIMUM OF 12"x6"x8".

**FINE SCREENS ELECTRICAL PLAN**



**ELECTRICAL LEGEND**

- L3 DAY-BRITE 48W 1'X4' WET LOCATION LED FIXTURE MODEL DWAE43LB40-4-UNV OR APPROVED EQUAL
- (L10) MAXLITE LED FULL CUTOFF 40W WALL LIGHT (WALL PACK) WITH PHOTO CELL CONTROL. MODEL MLLWP40LED50DS0PC12 OR APPROVED EQUAL.
- (D) DUPLEX OUTLET
- (G) GFCI PROTECTED OUTLET
- (WP) WEATHER-PROOF OUTLET GFCI PROTECTED.
- (A) DEVICES WITH SAME LETTER CODE (I.E. A,B,C) REPRESENT DEVICES ON SAME CIRCUIT.



533 W 2600 S, Suite 25  
Bountiful, Utah 84010  
Phone: (801) 677-0011  
WWW.SKMEERING.COM

DRAWING IS TO SCALE  
1" = FULL SCALE  
1/2" = HALF SCALE

ORIGINAL		DESIGN	DRAWN	CHECKED
NO.	DATE	MPJ	DCL	MPJ
C	09/05/18	MPJ	DCL	MPJ
REVISIONS		MPJ	BB	MPJ
1	11/26/18	MPJ	DCL	MPJ
2	02/25/19	MPJ	DCL	MPJ

**CITY OF BEAUMONT**  
**SALT MITIGATION WWTP UPGRADE**  
**ELECTRICAL - LAYOUT**  
**FINE SCREENS ELECTRICAL PLAN**

**AQUA ENGINEERING**  
533 W. 2600 S., SUITE 275, BOUNTIFUL, UT 84010  
PHONE (801) 299-1327 FAX (801) 269-0153

**ALBERT A. WEBB ASSOCIATES**  
ENGINEERING CONSULTANTS  
1788 JACKSON STREET  
BOULDER, CO 80501  
PH (951) 686-1070  
FAX (951) 788-1256

THIS DRAWING IS PROPERTY OF SKM ENGINEERING AND IS TRANSMITTED IN CONFERENCE NEITHER RECEIPT NOR POSSESSION CONFERS OR TRANSFERS ANY RIGHTS TO REPRODUCE, USE, OR DISCLOSE, IN WHOLE OR IN PART, DATA CONTAINED HEREIN FOR ANY PURPOSE WITHOUT THE WRITTEN PERMISSION OF SKM ENGINEERING. © COPYRIGHTED 2018 BOUNTIFUL, UT





Table with columns: CONDUIT, SIZE, CONDUCTORS, SERVICE, FROM, TO, COMBINED, DUCTBANKS, NOTES. Lists various conduit specifications and routing details.

NOTES:
1. CONDUITS THAT ARE COMBINED BETWEEN PULL POINTS ARE DENOTED WITH A + (PLUS) SYMBOL. SEE THE COMBINED CONDUITS SCHEDULE ON SHEET CE-11. CONDUITS THAT HAVE BEEN COMBINED SHALL BE LABELED WITH MULTIPLE CONDUIT TAGS, ONE FOR EACH CONDUIT THAT HAS BEEN COMBINED.
2. THE CONDUIT DEVELOPMENT AND SCHEDULE DOES NOT SHOW CONDUIT AND CONDUCTORS FOR LIGHTS, RECEPTACLES AND DATA JACKS. IT ALSO DOESN'T SHOW CONDUIT AND CONDUCTORS FOR THE MBR BUILDING'S HVAC AND APPLIANCES FOR THE OFFICE, BREAK ROOM, CONTROL ROOM, LAB, MECHANICAL ROOM AND RESTROOMS. THE CONTRACTOR IS RESPONSIBLE TO INCLUDE THESE CONDUITS AND CONDUCTORS IN THEIR WORK AND IN THEIR SUBMITTED CONDUIT ROUTING PLAN.

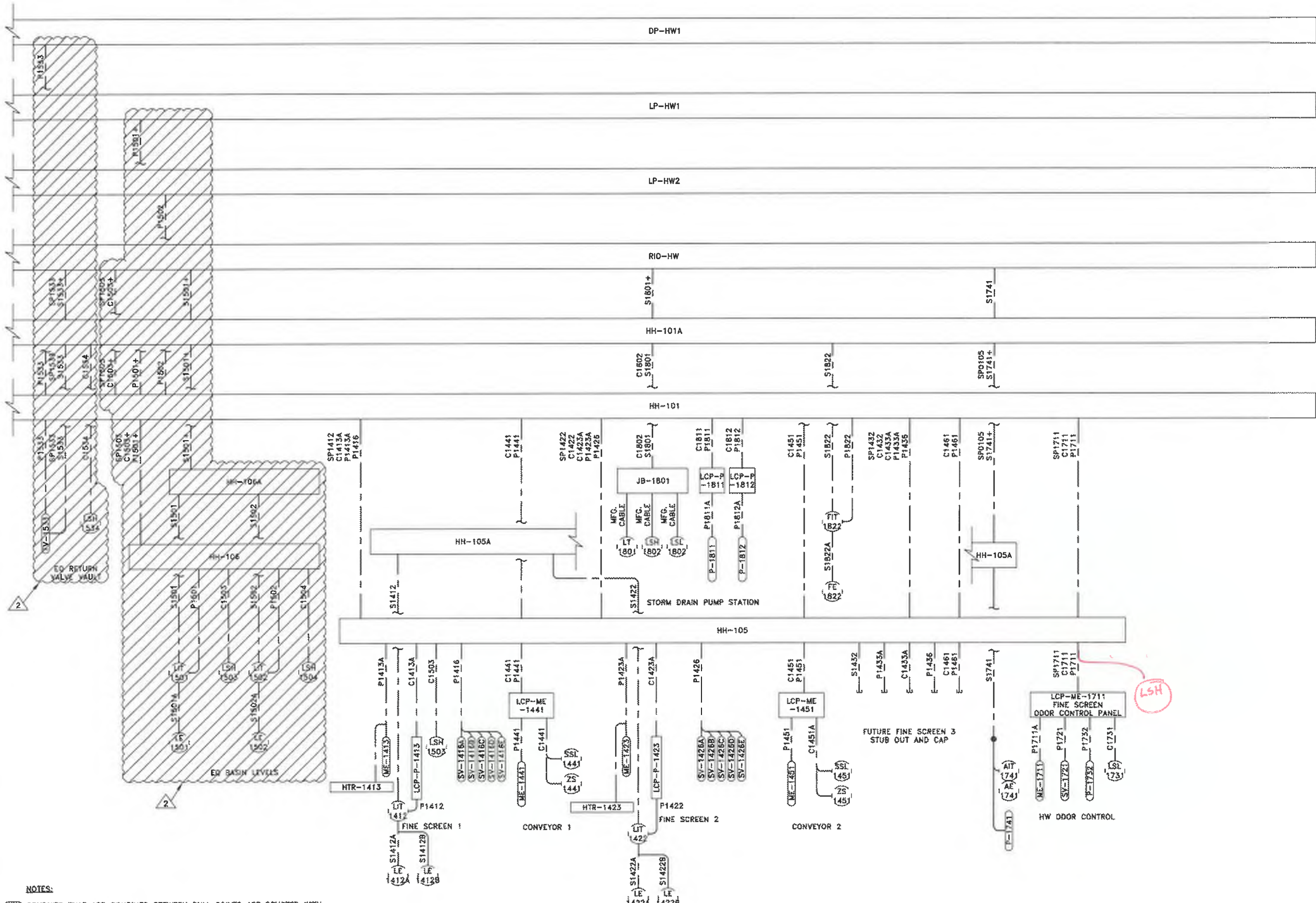
CITY OF BEAUMONT
SALT MITIGATION WWTP UPGRADE
ELECTRICAL - CONDUITS AND DUCTBANKS
CONDUIT SCHEDULE 5

ACQUA ENGINEERING logo and contact information: 533 W 2600 S, SUITE 25, BOUNTIFUL, UT 84010. PHONE (801) 288-1327, FAX (801) 288-0153.

skm logo and contact information: 533 W 2600 S, Suite 25, Bountiful, Utah 84010. Phone: (801) 677-0011, www.skmeng.com.

ALBERT A. WEBB ASSOCIATES logo and contact information: 3708 MCCRAY STREET, BOUNTIFUL, UT 84010. PHONE (801) 288-1070, FAX (801) 788-1258.

Revision table with columns: NO., DATE, DESIGN, DRAWN, CHECKED. Lists revision 1 through 3.



**NOTES:**

- ① CONDUITS THAT ARE COMBINED BETWEEN PULL POINTS ARE DENOTED WITH A + (PLUS) SYMBOL. SEE THE COMBINED CONDUITS SCHEDULE ON SHEET CE-11. CONDUITS THAT HAVE BEEN COMBINED SHALL BE LABELED WITH MULTIPLE CONDUIT TAGS, ONE FOR EACH CONDUIT THAT HAS BEEN COMBINED.
- ② THE CONDUIT DEVELOPMENT AND SCHEDULE DOES NOT SHOW CONDUIT AND CONDUCTORS FOR LIGHTS, RECEPTACLES AND DATA JACKS. IT ALSO DOESN'T SHOW CONDUIT AND CONDUCTORS FOR THE MBR BUILDING'S HVAC AND APPLIANCES FOR THE OFFICE, BREAK ROOM, CONTROL ROOM, LAB, MECHANICAL ROOM AND RESTROOMS. THE CONTRACTOR IS RESPONSIBLE TO INCLUDE THESE CONDUITS AND CONDUCTORS IN THEIR WORK AND IN THEIR SUBMITTED CONDUIT ROUTING PLAN.



533 W 2600 S, Suite 25  
Bountiful, Utah 84010  
Phone: (801) 677-0011  
www.skmeng.com

**ALBERT A. WEBB**  
CIVIL ENGINEERS  
3788 McCRAY STREET  
RYERSIDE, CA 92508  
PH. (951) 686-1070  
FAX (951) 788-1256

**ASSOCIATES**  
ENGINEERING CONSULTANTS

**CITY OF BEAUMONT**  
**SALT MITIGATION WWTP UPGRADE**  
**ELECTRICAL - CONDUITS AND DUCTBANKS**  
**CONDUIT DEVELOPMENT 7**

NO.	DATE	DESIGN	DRAWN	CHECKED
C	09/05/18	MPJ	DCL	MPJ
REVISIONS				
1	11/26/18	MPJ	BB	MPJ
2	10/11/19	MPJ	DCL	MPJ

THIS DRAWING IS PROPERTY OF SKM ENGINEERING AND IS TRANSMITTED IN CONFIDENCE WHETHER RECEIPT, NO. POSSESSION CONFERS OR TRANSFERS ANY RIGHTS TO REPRODUCE, USE, OR DISCLOSE, IN WHOLE OR IN PART, DATA CONTAINED HEREIN FOR ANY PURPOSE WITHOUT THE WRITTEN PERMISSION OF SKM ENGINEERING. © COPYRIGHTED 2019 BOUNTIFUL, UTAH.

**Technical Justification:**

PCO-46	
Design Adjustment: WML COP-051 CLAR-37	MBR – Addition of Influent Gate MOV Actuators

Reason for Design Changes:

**System Required Change to Optimized Operation and Maintenance:** The operation of the MBR system is a SCADA programmed controlled process with all the equipment associated with system networked together. Isolation slide gates proceed each of the four MBR Trains and are used to stop flow to the train for weekly routine cleanings and when long duration maintenance events are required. The current gates are manually operated requiring City staff to man the gates whenever the electronic system requests the gates to be opened and closed, be it for normal scheduled cleanings or an emergency shutdown occurrence. The day to day on duty City Staff team is required to work offsite as well as onsite during their shifts and may not be available to operate the manual gates in timely manner.

Design and Scope Changes:

- Please provide and replace the manual slide gate actuators with MOV actuators as described below.
- All of the MBR influent gates (G-3101, G-3201, G-3301, G-3401 and future G-3501\*) have been updated to operate via motorized actuators (see PI-09 and LE-09). The actuators will be powered with 120VAC from LP-MB3, as shown on E-15 and E-23. Signal will be 24V and feed back to RIO-MB (see I-16 and I-17). Existing conduits will be used to provide both power and signal wiring. Two #12 wires and a #12 ground will be added to each of the power conduits: P3191, P3291, P3391 and P3491. Future conduit P3591 will be used to power future gate G-3501. See drawings CE-02 and CE-22. Eight #14 wires will be added to each signal conduit: S3192, S3292, S3392 and S3492. Future conduit S3592 will be used to provide signal to future gate G-3501. See drawings CE-07 and CE-22.
- In addition, modifications to the actual slide gates are required. The required modifications are generally limited to stem replacement and providing supports for actuator mounting. Attached to this clarification are pertinent drawings from Hydro Gate and proposals received to date. All dimensions shall be verified and coordinated with vendor prior to construction. Final actuator data and gate drawings shall be provided to the Engineer for review and approval.
- Cost proposal shall include all necessary costs for labor and miscellaneous materials to perform this change. Contractor shall not perform any work until change has been approved by the City.

Cost Impact:

MWH and design engineer, Aqua, has reviewed the attached WML cost proposal and find it acceptable. Accordingly, MWHC recommends a contract cost increase of \$58,795.50 to be executed in a change order for the modifications requested.

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

**CHANGE ORDER PROPOSAL (COP) # 051  
(By Contractor)**

<b>To (Engineer/CM):</b> MWH Constructors Attention: Charles Reynolds Phone: 702-497-8024 Email: Charles.w.reynolds@stantec.com	<b>From (Contractor):</b> W.M. Lyles Co. Attention: Oscar Mendoza Phone: 619-565-6064 Email: omendoza@wmlylesco.com
<b>PCO/DCM No.:</b> CLAR-37, DCM-31	
<b>Subject:</b> MBR Influent Gate Actuators	
<b>Reference Documents:</b> Attached	
<b>DESCRIPTION</b>	
This COP is to install new electric actuators and stems on gates G-3101, G-3201, G-3301 and G-3401 per CLAR 037.	
<b>COST ESTIMATE</b>	
Total Cost : \$ 58,795.50 – see attached breakdown	
<b>SCHEDULE IMPACT</b>	
<b>Received by MWH Constructors (Date):</b>	

**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

2/4/2021

Reference #: CLAR-37, DCM-31

Attention: Charles W. Reynolds

City of Beaumont WWTP Salt Mitigation Upgrade Project

DESCRIPTION: MBR Influent Gate Actuators

Item:		Unit	Total MH	Total MH Cost	Eq. Cost	Material	Subcont.	Total Cost
1	MBR Influent Gate Actuators	1 LS	96	\$ 7,545.59	\$ 1,005.81	\$ 25,670.36	\$ 18,024.52	\$ 52,246.28
2		1 LS	0	\$ -	\$ -	\$ -	\$ -	\$ -
3		1 LS	0	\$ -	\$ -	\$ -	\$ -	\$ -
		1 LS	0	\$ -	\$ -	\$ -	\$ -	\$ -
Total Costs			96	\$ 7,545.59	\$ 1,005.81	\$ 25,670.36	\$ 18,024.52	\$ 52,246.28

Subtotal		\$ 52,246.28
Mark-up - Labor	15%	\$ 1,131.84
Mark-up - Equipment	15%	\$ 150.87
Mark-up - Materials	15%	\$ 3,850.55
Mark-up - Subcontractor	5%	\$ 901.23
Bond	1.0%	\$ 582.81
<b>Total This Change Order</b>		<b>\$ 58,863.58</b>

Comments:

**City of Beaumont WWTP Salt Mitigation Upgrade Project**

**MBR Influent Gate Actuators**

###

**A. Labor**

Description	Lab Pipe FM			Lab Pipe			Operator			Carp FM			Carp			Lab			Cement Mason			
	ST	PT	DT	ST	PT	DT	ST	PT	DT	ST	PT	DT	ST	PT	DT	ST	PT	DT	ST	PT	DT	
Installation of Influent Gate Actuators	32			64																		
	32	0	0	64	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Name	Rate			Hours			Extension	
	ST	PT	DT	ST	PT	DT		
Lab Pipe FM	\$80.34		\$107.19	\$134.03	32	0	0	\$2,571.00
Lab Pipe	\$77.73		\$103.27	\$128.79	64	0	0	\$4,974.59
Operator	\$98.67		\$131.84	\$165.00	0	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	\$0.00
					96	0	0	
					<b>Total Labor =</b>			<b>\$7,545.59</b>

**B. Equipment**

Description	17.12	32.037	31.028	30.048	20.041	35.064	Rent
Installation of Influent Gate Actuators	32	1					
	32	1	0	0	0	0	0

Number	Description	Rate	Hours	Extension	
17.12	Foreman Truck	\$29.60	32	\$947.20	
32.037	ReachliftXtremeXR1055	\$58.61	1	\$58.61	
31.028	Hydro Crane - 80 TonLink BeltRTC-8080 II 80 Ton	\$164.01	0	\$0.00	
30.048	Loader Backhoe 410John Deere410L	\$64.30	0	\$0.00	
20.041	ExcavatorJohn Deere350GLC	\$151.12	0	\$0.00	
35.064	LoaderJohn Deere644J	\$123.00	0	\$0.00	
17	Foreman Truck	\$29.60	0	\$0.00	
20.041	ExcavatorJohn Deere350GLC	\$151.12	0	\$0.00	
35.064	LoaderJohn Deere644J	\$123.00	0	\$0.00	
Rent	Owner Op dump trucks	\$100.00	0	\$0.00	
			33		
			<b>Total Equipment =</b>		<b>\$1,005.81</b>

**C. Materials**

	Quantity	Unit	Price	Extension
Electric Actuator with Stem Replacement (HydroGate)	4	ea	\$ 5,956.00	\$23,824.00
Tax	7.750%			\$1,846.36
			Subtotal	\$25,670.36
			Freight	
			<b>Total Material =</b>	<b>\$25,670.36</b>

**D. Subcontractor**

	Quantity	Unit	Price	Extension
Southern Contracting	1	LS	\$18,024.52	\$18,024.52
			<b>Total Subcontract =</b>	<b>\$18,024.52</b>



Southern Contracting Company  
P.O. Box 445 San Marcos, CA 92079-0445  
Tel 760-744-0760 Fax 760-744-6475  
website: www.southerncontracting.com  
email: info@southerncontracting.com

## Change Order Request

**103801 — Wastewater Treatment Plant Salt Mitigation Upgrade**

**COR Subject: COR#026 CLAR-037 MBR Influent Gate Actuators**

**To**                    **Juan C. Ahumada**  
**W.M. Lyles**  
**42142 Roick Drive**  
**Temecula, CA 92590**  
**951-973-7393**

**Contract No: 55.1173**  
**COR Number: 103801-COR#026**  
**COR Revision Number: 0**  
COR Date: 12/17/2020  
Work Type: Price / Do Not Proceed  
Other Reference No: CLAR-037  
Days Valid: 5

**Return To**        **Dan Alcantar**  
**Southern Contracting Company**  
**760-744-0760x621**  
**619-778-0681**  
**DAlcantar@southerncontracting.com**

### Scope Of Work / Time Extension Request

The work associated with CLAR-037 MBR Influent Gate Actuators is a change to Southern Contracting Company's scope of work in which a change in Contract Price and Time is to be considered. Accordingly, Southern Contracting Company requests a Contract Change Order in the amount of \$18,024.52

Scope of Work is as follows:

-Provide materials and labor to support electrical installation to MBR influent gates (G-3101, G-3201, G-3301, G-3401 and future G-3501\*) actuators. Per the CLAR-037 MBR gates have been updated to operate via motorized actuators. Include conduit, wire, terminations and assist power up of actuators with the actuator rep. Includes Loop Drawing Modifications.

Exclusions: Set up of network, programming, actuator installation, welding, fabrication, paint, surface restoration. Overtime.

Change in time: 5 days

Southern Contracting reserves all rights to additional costs and time for changes not identified in the documents furnished, and is not responsible for additional costs or time for work which is not part of our contract scope of work, unless stipulated above. Should additional information or clarification be required, please contact me at your convenience.

### Summary

**Total:                    \$18,024.52**



---

## Reservation of Rights

This COR does not include any amount for impacts such as interference, disruptions, rescheduling, changes in the sequence of work, delays and/or associated acceleration. We expressly reserve the right to submit our request for any of these items.

---

Signed By:



**Daniel Alcantar**

**PM**

**Dated:** 12/17/2020

## Bid Summary Report

103801 Beaumont Chang Orders Estimator: Dan Alcantar

Job #2336

**Job Name:** 103801 Beaumont Chang Orders

**Contractor:**

**Estimator:** Dan Alcantar

**Notes:**

**Bid Date:**

Summary Description	Material			Labor		
	Extended	%	Adjusted	Extended	%	Adjusted
COR#026 CLAR-037 MBR Influent Gate Actuators	\$2,455.58	100.00%	\$2,455.58	97.87	100.00%	97.87

### Top Sheet

Raw Cost	\$15,328.01	Sales per Month	\$0.00
Tax	\$190.31	Return per Month	\$0.00
Raw Cost with Tax	\$15,518.31	Price per Square Foot	\$0.00
Overhead	\$2,327.75	Hours per Square Foot	0.00
Profit	\$0.00	Square Feet	0.00
Total Return Amount	\$2,327.75	Job Months	0.00
Total Return %	12.91%	Hours per Week	0.00
Price	\$17,846.06	Workers per Day	0.00
Bond	\$178.46	Total Hours	97.87
Sell Price	<b>\$18,024.52</b>	Markup Sales Tax (Overhead)	Yes
Adjusted Sell ( )	\$0.00	Markup Sales Tax (Profit)	Yes
Adjusted Sell Return 0.00 %	\$0.00	Use Bond Table	Yes

### Labor

Class Description	Percent of Total	Hours Distributed	Hourly Rate	Burden		Labor Cost
				Rate	Percent	
Journeyman	100.00%	97.87	\$85.51	\$0.00	0.00%	\$8,368.72
PM	8.17%	8.00	\$99.77	\$0.00	0.00%	\$798.16
Startup Testing JW	6.13%	6.00	\$78.74	\$0.00	0.00%	\$472.44
<b>Totals</b>	<b>114.30%</b>	<b>111.87</b>	<b>\$86.17</b>	<b>\$0.00</b>	<b>0.00%</b>	<b>\$9,639.32</b>

### Mark Ups

	OVERHEAD			PROFIT		
	Total	%	Amount	%	Amount	
Materials	\$2,455.58	+ 15.00%	\$2,823.91	+ 0.00%	\$2,823.91	
Labor	\$9,639.32	+ 15.00%	\$11,085.22	+ 0.00%	\$11,085.22	

## Bid Summary Report

103801 Beaumont Chang Orders Estimator: Dan Alcantar

Job #2336

Supplier Quotes	\$650.00	+	15.00%	\$747.50	+	0.00%	\$747.50
SubContractors	\$0.00	+	5.00%	\$0.00	+	0.00%	\$0.00
Direct Job Expense	\$2,583.11	+	15.00%	\$2,970.58	+	0.00%	\$2,970.58
Equipment Rental	\$0.00	+	15.00%	\$0.00	+	0.00%	\$0.00
<b>Totals</b>	<b>\$15,328.01</b>		<b>15.00%</b>	<b>\$17,627.21</b>		<b>0.00%</b>	<b>\$17,627.21</b>

### Tax Report

	Taxed Amount	Tax Rate %	Tax Amount
Materials	\$2,455.58	7.75%	\$190.31
Labor	\$9,639.32	0.00%	\$0.00
Supplier Quotes	\$0.00	0.00%	\$0.00
SubContractors	\$0.00	0.00%	\$0.00
Direct Job Expense	\$0.00	0.00%	\$0.00
Equipment Rental	\$0.00	0.00%	\$0.00
		<b>Total Tax:</b>	<b>\$190.31</b>

### Supplier Quotes

Name	Supplier	Tax (0.0 %)	Unit Cost	Multiplier	Amount
Loop Drawings		No	\$650.00	1.00	\$650.00
				<b>Total:</b>	<b>\$650.00</b>

### Direct Job Expense

Name	Supplier	Tax (0.0 %)	Unit Cost	Multiplier	Amount
Site Truck		No	\$26.63	97.00	\$2,583.11
				<b>Total:</b>	<b>\$2,583.11</b>

Job Name: 103801 Beaumont Chang Orders

Job Number: 2336

Extension Name: COR#026 CLAR-037 MBR Influent Gate Actuators

**[Items and ByProducts]**

Material Filter: <None>

Report: COR - 2

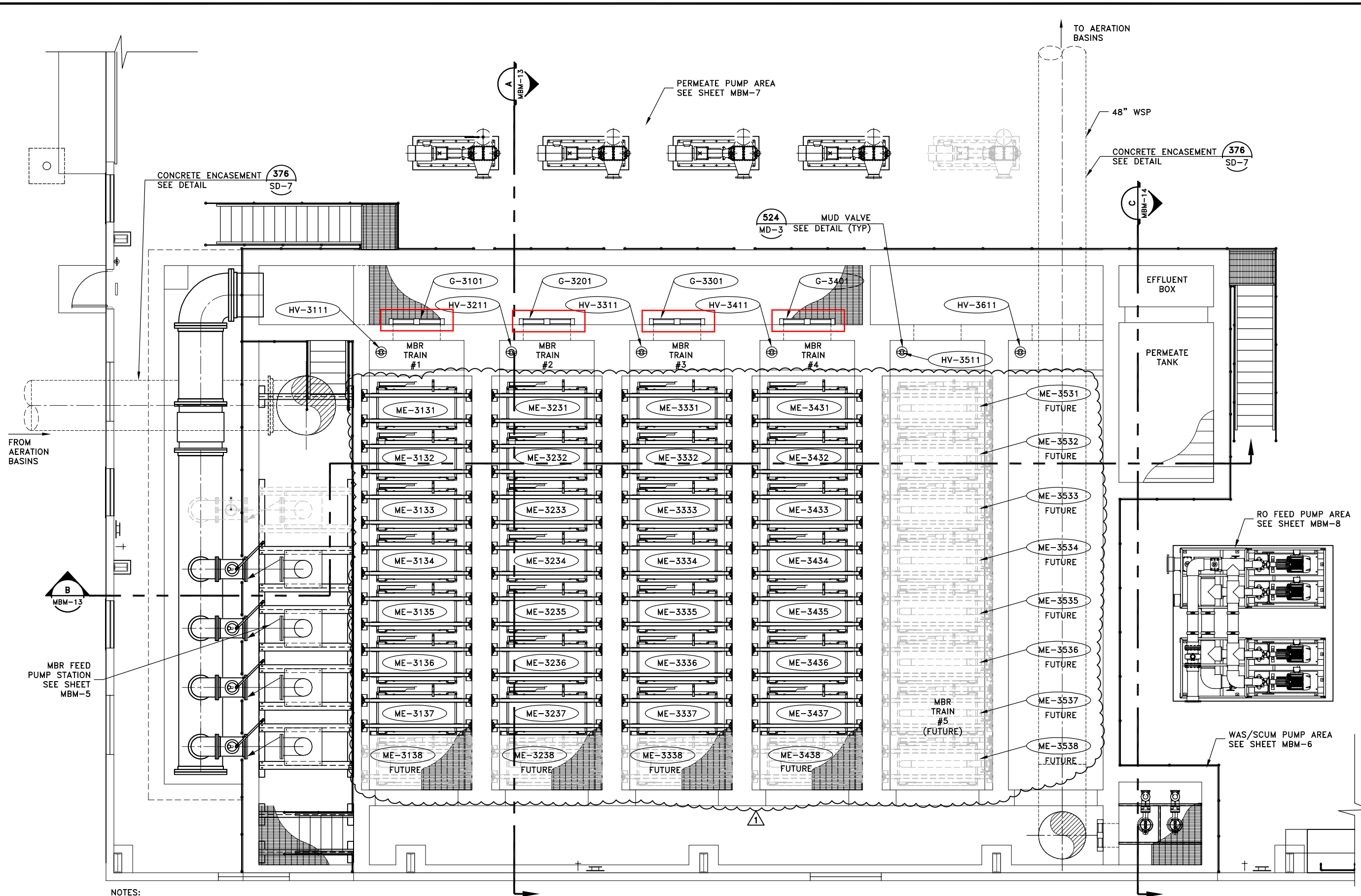
Item #	Item Name	Quantity	Unit Price	U	Ext Price	Unit Labor	U	Ext Labor
Label Set: Combined, Combined, Combined, Combined, Combined					<b><u>\$2,455.58</u></b>			<b><u>97.87</u></b>
Cost Code: 010 - Conduit/Raceway					<u>\$1,390.54</u>			<u>38.31</u>
1,975	1-1/2 REDUCING BUSHING	8.00	\$406.00	C	\$32.48	25.12	C	2.01
2,615	1/4" SS WEDGE ANCHOR	16.00	\$230.00	C	\$36.80	20.10	C	3.22
2,616	3/8" SS WEDGE ANCHOR	22.00	\$577.50	C	\$127.05	22.61	C	4.97
2,675	1 5/8 STRUT-STAINLESS	20.00	\$1,187.50	C	\$237.50	18.84	C	3.77
2,701	3/4 GRC/PVC COATED	120.00	\$474.52	C	\$569.43	10.05	C	12.06
2,715	3/4 GRC/PVC COUP	16.00	\$493.74	C	\$79.00	11.30	C	1.81
2,730	3/4 GRC/PVC ELBOW	6.00	\$1,758.82	C	\$105.53	69.08	C	4.14
3,098	3/4 GRC/PVC C105 STRP	24.00	\$253.52	C	\$60.84	3.77	C	0.90
3,873	1/2 FLEX WP	40.00	\$118.80	C	\$47.52	7.54	C	3.01
3,903	1/2 FLEX WP CONN,IT	8.00	\$495.63	C	\$39.65	15.07	C	1.21
3,963	1/2 FLEX WP 90 CON,IT	8.00	\$684.21	C	\$54.74	15.07	C	1.21
Cost Code: 020 - Wire/Cable					<u>\$1,065.04</u>			<u>59.56</u>
43	14 THHN CU STRANDED	5,000.00	\$84.86	M	\$424.32	6.28	M	31.40
44	12 THHN CU STRANDED	1,200.00	\$130.18	M	\$156.21	7.54	M	9.04
4,149	14 GA TERMINATION	72.00	\$300.00	C	\$216.00	0.15	E	10.85
4,150	12 GA TERMINATION	16.00	\$110.00	C	\$17.60	0.19	E	3.01
4,220	GROUND SCREW/WIRE	16.00	\$18.00	C	\$2.88	12.56	C	2.01
4,224	SCOTCH TAPE - 33+	1.00	\$6.16	E	\$6.16	1.26	E	1.26
4,234	YELLOW WIRE NUT	88.00	\$24.85	C	\$21.87	1.26	C	1.11
60,050	Wire Tags Tube Style	88.00	\$250.00	C	\$220.00	1.00	C	0.88
<b>[Items and ByProducts] Total:</b>					<b><u>\$2,455.58</u></b>			<b><u>97.87</u></b>

**CITY OF BEAUMONT WASTEWATER TREATMENT PLANT  
SALT MITIGATION UPGRADE PROJECT**

**CLARIFICATION 37**

<b>To (Construction Manager):</b> Stantec Attention: Charles Reynolds Phone: 702-497-8024 Email: Charles.w.reynolds@stantec.com	
<b>From (Engineer):</b> AQUA Engineering Attention: Boris Petkovic Phone: 801-683-3746 Email: boris.petkovic@aquaeng.com	
<b>Subject:</b> MBR Influent Gate Actuators	<b>Location:</b> MBR Building
<b>Reference Documents:</b> Drawing Nos. MBM- 5, PI-09, I-16, I-17, LE-09, E-15, E-23, CE-02, CE-07, CE-22	
<b>CLARIFICATION</b>	
<p><b>Note the following:</b></p> <p>All of the MBR influent gates (G-3101, G-3201, G-3301, G-3401 and future G-3501*) have been updated to operate via motorized actuators (see PI-09 and LE-09). The actuators will be powered with 120VAC from LP-MB3, as shown on E-15 and E-23. Signal will be 24V and feed back to RIO-MB (see I-16 and I-17). Existing conduits will be used to provide both power and signal wiring. Two #12 wires and a #12 ground will be added to each of the power conduits: P3191, P3291, P3391 and P3491. Future conduit P3591 will be used to power future gate G-3501. See drawings CE-02 and CE-22. Eight #14 wires will be added to each signal conduit: S3192, S3292, S3392 and S3492. Future conduit S3592 will be used to provide signal to future gate G-3501. See drawings CE-07 and CE-22.</p> <p>In addition, modifications to the actual slide gates are required. The required modifications are generally limited to stem replacement and providing supports for actuator mounting. Attached to this clarification are pertinent drawings from Hydro Gate and proposals received to date. All dimensions shall be verified and coordinated with vendor prior to construction. Final actuator data and gate drawings shall be provided to the Engineer for review and approval.</p> <p><b>*At this time, the scope of supply shall not include the actuator, gate, or labor for future gate G-3501.</b></p>	
<b>Prepared By (Name):</b> Mark Jeppsen, SKM Engineering Boris Petkovic, AQUA Engineering	<b>Date:</b> 12/03/2020
<b>Distributed By:</b>	<b>Date:</b>

CAL 01/18/2019 X:\Beaumont\Salt Mitigation WWP Upgrade WEBB\0227\Drafting\MBR BLDG\MBM-2.dwg



**NOTES:**

- 1- FOR MECHANICAL EQUIPMENT, GATE, PUMP, AND VALVE SCHEDULES REFER TO SCHEDULE DRAWINGS.
- 2- FOR PIPING SCHEDULE REFER TO DRAWING MBM-30.
- 3- BURIED RAS PIPE SHALL BE FULLY WELDED WITHOUT MECHANICAL JOINTS. PIPE SHALL BE PRESSURE TESTED PRIOR TO BACKFILL.

**MBR AREA MECHANICAL PLAN**

SCALE: 1/4" = 1'-0"  
 0 4 8  
 Scale in Feet

0 1/2 1  
 DRAWING IS TO SCALE  
 IF BAR MEASURES:  
 1" = FULL SCALE  
 1/2" = HALF SCALE

THIS DRAWING IS PROPERTY OF AQUA ENGINEERING, INC. AND IS TRANSMITTED IN CONFIDENCE. NEITHER RECEIPT NOR POSSESSION CONFERS OR TRANSFERS ANY RIGHTS TO REPRODUCE, USE, OR DISCLOSE, IN WHOLE OR IN PART, DATA CONTAINED HEREIN FOR ANY PURPOSE WITHOUT THE WRITTEN PERMISSION OF AQUA ENGINEERING, INC. © COPYRIGHTED 2016 BOUNTIFUL, UTAH

NO.	DATE	DESIGN	DRAWN	CHECKED	REVISIONS	
					BP	JRL
C	09/05/18				BP	JRL
1	01/18/19				BP	JRL

CITY OF BEAUMONT  
 SALT MITIGATION WWP UPGRADE  
 MEMBRANE BUILDING  
 MBR AREA MECHANICAL PLAN

**AQUA**  
 ENGINEERING

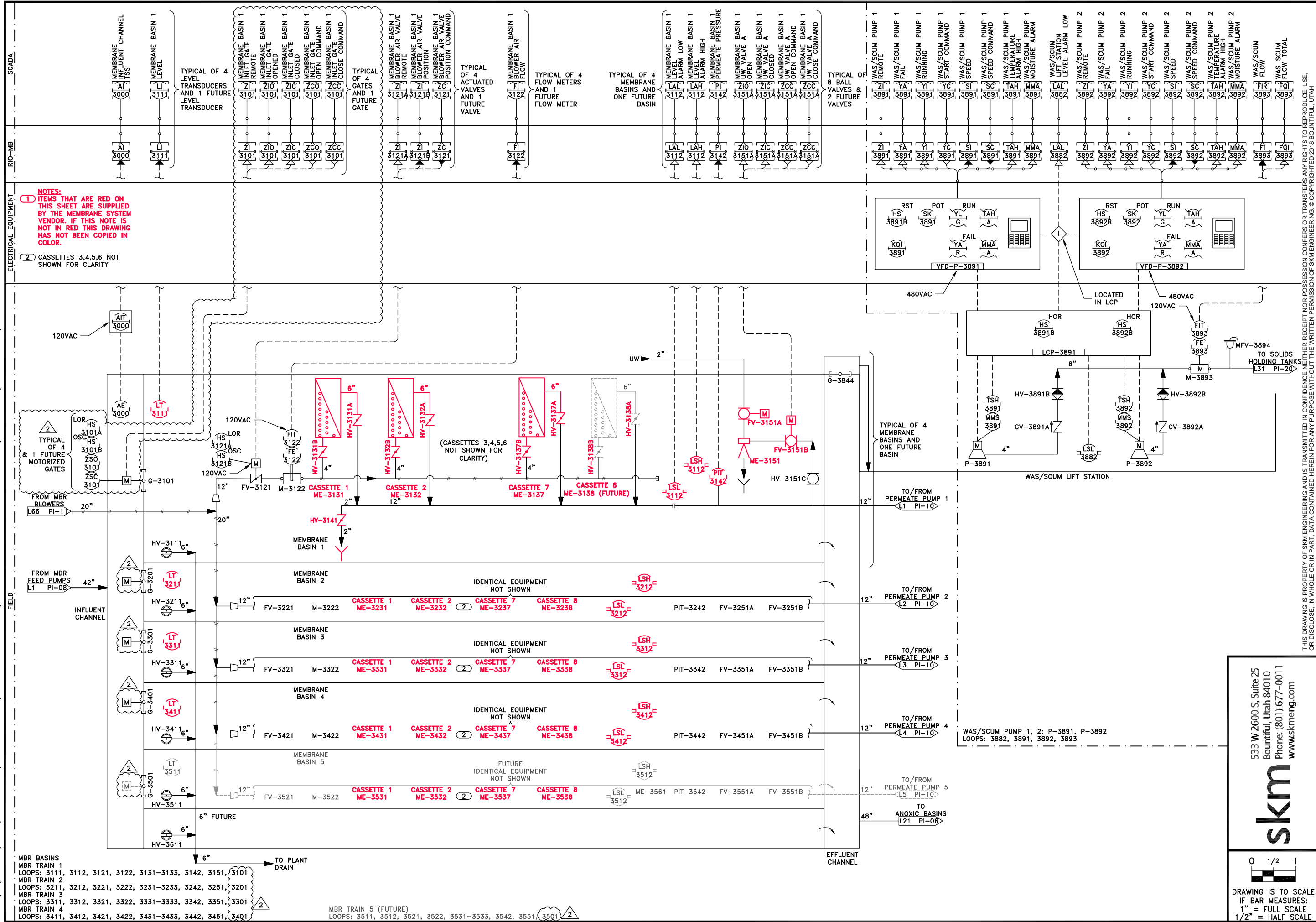
593 W. 2600 S. SUITE 275 BOUNTIFUL, UT 84010  
 PHONE (801) 299-1327 FAX (801) 299-0153

**ALBERT A. WEBB**  
 CIVIL ENGINEERS  
 3788 McCRAV STREET  
 RIVERSIDE CA 92506  
 PH. (951) 686-1070  
 FAX (951) 788-1256

**ASSOCIATES**  
 ENGINEERING CONSULTANTS

SHEET  
**MBM-2**

10/26/2020 C:\USERS\DAVID.LEVITT\AQUA ENGINEERING\BEAUMONT - DOCUMENTS\WEBB170227 SALT MITIGATION WWTP UPGRADE\050 DRAFTING\997 ELECTRICAL\01 PI-09 MEMBRANE BASINS.DWG



- MBR BASINS
- MBR TRAIN 1  
LOOPS: 3111, 3112, 3121, 3122, 3131-3133, 3142, 3151, 3101
- MBR TRAIN 2  
LOOPS: 3211, 3212, 3221, 3222, 3231-3233, 3242, 3251, 3201
- MBR TRAIN 3  
LOOPS: 3311, 3312, 3321, 3322, 3331-3333, 3342, 3351, 3301
- MBR TRAIN 4  
LOOPS: 3411, 3412, 3421, 3422, 3431-3433, 3442, 3451, 3401
- MBR TRAIN 5 (FUTURE)  
LOOPS: 3511, 3512, 3521, 3522, 3531-3533, 3542, 3551, 3501

- NOTES:**
- ITEMS THAT ARE RED ON THIS SHEET ARE SUPPLIED BY THE MEMBRANE SYSTEM VENDOR. IF THIS NOTE IS NOT IN RED THIS DRAWING HAS NOT BEEN COPIED IN COLOR.
  - CASSETTES 3,4,5,6 NOT SHOWN FOR CLARITY

NO.	DATE	DESIGN	DRAWN	CHECKED
AB	04/24/20	MPJ	DCL	MPJ
REVISIONS				
1	01/18/19	MPJ	DCL	MPJ
2	10/26/20	MPJ	DCL	MPJ

CITY OF BEAUMONT  
SALT MITIGATION WWTP UPGRADE  
INSTRUMENTATION - P&IDs  
MEMBRANE BASINS



skm  
533 W 2600 S, Suite 25  
Bountiful, Utah 84010  
Phone: (801) 677-0011  
www.skmeng.com

ALBERT A. WEBB  
CIVIL ENGINEERS  
3788 MCCRAY STREET  
RIVERSIDE CA 92506  
PH. (951) 686-1070  
FAX (951) 788-1256  
ENGINEERING CONSULTANTS

0 1/2 1  
DRAWING IS TO SCALE  
IF BAR MEASURES:  
1" = FULL SCALE  
1/2" = HALF SCALE

SHEET 13 OF 172  
PI-09

THIS DRAWING IS PROPERTY OF SKM ENGINEERING AND IS TRANSMITTED IN CONFIDENCE. NEITHER RECEIPT NOR POSSESSION CONFERS OR TRANSFERS ANY RIGHTS TO REPRODUCE, USE, OR DISCLOSE, IN WHOLE OR IN PART, DATA CONTAINED HEREIN FOR ANY PURPOSE WITHOUT THE WRITTEN PERMISSION OF SKM ENGINEERING. © COPYRIGHTED 2018 BOUNTIFUL, UTAH.

Table with columns: TYPE, LOOP POWERED, RACK/SLOT/POINT, TAGNAME, DESCRIPTION, P&ID SHEET, STATUS. Contains a list of installed spares and various commands for membrane basins, pumps, and valves.

I/O LIST RIO-MB CONTINUED

Table with columns: TYPE, LOOP POWERED, RACK/SLOT/POINT, TAGNAME, DESCRIPTION, P&ID SHEET, STATUS. Continuation of the I/O list for RIO-MB, including anoxic basins, aeration basins, and various pumps.

I/O LIST RIO-MB CONTINUED

Table with columns: TYPE, LOOP POWERED, RACK/SLOT/POINT, TAGNAME, DESCRIPTION, P&ID SHEET, STATUS. Continuation of the I/O list for RIO-MB, including membrane basins, blowers, and various pumps.

I/O LIST RIO-MB CONTINUED

skm logo and contact information: 533 W 2600 S, Suite 25 Bountiful, Utah 84010 Phone: (801) 677-0011 www.skmeng.com

ALBERT A. WEBB ASSOCIATES ENGINEERING CONSULTANTS CIVIL ENGINEERS 3788 MCCRAY STREET RIVERSIDE, CA 92506 PH. (951) 686-1070 FAX (951) 788-1256

Revision table with columns: NO., DATE, DESIGN, CHECKED, MPJ, DCL. Shows revisions 1, 2, and 3.

CITY OF BEAUMONT SALT MITIGATION WWTP UPGRADE INSTRUMENTATION - PLC DRAWINGS INPUT OUTPUT LIST III

533 W 2600 S, SUITE 25, BOUNTIFUL, UT 84010 PHONE (801) 288-1327 FAX (801) 288-0153

ALBERT A. WEBB ASSOCIATES ENGINEERING CONSULTANTS CIVIL ENGINEERS 3788 MCCRAY STREET RIVERSIDE, CA 92506 PH. (951) 686-1070 FAX (951) 788-1256

THIS DRAWING IS THE PROPERTY OF SKM ENGINEERING AND IS TRANSMITTED IN CONFIDENCE. NEITHER RECEIPT NOR POSSESSION CONFERS OR TRANSFERS ANY RIGHTS TO REPRODUCE, USE, OR DISCLOSE, IN WHOLE OR IN PART, DATA CONTAINED HEREIN FOR ANY PURPOSE WITHOUT THE WRITTEN PERMISSION OF SKM ENGINEERING. © COPYRIGHTED 2018 BOUNTIFUL, UTAH.

DRAWING IS TO SCALE IF BAR MEASURES: 1" = FULL SCALE 1/2" = HALF SCALE



Table with columns: TYPE, LOOP POWERED, RACK/SLOT/POINT, TAGNAME, DESCRIPTION, P&ID SHEET, STATUS. Contains I/O list for RIO-MB CONTINUED.

I/O LIST RIO-MB CONTINUED

Table with columns: TYPE, LOOP POWERED, RACK/SLOT/POINT, TAGNAME, DESCRIPTION, P&ID SHEET, STATUS. Contains I/O list for RIO-MB CONTINUED.

I/O LIST RIO-MB CONTINUED

Table with columns: TYPE, LOOP POWERED, RACK/SLOT/POINT, TAGNAME, DESCRIPTION, P&ID SHEET, STATUS. Contains I/O list for RIO-MB CONTINUED.

I/O LIST RIO-MB CONTINUED

Table with columns: TYPE, LOOP POWERED, RACK/SLOT/POINT, TAGNAME, DESCRIPTION, P&ID SHEET, STATUS. Contains I/O list for RIO-HW CONTINUED.

I/O LIST RIO-HW CONTINUED

NOTE: THE I/O LIST FOR RIO-HW IS CONTINUED FROM SHEET I-15.

Project information including address (533 W 2600 S, Suite 25), contact details for skm and WEBB CIVIL ENGINEERS, and drawing scale (1" = FULL SCALE).

Revision table with columns: NO., DATE, DESIGN, CHECKED, MPJ, DCL.

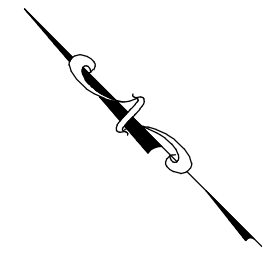
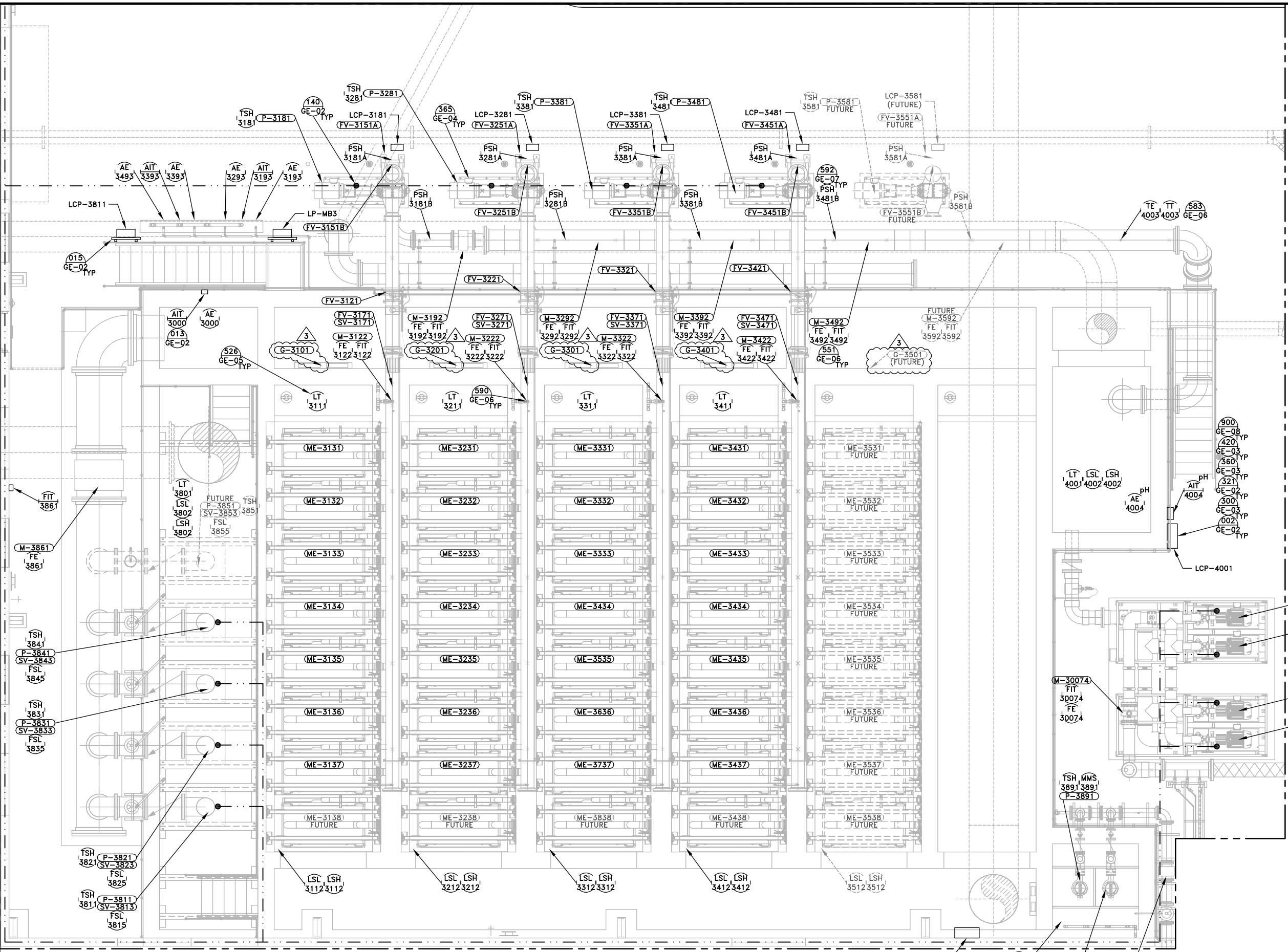
CITY OF BEAUMONT SALT MITIGATION WWTP UPGRADE INSTRUMENTATION - PLC DRAWINGS INPUT OUTPUT LIST IV

AQUA ENGINEERING logo and contact information.

ALBERT A. WEBB CIVIL ENGINEERS logo and contact information.

THIS DRAWING IS PROPERTY OF SKM ENGINEERING AND IS TRANSMITTED IN CONFIDENCE. NEITHER RECEIPT NOR POSSESSION CONFERS OR TRANSFERS ANY RIGHTS TO REPRODUCE, USE, OR DISCLOSE, IN WHOLE OR IN PART, DATA CONTAINED HEREIN FOR ANY PURPOSE WITHOUT THE WRITTEN PERMISSION OF SKM ENGINEERING. © COPYRIGHTED 2018 BOUNTIFUL, UTAH

10/26/2020 C:\USERS\DANIEL\LEAVITT\AQUA ENGINEERING\BEAUMONT - DOCUMENTS\WEBB170227 SALT MITIGATION WWTP UPGRADE\050 DRAFTING\997 ELECTRICAL\13 LE-09 MEMBRANE BLDG - PROCESS AREA 1.DWG



- NOTES:**
- 1 CONDUIT SHALL ONLY RUN EXPOSED WHERE NECESSARY. ALL EXPOSED CONDUIT SHALL BE PVC COATED GR. PANELS SHALL BE STAINLESS STEEL NEMA 4X.
  - 2 CONTRACTOR SHALL BE RESPONSIBLE FOR SUBMITTING CONDUIT DETAILS AND A CONDUIT ROUTING PLAN IN AUTOCAD FORMAT TO THE ELECTRICAL ENGINEER FOR APPROVAL.
  - 3 LIMIT EXPOSED CONDUITS, 90° BENDS, AND WALL PENETRATIONS. MAINTAIN SEPARATION BETWEEN SIGNAL AND POWER-CARRYING CONDUITS.

**MEMBRANE BLDG - PROCESS AREA 1**  
 1/4" = 1'-0"  
 0 4 8  
 Scale in Feet

THIS DRAWING IS PROPERTY OF SKM ENGINEERING AND IS TRANSMITTED IN CONFIDENCE NEITHER RECEIPT NOR POSSESSION CONFERS OR TRANSFERS ANY RIGHTS TO REPRODUCE, USE, OR DISCLOSE, IN WHOLE OR IN PART, DATA CONTAINED HEREIN FOR ANY PURPOSE WITHOUT THE WRITTEN PERMISSION OF SKM ENGINEERING. © COPYRIGHTED 2018 BOUNTIFUL, UTAH

NO.	DATE	DESIGN	DRAWN	CHECKED	REVISIONS		
					MPJ	DCL	MPJ
1	01/18/19	MPJ	DCL	MPJ	DCL	MPJ	MPJ
2	06/24/19	MPJ	DCL	MPJ	DCL	MPJ	MPJ
3	10/26/20	MPJ	DCL	MPJ	DCL	MPJ	MPJ

**CITY OF BEAUMONT**  
**SALT MITIGATION WWTP UPGRADE**  
**ELECTRICAL - LAYOUT**  
**MEMBRANE BLDG - PROCESS AREA 1**

**AQUA ENGINEERING**  
 593 W 2600 S, SUITE 275, BOUNTIFUL, UT 84010  
 PHONE (801) 288-1327 FAX (801) 288-0153

533 W 2600 S, Suite 25  
 Bountiful, Utah 84010  
 Phone: (801) 677-0011  
[www.skmeng.com](http://www.skmeng.com)

**ALBERT A. WEBB**  
 CIVIL ENGINEERS  
 3788 MCCRAY STREET  
 RIVERSIDE CA 92506  
 PH. (951) 686-1070  
 FAX (951) 788-1256

**ASSOCIATES**  
 ENGINEERING CONSULTANTS

**skm**

0 1/2 1  
 DRAWING IS TO SCALE  
 IF BAR MEASURES:  
 1" = FULL SCALE  
 1/2" = HALF SCALE

SHEET 102 OF 172

**LE-09**

PANEL	LP-MB2	VOLTAGE	120/208			MAIN CB 125 AMP			BUS AMPS 125 AMP			CIRCUIT DESCRIPTION
			CB TYPE	BOLT-ON	MOUNTING SURFACE	BUS A I C 22KA	PHASE B	PHASE C	CIRCUIT	BKR	BKR AIC 22KA	
CYC-48			38'1	1	1200							
AB 1&2 SOUTH LIGHTS / RECEPTACLES			20'1	3	600							
AB 1&2 NORTH LIGHTS / RECEPTACLES			20'1	5								
AIT-2162 ANOXIC / AEROBIC 1 ORP			15'1	7	100							
FV-2131 AERATION TANK 1 FLOW VALVE			15'1	9	720							
FIT-2132 AERATION TANK 1 AIR FLOW METER			15'1	11								
AIT-2151 AERATION BASIN 1 DO PROBE 1			15'1	13	190							
AIT-2152 AERATION BASIN 1 DO PROBE 2			15'1	15	190							
AIT-2262 ANOXIC / AEROBIC 2 ORP			15'1	17								
FV-2231 AERATION TANK 2 FLOW VALVE			15'1	19	720							
FIT-2232 AERATION TANK 2 AIR FLOW METER			15'1	21								
AIT-2251 AERATION BASIN 2 DO PROBE 1			15'1	23								
AIT-2252 AERATION BASIN 2 DO PROBE 2			15'1	25	190							
FIT-3693 WAS/SCUM FLOW METER			15'1	27	249							
PLC-RO			20'1	29								
RO-RO1			20'1	31	500							
RO-RO2			20'1	33	100							
RO-RO3			20'1	35								
RO-RO4			20'1	37	500							
RO-RO5			20'1	39								
RO-RO6 (FUTURE)			20'1	41								
AIT-4862 BRINE LINE pH			15'1	43	100							
AIT-4603 BRINE LINE CONDUCTIVITY			15'1	45	2500							
ME-4604 BRINE LINE SAMPLER			15'1	47								
FIT-4605 BRINE LINE FLOW METER			15'1	49	100							
BRINE VAULT LIGHTS-RECEPTACLE			20'1	51	200							
FIT-2764 DRAIN PUMP FLOW			20'1	53								
			20'1	55								
			20'1	57								
			20'1	59								
			20'1	61								
			20'1	63								
			20'1	65								
				67	2790							
				69								
				71								
CONNECTED VA PER PHASE					10689.0							
CONNECTED AMPS PER PHASE					86.1							
25% OF CONTINUOUS & LIGHTING LOAD (VA)					2672.3							
CODE VA PER PHASE					13361.3							
CODE AMPS PER PHASE					111.3							

**LP-MB2 LOAD CALCULATIONS**

PANEL	LP-MB3	VOLTAGE	120/208			MAIN CB 70 AMP			BUS AMPS 125 AMP			CIRCUIT DESCRIPTION
			CB TYPE	BOLT-ON	MOUNTING SURFACE	BUS A I C 22KA	PHASE B	PHASE C	CIRCUIT	BKR	BKR AIC 22KA	
FV-3121 MBR 1 AIR VALVE			15'1	1	200							
FIT-3122 MBR 1 AIR FLOW METER			15'1	3								
FV-3151A/B MBR 1 AIR PURGE VALVES			15'1	5								
FV-3171 MBR 1 PERMEATE INLET VALVE			15'1	7	200							
FV-3181 MBR 1 PERMEATE OUTLET VALVE			15'1	8	200							
FIT-3182 MBR 1 PERMEATE FLOW METER			15'1	11								
AIT-3193 MBR 1/2 TURBIDITY ANALYZER			15'1	13	100							
FV-3321 MBR 3 AIR VALVE			15'1	15	200							
FIT-3322 MBR 3 AIR FLOW METER			15'1	17								
FV-3351A/B MBR 3 AIR PURGE VALVES			15'1	19	200							
FV-3371 MBR 3 PERMEATE INLET VALVE			15'1	21	200							
FV-3381 MBR 3 PERMEATE OUTLET VALVE			15'1	25	200							
FIT-3382 MBR 3 PERMEATE FLOW METER			15'1	25	100							
FV-3521 MBR 5 AIR VALVE			15'1	27	200							
FIT-3522 MBR 5 AIR FLOW METER			15'1	29								
FV-3551A/B MBR 5 AIR PURGE VALVES			15'1	31	200							
FV-3571 MBR 5 PERMEATE INLET VALVE			15'1	33	200							
FV-3591 MBR 5 PERMEATE OUTLET VALVE			15'1	35	200							
FIT-3592 MBR 5 PERMEATE FLOW METER			15'1	37	100							
AIT-3593 MBR 5/2 TURBIDITY ANALYZER			15'1	39	100							
AIT-3080 MBR TSS ANALYZER			15'1	41								
G-3101 MBR 1 INLET GATE			15'1	43	500							
G-3301 MBR 3 INLET GATE			15'1	45	500							
G-3501 MBR 5 INLET GATE (FUTURE)			15'1	47								
			15'1	49								
			15'1	51								
			15'1	53								
CONNECTED VA PER PHASE					3300.0							
CONNECTED AMPS PER PHASE					27.5							
25% OF CONTINUOUS & LIGHTING LOAD (VA)					825.0							
CODE VA PER PHASE					4125.0							
CODE AMPS PER PHASE					34.4							

**LP-MB3 LOAD CALCULATIONS**

THIS DRAWING IS PROPERTY OF SKM ENGINEERING AND IS TRANSMITTED IN CONFIDENCE NEITHER RECEIPT NOR POSSESSION CONFERS OR TRANSFERS ANY RIGHTS TO REPRODUCE, USE, OR DISCLOSE, IN WHOLE OR IN PART, DATA CONTAINED HEREIN FOR ANY PURPOSE WITHOUT THE WRITTEN PERMISSION OF SKM ENGINEERING. © COPYRIGHTED 2018 BOUNTIFUL, UTAH

NO.	DATE	DESIGN	DRAWN	CHECKED
AB	04/24/20	MPJ	DCL	MPJ
REVISONS				
1	04/22/19	MPJ	DCL	MPJ
2	06/24/19	MPJ	DCL	MPJ
3	10/26/20	MPJ	DCL	MPJ

**CITY OF BEAUMONT**  
**SALT MITIGATION WWTP UPGRADE**  
**ELECTRICAL - POWER DISTRIBUTION**  
**CALCULATIONS 4**

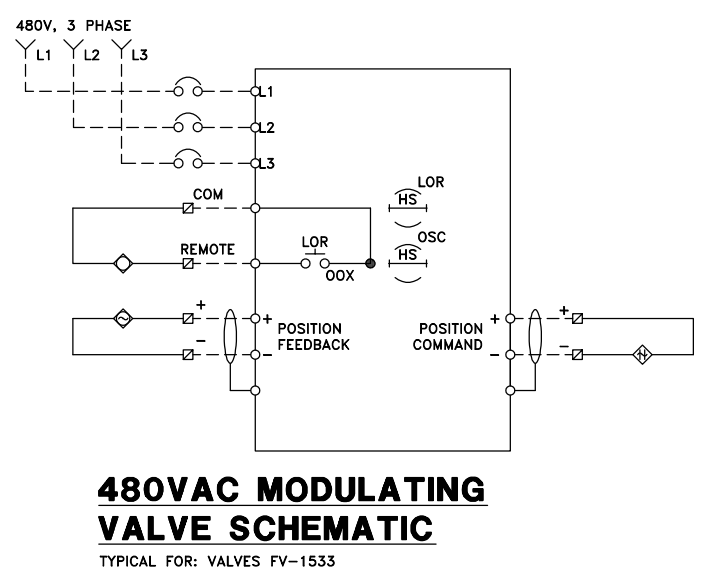
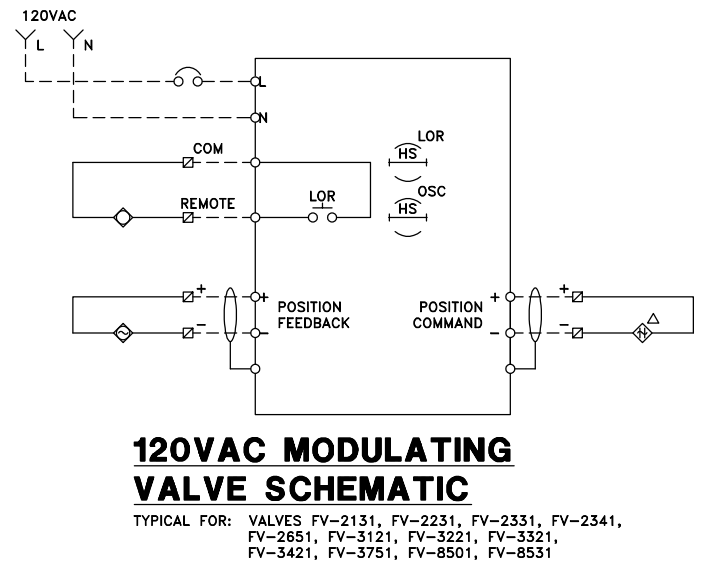
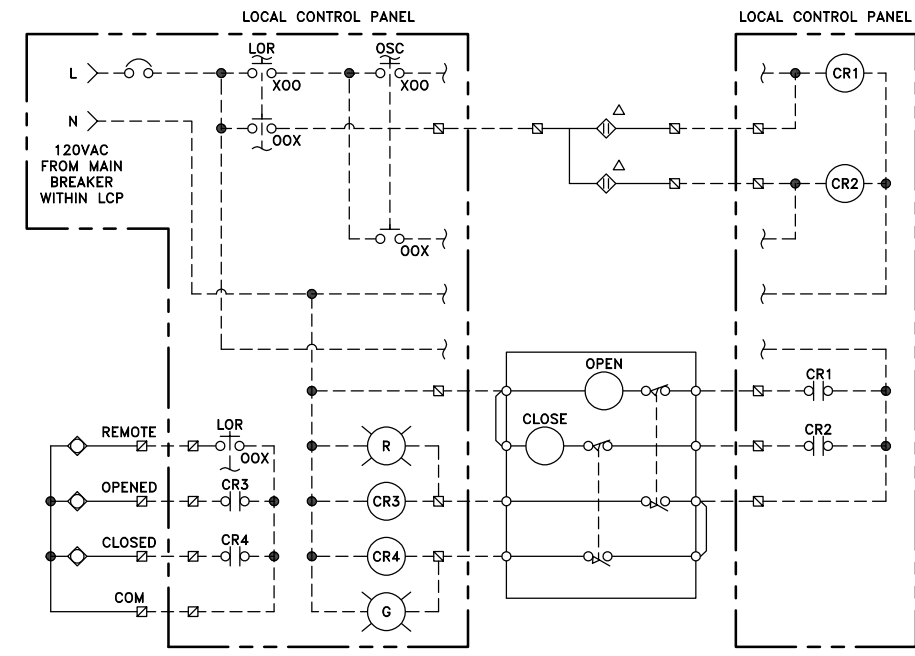
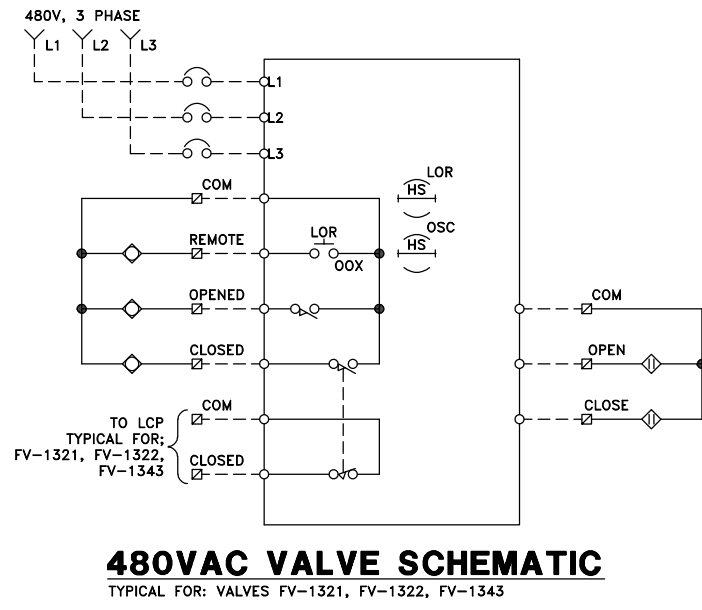
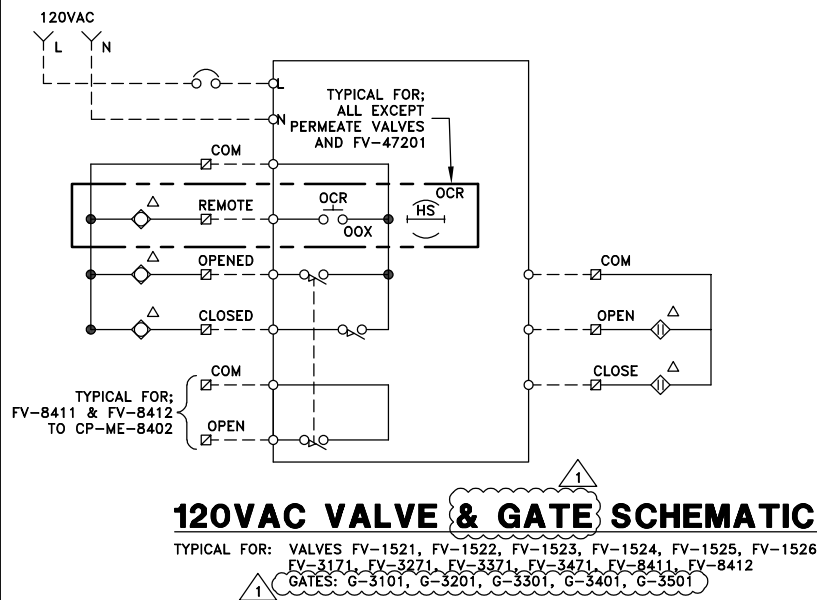
**AQUA ENGINEERING**  
 593 W 2600 S, SUITE 275, BOUNTIFUL, UT 84010  
 PHONE (801) 288-1327 FAX (801) 298-0153

**skm**  
 533 W 2600 S, Suite 25  
 Bountiful, Utah 84010  
 Phone: (801) 677-0011  
 www.skmeng.com

**ALBERT A. WEBB**  
 CIVIL ENGINEERS  
 3788 McCRAE STREET  
 RIVERSIDE CA 92506  
 PH. (951) 686-1070  
 FAX (951) 788-1256  
 ASSOCIATES ENGINEERING CONSULTANTS

0 1/2 1  
 DRAWING IS TO SCALE  
 IF BAR MEASURES:  
 1" = FULL SCALE  
 1/2" = HALF SCALE

SHEET 131 OF 172  
**E-15**



**NOTES:**

1. TYPICAL SCHEMATIC DIAGRAMS ARE INTENDED TO REFLECT THE GENERAL CONTROL STRATEGY. ACTUAL CIRCUITRY MAY VARY FOR SPECIFIC EQUIPMENT SUPPLIED. THE NUMBER AND TYPE OF DEVICES SHALL BE FURNISHED AS REQUIRED FOR PROPER OPERATION OF THE EQUIPMENT.
2. CONTROL SWITCHES SHALL BE DOOR MOUNTED ON THEIR RESPECTIVE PANELS. DEVICES SHALL BE RATED FOR LINE VOLTAGE AND 125% OF LOAD CURRENT.
3. LOCAL CONTROLS SHALL BE INSTALLED ACCORDING TO P&ID'S AND NOT NECESSARILY AS SHOWN ON SCHEMATICS. SEE LCP SCHEMATICS AND CONDUIT SCHEDULE FOR EXACT WIRING.

THIS DRAWING IS PROPERTY OF SKM ENGINEERING AND IS TRANSMITTED IN CONFIDENCE NEITHER RECEIPT NOR POSSESSION CONFERS OR TRANSFERS ANY RIGHTS TO REPRODUCE, USE, OR DISCLOSE, IN WHOLE OR IN PART, DATA CONTAINED HEREIN FOR ANY PURPOSE WITHOUT THE WRITTEN PERMISSION OF SKM ENGINEERING. © COPYRIGHTED 2018 BOUNTIFUL, UTAH

NO.	DATE	DESIGN	DRAWN	CHECKED	REVISIONS		
					MPJ	DCL	MPJ
1	10/26/20	MPJ	DCL	MPJ			

**CITY OF BEAUMONT**  
**SALT MITIGATION WWTP UPGRADE**  
**ELECTRICAL - POWER DISTRIBUTION**  
**VALVE SCHEMATICS**

**AQUA ENGINEERING**  
 593 W 2600 S, SUITE 275, BOUNTIFUL, UT 84010  
 PHONE (801) 298-1327 FAX (801) 298-0153

**skm**  
 533 W 2600 S, Suite 25  
 Bountiful, Utah 84010  
 Phone: (801) 677-0011  
 www.skmeng.com

**ALBERT A. WEBB**  
 CIVIL ENGINEERS  
 3788 McCRAY STREET  
 RIVERSIDE CA 92506  
 PH. (951) 686-1070  
 FAX (951) 788-1256  
**ASSOCIATES ENGINEERING CONSULTANTS**

0 1/2 1  
 DRAWING IS TO SCALE  
 IF BAR MEASURES:  
 1" = FULL SCALE  
 1/2" = HALF SCALE

SHEET 139 OF 172  
**E-23**

Table with columns: CONDUIT, SIZE, CONDUCTORS, SERVICE, FROM, TO, COMBINED IN, DUCTBANKS, NOTES. Contains detailed conduit routing information for various electrical services.

CONDUIT UPDATED
4
CONDUIT UPDATED
4
CONDUIT UPDATED
4
CONDUIT UPDATED
4

NOTES:
1) CONDUITS THAT ARE COMBINED BETWEEN PULL POINTS ARE DENOTED WITH A + (PLUS) SYMBOL. SEE THE COMBINED CONDUITS SCHEDULE ON SHEET CE-11. CONDUITS THAT HAVE BEEN COMBINED SHALL BE LABELED WITH MULTIPLE CONDUIT TAGS, ONE FOR EACH CONDUIT THAT HAS BEEN COMBINED.
2) THE CONDUIT DEVELOPMENT AND SCHEDULE DOES NOT SHOW CONDUIT AND CONDUCTORS FOR LIGHTS, RECEPTACLES AND DATA JACKS. IT ALSO DOESN'T SHOW CONDUIT AND CONDUCTORS FOR THE MBR BUILDING'S HVAC AND APPLIANCES FOR THE OFFICE, BREAK ROOM, CONTROL ROOM, LAB, MECHANICAL ROOM AND RESTROOMS. THE CONTRACTOR IS RESPONSIBLE TO INCLUDE THESE CONDUITS AND CONDUCTORS IN THEIR WORK AND IN THEIR SUBMITTED CONDUIT ROUTING PLAN.

THIS DRAWING IS PROPERTY OF SKM ENGINEERING AND IS TRANSMITTED IN CONFIDENCE. NEITHER RECEIPT NOR POSSESSION CONFERS OR TRANSFERS ANY RIGHTS TO REPRODUCE, USE, OR DISCLOSE, IN WHOLE OR IN PART, DATA CONTAINED HEREIN FOR ANY PURPOSE WITHOUT THE WRITTEN PERMISSION OF SKM ENGINEERING. ©COPYRIGHTED 2018 BOUNTIFUL, UTAH

Table with columns: NO, DATE, DESIGN, DRAWN, CHECKED. Includes revision numbers and dates.

CITY OF BEAUMONT
SALT MITIGATION WWTP UPGRADE
ELECTRICAL - CONDUITS AND DUCTBANKS
CONDUIT SCHEDULE 2

AQUA ENGINEERING
533 W 2600 S, SUITE 275, BOUNTIFUL, UT 84010
PHONE: (801) 288-1327 FAX: (801) 288-0153

skm
533 W 2600 S, Suite 25
Bountiful, Utah 84010
Phone: (801) 677-0011
www.skmeng.com

ALBERT A. WEBB CIVIL ENGINEERS
7388 MCCRAY STREET
RIVERSIDE CA 92506
PH. (951) 686-1070
FAX (951) 788-1256
ASSOCIATES ENGINEERING CONSULTANTS

6 CONDUIT UPDATED

6 CONDUIT UPDATED

6 CONDUIT UPDATED

6 CONDUIT UPDATED

6 CONDUIT UPDATED

CONDUIT	SIZE	CONDUCTORS	SERVICE	SIGNAL CONDUIT		COMBINED	DUCTBANKS	NOTES
				FROM	TO			
S0400	1.5"	WIRE FUTURE	SIGNAL	CTC-MB	EXISTING GATE CONTROLLER		205.1	
S1114	1"	WIRE FUTURE	SIGNAL	FUTURE CP-ME-1112	HH-50		101, 104	
S1124	1"	2 TSP	SIGNAL	CP-ME-1122	LDIT-1124		101, 104, 104.5	
S1124A	3/4"	MFR CABLE	SIGNAL	LDT-1124	LE-1124A			
S1124B	3/4"	MFR CABLE	SIGNAL	LDT-1124	LE-1124B			
S1161	1.5"	6 TSP	SIGNAL	EXISTING LCP-1161	RIO-HW		101, 104, 104.4	
S1164	1"	1 TSP	SIGNAL	EXISTING LCP-1161	EXISTING ME-1164			REUSE EXISTING CONDUIT AND WIRE
S1301	1"	2 TSP	INTRINSICALLY SAFE	LCP-1311	JB-1301			
S1311	1"	2 TSP	SIGNAL	RIO-HW	LCP-1311		101.2	
S1332	1"	2 PAIR TW/SH	SIGNAL	RIO-HW	FIT-1332	S1332-	101.2	
S1332A	1"	MFR CABLE	SIGNAL	FIT-1332	FE-1332			
S1342	1"	2 PAIR TW/SH	SIGNAL	RIO-HW	FIT-1342	S1332-	101.2	
S1342A	1"	MFR CABLE	SIGNAL	FIT-1342	FE-1342			
S1412	1"	2 PAIR TW/SH #18	SIGNAL	CP-ME-1413	LIT-1412	S1741-	101, 105	
S1412A	1"	1 TSP #18	SIGNAL	LIT-1412	LE-1412A			
S1412B	1"	1 TSP #18	SIGNAL	LIT-1412	LE-1412B			
S1422	1"	2 PAIR TW/SH #18	SIGNAL	CP-ME-1423	LIT-1422	S1741-	101, 105	
S1422A	1"	1 TSP #18	SIGNAL	LIT-1422	LE-1422A			
S1422B	1"	1 TSP #18	SIGNAL	LIT-1422	LE-1422B			
S1432	1"	2 PAIR TW/SH #18	SIGNAL	CP-ME-1433	LIT-1432	S1741-	101, 105	
S1501	1"	1 TSP	SIGNAL	RIO-SH	LIT-1501	S1501-	303.1, 303.2	STUB UP CONDUIT AND CAP
S1501A	1"	MFR CABLE	SIGNAL	LIT-1501	LE-1501			
S1502	1"	1 TSP	SIGNAL	RIO-SH	LIT-1502	S1501-	303.1, 303.2	
S1502A	1"	MFR CABLE	SIGNAL	LIT-1502	LE-1502			
S1541	1"	2 PAIR TW/SH	SIGNAL	RIO-SH	FIT-1541	S1501-	303.1, 303.2	
S1541A	1"	MFR CABLE	SIGNAL	FIT-1541	FE-1541			
S1641	1"	3 TSP	SIGNAL	RIO-HW	AIT-1641		101, 104, 104.3	
S1741	1"	3 TSP	SIGNAL	RIO-HW	AIT-1741	S1741-	101, 105	
S1801	1"	1 TSP	SIGNAL	RIO-HW	LIT-1801	S1801-	101, 101.2	
S1822	1"	2 PAIR TW/SH	SIGNAL	RIO-HW	FIT-1822	S1801-	101, 101.2	
S1822A	1"	MFR CABLE	SIGNAL	FIT-1822	FE-1822			
S1921	1"	1 TSP	SIGNAL	RIO-HW	TT-1921			
S2111	1"	2 TSP CAT6 SH	SIGNAL	RIO-MB	AIT-2111	S2111-	202, 204	
S2111A	1"	MFR CABLE	SIGNAL	AIT-2111	AE-2111			
S2131	3/4"	2 TSP 2#14	SIGNAL	RIO-MB	FV-2131	S2131+, S2151+, S2152+	203, 205	
S2132	3/4"	1 TSP	SIGNAL	RIO-MB	PIT-2132	S2131+, S2151+, S2152+	203, 205	
S2151	3/4"	1 TSP CAT6 SH	SIGNAL	RIO-MB	AIT-2151	S2151-, S2152-	203, 205	
S2152	3/4"	1 TSP	SIGNAL	RIO-MB	AIT-2152	S2151-, S2152-	203, 205	
S2182	1"	MFR CABLE	SIGNAL	AIT-2111	AE-2182			
S2211	1"	2 TSP	SIGNAL	RIO-MB	AIT-2211	S2111-	202, 204	
S2211A	1"	MFR CABLE	SIGNAL	AIT-2211	AE-2211			
S2231	3/4"	2 TSP 2#14	SIGNAL	RIO-MB	FV-2231	S2231+, S2251+, S2252+	203, 205	
S2232	3/4"	1 TSP	SIGNAL	RIO-MB	PIT-2232	S2231+, S2251+, S2252+	203, 205	
S2251	3/4"	1 TSP	SIGNAL	RIO-MB	AIT-2251	S2251-, S2252-	203, 205	
S2252	3/4"	1 TSP	SIGNAL	RIO-MB	AIT-2252	S2251-, S2252-	203, 205	
S2292	1"	MFR CABLE	SIGNAL	AIT-2211	AE-2292			
S2311	1"	2 TSP	SIGNAL	RIO-MB	AIT-2311	S2311-	202, 204	
S2311A	1"	MFR CABLE	SIGNAL	AIT-2311	AE-2311			
S2331	3/4"	2 TSP 2#14	SIGNAL	RIO-MB	FV-2331	S2331+, S2351+, S2352+	203, 205	
S2332	3/4"	1 TSP	SIGNAL	RIO-MB	PIT-2332	S2331+, S2351+, S2352+	203, 205	
S2351	3/4"	1 TSP	SIGNAL	RIO-MB	AIT-2351	S2351-, S2352-	203, 205	
S2352	3/4"	1 TSP	SIGNAL	RIO-MB	AIT-2352	S2351-, S2352-	203, 205	
S2392	1"	MFR CABLE	SIGNAL	AIT-2311	AE-2392			
S2411	1"	2 TSP	SIGNAL	RIO-MB	AIT-2411	S2311+	202, 204	
S2411A	1"	MFR CABLE	SIGNAL	AIT-2411	AE-2411			
S2431	3/4"	2 TSP 2#14	SIGNAL	RIO-MB	FV-2431	S2431+, S2451+, S2452+	203, 205	
S2432	3/4"	1 TSP	SIGNAL	RIO-MB	PIT-2432	S2431+, S2451+, S2452+	203, 205	
S2451	3/4"	1 TSP	SIGNAL	RIO-MB	AIT-2451	S2451+, S2452+	203, 205	
S2452	3/4"	1 TSP	SIGNAL	RIO-MB	AIT-2452	S2451+, S2452+	203, 205	
S2482	1"	MFR CABLE	SIGNAL	AIT-2411	AE-2482			
S2641	1"	2 TSP	SIGNAL	RIO-MB	PIT-2641, TT-2642			
S2651	1"	2 TSP	SIGNAL	RIO-MB	PV-2651			
S2784	1"	2 PAIR TW/SH	SIGNAL	RIO-MB	FIT-2784		202, 204, 204.1	
S2784A	1"	MFR CABLE	SIGNAL	FIT-2784	FE-2784			
S3000	1"	1 TSP TC, CAT6 SH TC	SIGNAL	RIO-MB	AIT-3000			
S3000A	1"	MFR CABLE, TC	SIGNAL	AIT-3000	AE-3000			
S3111	1"	5 TSP	SIGNAL	RIO-MB	LT-3111, FV-3121, FIT-3122, PIT-3142			
S3162	1"	2 PAIR TW/SH 8#14	SIGNAL	RIO-MB	FIT-3192, G-3101			
S3193	1"	5 TSP, 2 CAT6 SH	SIGNAL	RIO-MB	AIT-3193, AIT-3193, AIT-3593			
S3211	1"	5 TSP	SIGNAL	RIO-MB	LT-3211, FV-3221			
S3282	1"	2 PAIR TW/SH 8#14	SIGNAL	RIO-MB	FIT-3222, PIT-3242			
S3311	1"	5 TSP	SIGNAL	RIO-MB	FIT-3292, G-3201			
S3392	1"	2 PAIR TW/SH 8#14	SIGNAL	RIO-MB	LT-3311, FV-3321, FIT-3322, FIT-3342			
S3411	1"	5 TSP	SIGNAL	RIO-MB	FIT-3362, G-3301			
S3492	1"	2 PAIR TW/SH 8#14	SIGNAL	RIO-MB	LT-3411, FV-3421, FIT-3422, PIT-3442			
S3511	1"	WIRE FUTURE	SIGNAL	RIO-MB	FIT-3492, G-3401			
S3592	1"	WIRE FUTURE	SIGNAL	RIO-MB	LT-3511, FV-3521			STUB UP AND CAP
S3741	1"	2 TSP	SIGNAL	RIO-MB	FIT-3522, PIT-3542			STUB UP AND CAP
S3751	1"	2 TSP	SIGNAL	RIO-MB	FIT-3592, G-3501, PIT-3741, TT-3742			
S3801	1"	1 TSP	SIGNAL	RIO-MB	FV-3751			
S3801A	1"	MFR CABLE	SIGNAL	RIO-MB	LCP-3811			
S3861	1"	2 PAIR TW/SH	SIGNAL	RIO-MB	LT-3801			
S3861A	1"	MFR CABLE	SIGNAL	RIO-MB	FIT-3861			
S3893	3/4"	2 PAIR TW/SH TC	SIGNAL	RIO-MB	FIT-3861			THRU SIGNAL CABLE TRAY
S3916	3/4"	1 TSP TC	SIGNAL	RIO-MB	TT-3916			THRU SIGNAL CABLE TRAY
S3917	3/4"	1 TSP TC	SIGNAL	RIO-MB	TT-3917			THRU SIGNAL CABLE TRAY
S3918	1"	1 TSP	SIGNAL	RIO-MB	TT-3918			
S3919	1"	1 TSP	SIGNAL	RIO-MB	TT-3919			
S3971	3/4"	1 TSP	SIGNAL	RIO-MB	TT-3971			
S3972	1"	1 TSP TC	SIGNAL	RIO-MB	AIT-3972			THRU SIGNAL CABLE TRAY
S3972A	1"	MFR CABLE	SIGNAL	AIT-3972	AE-3972			
S4001	1"	1 TSP	SIGNAL	PLC-RO	LCP-4001			
S4001A	3/4"	MFR CABLE	SIGNAL	PLC-RO	LT-4001			
S4003	1"	1 TSP	SIGNAL	RIO-MB	TT-4003			
S4004	1"	1 TSP TC, CAT6 SH TC	SIGNAL	PLC-RO	AIT-4004			
S4004A	3/4"	MFR CABLE	SIGNAL	AIT-4004	AE-4004			
S4602	1"	3 TSP, CAT6 SH	SIGNAL	RIO-MB	AIT-4602, AIT-4603, FIT-4603		203, 205	
S4602A	3/4"	MFR CABLE	SIGNAL	AIT-4602	AE-4602			
S4603	3/4"	MFR CABLE	SIGNAL	AIT-4603	AE-4603			
S4604	1"	1 TSP	SIGNAL	RIO-MB	ME-4604		203, 205	
S4605	1"	MFR CABLE	SIGNAL	PIT-4604	FE-4604			
S5002	1"	1 TSP	SIGNAL	PLC-RO	LI-5002	S5002-, S5002A+		
S5002A	1"	1 TSP	SIGNAL	PLC-RO	LI-5002	S5002A-		
S5002B	3/4"	1 TSP	SIGNAL	RIO-MB	LI-5002			
S5072	1"	2 PAIR TW/SH TC	SIGNAL	RIO-MB	PIT-5072			THRU SIGNAL CABLE TRAY
S5301	3/4"	1 TSP TC	SIGNAL	PLC-RO	WIT-5301			THRU SIGNAL CABLE TRAY
S5301A	1"	MFR CABLE	SIGNAL	WIT-5301	WE-5301			

- NOTES:
- 1 CONDUITS THAT ARE COMBINED BETWEEN PULL POINTS ARE DENOTED WITH A + (PLUS) SYMBOL. SEE THE COMBINED CONDUITS SCHEDULE ON SHEET CE-11. CONDUITS THAT HAVE BEEN COMBINED SHALL BE LABELED WITH MULTIPLE CONDUIT TAGS, ONE FOR EACH CONDUIT THAT HAS BEEN COMBINED.
- 2 THE CONDUIT DEVELOPMENT AND SCHEDULE DOES NOT SHOW CONDUIT AND CONDUCTORS FOR LIGHTS, RECEPTACLES AND DATA JACKS. IT ALSO DOESN'T SHOW CONDUIT AND CONDUCTORS FOR THE MBR BUILDING'S HVAC AND APPLIANCES FOR THE OFFICE, BREAK ROOM, CONTROL ROOM, LAB, MECHANICAL ROOM AND RESTROOMS. THE CONTRACTOR IS RESPONSIBLE TO INCLUDE THESE CONDUITS AND CONDUCTORS IN THEIR WORK AND IN THEIR SUBMITTED CONDUIT ROUTING PLAN.

NO.	DATE	DESIGN		DRAWN		CHECKED	
		AB	04/24/20	MPJ	DCL	MPJ	DCL
3	06/24/19	MPJ	DCL	MPJ	DCL	MPJ	DCL
4	10/11/19	MPJ	DCL	MPJ	DCL	MPJ	DCL
5	12/02/19	MPJ	DCL	MPJ	DCL	MPJ	DCL
6	10/26/20	MPJ	DCL	MPJ	DCL	MPJ	DCL

CITY OF BEAUMONT  
SALT MITIGATION WWTP UPGRADE  
ELECTRICAL - CONDUITS AND DUCTBANKS  
CONDUIT SCHEDULE 7

**AQUA ENGINEERING**  
593 W 2600 S, SUITE 275, BOUNTIFUL, UT 84010  
PHONE (801) 288-1327 FAX (801) 298-0153

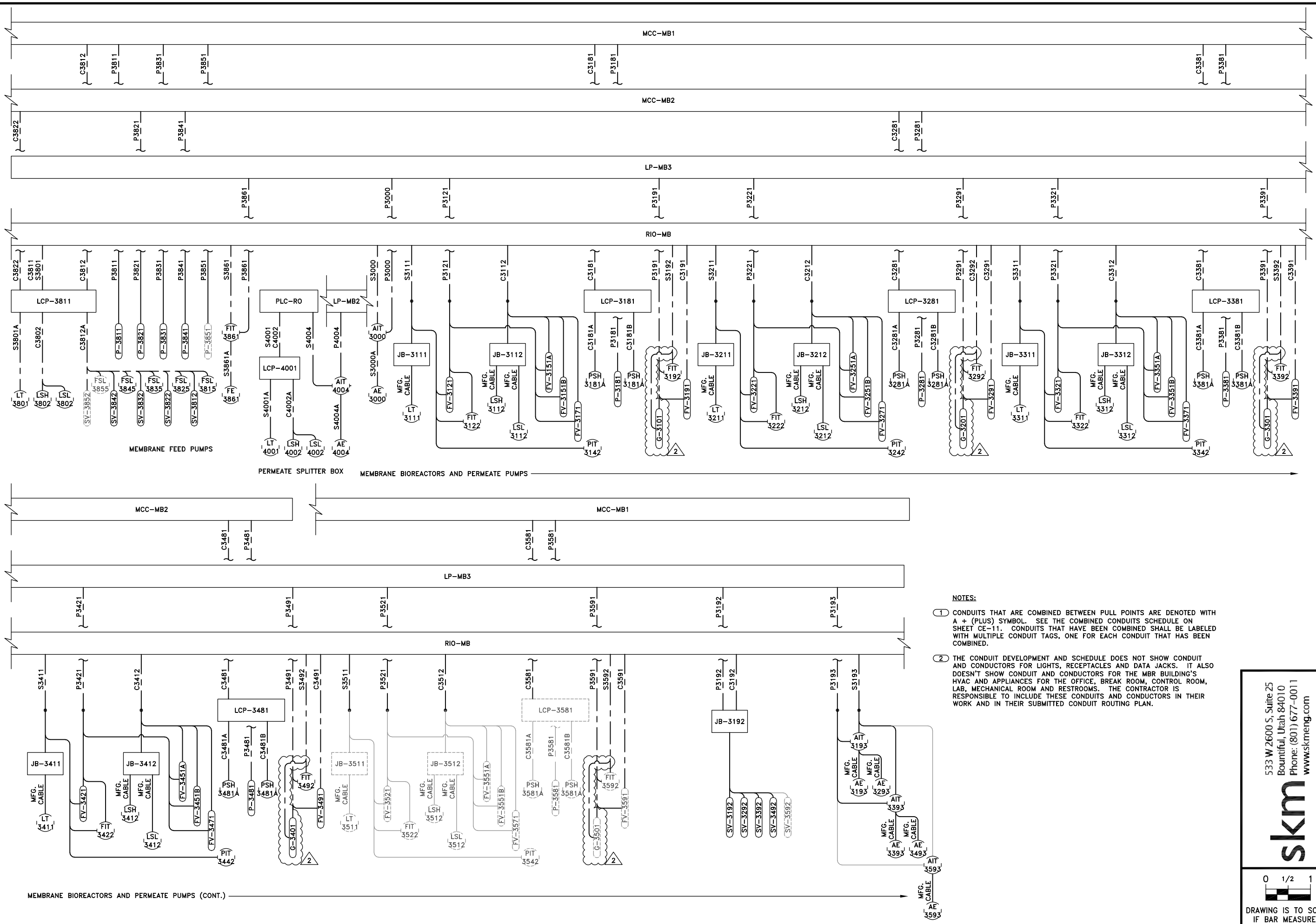
skm 533 W 2600 S, Suite 25  
Bountiful, Utah 84010  
Phone: (801) 677-0011  
www.skmeng.com

**ALBERT A. WEBB ENGINEERS**  
3788 MCCRAY STREET  
RIVERSIDE, CA 92506  
PH. (951) 686-1070  
FAX (951) 788-1256

**ASSOCIATES ENGINEERING CONSULTANTS**

DRAWING IS TO SCALE  
IF BAR MEASURES:  
1" = FULL SCALE  
1/2" = HALF SCALE

SHEET 149 OF 172  
**CE-07**



- NOTES:**
- CONDUITS THAT ARE COMBINED BETWEEN PULL POINTS ARE DENOTED WITH A + (PLUS) SYMBOL. SEE THE COMBINED CONDUITS SCHEDULE ON SHEET CE-11. CONDUITS THAT HAVE BEEN COMBINED SHALL BE LABELED WITH MULTIPLE CONDUIT TAGS, ONE FOR EACH CONDUIT THAT HAS BEEN COMBINED.
  - THE CONDUIT DEVELOPMENT AND SCHEDULE DOES NOT SHOW CONDUIT AND CONDUCTORS FOR LIGHTS, RECEPTACLES AND DATA JACKS. IT ALSO DOESN'T SHOW CONDUIT AND CONDUCTORS FOR THE MBR BUILDING'S HVAC AND APPLIANCES FOR THE OFFICE, BREAK ROOM, CONTROL ROOM, LAB, MECHANICAL ROOM AND RESTROOMS. THE CONTRACTOR IS RESPONSIBLE TO INCLUDE THESE CONDUITS AND CONDUCTORS IN THEIR WORK AND IN THEIR SUBMITTED CONDUIT ROUTING PLAN.

THIS DRAWING IS PROPERTY OF SKM ENGINEERING AND IS TRANSMITTED IN CONFIDENCE. NEITHER RECEIPT NOR POSSESSION CONFERS OR TRANSFERS ANY RIGHTS TO REPRODUCE, USE, OR DISCLOSE, IN WHOLE OR IN PART, DATA CONTAINED HEREIN FOR ANY PURPOSE WITHOUT THE WRITTEN PERMISSION OF SKM ENGINEERING. © COPYRIGHTED 2018 BOUNTIFUL, UTAH

ORIGINAL		DESIGN		DRAWN		CHECKED	
NO.	DATE	NO.	DATE	NO.	DATE	NO.	DATE
AB	04/24/20	MPJ	DCL	MPJ	DCL	MPJ	DCL
REVISIONS							
1	06/24/19	MPJ	DCL	MPJ	DCL	MPJ	DCL
2	10/26/20	MPJ	DCL	MPJ	DCL	MPJ	DCL

**CITY OF BEAUMONT**  
**SALT MITIGATION WWTP UPGRADE**  
**ELECTRICAL - CONDUITS AND DUCTBANKS**  
**CONDUIT DEVELOPMENT 11**

533 W 2600 S, SUITE 275, BOUNTIFUL, UT 84010  
 PHONE (801) 298-1327 FAX (801) 298-0153

533 W 2600 S, Suite 25  
 Bountiful, Utah 84010  
 Phone: (801) 677-0011  
 www.skmeng.com

**skm**

**ALBERT A. WEBB CIVIL ENGINEERS**  
 Bountiful, Utah 84010  
 3788 MCCRAY STREET RIVERSIDE CA 92506  
**WEBB ASSOCIATES** PH. (951) 686-1070  
 ENGINEERING CONSULTANTS FAX (951) 788-1256

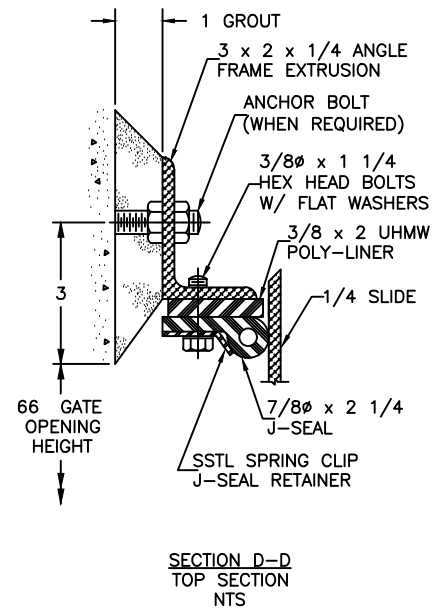
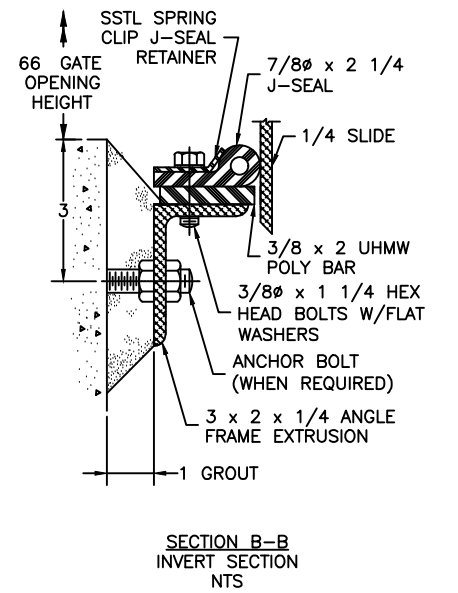
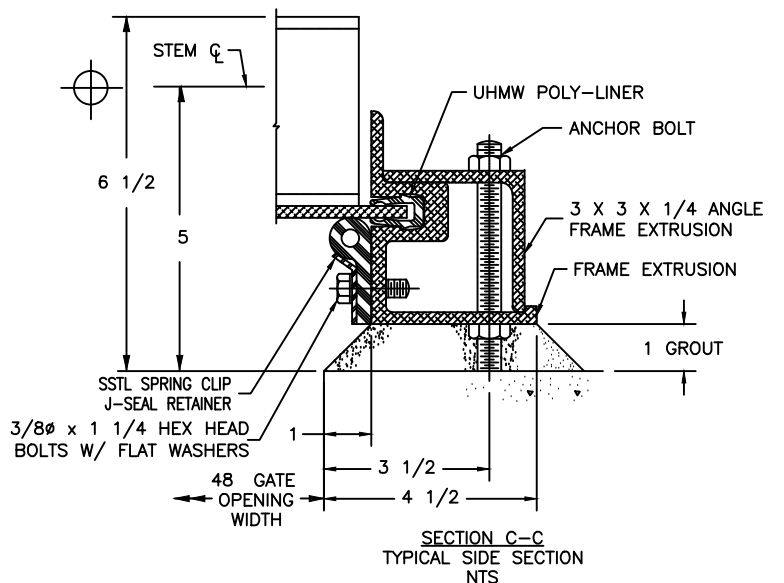
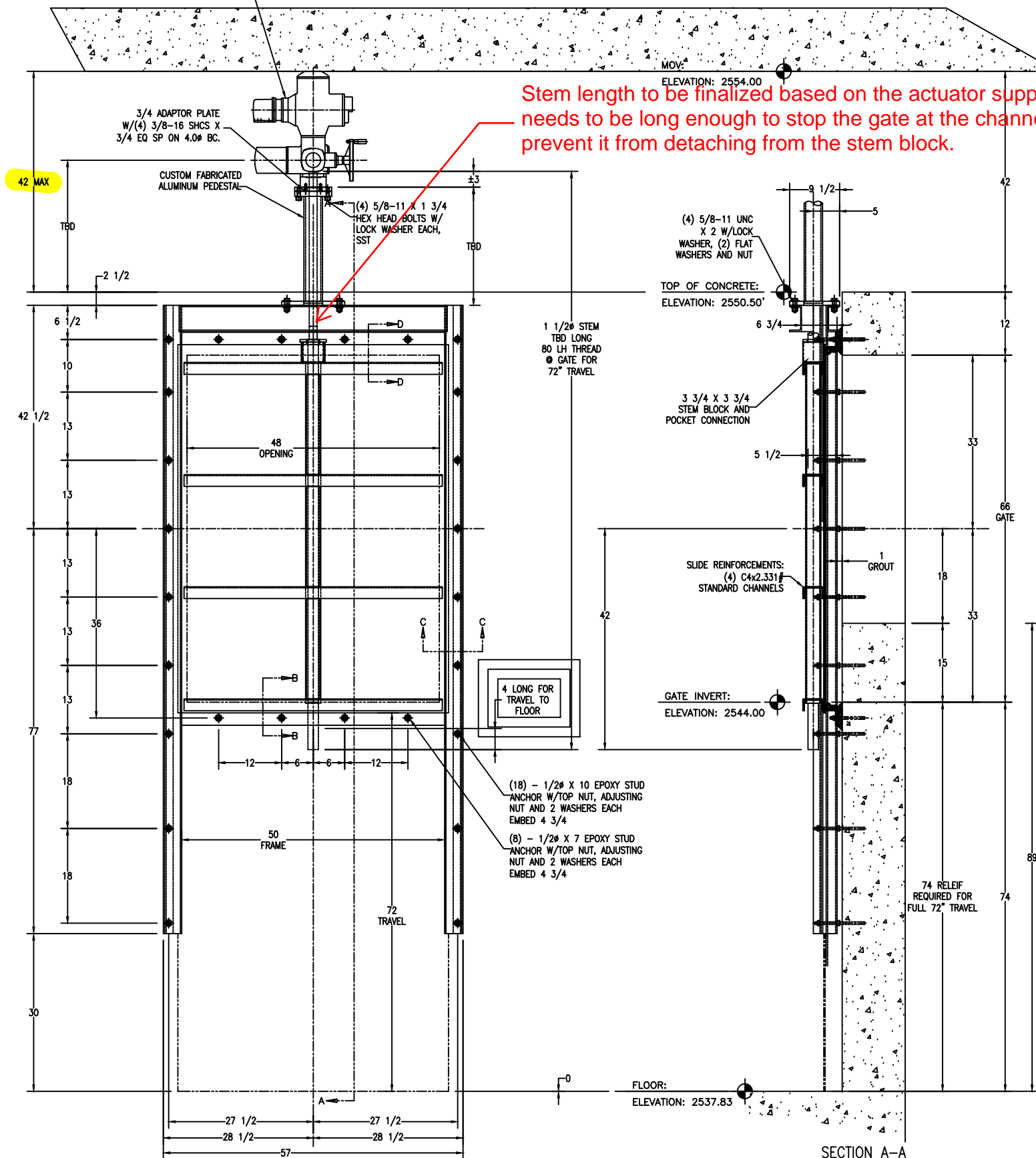
0 1/2 1

DRAWING IS TO SCALE  
 IF BAR MEASURES:  
 1" = FULL SCALE  
 1/2" = HALF SCALE

SHEET 164 OF 172  
**CE-22**

ELECTRIC ACTUATOR, AUMA MODEL SAR10.2/AC01.2. ACTUATOR SUBMITTAL AND WIRING DIAGRAMS WILL BE PROVIDED BY MANUFACTURER. ACTUATOR CAN BE ROTATED 90° INCREMENTS ABOUT THE STEM CENTERLINE

Stem length to be finalized based on the actuator supplied. Stem needs to be long enough to stop the gate at the channel invert and prevent it from detaching from the stem block.



- NOTES:
- CASTING TOLERANCES APPLY ON ALL UNMACHINED SURFACES.
  - SEE MANUAL G-1900 FOR INSTALLATION AND ADJUSTMENT INSTRUCTIONS.
  - ALL DIMENSIONS IN INCHES UNLESS OTHERWISE NOTED.
  - MATERIAL SPECIFICATIONS AND COATINGS PER DRAWING: 2434453500
  - GATE HEAD DESIGN SEATING: 2.875' MEASURED FROM GATE  $\phi$  UNSEATING: 2.875' OPERATING DESIGN HEAD SEATING: 2.875' MEASURED FROM GATE  $\phi$  UNSEATING: 2.875'
  - TAG: G-3101, G-3201, G-3301, G-3401
  - LOCATION: WWTP, BEAUMONT, CA
  - REFERENCE SPECIFICATIONS SECTION:400599
  - REFERENCE PLAN DRAWINGS:MBS-3
  - PLEASE CONFIRM THE GATE TRAVEL, THE TOP OF CONCRETE AND INVERT ELEVATIONS, AS WELL AS THE INVERT CLEARANCE AND CONFIGURATION.

**HYDRO GATE**

48" X 66" FABRICATED ALUMINUM WEIR GATE  
WALL MOUNTED, NON-RISING STEM, SELF-CONTAINED, TOPSEAL  
QUANTITY: 4 MATERIAL: AL-6061 SCALE: 1'=3/5"

THIS IS A PROPRIETARY DESIGN OF HYDRO GATE CORP. THE DESIGN, DATA AND INFORMATION RELATING THERETO IS NOT TO BE USED, DISSEMINATED OR REPRODUCED IN WHOLE OR IN PART WITHOUT THE EXPRESS WRITTEN CONSENT OF HYDRO GATE CORP.

REV.	DATE	INITIALS			

DRAWN BY ORH	CUSTOMER NO. 55.1173-4006	SALES 2434453
CHECKED BY	DATE 11/5/18	DRAWING NO. 2434453-10



## QUOTE #2009072

**Date: November 18, 2020**

**Project Name: MBR Train Influent Gate – New Electric Actuators**

**Representative: Kelly Brians – Southwest Valve & Equipment – 714-832-1090**

We are pleased to offer for your consideration the following equipment for this project.

Quantities and descriptions listed in this quotation were based on the following:  
Emailed information. Quoted based on existing Hydro Gate Order # 2434453

Please note these prices are based on receiving the entire order. Adjustments to item quantities or specifications may alter the pricing.

- Prices quoted are firm for acceptance within 30 days of the bid date and apply to this quotation only, subject to attached Terms & Conditions. Prices do not include sales or use tax. If this proposal is not accepted within 30 days after bid, Hydro Gate reserves the right to re-quote and price escalation may be necessary.

The equipment we have quoted meets or exceeds the specifications with the following clarifications:

**NOTE: We have received no addendums for this project.**

1. If awarded to Hydro Gate, we will need to be supplied with a full set of plans and specifications.
2. Prices do not include third party inspection services of gates and equipment unless specifically required by specifications that supplier (Hydro Gate) be responsible for cost of these inspections.
3. Hydro Gate will provide digital copies of all relevant Operation and Maintenance manuals. Contact Hydro Gate should custom manuals be required.
4. Please note these prices are based on receiving the entire order. Adjustments to item quantities or specifications may alter the pricing.
5. Prices do not include taxes.
6. Non-machined, submerged ferrous surfaces to be blast cleaned and painted with 2 shop coats of manufacturer's standard epoxy paint.
7. This quotation reflects our policy of sourcing raw materials in the most cost effective manner. Any requirement for specific U.S content shall require a revised quotation.
8. Prices do not include installation of gates and equipment or lubricants for stems, gear units and bearings.

9. Mastic, grout, gaskets and epoxy capsules for anchors not by Hydro Gate.
10. Upon placing an order with Hydro Gate, buyer must ensure that the approval of equipment be provided to Hydro Gate within 30 days of receiving submittals. Failure to do so may result in an increase of price in relation to market fluctuation of raw material costs.
11. Please address all purchase orders to Henry Pratt Company, LLC 12000 East 47th Ave., Suite 200, Denver, CO 80239.
12. Hydro Gate Standard Terms and Conditions of Sale apply to this quotation and can be found at [www.hydrogate.com/support](http://www.hydrogate.com/support).
13. Field service not included. If field service is needed, a charge of \$1,500.00 will be made for each trip, plus \$1,250.00 for each day including any holidays, weekends or other layovers made at the convenience of the contractor or engineer.
14. The equipment quoted for this project includes electric motor actuators. Actuator controls cannot be adjusted or preset at the factory. Complete instructions for proper setting of components are included with the unit when shipped. This quotation does not include any field service to adjust electric actuators and lubricate equipment unless specifically required by project specification. If a factory technician is preferred, field service rates that are in effect at time service is required shall apply. Contact Hydro Gate with a purchase order if this service is required.
15. Electric Actuator has been quoted to be 120v, 1-phase, 60 hertz power. 120v was requested via preliminary note from the customer. If different power requirements are needed, please contact Hydro Gate for pricing and lead time adjustment.
16. Gates were originally installed by Hydro Gate via Order # 2434453. Parts and Electric Actuators are based off the information in the original Hydro Gate submittal drawings and the customer provided drawings.
17. New replacement stems are included in this quote. New replacement stems will be required to provide additional stem length so that the stem can feed into the new electric actuator for each gate.

**Quotation Number: 2009072**

**Item Number :** 01  
**Designation :** Electric Actuator to replace existing Manual Lift for Gates  
G-3101, G-3201, G3301, & G-3401  
**Qty :** 1 Lot to Include  
4 – Replacement Electric Actuator for Gates  
4 – Replacement adaptor plate to match existing flange  
**Shipment :** 10-12 weeks after drawing and credit approval.  
**Lot Price :** **\$ 4,486.00 Each Gate**

**Item Number :** 02  
**Designation :** Stem Replacement  
**Qty :** 1 Lot to Include  
4 – 90” long 2.0” diameter type 304 stainless steel non-rising stems  
4 – Replacement Stem Block for each stem  
**Shipment :** 10-12 weeks after drawing and credit approval.  
**Lot Price :** **\$ 1,470.00 Each Gate**

**Total price for items listed above: \$ 5,956.00 each gate, \$23,824.00 total for 4 gates**

The delivery lead times are based on stock inventory at the time of quotation. Stock quantities and quoted delivery times must be re-evaluated and verified at time of order and/or time of release to manufacturing.

Please see notes 1 through 17 in this quotation.

Quotation No.: 2009072

**FREIGHT:**

F.O.B. shipping point, full freight allowed. Seller will pay freight charges for standard shipments. Additional freight cost incurred to comply with buyer's special requirements will be added to the invoice.

**FIELD SERVICE:**

Hydro Gate will make every effort to provide a representative to meet your schedule, but due to conflicting requirements a request should be made no later than fourteen (14) days before a representative is required. Where previous commitments have been made, some flexibility in your schedule should be anticipated. All field service trips will require a written confirmation prior to arriving at the site.

**DRAWINGS:**

Submittal drawing lead time is 3 to 5 weeks after receipt of your written purchase order.

Thank you for your interest in our product. If any questions arise regarding this quotation, please contact Hydro Gate.



**Erik Mustain**

Hydro Gate® Application Engineer

12000 E. 47th Avenue - Suite 200 Denver, Colorado 80239

office: 303.374.2169 | [muellerwp.com](http://muellerwp.com)