



**WEST VALLEY WATER DISTRICT**  
855 W. Base Line Road, Rialto, CA 92376  
PH: (909) 875-1804 FAX: (909) 875-1849

**ENGINEERING, OPERATIONS AND PLANNING COMMITTEE MEETING  
AGENDA**

**TUESDAY, JANUARY 16, 2024 - 6:00 PM**

**NOTICE IS HEREBY GIVEN** that West Valley Water District has called a meeting of the Engineering, Operations and Planning Committee to meet in the Administrative Conference Room, 855 W. Base Line Road, Rialto, CA 92376.

**BOARD OF DIRECTORS**

**President Gregory Young, Chair  
Director Angela Garcia**

Members of the public may attend the meeting in person at 855 W. Base Line Road, Rialto, CA 92376, or you may join the meeting using Zoom by clicking this link: <https://us02web.zoom.us/j/8402937790>. Public comment may be submitted via Zoom, by telephone by calling the following number and access code: Dial: (888) 475-4499, Access Code: 840-293-7790, or via email to [administration@wvwd.org](mailto:administration@wvwd.org).

If you require additional assistance, please contact [administration@wvwd.org](mailto:administration@wvwd.org).

## **I. CALL TO ORDER**

## **II. PUBLIC PARTICIPATION**

*The public may address the Board on matters within its jurisdiction. Speakers are requested to keep their comments to no more than three (3) minutes. However, the Board of Directors is prohibited by State Law to take action on items not included on the printed agenda.*

## **III. DISCUSSION ITEMS**

1. Updates to the Engineering, Operations and Planning Committee
2. Change Order No. 4 with PCL Construction, Inc. for the Oliver P. Roemer Water Filtration Facility Upgrade and Expansion Project.
3. Well 42 Rehabilitation.

## **IV. ADJOURN**

### **DECLARATION OF POSTING:**

**I declare under penalty of perjury, that I am employed by the West Valley Water District and posted the foregoing Engineering, Operations and Planning Committee Agenda at the District Offices on January 11, 2024.**

*Elvia Dominguez*

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**Elvia Dominguez, Board Secretary**



**BOARD OF DIRECTORS  
ENGINEERING, OPERATIONS AND PLANNING COMMITTEE  
STAFF REPORT**

**DATE:** January 16, 2024  
**TO:** Engineering, Operations and Planning Committee  
**FROM:** Linda Jadeski, Assistant General Manager  
**SUBJECT:** CHANGE ORDER NO. 4 WITH PCL CONSTRUCTION, INC. FOR THE OLIVER P. ROEMER WATER FILTRATION FACILITY UPGRADE AND EXPANSION PROJECT

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**BACKGROUND:**

In February 2023 the Board of Directors approved a \$3,000,000 construction contingency for the Oliver P. Roemer Water Filtration Facility Upgrade and Expansion project which was to be set aside for unexpected costs during construction. Construction contingency is a form of risk management used to avoid cutting costs, to keep the project's schedule on track and to ensure material and workmanship quality. It is also used to cover other costs such as:

- Unknown underground conflicts
- Unpredictable changes in the scope
- Unexpected costs that can arise
- Owner-requested changes
- Design upgrades/modifications

Unexpected costs are inevitable on a project of this magnitude and within the current unpredictable construction/procurement environment. Identifying the need for the unexpected cost through a change order and managing them as they arise are key to the project's success.

Attached as Exhibit A is Change Order No. 4 for the above referenced project. This change order includes several "extra" items of work arising from unexpected utility conflicts with proposed improvements, lack of accurate as-built records and/or malfunctioning existing equipment. A brief description of each "extra" item of work listed in the change order is provided below:

1. Electrical Conduit Conflicts: Unforeseen Sodium Hydroxide conduits (for water treatment purposes) were encountered during coring operations through the existing Filter Building No. 1 wall for the new 36-inch Filtered Waterline from the proposed Filter Building No. 2 to the existing Filter Building No. 1 Filtered Waterline. These conduits were not denoted on any existing as-built plans or record drawings. This unexpected conduit clash hampered coring operations, required further utility investigation using ground penetrating radar and re-routing.

2. Duct Bank Conflicts with Proposed Retaining Wall: During the potholing operations following the award of design-build construction contract to PCL Construction Inc., it was discovered that the main electrical feed duct bank to the plant will be in conflict with the proposed retaining wall between the existing electrical vaults HH-11 and HH-1 (hand holes). The 30% design drawings (used for design-builder selection) did not indicate this duct bank needing demolition and/or rerouting. The design-builder in good faith finds this conflict a material difference which requires duct bank rerouting, and could not have been discovered, or reasonably inferred, from the contract documents. As a result, this duct bank will need to be rerouted to resolve the conflict with the proposed retaining wall.
3. Ultraviolet (UV) Pipe Reroute: The actual location of the two existing electrical vaults HH-11 and HH-1 differs when compared to the 30% design drawings which were used for selecting the design-builder (contractor). The tie-in location (connection to existing piping) for the proposed UV pipe reroute as denoted on the 30% design drawings needs to be modified to protect the existing electrical vault HH-11 in-place.
4. Unforeseen Filter Building 1 Non-Uniform Footings: The record drawings for the “1993 Roemer Trident No. 1 – 3 Original Plant” indicated a uniform and congruent formed foundation (concrete footings poured against formwork); however, during over-excavation for the Filter Building No. 2 foundations, it was discovered that Filter Building No. 1 foundations consist of substantial uneven surfaces. These uneven surfaces needed to be chipped (to create an even surface) so that the existing Filter Building No. 1 foundation does not protrude into the footprint of Filter Building No. 2 concrete slab, and to allow for the installation of an expansion joint, per the contract documents.
5. Replacement of Malfunctioning Gate Valves for Filters 1 – 4 Air Line System: The existing gate valves which isolate the air line (piping) system used for scouring filter beds do not function properly as means of isolating the filter units from the main air line system header pipe, thus preventing the replacement of the stainless less steel piping. These four (4) 8-inch gate valves need to be replaced with new American Iron and Steel (AIS) valves.

No time impacts to the project schedule result from this change order.

#### **FISCAL IMPACT:**

The cost to perform the additional work as outlined in Change Order No. 4 is \$306,524.99. The cost for this change order is to be covered through the existing construction contingency which will leave \$2,475,982.80 available for any future change orders if needed. This change order will increase the contract amount to \$59,640,888.20.

#### **STAFF RECOMMENDATION:**

Staff recommends that the Committee forward a recommendation to the Board of Directors to:

1. Approve Change Order No. 4 with PCL Construction, Inc. in the amount of \$306,524.99 for the Oliver P. Roemer WFF Upgrade and Expansion Project and;
2. Authorize the General Manager to execute all necessary documents.

SN:ls

**ATTACHMENT(S):**

1. Exhibit A - PCL Construction Inc. Change Order No. 4

# EXHIBIT A

WEST VALLEY WATER DISTRICT

CHANGE ORDER

Order No. 4  
Date 1/8/2024  
Agreement Date 10/31/2022  
Sheet 1 of 2

Owner: West Valley Water District

Project: Oliver P Roemer Water Filtration Facility Upgrade and Expansion

Contractor: PCL Construction, Inc

The following changes are hereby made to the Contract Documents:

<u>ITEM NO.</u>	<u>EXTRA WORK DESCRIPTION</u>	<u>ADD</u>	<u>DEDUCT</u>	<u>CALENDAR DAYS</u>
1	Electrical conduit clash - not identified on the as-builts	\$28,108.00	-	-
2	Ductbank / retaining wall clash	\$200,000	-	-
3	Ultraviolet Recovery (UV) pipe reroute	\$46,204.00	-	-
4	Unforeseen Filter Building 1 Uneven Footing	\$19,040.62	-	-
5	Replacement of four (4) 8-inch gate valves for Filters 1-4	\$13,172.37	-	-
	<b>TOTALS</b>	<b>\$306,524.99</b>	-	-
<b>TOTALS FOR CHANGE ORDER NO. 4</b>				<b>0</b>

JUSTIFICATION:

**For item#1** - This item refers to the unforeseen conduits that were identified in the Effluent wall. The unforeseen conduits (one spare and one that feeds the Sodium Hydroxide storage) were discovered and removed during coring through the Effluent wall for the new 36-inch Filtered Water (FW) line connecting Filter Building 1 and Filter Building 2. The aforementioned conduits' current locations were not shown in the 30% drawings or record drawings associated with the area.

**For item# 2** - This item refers to the relocation of the existing ductbank between vault Hand-hole (HH)-11 and HH-1, due to the existing ductbank location conflict with the future retaining wall's intended location. As a result, the ductbank needs to be rerouted to resolve the conflict.

**For item#3** - The two existing electrical vaults HH-11 and HH-1, with wires that feed the building, are at different locations, compared to what they are shown on the 30% drawings and record drawings. HH-11 is closer to the existing/new 24-inch tie-in point than what is shown on the drawings. On the other hand, HH-1 is closer to the building than what is shown on the drawings as well. The current location of HH-11 does not allow the new 24-inch Ultraviolet (UV) Recovery line reroute to be tie-in next to the vault, as well as to reuse the existing butterfly valve. Reroute of the 24-inch UV line and a new butterfly valve are required for this item.

**For item#4** - The existing Filter Building 1 foundation had at approximately half of its extension, a substantially uneven surface, which would not be expected on a formed concrete foundation. Furthermore, the "1993 Roemer Trident No. 1-3 Original Plant" record drawings show a uniform and congruent formed foundation, which differs from what was discovered in the field at approximately 50% of the extent of the foundation. PCL has submitted a Request for Information (RFI) to Stantec, which directed that the uneven surfaces needed to be chipped so that the existing building foundation would not protrude into the footprint of the new Filter Building 2 slab, and to allow the installation of the new expansion joint per project's design structural drawing S-109 / Detail S-109. PCL performed the work associated with this change on a time and material basis.

**For item#5**- The existing 4 (four) 8-inch gate valves that isolate the air lines system do not properly work as means of isolation, preventing the replacement of the stainless steel piping work from happening. The valves need to be replaced with new American Iron and Steel (AIS) valves.

#### **CHANGE TO CONTRACT PRICE**

Original Contract Price	<u>\$ 59,116,871.00</u>
Current Contract Price Adjusted by Previous Change Order(s)	<u>\$ 59,334,363.21</u>
Contract Price due to this Change Order shall be increased	<u>\$ 306,524.99</u>
New Contract Price including this Change Order	<u>\$ 59,640,888.20</u>



**CHANGE TO CONTRACT TIME**

Contract Time will be

No time impacts  
(Calendar Days)

Date for Completion of all Work

05/31/2025  
(Date)

**REQUIRED APPROVALS:**

To be effective, this Change Order must be approved by the Owner, or as may otherwise be required by the Supplemental General Conditions.

Kevin Goetz Digitally signed by Kevin Goetz  
DN: cn=Kevin Goetz, ou=Users, ou=Lang  
Branch, ou=Civil Infrastructure, ou=Districts,  
o=City of St. Louis, ou=Government, ou=City  
Date: 2024.01.09 14:02:14-0500

Kevin Goetz

1-8-2024

Requested By (Contractor)

(Print Name)

Date



Paul Hermann

1/9/24

Recommended By  
(Resident Project Representative)

(Print Name)

Date



Linda Jadeski

1/10/24

Recommended By  
(Director of Engineering)

(Print Name)

Date

John Thiel

Recommended By  
(General Manager)

(Print Name)

Date

Accepted By (Owner)

(Print Name)

Date

ITEM 1



CONSTRUCTION

October 27, 2023

Paul Hermann  
Water Market Leader  
GHD  
320 Goddard Way, Suite 200  
Irvine, CA 92618

Linda Jadeski  
Director of Engineering  
West Valley Water District  
855 W. Base Line P.O. Box 920  
Rialto, CA 92377

Attn: Paul Hermann and Linda Jadeski

**RE: Unforeseen conduits in the Effluent wall – Oliver P Roemer Water Filtration Facility Upgrade and Expansion Project – Request for Change**

Mr. Hermann and Ms. Jadeski,

Please accept the attached package as a Change Request due to the cost impacts related to the unforeseen conduits in the Effluent wall for the Oliver P Roemer Water Filtration Upgrades and Expansion Project. The unforeseen conduits (one spare and one that feeds the Sodium Hydroxide storage) were discovered and removed during coring in the Effluent wall for the new 36" FW connecting Filter Building 1 and Filter Building 2. The aforementioned conduits' current locations were not shown in the 30% drawings or record drawings associated with the area.

Below is a summary of the pricing associated with the removal and rerouting of the conduits:

**A. Tracked on a Time and Material basis:**

➤ **Core Holing activities and support activities:**

- 1) 42" coring work had to be demobilized due to an unforeseen conduit that was identified inside the footprint of the penetration. The core machine (operated by Connor) had to be mobilized/demobilized an extra time in order to complete the core.
- 2) Temporary shoring system rental time had to be extended for the overall operation.

➤ **Utility location, conduits exposure, and conduits removal:**

- 1) Additional Utility location efforts were used to help track the routing of the unforeseen conduits, including:
  - a. A specialized utility location company
  - b. Additional scanning using a high-performance concrete scanner detection system

**PCL CONSTRUCTION INC.**

3750 Schaufele Ave, Suite 270  
Long Beach, CA 90808

Telephone: (858) 657-3400 ♦ Website: www.pcl.com



CONSTRUCTION

- 2) The core was jack-hammered and chipped for additional investigation and exposure of all conduits.
- 3) The conductor was safely removed, and the existing conduits were then removed and demolished in order to progress with 42" core work.

**B. Work not completed. Pending approval of pricing**

➤ **Sodium Hydroxide Conduit reroute:**

The Sodium Hydroxide conduit will need to be rerouted. Included in this package, there is a suggested routing plan as well as the proposed pricing for the reroute.

Finally, pricing for rerouting the spare conduit that was damaged was not included in this Change Request. Since the record drawings do not show the path of the aforementioned conduit, additional field investigations would be required in order to propose a new reroute for the spare conduit. PCL will work with the District on next steps in case the District would like the spare conduit to be rerouted as well.

Sincerely,

A handwritten signature in black ink, appearing to read "K. Goetz", written over a light gray rectangular background.

Kevin Goetz  
Project Manager  
[kgoetz@pcl.com](mailto:kgoetz@pcl.com)

**PCL CONSTRUCTION INC.**

3750 Schauffele Ave, Suite 270  
Long Beach, CA 90808

Telephone: (858) 657-3400 ♦ Website: [www.pcl.com](http://www.pcl.com)

PCL Construction, Inc.  
3750 Schauffele Ave., Suite 270, Long Beach, CA 90808

# CHANGE ORDER PROPOSAL

PROJECT: Oliver P. Roemer WFF 2021 Expansion

PCO # TBD  
DATE: 10/27/23  
ESTIMATOR: KG

DESCRIPTION:

Unforeseen Conduits in the Effluent wall

**DIRECT ESTIMATE**

LABOR		\$	6,090
EQUIPMENT		\$	3,025
MATERIALS		\$	51
SUBCONTRACTOR		\$	16,007
<b>SUBTOTAL</b>		<b>\$</b>	<b>25,172</b>

**DIRECT MARKUP**

LABOR	25%	\$	1,522
EQUIPMENT	20%	\$	605
MATERIALS	15%	\$	8
SUBCONTRACTOR	5%	\$	800
<b>SUBTOTAL MARKUP</b>		<b>\$</b>	<b>2,935</b>

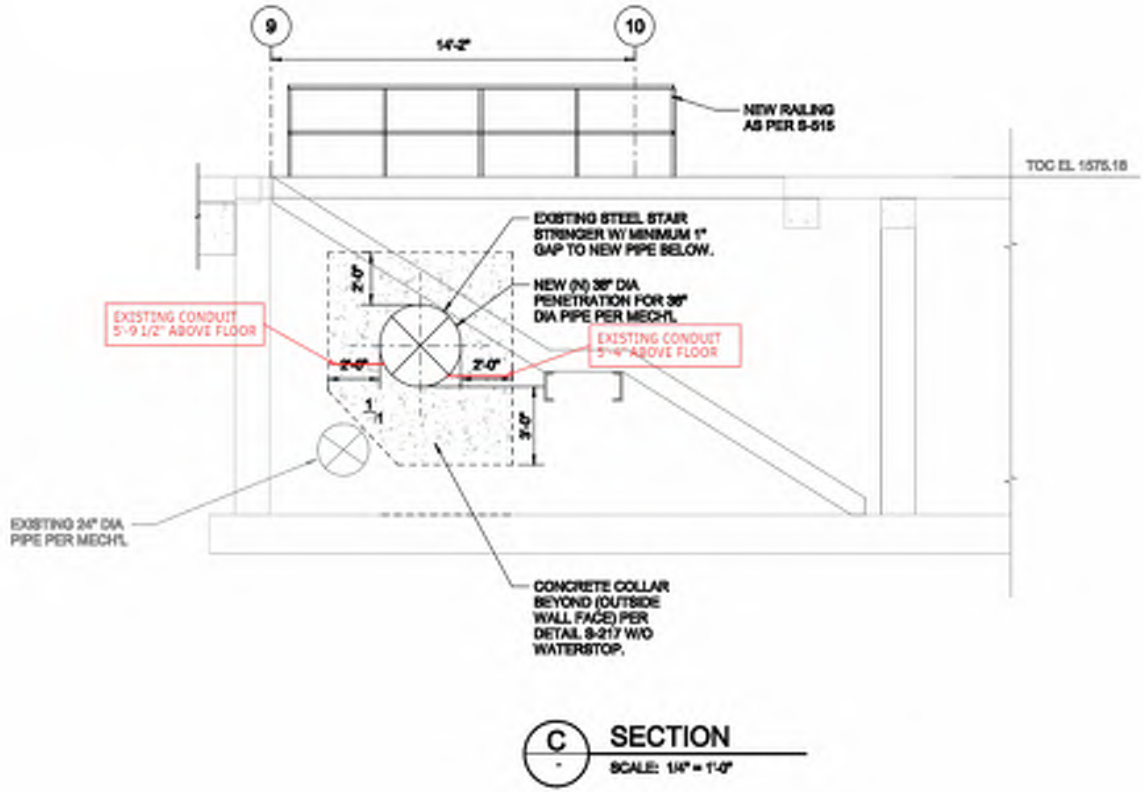
<b>SUBTOTAL WITH DIRECT MARKUP</b>		<b>\$</b>	<b>28,108</b>
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**TOTAL ADDITIONAL WORK \$ 28,108**

**GRAND TOTAL THIS CHANGE \$ 28,108**



Please reference "Filtration Building Partial Plan & Section" Drawing No. S-206



# DAILY WORK RECORD

Project Name Roemer WFF

Date Work Performed 10/6/23  
mm/dd/yyyy

Charge To 900015-L

Project Number 5403269

DESCRIPTION OF WORK	3.2.a
Demobilize due to unforeseen	
conduit strike	

EQUIPMENT			
Description	Qty	Rate	Amount
shoring boxes 8x10	8	8.32	66.56
3 shoring steel plate 8x12	2		18.00
Equipment subtotal			

MATERIAL/EXPENSES			
Description	Qty	Rate	Amount
Material subtotal			

LABOR				
Name		Hours	Rate	Amount
Tony Reis Carpenter journeyman	ST	2.5	85.44	213.60
	OT			
	ST			
	OT			
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Field Supervisor  
\_\_\_\_\_  
Signature  
Authorized By  
\_\_\_\_\_

Inspector refused to sign on the date work was performed

Signature \_\_\_\_\_ Print Name \_\_\_\_\_ Date mm/dd/yyyy \_\_\_\_\_

Labor subtotal \$213.60  
Equipment subtotal \$84.56  
Material subtotal











# DAILY WORK RECORD

Project Name Roemer WFF

Date Work Performed 10/13/23  
mm/dd/yyyy

Charge To 440002

Project Number 5403269

DESCRIPTION OF WORK	3.2.a
chip core, clean-up mess	

EQUIPMENT			
Description	Qty	Rate	Amount
F-150 Truck	6.5	37.61	244.47
Trailer air compressor	8	40.63	325.00
2 - 50' air hose	8	13.75	110.00
rivet buster	8	33.38	267.00
410 backhoe	4	74.88	319.52
concrete scanner system	8		968.62
8x10 trench box	8	8.32	66.56
3 - 8x12 steel plate	8		18.00
Equipment subtotal			

LABOR			
Name	Hours	Rate	Amount
Ricky Nichols op. group 8	ST 6	109.66	627.96
	OT 0.5	140.60	70.30
Walter, CORONA Laborer group 4	ST 8	80.84	646.72
	OT		
Anthony, Hart Laborer Apprt. group 1	ST 8	41.75	342.00
	OT		
Matthew Murray Op. group 8	ST 4	104.66	418.64
	OT		
Javier Leon Laborer group 4	ST 4	80.84	313.36
	OT		
	ST		
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	ST		
	OT		

MATERIAL/EXPENSES			
Description	Qty	Rate	Amount
Material subtotal			

Field Supervisor

Signature

Authorized By

Signature

Inspector refused to sign on the date work was performed

Print Name

Date  
mm/dd/yyyy

Labor subtotal	\$2,428.98
Equipment subtotal	\$2,319.17
Material subtotal	

# DAILY WORK RECORD

Project Name Roemer WFF

Date Work Performed 10/16/23  
mm/dd/yyyy

Charge To 940002

Project Number 5403269

DESCRIPTION OF WORK	3.2.a
core hole, set / remove tools	
clean-up	

EQUIPMENT			
Description	Qty	Rate	Amount
F-150 truck	6.5	37.61	244.47
Forklift	4	78.87	315.48
concrete coring	5		2930.00
3- 8x12 steel plate	8		18.00
Equipment subtotal			

MATERIAL/EXPENSES			
Description	Qty	Rate	Amount
4x8 x 3/4" plywood	1		51.18
Material subtotal			

LABOR				
Name		Hours	Rate	Amount
Ricky Nichols op. group 8	ST	6.5	104.66	682.60
	OT			
Richard Klinger millwright	ST	3.5	80.29	281.02
	OT			
Tony Reis carp. journeyman	ST	2	85.44	170.88
	OT			
	ST			
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	ST			
	OT			
	ST			
	OT			

Field Supervisor

Signature \_\_\_\_\_  
Authorized By \_\_\_\_\_  
Signature \_\_\_\_\_

Print Name

Date

Inspector refused to sign on the date work was performed

Labor subtotal \$1,137.50  
Equipment subtotal \$3,507.95  
Material subtotal \$51.18

**ULTRA ENGINEERING CONTRACTORS**

36806 Pebley Ct  
 Winchester, CA 92596  
 www.digwithair.com

**INVOICE****BILL TO**

PCL Construction, Inc.  
 Water Infrastructure  
 3750 Schaufele Avenue # 270  
 Long Beach, CA 90808

**INVOICE #** 5282**DATE** 10/23/2023**DUE DATE** 11/22/2023**TERMS** Net 30**P.O. NUMBER**

Oliver P. Roemer

DESCRIPTION	QTY	RATE	AMOUNT
Ticket #L-9848 GPR / Locating Services on 10/10/23 @Rialto	1	1,510.00	1,510.00
Ticket #9910 Air Vacuum / Excavation Services on 10/17/23 @Rialto	1	3,370.00	3,370.00
Ticket #9963 Air Vacuum / Excavation Services on 10/20/23 @Rialto	1	3,370.00	3,370.00

If you have any questions on this invoice, please call, 951-223-3552.  
 Thank you for your business!

**BALANCE DUE****\$8,250.00**



27500 Riverview Center Blvd  
Suite 100  
Bonita Springs, FL 34134


For correspondence only (no payments)

BILL TO:

PCL CIVIL CONSTRUCTORS INC  
1711 WEST GREENTREE DRIVE  
SUITE 201  
TEMPE, AZ 85284-2712

FINAL INVOICE

3.2.a

INVOICE NO.		INVOICE DATE	
34095614-001		10/13/2023	
INVOICE AMOUNT		CURRENCY	
\$ 968.62		USD	
CUSTOMER NO.		TERMS	
9397010		Due Upon Receipt	
ACH PAYMENT			
Beneficiary's Bank:	Wells Fargo		
RTN/ABA#:	121000248		
Acct#:	4217127869		
Beneficiary's Name:	Herc Rentals		
CHECK PAYMENT		ONLINE PAYMENT	
HERC RENTALS INC. P.O. Box 936257 Atlanta, GA 31193		 <a href="http://www.HercRentals.com">www.HercRentals.com</a>	
PAY BY PHONE/QUESTIONS: 877-953-8778			
AMOUNT ENCLOSED: \$			

To ensure accurate and timely posting, detach and send top portion with your payment

PO #	RES/QUOTE #	CUSTOMER #	SALES REP
03269407	55442012	9397010	DOXEY EATON
ORDERED BY	DELIVERED BY	SIGNED BY	CLOSED BY
CARRILLO, ADAN	HERC	NO SIGNATURE	JAMES BRELAND

JOB #/SITE

ROEMER

QTY	EQUIPMENT #	HRS/MINIMUM	HOURLY	DAY	WEEK	4 WEEK	AMOUNT
1	CONCRETE SCANNER IMAGE DETECTION SYSTEM	8/	525.00	525.00	1575.00	4725.00	525.00
	IC#: 800294655 CAT/Class: 1001410						
	Make: HILTI Model: PS1000-B Ser #: 247200006						
	CA PROPERTY TAX RECOVERY FEE 2217999001						3.94

To ensure accurate payment processing, please include a remittance with your payment.  
If paying by ACH/Wire, send remittance to [HercTimeChecks@hercrentals.com](mailto:HercTimeChecks@hercrentals.com).

**Check fraud is on the rise-making secured payments through Pro Control Next Gen is the best/safest way to makes payments to Herc Rentals. To enroll please talk with your sales representative or call 1-877- 953-8778, opt 1, 1. You can also visit [www.HercRentals.com](http://www.HercRentals.com)**

THIS INVOICE IS SUBJECT TO THE TERMS AND CONDITIONS OF THE RENTAL AGREEMENT

SHIP TO: ROEMER 3010 N CEDAR AVE RIALTO, CA 92377	RENTED FROM: HERC RENTALS 648 25831 WEST WRIGHT ST FOOTHILL RANCH, CA 92610 PH: 949-581-7712	Original	Adjustment	Total
		RENTAL CHARGES	525.00	
		OTHER CHARGES	3.94	3.94
		DELIVERY/PICK UP	370.00	370.00
		TAXABLE CHARGES	898.94	898.94
		TAX	69.68	69.68
		<b>TOTAL CHARGES</b>	<b>968.62</b>	<b>968.62</b>

RENTAL DAYS:	1
INVOICE FROM:	10/10/23 7:01
INVOICE TO:	10/10/23 12:44

RENTAL START DATE:	10/10/23 7:00	LATE CHARGES MAY APPLY
--------------------	---------------	------------------------



# Invoice



951-525-3281  
6005 Tyler St

Date	Invoice #
10/16/2023	25871

Bill To
PCL Construction Services, Inc. 655 N. Central Ave, Suite 1600 Glendale, CA 91203

P.O. Number	Terms
03269025-OS	

Ticket:	Project	Due Date
	Oliver P. Roemer Water - 03269025-OS	10/16/2023

Quantity	Description	Price Each	Amount
	*****Change Order *****		
5	Core Drill 42" diameter Job Ticket 81-26004	320.00	1,600.00
1.5	Laborer Only	135.00	202.50
1	Flat Rate Travel - Inland Empire	250.00	250.00
6.5	Labor Only Job Ticket 81-26135	135.00	877.50
1	Core Bit Charge	1,500.00	1,500.00
<b>Total</b>			<b>\$4,430.00</b>



**TRENCH SHORING COMPANY**  
 1400 E. Orangethorpe Ave.  
 FULLERTON, CA 92831

Office: 714-879-3.2.a

jimw@trenchshoring.com  
 www.trenchshoring.com  
 Page 1 of 2

## RENTAL QUOTE

NO.RQ20016662  
 09/05/23

CUSTOMER NO. 18885  
 CUSTOMER NAME PCL CONSTRUCTION  
 ORDER BY KEITH HANSEN  
 PHONE NO. 562-972-5529  
 SHIPMENT METHOD DELIVERY

P.O. NO.  
 JOB NO. ROEMER WTP  
 LOCATION 3010 N. CEDAR AVE  
 RIALTO, CA 92377

QTY	EQUIPMENT	WEIGHT (EA)	MINIMUM	DAILY (EA)	WEEKLY (EA)	4 WEEK (EA)
1	4000001008 TS 10' X 8' TRENCH BOX TS1550 - 3" WALL	5,200	1 DAY	66.53	199.58	598.73
2	4030005100 TB SPREADER 5X5 X 10'	225	1 DAY	0.00	0.00	0.00
1	4010000010 TS 10' TRENCH BOX HI-CLEAR SPREADER	3,183	1 WEEK	59.10	177.30	531.90
16	4300009158 1.5" X 8" TB SPREADER PIN W/ KEEPER	6	1 DAY	0.00	0.00	0.00
1	4311000858 8'X 5/8" 4-LEG W/SHURLOC HOOKS, HARNESS	-	1 DAY	21.15	63.45	190.35
2	1100000612 TRENCH TOP 6'X12' REGULAR	2,952	5 DAY	6.30	44.10	176.40
<b>ESTIMATED RENTAL TOTALS</b>		<b>14,833</b>		<b>159.38</b>	<b>528.53</b>	<b>1,673.78</b>

\* NO SALES TAX ON RENTALS

<p style="text-align: center;">1      <b>TRUCK LOADS ON (DELIVERY)</b></p>	<p style="text-align: center;">1      <b>TRUCK LOADS OFF (PICKUP)</b></p>
<p style="text-align: center;">139.00      <b>PER HOUR PORTAL TO PORTAL</b></p>	<p style="text-align: center;">2.00      <b>HOURS PER TRUCK PORTAL TO PORTAL</b></p>

**\*ESTIMATED TOTAL TRANSPORTATION (DELIVERY AND PICKUP):** **556.00**

\*QUOTE IS VALID FOR 30 DAYS FROM DATE ISSUED AND IS SUBJECT TO CHANGE IF NOT YET AGREED.  
 \*RATES WILL BE REVIEWED ANNUALLY.

\*TOTAL TRANSPORTATION COST IS AN ESTIMATE ONLY FOR TOTAL TRUCKING INCLUDING DELIVERY AND PICKUP AND MAY INCREASE OR DECREASE BASED ON TOTAL TIME INCLUDING TIME ON JOB.

\*ENGINEERING COST IS FOR SITE SPECIFIC ENGINEERED SHORING DESIGN.  
 ENGINEERING COST IS AN ESTIMATE ONLY AND CAN VARY DEPENDING ON SITE CONDITIONS.

\*\*CUSTOMER MAY NEED TO UNLOAD FLAT BED SEMITRUCKS UPON DELIVERY.  
 \*\*CUSTOMER MUST UNLOAD/LOAD AND ASSEMBLE/DIS-ASSEMBLE THESE ITEMS AT TIMES OF DELIVERY/PICK-UP.

\_\_\_\_\_  
 Sign here to accept quote

\_\_\_\_\_  
 Date Accepted

Return Initialed & Signed copy of quote to place order.

If you have any further questions, please give me a call.  
 Thank you for the opportunity to provide you with a quote.

Sincerely,  
 Jim White

jimw@trenchshoring.com



BRANCH 509  
10632 MONTE VISTA AVE  
MONTCLAIR CA 91763-4719  
909-624-9615

# 225786726-002

Job site

RIALTO JOBSITE  
3010 N CEDAR  
RIALTO CA 92377

Office: 480-829-6333 Cell: 602-501-6051

Customer # : 450403  
Invoice Date : 10/19/23  
Rental Out : 10/11/23 12:14 PM  
Rental In : 10/16/23 09:23 AM  
UR Job Loc : 3010 N CEDAR, RIALTO  
UR Job # : 274  
Customer Job ID:  
P.O. # : 03269418  
Requested By : ERICK SAUCEDO  
Reserved By : JOSEPH PENNACHIO  
Salesperson : KENNETH MCGRATH

PCL CONSTRUCTION INC TEMPE  
1711 W GREENTREE DR STE 201  
TEMPE AZ 85284-2717

**Invoice Amount: \$1,466.28**

Terms: Net 30 Days  
Payment options: Contact our credit office 704-916-4892  
**REMIT TO:** UNITED RENTALS (NORTH AMERICA),INC.  
P.O. BOX 051122  
LOS ANGELES CA 90074-1122

RENTAL ITEMS:

Qty	Equipment	Description	Minimum	Day	Week	4 Week	Amount
1	10947199	COMPRESSOR 175-195 CFM TIER 4 Make: SULLAIR Model: 185DPQ-KU-T3 Serial: 201810300054 Meter out: 699.60 Meter in: 707.60	125.00	125.00	325.00	685.00	325.00
1	11529731	RIVET BUSTER AIR JUMBO Make: APT Model: M133CN Serial: M133CN2202143		115.00	267.00	648.00	267.00
1	11717911	RIVET BUSTER AIR JUMBO Make: APT Model: M133CN Serial: M133CN2202033		115.00	267.00	648.00	267.00
2	110/4630	MOIL POINT 12" RIVET BUSTER	13.00	20.00	40.00	106.00	80.00
1	11362897	BREAKER PAVEMENT AIR 30# Make: APT Model: M117 Serial: M117517656	37.00	37.00	85.00	198.00	85.00
1	110/4390	MOIL POINT 1 1/4" X 6"	11.00	16.00	34.00	76.00	34.00
2	110/2400	AIR HOSE 3/4" X 50'	17.00	26.00	55.00	114.00	110.00
Rental Subtotal:							1,168.00

SALES/MISCELLANEOUS ITEMS:

Qty	Item	Price	Unit of Measure	Extended Amt.
1	DELIVERY CHARGE	100.000	EACH	100.00
1	PICKUP CHARGE	100.000	EACH	100.00
Sales/Misc Subtotal:				200.00
Agreement Subtotal:				1,368.00
Tax:				98.28
Total:				1,466.28

COMMENTS/NOTES:

CONTACT: KEVIN HARLOW  
CELL#: 909-827-7506  
DLV/PKU LOC SELECTED BY MAP PIN OPTION

Effective January 1, 2021 and where permitted by law, United Rentals may impose a surcharge of 1.8% for credit card payments on charge accounts. This surcharge is not greater than our merchant discount rate for credit card transactions and is subject to sales tax in some jurisdictions.

NOTICE: This invoice is subject to the terms and conditions of the Rental and Service Agreement, which are available at <https://www.unitedrentals.com/legal/rental-service-terms-US> and which are incorporated herein by reference. A COPY OF THE RENTAL AND SERVICE AGREEMENT TERMS ARE AVAILABLE IN PAPER FORM UPON REQUEST.

BRANCH 469  
2450 MULBERRY ST  
RIVERSIDE CA 92501-2225  
951-778-4778  
951-778-4774 FAX

# 224504215

Job Site

RIALTO JOBSITE  
3010 N CEDAR  
RIALTO CA 92377

Office: 480-829-6333 Cell: 602-501-6051

Customer # : 450403  
Quote Date : 09/12/23  
Estimated Out : 09/18/23 09:00 AM  
Estimated In : 10/16/23 08:00 AM  
UR Job Loc : 3010 N CEDAR, RIALTO  
UR Job # : 274  
Customer Job ID:  
P.O. # : TBD  
Requested By : ERICK SAUCEDO  
Written By : JUAN FIGUEROA  
Salesperson : JUAN FIGUEROA

PCL CONSTRUCTION INC TEMPE  
1711 W GREENTREE DR STE 201  
TEMPE AZ 85284-2717

**This is not an invoice  
Please do not pay from this document**

RENTAL ITEMS:							
Qty	Equipment	Description	Minimum	Day	Week	4 Week	Estimated Amt.
7	944/9944	ROAD PLATE 8' X 16'		9.00	56.00	222.00	1,554.00
3	944/9932	ROAD PLATE 6' X 12'		5.00	28.00	108.00	324.00
1	944/9935	ROAD PLATE 6' X 16'		36.00	108.00	312.00	312.00
7	944/9943	ROAD PLATE 8' X 12'		6.00	37.00	141.00	987.00
						Rental Subtotal:	3,177.00
SALES/MISCELLANEOUS ITEMS:							
Qty	Item		Price	Unit of Measure	Extended Amt.		
1	DELIVERY CHARGE		220.000	EACH	220.00		
1	PICKUP CHARGE		220.000	EACH	220.00		
						Sales/Misc Subtotal:	440.00
						Agreement Subtotal:	3,617.00
						Tax:	263.27
						Estimated Total:	3,880.27

COMMENTS/NOTES:

CONTACT: KEITH HANSEN  
CELL#: 562-972-5529  
\$110/HR PORTAL TO PORTAL

This proposal may be withdrawn if not accepted within 30 days. The above referenced Rental Protection Plan, environmental, and tax charges are estimates and are subject to change.

NOTICE: This is not a rental agreement. The rental of equipment and any items listed above is subject to availability and subject to the terms and conditions of the Rental and Service Agreement, which are available at <https://www.unitedrentals.com/legal/rental-service-terms-US> and which are incorporated herein by reference. A COPY OF THE RENTAL AND SERVICE AGREEMENT TERMS ARE AVAILABLE IN PAPER FORM UPON REQUEST.



*Power, Control and Instrumentation Contractor Since 1979*

10/25/2023

Kevin Goetz  
PCL Construction, Inc.  
1711 W. Greentree Drive, Suite 201  
Tempe, AZ 85284

**Re: Oliver P. Roemer Water Filtration Facility Expansion (Phase 1) – Roemer WFF Expansion  
CE22030-008 – Existing LP-E In Slab Conduit Reroute**

Mr. Kevin Goetz:

Please see Leed Electric's price for the referenced T&M work. Itemized breakdown sheets are attached indicating labor and material components.

**Work Scope:**

- Investigated conduit run from LP-E to PLC-2 and NOAH Fill/Chemical Tank
- X-ray of concrete walls/floor to locate conduit run
- Wire removed due to damage while coring

**Exclusions:**

- Per original Contract
- Design, Engineering & Detailing
- Shift Work, Overtime, Saturday & Sunday Work

**Clarifications:**

- Quote is based on regular straight time hours and timely coordination of trades.

 **Total Cost: \$ 2,658.00**

As always should you have any questions or concerns regarding this issue, please contact me at your convenience.

Sincerely,

**Ken Rivero-Rivera**  
Project Manager



# Estimate Proposal and Change Order Form

## LEED ELECTRIC INC.

1315 Santa Fe Springs Blvd  
 Santa Fe Springs, CA 90670  
 TEL: (562) 270-9500  
[www.LEEDELECTRIC.com](http://www.LEEDELECTRIC.com)

3.2.a

<b>Project:</b> <u>WVWD Oliver Roemer Water Filtration DB</u>	<b>LEI CE#</b> <u>CE22030-008</u>	<b>DATE:</b> <u>10/25/2023</u>
<b>Contract:</b> <u>C22-030</u>	<b>RFI #</b> _____	<b>LOCAL:</b> <u>11</u>
<b>Customer:</b> <u>PCL Construction</u>	<b>CD/DOC #</b> _____	<b>ESTIMATOR:</b> <u>KR</u>

**Description of Work:** Planned/Mapped existing LP-E In Slab Conduit Reroute to PLC-2. X-ray of concrete walls to avoid coring through conduit.

<b>I. Material</b>		
1. Material (See attached detail sheet)		\$ -
2. Quoted Material & Services (See attached vendor quotes)		\$ -
3. Allowance Miscellaneous Material/Consumables/Small Tools	2.00% of Line 1 & 2	\$ -
4. Subtotal:		\$ -
5. Sales Tax at applicable rate	7.75% of Line 4	\$ -
6. Shipping and Handling		\$ -
<b>7. Total Material Cost:</b>		<b>\$ -</b>

<b>II. Field Labor</b>	Regular Time	Over Time x1.5	Over Time x2.0
8a. Electrician Labor Man Hours (see attached detail sheet)	14.00 hrs	0.00 hrs	0.00 hrs
8b. Job Factor	0.00 hrs	0.00 hrs	0.00 hrs
8c. Electrician Labor Efficiency Factor	0.00 hrs	0.00 hrs	0.00 hrs
8d. Safety	0.00 hrs	0.00 hrs	0.00 hrs
8e. Clean-up	0.00 hrs	0.00 hrs	0.00 hrs
8f. As -Built Drawings	0.00 hrs	0.00 hrs	0.00 hrs
<b>8g. TOTAL ESTIMATED DIRECT LABOR MH (8a thru 8f)</b>	<b>14.00 hrs</b>	<b>0.00 hrs</b>	<b>0.00 hrs</b>
9. Electrician hours (from 8g above-Regular Time)	2.00 hrs @	\$109.07 /hour	\$ 218.14
9a. Electrician hours (from 8g above-OT 1.5x)	0.00 hrs @	\$146.66 /hour	\$ -
9b. Electrician hours (from 8g above-OT 2.0x)	0.00 hrs @	\$184.25 /hour	\$ -
10. Working Foreman/GF (Regular Time)	12.00 hrs @	\$128.91 /hour	\$ 1,546.92
10a. Working Foreman/GF (Over Time 1.5x)	0.00 hrs @	\$175.97 /hour	\$ -
10b. Working Foreman/GF (Over Time 2.0x)	0.00 hrs @	\$223.04 /hour	\$ -
11. Project Superintendent (Regular Time)	0.00 hrs @	\$154.69 /hour	\$ -
12. Project Labor (Other Trades/UG Trenching)	0.00 hrs @	\$87.26 /hour	\$ -
13. Total Direct Labor 9 thru 12	14.00		\$ 1,765.06
14. Allowance Miscellaneous Material/Consumables/Small Tools	2.00%		\$ 35.30
15. Overtime Expense from attached Schedule if applicable.			
<b>16. TOTAL LABOR COST:</b>			<b>\$ 1,800.36</b>

<b>III. DIRECT JOB EXPENSE</b>			
17. Truck w/tools	10.00 hrs @	\$42.39 /hour	\$ 423.90
18. Bending/Threading Trailer	0.00 hrs @	\$14.56 /hour	\$ -
19. Power Generator (under 10KW)	0.00 hrs @	\$4.66 /hour	\$ -
20. Prefabrication	0.00 hrs @	\$128.91 /hour	\$ -
21. Design Asst. Solution	0.00 hrs @	\$87.68 /hour	\$ -
22. Project Manager	0.00 hrs @	\$165.00 /hour	\$ -
23. Make Copies of Prints	0.00	\$75.00	\$ -
24. Rented/Owned Tools & Equipment (See attached Equipment list)			\$ -
25. Allowance Miscellaneous Material/Consumables/Small Tools	2.00%		\$ 8.48
<b>26. TOTAL EXPENSES:</b>			<b>\$ 432.38</b>

<b>IV. OVERHEAD AND PROFIT</b>			
27. Material			\$ -
28. Material Markup	15.0% of line 27		\$ -
29. Field Labor			\$ 1,800.36
30. Field Labor Markup	20.0% of line 29		\$ 360.07
31. Direct Job Expense			\$ 432.38
32. Direct Job Expense Markup	15.0% of line 31		\$ 64.86
<b>33. Subcontract (See attached subcontractor quotes)</b>			\$ -
<b>34. Subcontract markup</b>	15.0% of line 33		\$ -
35. Totals of Line 27 through 34			\$ 2,657.67
36. Extended Overhead Breakdown (see attached Breakdown sheet)			\$ -
37. Inefficiency Costs (see attached worksheet)			\$ -
38. Subtotal			\$ 2,657.67
39. Bond Adder	0.00% of line 38		\$ -

**40. TOTAL FOR THIS ESTIMATE** **\$ 2,658.00**

**V. EXTENSION OF TIME REQUIRED:**  X  Working Days Based on a  X  men crew

Note: Pricing is firm for 14 calendar days from the date of this cost proposal unless noted otherwise herein.



# EXTRA WORK ORDER

## LEED ELECTRIC INC.

ELECTRICAL/INSTRUMENTATION CONTRACTORS SINCE 1979  
CONTRACTORS LICENSE 379096 C-10

13138 ARCTIC CIRCLE  
SANTA FE SPRING, CA 94588  
TEL: (925) 947-1100  
FAX: (562) 863-5723  
E: INFO@LEEDELECT.COM

3.2.a

BILL TO  
COMPANY: **PCL**  
ADDRESS:  
CITY: STATE: ZIP:  
AUTHORIZED BY:

CE NO.: **22030-008**

COST EVENT NUMBER MUST BE  
REQUESTED FROM LEED ELECTRIC'S OFFICE

DATE: **10-9-23**  
JOB NO.: **C-22-030**  
JOB NAME: **Oliver Roemer**  
CUST. REF. NO.:  
FOREMAN: **Mark Comstock**

WORK PROPOSAL/DESCRIPTION: **Investigated conduits routed in slab from LP-E to NOAH Fill/Chemical tank and PLC-2.**

### LABOR

EMPLOYEE NAME	HOURS			WAGE RATE	EMPLOYEE NAME	HOURS			WAGE RATE
	ST	T 1/2	DT			ST	T 1/2	DT	
Mark Comstock	3			FRM					
Greg Powers	2			FRM					
Giovanni Enriquez	2			App.					

### MATERIAL

QUANTITY	DESCRIPTION	UNIT	QUANTITY	DESCRIPTION	UNIT

### SUPPLIER / SUBCONTRACTOR

PO NO.	DESCRIPTION	COMPANY	PO NO.	DESCRIPTION	COMPANY

### EQUIPMENT

UNIT NO.	DESCRIPTION	HOURS	UNIT NO.	DESCRIPTION	HOURS
V2309	Work Truck	3			

BY UNDERSIGNING BELOW I CERTIFY THAT I HAVE THE AUTHORITY AND HAVE AUTHORIZED THE ABOVE WORK REQUESTED. I AGREE TO THE TERMS AND CONDITIONS SET FORTH BY THIS AGREEMENT.

CUSTOMER  
SIGNATURE:   
TITLE: **Superintendent** DATE: **10/4/2023**

LEED ELECTRIC INC. **No 12106**  
SIGNATURE:   
TITLE: **Foreman** DATE: **10-9-23**



# EXTRA WORK ORDER

## LEED ELECTRIC INC.

ELECTRICAL/INSTRUMENTATION CONTRACTORS SINCE 1979  
CONTRACTORS LICENSE 379098 C-10

13138 AR  
SANTA FE SPRING  
TEL: (562) 270-9500  
FAX: (562) 863-5723  
E: INFO@LEEDELECT.COM

3.2.a

BILL TO: **CE NO.: 22030-008** DATE: 10-10-2023  
 COMPANY: **PCA** COST EVENT NUMBER MUST BE JOB NO.: **C22-020**  
 ADDRESS: REQUESTED FROM LEED ELECTRIC'S OFFICE JOB NAME: **Oliver Roemer.**  
 CITY: STATE: ZIP: CUST. REF. NO.:  
 AUTHORIZED BY: TEL: ( ) FOREMAN: **Mark Comstock**

WORK PROPOSAL/DESCRIPTION: **Opened Panel LPE to assist with X-Ray of concrete walls + floor to locate conduit run from LPE to PLC-2. X-Ray is to avoid coring through conduit. The XRAY core is for Mechanical pipe**

LABOR									
EMPLOYEE NAME	HOURS			WAGE RATE	EMPLOYEE NAME	HOURS			WAGE RATE
	ST	T 1/2	DT			ST	T 1/2	DT	
Mark Comstock	3			FRM					

MATERIAL					
QUANTITY	DESCRIPTION	UNIT	QUANTITY	DESCRIPTION	UNIT

SUPPLIER / SUBCONTRACTOR					
PO NO.	DESCRIPTION	COMPANY	PO NO.	DESCRIPTION	COMPANY

EQUIPMENT					
UNIT NO.	DESCRIPTION	HOURS	UNIT NO.	DESCRIPTION	HOURS
V-2309	Work Truck	3			

BY UNDERSIGNING BELOW I CERTIFY THAT I HAVE THE AUTHORITY AND HAVE AUTHORIZED THE ABOVE WORK REQUESTED. I AGREE TO THE TERMS AND CONDITIONS SET FORTH BY THIS AGREEMENT.

CUSTOMER SIGNATURE: *[Signature]* TITLE: **Superintendent** DATE: **10-10-2023**  
 LEED ELECTRIC INC. **№ 12108**  
 SIGNATURE: *[Signature]* TITLE: **Foreman** DATE: **10-10-2023**





# EXTRA WORK ORDER

## LEED ELECTRIC INC.

ELECTRICAL/INSTRUMENTATION CONTRACTORS SINCE 1979  
CONTRACTORS LICENSE 379096 C-10

13138 AR...  
SANTA FE SPRING  
TEL: (562) 270-9500  
FAX: (562) 863-5723  
E: INFO@LEEDELECT.COM

3.2.a

BILL TO: **CE NO.: 22030-008** DATE: **10-11-23**  
 COMPANY: **PCL** COST EVENT NUMBER MUST BE JOB NO.: **022-030**  
 ADDRESS: REQUESTED FROM LEED ELECTRIC'S OFFICE JOB NAME: **Oliver Roemer**  
 CITY: STATE: ZIP: CUST. REF. NO.:  
 AUTHORIZED BY: TEL: ( ) FOREMAN: **Mark Comstock**

WORK PROPOSAL/DESCRIPTION: **Safe off wire Fed from LPE to Sodium Hydroxide skid. Removed wire and coiled up to save for possible future use. Mapped Run for new conduit run to re feed Sodium Hydroxide skid. The wire was removed due to damage while coring**

LABOR									
EMPLOYEE NAME	HOURS			WAGE RATE	EMPLOYEE NAME	HOURS			WAGE RATE
	ST	T 1/2	DT			ST	T 1/2	DT	
Mark Comstock	4			FRM					

MATERIAL					
QUANTITY	DESCRIPTION	UNIT	QUANTITY	DESCRIPTION	UNIT

SUPPLIER / SUBCONTRACTOR					
PO NO.	DESCRIPTION	COMPANY	PO NO.	DESCRIPTION	COMPANY

EQUIPMENT					
UNIT NO.	DESCRIPTION	HOURS	UNIT NO.	DESCRIPTION	HOURS
02309	Work truck	4			

BY UNDERSIGNING BELOW I CERTIFY THAT I HAVE THE AUTHORITY AND HAVE AUTHORIZED THE ABOVE WORK REQUESTED. I AGREE TO THE TERMS AND CONDITIONS SET FORTH BY THIS AGREEMENT.

CUSTOMER SIGNATURE: *[Signature]* TITLE: **Superintendent** DATE: **10-11-2023**

LEED ELECTRIC INC. **№ 12105**  
 SIGNATURE: *[Signature]* TITLE: **Foreman** DATE: **10-11-23**



Power, Control and Instrumentation Contractor Since 1979

13138 ARC  
SANTA FE SPRINGS, CA 90670  
TEL: (562) 270-9500  
FAX: (562) 863-5723

10/25/2023

**THIS WORK IS PENDING TO BE DONE**

Kevin Goetz  
PCL Construction, Inc.  
1711 W. Greentree Drive, Suite 201  
Tempe, AZ 85284

**Re: Oliver P. Roemer Water Filtration Facility Expansion (Phase 1) – Roemer WFF Expansion  
CE22030-009 – Reroute of Sodium Hydroxide Conduit**

Mr. Kevin Goetz:

Leed Electric is pleased to quote you our price for the electrical work involved in the above referenced change to our scope of work. Itemized breakdown sheets are attached indicating labor and material components.

**Work Scope:**

- Reroute conduit to the sodium hydroxide skid (See attached markup for further details)
- Install new wire from LP-E to sodium hydroxide skid

**Exclusions:**

- Per original Contract
- Reroute of the spare conduit that was damaged by PCL
- Design, Engineering & Detailing
- Shift Work, Overtime, Saturday & Sunday Work

**Clarifications:**

- Quote is based on regular straight time hours and timely coordination of trades.
- An extension of 2 working days in contract time is required.
- Pricing is firm for 2 weeks from the date of this cost proposal unless noted otherwise herein.

 **Total Cost: \$ 7,940.00**

As always should you have any questions or concerns regarding this issue, please contact me at your convenience.

Sincerely,

**Ken Rivero-Rivera**  
Project Manager



# Estimate Proposal and Change Order Form

## LEED ELECTRIC INC.

13150 Camino del Rio  
 Santa Fe Springs, CA 90670  
 TEL: (562) 270-9500  
[www.LEEDELECTRIC.com](http://www.LEEDELECTRIC.com)

3.2.a

<b>Project:</b>	<u>WVWD Oliver Roemer Water Filtration DB</u>	<b>LEI CE#</b>	<u>CE22030-009</u>	<b>DATE:</b>	<u>10/25/2023</u>
<b>Contract:</b>	<u>C22-030</u>	<b>RFI #</b>		<b>LOCAL:</b>	<u>11</u>
<b>Customer:</b>	<u>PCL Construction</u>	<b>CD/DOC #</b>		<b>ESTIMATOR:</b>	<u>KR</u>

**Description of Work:** Reroute conduit to the sodium hydroxide skid. Install new wire from LP-E to sodium hydroxide skid

<b>I. Material</b>		
1 . Material (See attached detail sheet)		\$ 1,222.80
2 . Quoted Material & Services (See attached vendor quotes)		\$ -
3 . Allowance Miscellaneous Material/Consumables/Small Tools	2.00% of Line 1 & 2	\$ 24.46
4 . Subtotal:		\$ 1,247.26
5 . Sales Tax at applicable rate	7.75% of Line 4	\$ 96.66
6 . Shipping and Handling		\$ -
<b>7 . Total Material Cost:</b>		<b>\$ 1,343.92</b>

<b>II. Field Labor</b>			
	Regular Time	Over Time x1.5	Over Time x2.0
8a . Electrician Labor Man Hours (see attached detail sheet)	32.00 hrs	0.00 hrs	0.00 hrs
8b . Job Factor	0.00 hrs	0.00 hrs	0.00 hrs
8c . Electrician Labor Efficiency Factor	0.00 hrs	0.00 hrs	0.00 hrs
8d . Safety	0.00 hrs	0.00 hrs	0.00 hrs
8e . Clean-up	0.00 hrs	0.00 hrs	0.00 hrs
8f . As -Built Drawings	0.00 hrs	0.00 hrs	0.00 hrs
<b>8g . TOTAL ESTIMATED DIRECT LABOR MH (8a thru 8f)</b>	<b>32.00 hrs</b>	<b>0.00 hrs</b>	<b>0.00 hrs</b>
9 . Electrician hours (from 8g above-Regular Time)	16.00 hrs @	\$109.07 /hour	\$ 1,745.12
9a . Electrician hours (from 8g above-OT 1.5x)	0.00 hrs @	\$146.66 /hour	\$ -
9b . Electrician hours (from 8g above-OT 2.0x)	0.00 hrs @	\$184.25 /hour	\$ -
10 . Working Foreman/GF (Regular Time)	16.00 hrs @	\$128.91 /hour	\$ 2,062.56
10a . Working Foreman/GF (Over Time 1.5x)	0.00 hrs @	\$175.97 /hour	\$ -
10b . Working Foreman/GF (Over Time 2.0x)	0.00 hrs @	\$223.04 /hour	\$ -
11 . Project Superintendent (Regular Time)	0.00 hrs @	\$154.69 /hour	\$ -
12 . Project Labor (Other Trades/UG Trenching)	0.00 hrs @	\$87.26 /hour	\$ -
13 . Total Direct Labor 9 thru 12	32.00		\$ 3,807.68
14 . Allowance Miscellaneous Material/Consumables/Small Tools	2.00%		\$ 76.15
15 . Overtime Expense from attached Schedule if applicable.			
<b>16 . TOTAL LABOR COST:</b>			<b>\$ 3,883.83</b>

<b>III. DIRECT JOB EXPENSE</b>			
17 . Truck w/tools	16.00 hrs @	\$42.39 /hour	\$ 678.24
18 . Bending/Threading Trailer	0.00 hrs @	\$14.56 /hour	\$ -
19 . Power Generator (under 10KW)	0.00 hrs @	\$4.66 /hour	\$ -
20 . Prefabrication	0.00 hrs @	\$128.91 /hour	\$ -
21 . Design Asst. Solution	0.00 hrs @	\$87.68 /hour	\$ -
22 . Project Manager	0.00 hrs @	\$165.00 /hour	\$ -
23 . Make Copies of Prints	0.00	\$75.00	\$ -
24 . Rented/Owned Tools & Equipment			\$ 800.00
25 . Allowance Miscellaneous Material/Consumables/Small Tools	2.00%		\$ 29.56
<b>26 . TOTAL EXPENSES:</b>			<b>\$ 1,507.80</b>

<b>IV. OVERHEAD AND PROFIT</b>		
27 . Material		\$ 1,343.92
28 . Material Markup	15.0% of line 27	\$ 201.59
29 . Field Labor		\$ 3,883.83
30 . Field Labor Markup	20.0% of line 29	\$ 776.77
31 . Direct Job Expense		\$ 1,507.80
32 . Direct Job Expense Markup	15.0% of line 31	\$ 226.17
<b>33 . Subcontract (See attached subcontractor quotes)</b>		\$ -
<b>34 . Subcontract markup</b>	15.0% of line 33	\$ -
35 . Totals of Line 27 through 34		\$ 7,940.08
36 . Extended Overhead Breakdown (see attached Breakdown sheet)		\$ -
37 . Inefficiency Costs (see attached worksheet)		\$ -
38 . Subtotal		\$ 7,940.08
39 . Bond Adder	0.00% of line 38	\$ -

**40. TOTAL FOR THIS ESTIMATE** **\$ 7,940.00**

**V. EXTENSION OF TIME REQUIRED:** 2 Working Days Based on a 2 men crew

Note: Pricing is firm for 14 calendar days from the date of this cost proposal unless noted otherwise herein.

**LEED ELECTRIC INC****PROJECT NAME****BILL OF MATERIAL**

ATT: Kevin Goetz

CE 009

Prepared By: Ken Rivero-Rivera

Date: 10/25/2023

NO	Description	QTY	U	U Cost	Total Cost
1	1" GRC (GALV)	120.00	LF	\$ 4.39	\$ 526.45
2	1" GRC MYERS HUB	2.00	EA	\$ 15.61	\$ 31.21
3	1" LB MALL BODY, CVR, GSKT	2.00	EA	\$ 20.28	\$ 40.56
4	1" CLAMP BACK	15.00	EA	\$ 3.57	\$ 53.59
5	#12 THHN	1690.00	LF	\$ 0.17	\$ 289.02
6	P-1000 1 5/8" STRUT	30.00	LF	\$ 7.98	\$ 239.37
7	3/8-16x 3 1/4 WEDGE ANCHOR - 1 1/2" MIN DEPTH	20.00	EA	\$ 2.13	\$ 42.60
8					\$ -
9					\$ -
10					\$ -
11					\$ -
12					\$ -
13					\$ -
14					\$ -
15					\$ -
16					\$ -
17					\$ -
18					\$ -
19					\$ -
20					\$ -
21					\$ -
22					\$ -
23					\$ -
24					\$ -
25					\$ -
26					\$ -
27					\$ -
28					\$ -
29					\$ -
30					\$ -

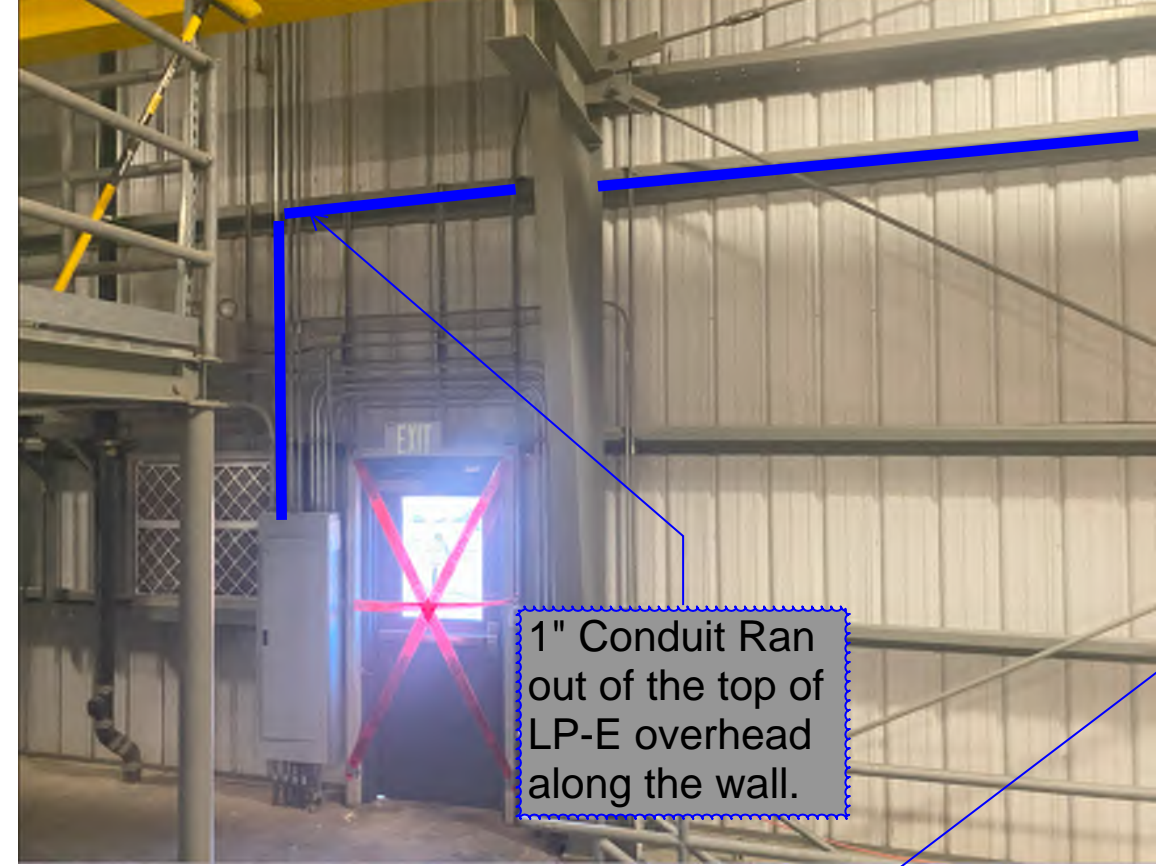
TOTAL: \$ 1,222.80

S&amp;H:

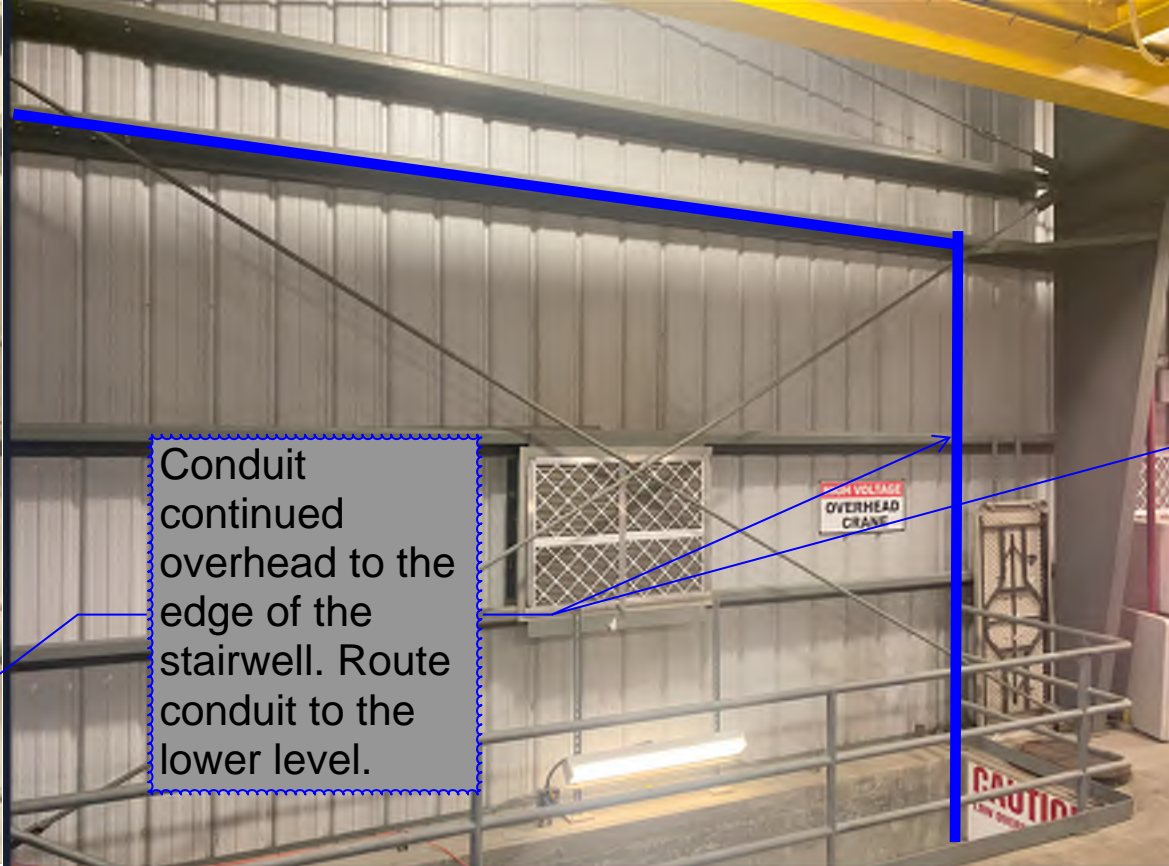
SALES TAX PERCENTAGE: 7.75%

SALES TAX: \$ 94.77

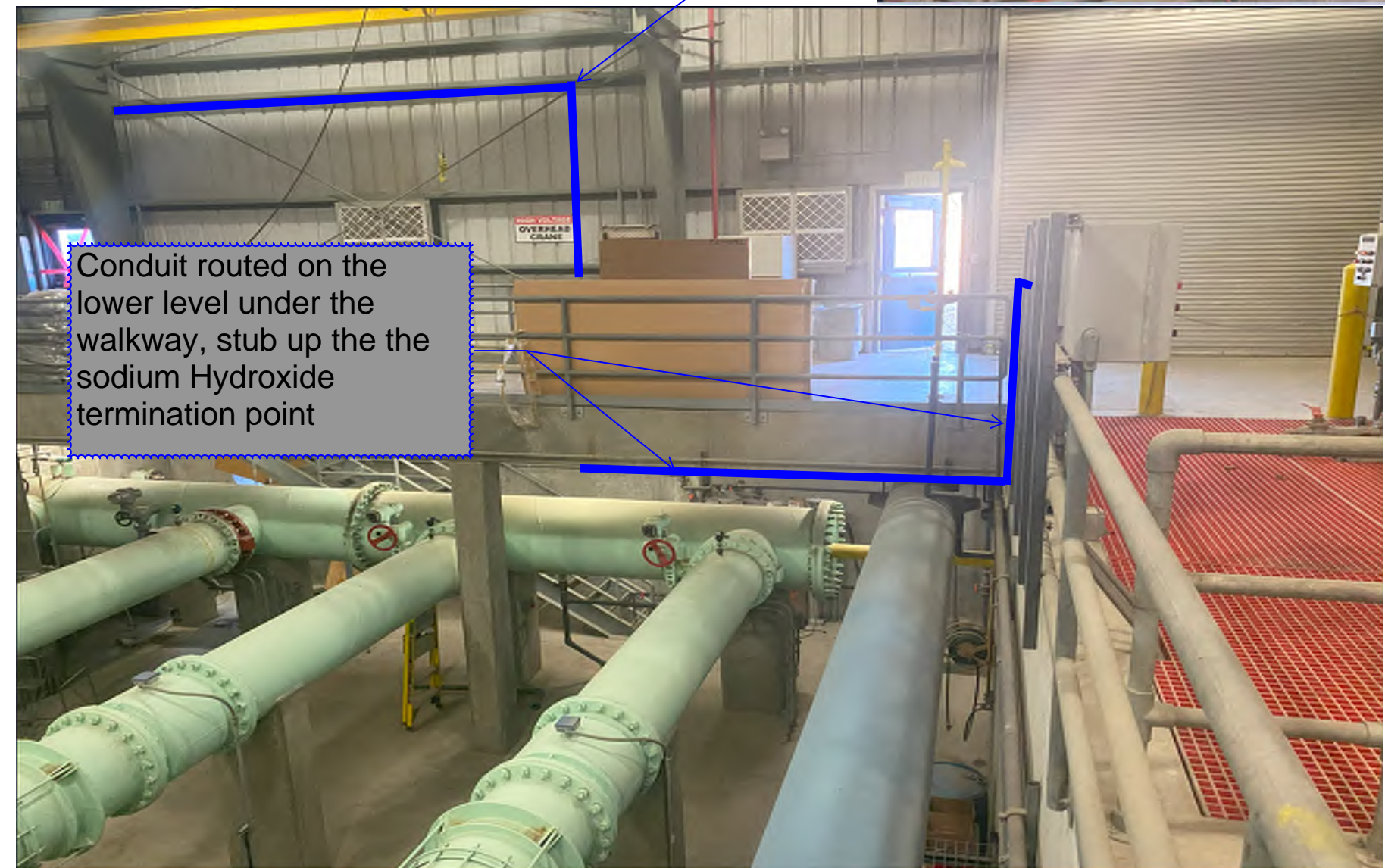
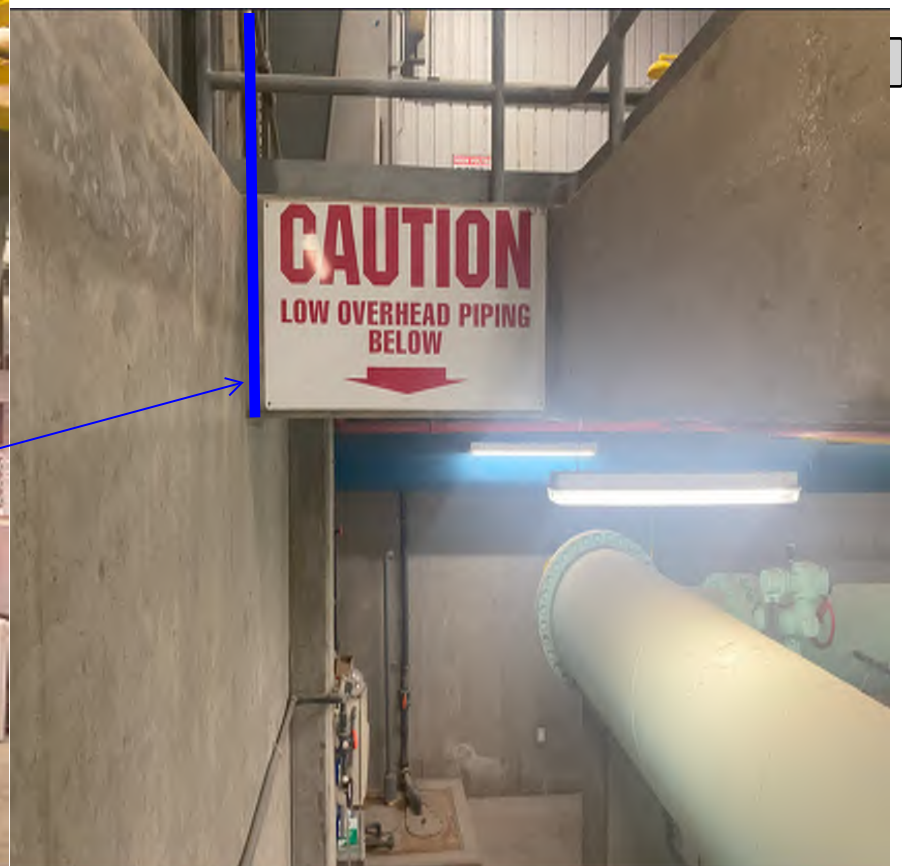
TOTAL COST: \$ 1,317.57



1" Conduit Ran out of the top of LP-E overhead along the wall.



Conduit continued overhead to the edge of the stairwell. Route conduit to the lower level.



Conduit routed on the lower level under the walkway, stub up the the sodium Hydroxide termination point

ITEM 2



October 17, 2023

Paul Hermann  
Water Market Leader  
GHD  
320 Goddard Way, Suite 200  
Irvine, CA 92618

Linda Jadeski  
Director of Engineering  
West Valley Water District  
855 W. Base Line P.O. Box 920  
Rialto, CA 92377

Attn: Paul Hermann and Linda Jadeski

**RE: Request for Change due to Differing Site Conditions – Existing Main Ductbank reroute - Oliver P Roemer Water Filtration Facility Upgrade and Expansion Project**

Mr. Hermann and Mrs. Jadeski,

Please accept this correspondence as a Change Request for the relocation of the existing ductbank between vault HH-11 and H-1. PCL notified the District and GHD on June 27, 2023 of the differing site condition that the existing ductbank location conflicts with the future retaining wall's intended location and that the ductbank needs to be rerouted to resolve the conflict. PCL understands that the current depth of the existing ductbank between vault HH-11 and H-1 differs from all the information available in the Contract documents, which led PCL to assume the aforementioned ductbank was running at a deeper elevation than it currently is. Therefore, we see this being characterized as differing site conditions supported by the following points:

1. The Record drawing E-3 from the "West Valley Water District Oliver P. Roemer Water Filtration Facilities Expansion" set provided to PCL does not provide a profile with elevations for the ductbank between vault HH-11 and H-1. While drawing E-3 calls for a 2 feet minimum coverage for existing ductbanks, other information provided within the 30% design drawings strongly implies a deeper ductbank elevation. For instance, although the 30% design drawings have several other reroutes that are called out in the area, for example, the GAC and the 24" UV recovery lines reroutes, there are no callouts anywhere in that set nor within the Contract documents that indicate the ductbank to be rerouted. Moreover, the as-built shows a standard detail for minimum cover, which very seldom is achieved in actual ductbank runs through plants due to crossings and other factors. For instance, most of the new ductbanks that are part of PCL's scope of work do not have the minimum coverage due to insufficient clearance to existing utilities.

**PCL CONSTRUCTION INC.**  
3900 Kilroy Airport Way Ave, Suite 110  
Long Beach, CA 90806  
Telephone: (858) 657-3400 ♦ Website: [www.pcl.com](http://www.pcl.com)

2. The 30% design drawing S-101 indicates that only one of five utilities crossing the new retaining wall needed to be rerouted. Additionally, civil drawing C-104 indicates that the 24" UV recovery line needs to be rerouted at a deeper elevation in order to avoid conflicting with the new wall. The 30% drawing C-104/1 clearly illustrates both the new 24" line and existing ductbank coexisting in the area as the design intent. This is corroborated by cut section A, which depicts the proposed new 24" UV Recovery line with an approximate three-foot coverage. Given the ductbank section being approximately 3'-0" deep, there would be clearly no space for it to be placed above the 24" UV recovery line, which is another reason for PCL to have assumed that the existing ductbank was running at a much deeper elevation rather than the 2-foot minimum coverage indicated in the record drawings. Based on field investigations performed after the project had been awarded to PCL, it was discovered that the ductbank would not only conflict with the new retaining wall but also with the proposed 24" UV recovery reroute and need to be rerouted.
3. It was understood that for all the other three utilities crossing (apart from the 24" UV reroute that is clearly shown to be rerouted) the retaining wall, the blockout detail at the retaining wall foundation indicates a typical crossing blockout detail at the retaining wall footing. This implies that all the utilities on the site were expected to have a maximum elevation matching the retaining wall footing.
4. Being an underground utility, the only way to confirm the effective ductbank coverage is through potholing or non-destructive utility investigations, such as Ground Penetrating Radar (GPR), which could only be done after the project was awarded to PCL. Until then, all information used to prepare PCL's proposal was based on the information provided to PCL through the RFP documents.
5. The 30% electrical drawings E-101, ED-101, and ED-102 indicate the routing of new ductbanks and all other electrical demolitions. However, none of the drawings above indicate that the ductbank between vault HH-1 and H-11 needs to be demolished or rerouted, despite being the main power feed and a major ductbank section. In fact, E-101 keynote 12 calls out the existing fiber optics route, which runs through the existing ductbank.
6. Stantec Consulting Services Inc (Stantec), the designer of the Oliver P Roemer Water Filtration Facility Upgrade and Expansion Project, also sees the design of the reroute of the existing ductbank as additional work, which is not covered in their scope of work. Stantec understands that the ductbank was not identified on the Design Criteria Report Drawings as an item that would require replacement. In addition, Stantec understands that the depth of the ductbank was not apparent from any of the site walks and visits before the job was awarded to the Design-Build team. Stantec's position regarding this matter is presented in the "Rerouted ductbank around retaining wall" correspondence, one of the attachments to this letter.

Finally, in accordance with the Prime Contract's section 4.2 – Differing Site Conditions, PCL respectfully and in good faith requests that the West Valley Water District accept this Change Request, as the Design-Builder finds that location of the existing ductbank between HH-1 and HH-11 materially differ and could not have been discovered, or reasonably inferred, from the Contract Documents or a thorough inspection of the Project Site by the Design-Builder. The reroute of the existing ductbank to avoid conflicting with the new





retaining wall and 24" UV recovery line will cause an impact to the Contract pricing. PCL is currently compiling this pricing package and will present to West Valley Water District as soon as it is ready.

Sincerely,

A handwritten signature in black ink, appearing to be "K. Goetz", written over a light gray rectangular background.

Kevin Goetz  
Project Manager  
[kgoetz@pcl.com](mailto:kgoetz@pcl.com)



**Stantec Consulting Services Inc.**  
300 North Lake Avenue, Suite 400  
Pasadena CA 91101-4169

October 17, 2023

Project/File: Roemer WFF Upgrades and Expansion Project

**Kevin Goetz**

PCL Construction, Inc.  
3900 Kilroy Airport Way, Ste 110  
Long Beach, CA 90806

Dear Kevin Goetz,

**Reference: Rerouted ductbank around retaining wall**

Through the course of field investigation, including detailed surveying and potholing, we have determined that the existing ductbank between existing handhole HH-1 at the Filter Building 1 and existing handhole HH-11 by the Blending Ponds passes through the location of the new retaining wall, and as a result, is required to be rerouted.

This ductbank was not identified on the Design Criteria Report Drawings as an item that would require replacement to avoid the retaining wall. This contrasts with several other utilities that were specifically noted that require rerouting due to the addition of the retaining wall. We reviewed the Design Criteria Report Drawings and found no indication that the duct would require rerouting on the Civil, Electrical, or Structural Drawings (which shows a typical detail of utilities passing under the retaining wall).

Additionally, the depth of the ductbank was not apparent from any of the site walks and visits made during the proposal period for this project. It was not until the project had begun, and the detailed work of surveying and potholing the site had begun, that enough information was available to inform us that the existing ductbank requires demolition and a new ductbank is required to reroute those conduits.

We consider this a change in condition.

Best regards,

**STANTEC CONSULTING SERVICES INC.**

A handwritten signature in blue ink, appearing to read 'Sean Neprud'.

**Sean Neprud** PE  
Design Manager  
Phone: (626) 568-6040  
sean.neprud@stantec.com

Click or tap here to enter text.

Design with community in mind

PCL Construction, Inc.  
3900 Kilroy Airport Way, Ste 110, Long Beach, CA 90806

# CHANGE ORDER PROPOSAL

PROJECT: Oliver P. Roemer WFF 2021 Expansion

CRX # 007

PCO # TBD  
DATE: 12/7/23  
ESTIMATOR:

DESCRIPTION:

Updated Electrical Routing from HH1 to HH11

**DIRECT ESTIMATE**

LABOR		\$	34,750
EQUIPMENT		\$	13,530
MATERIALS		\$	22,304
SUBCONTRACTOR		\$	513,293
<b>SUBTOTAL</b>		<b>\$</b>	<b>583,877</b>

**DIRECT MARKUP**

LABOR	25%	\$	8,688
EQUIPMENT	20%	\$	2,706
MATERIALS	15%	\$	3,346
SUBCONTRACTOR	5%	\$	25,665
<b>SUBTOTAL MARKUP</b>		<b>\$</b>	<b>40,404</b>

**SUBTOTAL WITH DIRECT MARKUP** \$ 624,280

**TOTAL ADDITIONAL WORK \$ 624,280**

**GRAND TOTAL THIS CHANGE \$ 624,280**

Total Amount Negotiated with the WVWD: \$200,000

PCO # CRX 007															DATE 12/07/23	
	QTY	UNIT	EQUIP		S.T. & S.*		LABOR EXPENSE				VENDOR SUPPLIED MATERIALS		SUBCONTRACTOR		TOTAL	
			U.P.	TOTAL	U.P.	TOTAL	MANHOURS		AMOUNT		U.P.	TOTAL	U.P.	TOTAL		
							MH/UNIT	TOTAL	U.P.	TOTAL						
<b>Labor</b>																
See Sheet 18 of CRX007 for Labor break down	1.0	LS					1.50	34,750.0		\$ 34,750						\$ 34,750
<b>EQUIPMENT</b>																
F-150 truck (13 days)	104.0	HRS	\$ 42.39	\$ 4,409												\$ 4,409
410L Backhoe (13 days)	104.0	HRS	\$ 79.88	\$ 8,308												\$ 8,308
Jumping Jack (3 days)	24.0	HRS	\$ 5.21	\$ 125												\$ 125
ForkLift 080-120	8.0	HRS	\$ 78.87	\$ 631												\$ 631
5Kw Generator (Concrete Placement)	8.0	HRS	\$ 5.76	\$ 46												\$ 46
Vibrator (Concrete Placement)	8.0	HRS	\$ 1.42	\$ 11												\$ 11
<b>Vendor Materials</b>																
Robertsons Ready Mix 30451C - (see quote for price breakdown)	1.0	LS									\$ 22,304	\$ 22,304				\$ 22,304
<b>Subcontractor</b>																
Ultra Engineering - Potholing (2 days)	16.0	HRS													\$ 6,740	\$ 6,740
Quality Rebar - Duct bank rebar install	1.0	LS													\$ 6,948	\$ 6,948
LEED Proposal CE22030-006 ; Duct Bank Reroute from HH1-HH-11	1.0	LS													\$ 480,635	\$ 480,635
Hardy & Harper - Asphalt Paving (Item 2 on subcontractor's proposal; Assumed one mob. total for this scope)	1,316.0	SF												\$5.36	\$ 7,054	\$ 7,054
Stantec - Design Services	1.0	LS												\$11,916	\$ 11,916	\$ 11,916
				\$ 13,530		\$ -		\$ 34,750		\$ 34,750		\$ 22,304			\$ 513,293	\$ 583,877
<b>MARKUPS</b>																
EQUIPMENT		20%		\$ 2,706												
LABOR		25%							\$ 8,688							
MATERIALS		15%									\$ 3,346					
SUBCONTRACTS		5%													\$ 25,665	
<b>SUBTOTALS WITH MARKUP</b>				\$ 16,235		\$ -		\$ 43,438		\$ 25,650		\$ 538,957			\$ 624,280	
Notes:																

Activity Description	Duct Bank Length (LF)	Quantity	UOM	ManHRS/Unit	Hours	\$/HR	Labor		Services/Tools Supplies		Total
							Personnel	Labor Role	\$/ItemUnit	Total	
Excavate new duct bank routing (190 LF)		153	CY	0.80	51.35	105.02		1 Operator Group 8			\$5,393
Excavate new duct bank routing					100.00	80.84		2 Laborer Group 4			\$8,084
Place duct bank concrete	190	92	CY	0.15	28.5	80.84		3 Laborer Group 4			\$2,304
Backfill duct bank after placement		61	CY		70	80.84		2 Laborer Group 4			\$5,659
Backfill duct bank after placement				0.56	35	105.02		1 Operator Group 8			\$3,676
<b>Duct Bank Install Total</b>				1.5	285						<b>\$25,115</b>
Drill holes to knock out window @ 2 vaults		2	EA		16	80.84		2 Laborer Group 4			\$1,293
Demo Existing Duct Bank		67	LF		24	105.02		1 Operator Group 8			\$2,520
Demo Existing Duct Bank		67	LF		48	80.84		2 Laborer Group 4			\$3,880
Patch work at vaults		2	EA		16	80.84		2 Laborer Group 4			\$1,293
Set Stay Form		40	LF		8	80.84		2 Laborer Group 4			\$647
<b>Existing Duct Bank Demo, Stayform Install and Vault Repair Totals</b>					112						<b>\$9,634</b>
<b>PCL Construction Self Performed Labor Total</b>					<b>397</b>						<b>\$34,750</b>

## Kevin Goetz

---

**From:** Kevin Goetz  
**Sent:** Tuesday, July 11, 2023 12:15 PM  
**To:** Linda Jadeski (ljadeski@wwwd.org); Paul Hermann  
**Cc:** Brandon Morlet; Jamal Awad  
**Subject:** RE: Update on the Ductbank by the new retaining wall  
**Attachments:** Pages from Ductbank Workbook.pdf

Paul,

Per our discussion, please see attached a rough sketch of the proposed solution to the ductbank conflict.

Essentially:

1. Reroute the existing electrical ductbank through an intermediate new vault
2. Since the east vault is too close to the proposed 24" UV tie-in, we would need to extend the new pipe tie-in point to the east side of the vault. That would also require a new valve to be installed on that tie-in

Please let me know if the District/GHD has any different ideas on this.

Thanks,

**Kevin Goetz, PMP, MBA**  
**Project Manager**

**PCL Construction, Inc.**  
 3900 Kilroy Airport Way, Ste 110  
 Long Beach, CA 90806  
 T: 213-358-5206  
[kgoetz@pcl.com](mailto:kgoetz@pcl.com)

[www.pcl.com](http://www.pcl.com)  
**TOGETHER WE BUILD SUCCESS**

---

**From:** Kevin Goetz  
**Sent:** Wednesday, July 5, 2023 1:54 PM  
**To:** Linda Jadeski (ljadeski@wwwd.org) <ljadeski@wwwd.org>; Paul Hermann <Paul.Hermann@ghd.com>  
**Cc:** Brandon Morlet <BPMorlet@pcl.com>; Jamal Awad <Jamal@awadengineering.com>  
**Subject:** RE: Update on the Ductbank by the new retaining wall

Paul/Linda,

As discussed this morning, please let me know when would be a good time to talk about the items below.

Thanks,

**Kevin Goetz, PMP, MBA**  
**Project Manager**

**PCL Construction, Inc.**  
 3900 Kilroy Airport Way, Ste 110  
 Long Beach, CA 90806  
 T: 213-358-5206

[kgoetz@pcl.com](mailto:kgoetz@pcl.com)

[www.pcl.com](http://www.pcl.com)

**TOGETHER WE BUILD SUCCESS**

---

**From:** Kevin Goetz

**Sent:** Tuesday, June 27, 2023 5:10 PM

**To:** Linda Jadeski ([ljadeski@wwwd.org](mailto:ljadeski@wwwd.org)) <[ljadeski@wwwd.org](mailto:ljadeski@wwwd.org)>; Paul Hermann <[Paul.Hermann@ghd.com](mailto:Paul.Hermann@ghd.com)>

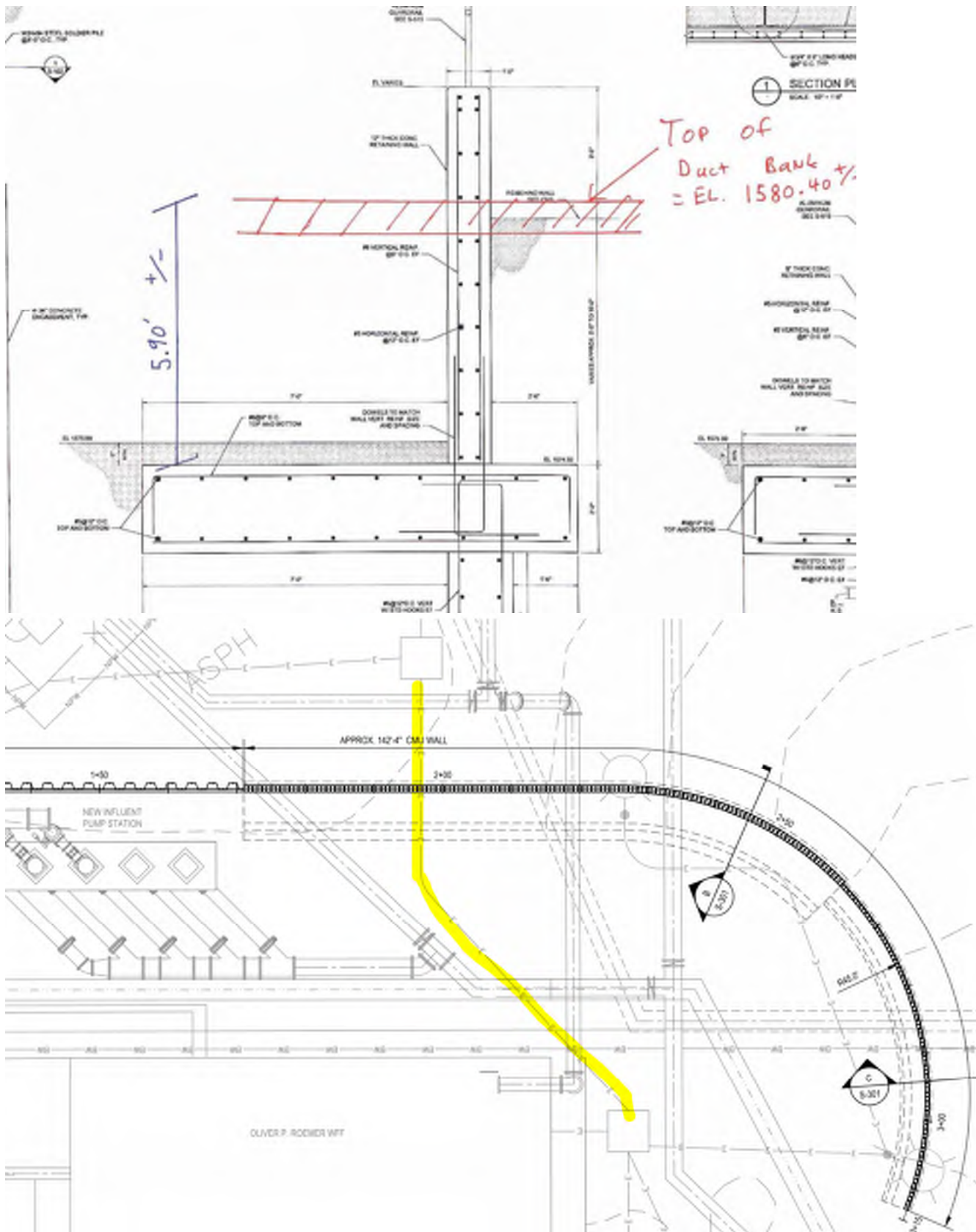
**Cc:** Brandon Morlet <[BPMorlet@pcl.com](mailto:BPMorlet@pcl.com)>; Jamal Awad <[Jamal@awadengineering.com](mailto:Jamal@awadengineering.com)>

**Subject:** Update on the Ductbank by the new retaining wall

Linda/Paul,

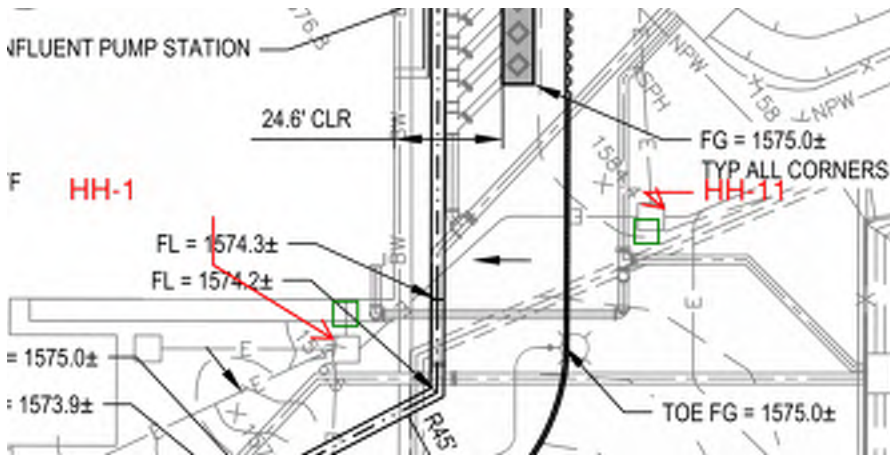
I just wanted to provide you with an update regarding our potholing of the existing electrical ductbank. See below:

1. The existing ductbank's elevation is in conflict with the new retaining wall. Below is a rough idea of its elevation in relation to the new wall. The ductbank follows the slope of the existing hill.



- The two existing electrical vaults HH-11 and HH-1, with wires that feed the building, are at different locations, compared to what they are shown on the 30%. HH-11 is closer to the existing/new 24" tie-in point than what is shown on the drawings. HH-1 is closer to the building than what is shown on the drawings as well, which tells us that the existing ductbank would conflict with the new 24" UV reroute. See the screenshots below for additional information.





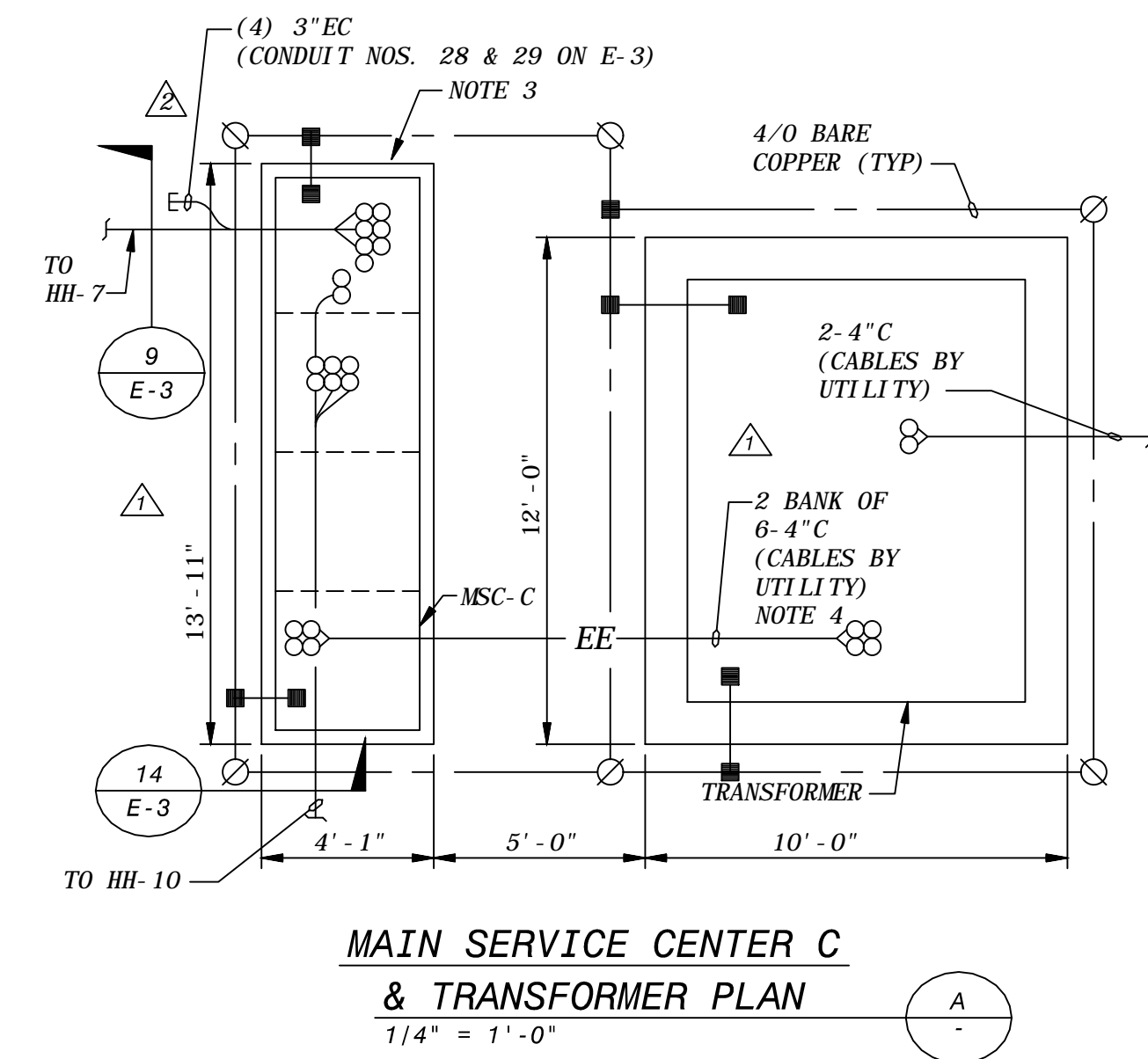
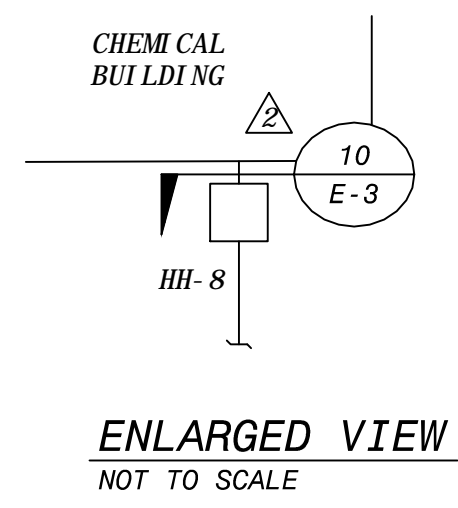
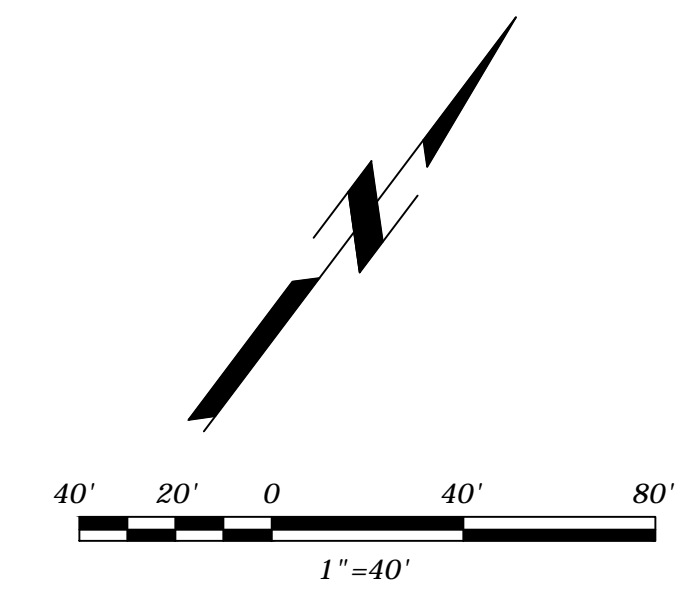
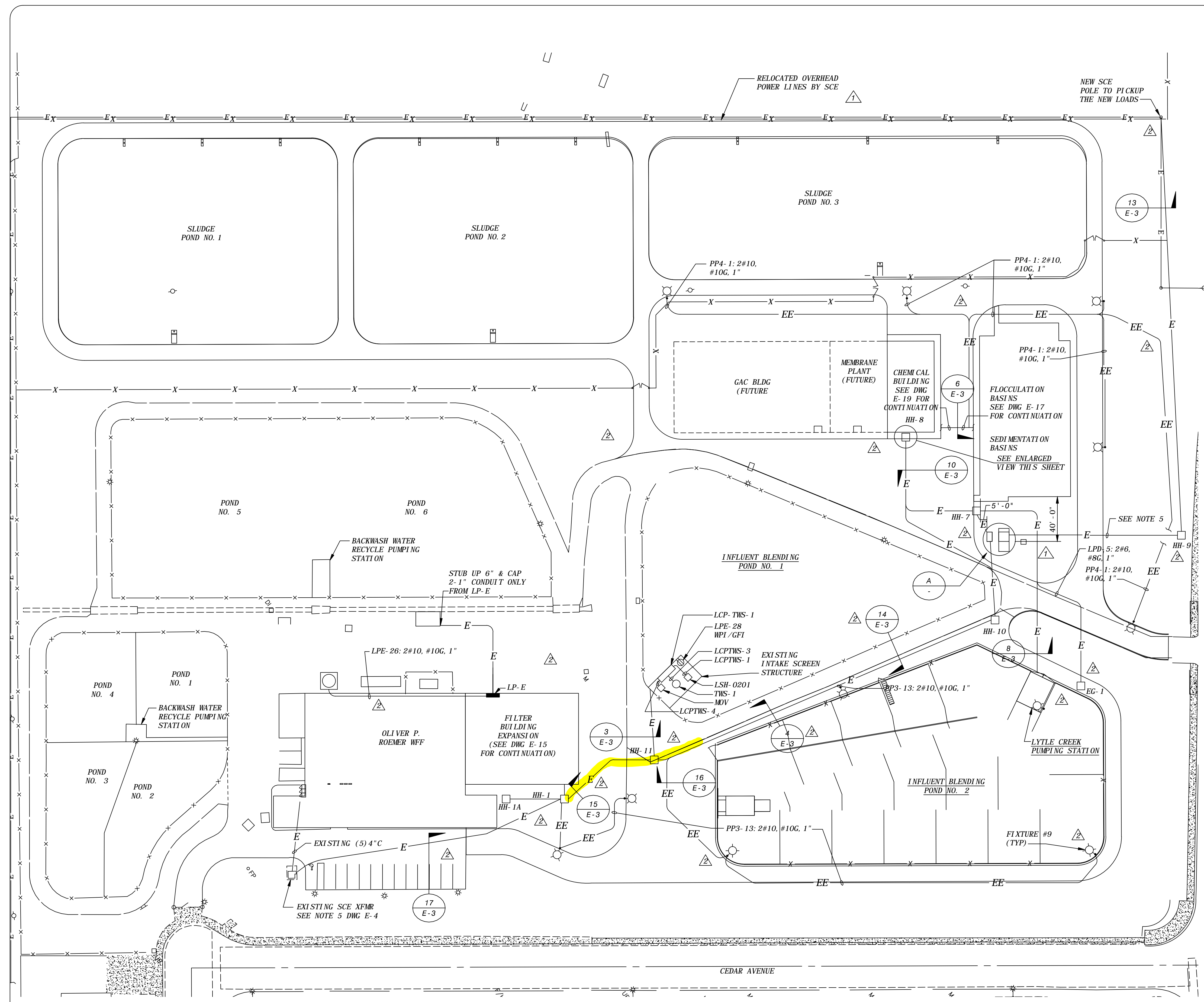
Thanks,

**Kevin Goetz, PMP, MBA**  
Project Manager

**PCL Construction, Inc.**  
3900 Kilroy Airport Way, Ste 110  
Long Beach, CA 90806  
T: 213-358-5206  
[kgoetz@pcl.com](mailto:kgoetz@pcl.com)

[www.pcl.com](http://www.pcl.com)  
**TOGETHER WE BUILD SUCCESS**





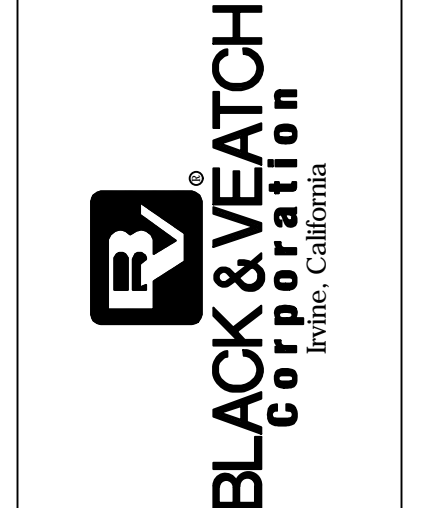
- NOTES:**
- SEE DRAWING E-1 FOR ELECTRICAL LEGEND & ABBREVIATIONS AND GENERAL REQUIREMENTS.
  - SEE DRAWING E-21 FOR LIGHTING FIXTURE SCHEDULE.
  - BEFORE FORMING THE CONCRETE PAD, DIMENSION SHALL BE VERIFIED WITH EQUIPMENT BEING SUPPLIED.
  - EACH BANK OF 6-4\"/>

**RECORD DRAWING**

THESE RECORD DRAWINGS HAVE BEEN PREPARED BASED IN PART ON INFORMATION PROVIDED BY OTHERS AND HAVE NOT BEEN VERIFIED FOR ACCURACY.

2	MEF/BLB/SWF	RECORD DRAWING
1	FK/BF/BB	ADDENDUM
	NO. BY T CK NPP	
3-10-06	REVISIONS AND RECORD OF ISSUE	
12-9-03	DATE	
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	SAVED: RIV10067_9/16/2006 8:50:42 AM	XREF2 ID: P-9.dwg
	PLOTTED: RIV10067_12/18/2003 11:24:16 AM	XREF3 ID: Survey.dwg
	USER: RIV10067	XREF4 ID: EXISTING PIPING.dwg
		XREF5 ID: Site Plan.dwg

THIS DRAWING WAS ORIGINALLY APPROVED FOR CONSTRUCTION BY ANTHONY ARAIZA ON 1/15/04 AND SEALED BY BRIAN L. BUTLER ON 1/16/04. LICENSED PROFESSIONAL ENGINEER IN THE STATE OF CALIFORNIA E16569

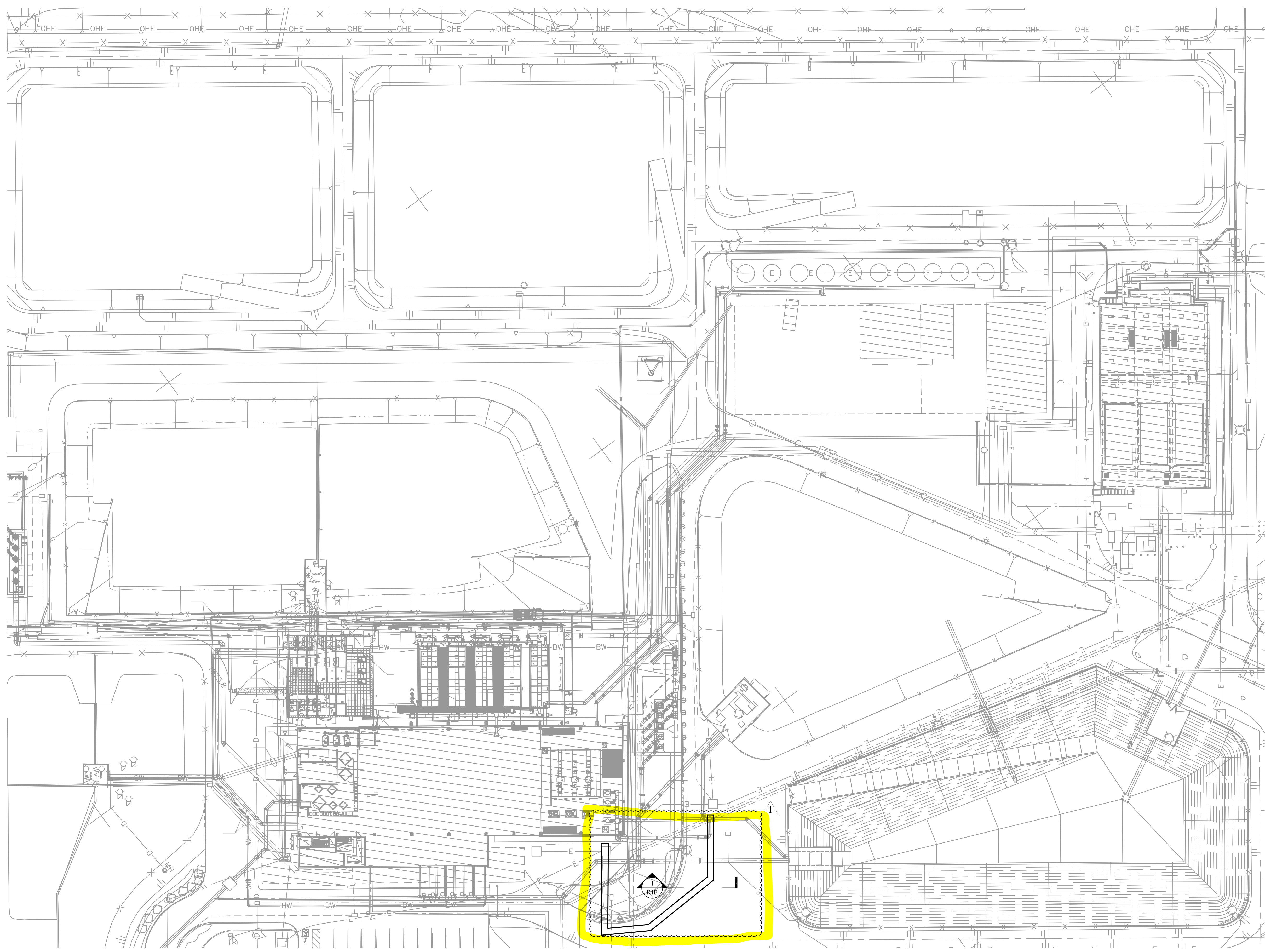


WEST VALLEY WATER DISTRICT  
 OLIVER P. ROEMER  
 WATER FILTRATION FACILITIES EXPANSION  
 ELECTRICAL  
 SITE PLAN AND DETAILS

DESIGNED: JAS,FK  
 DETAILED: DAH  
 CHECKED: SDS,BJF  
 APPROVED: BLB  
 DATE: 11/04/03

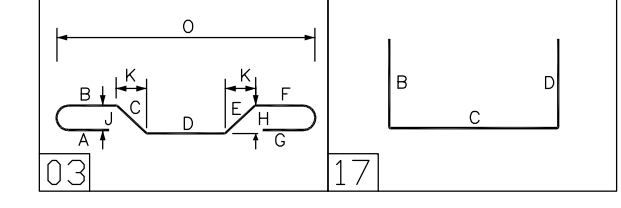
PROJECT NO.  
**133077**

**E-2**  
 SHEET  
 64 OF 106



Release Code: R1B

Bar Mark	Qty	Size	Total length	A'	B'	C'	D'	E'	F'	G'	H'	I'	J'	K'	L'
4A06	14	#4	36'17"		19"	19"									
4A21	14	#4	90'17"		27"	310"	27"							15 1/2"	32 1/2"
4A23	14	#4	36'13"		19"	19"							14 1/2"	11"	210 1/2"
4A24	14	#4	36'13"		19"	19"							14 1/2"	11"	210 1/2"



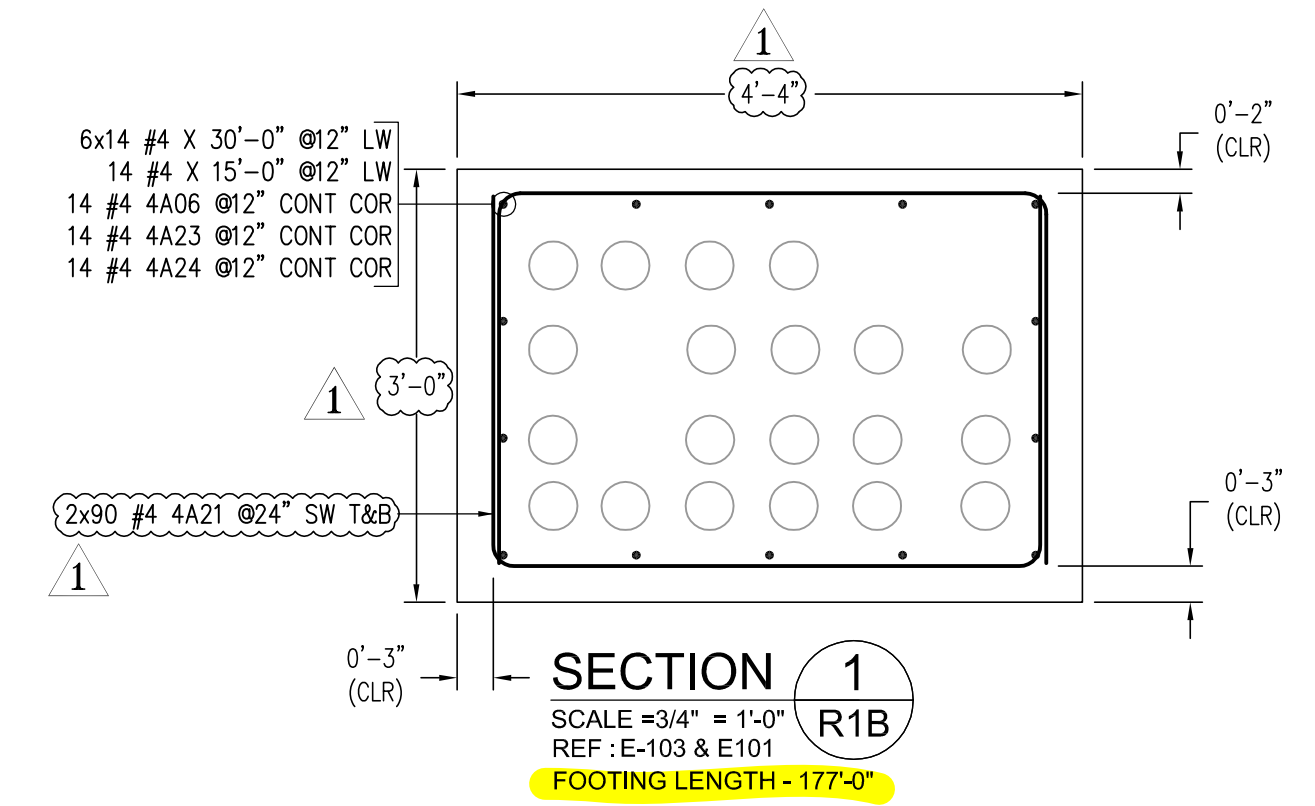
DUCT BANK  
Lap Schedule for 4000 PSI (Class B)

Size	Top bars	Other bars
#3	21"	16"
#4	21"	16"
#5	26"	20"
#6	37"	28"
#7	62"	48"
#8	81"	62"
#9	102"	79"
#10	130"	100"
#11	160"	123"

- NOTES:-
- TYPICAL CLEARANCES  
A). FOR FOOTING BOTTOM & SIDES - 3"  
B). FOR FOOTING TOP - 2"
  - A/E/C PLEASE VERIFY THE ALL CLOUDED ITEMS
  - CUT TO FIT AT SITE AS REQUIRED
  - BAR TO BE PLACED AT EQUAL SPACING U.O.N.
  - TILT HOOK TO ACCOMMODATE THE COVER, IF NEED

ACCESSORIES LIST - COVER BLOCK (DOBIES) - DUCT BANK

ELEMENT	TYPE	SIZE	COMPUTER NUMBER	SPACING	QUANTITY	WEIGHT
FOOTING	W/WIRE	3" X 3" X 3"	BW3	48" EW	100 Pcs	213 lbs



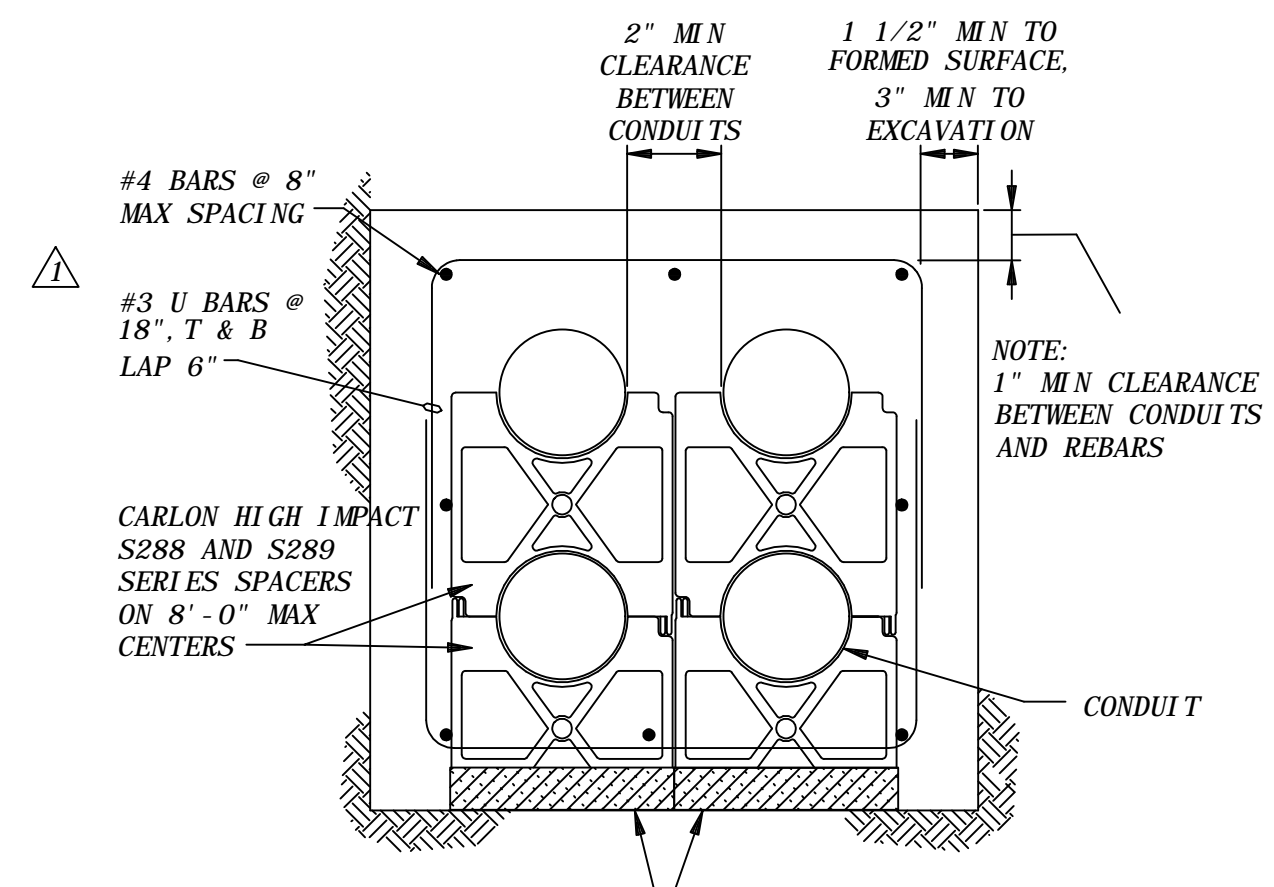
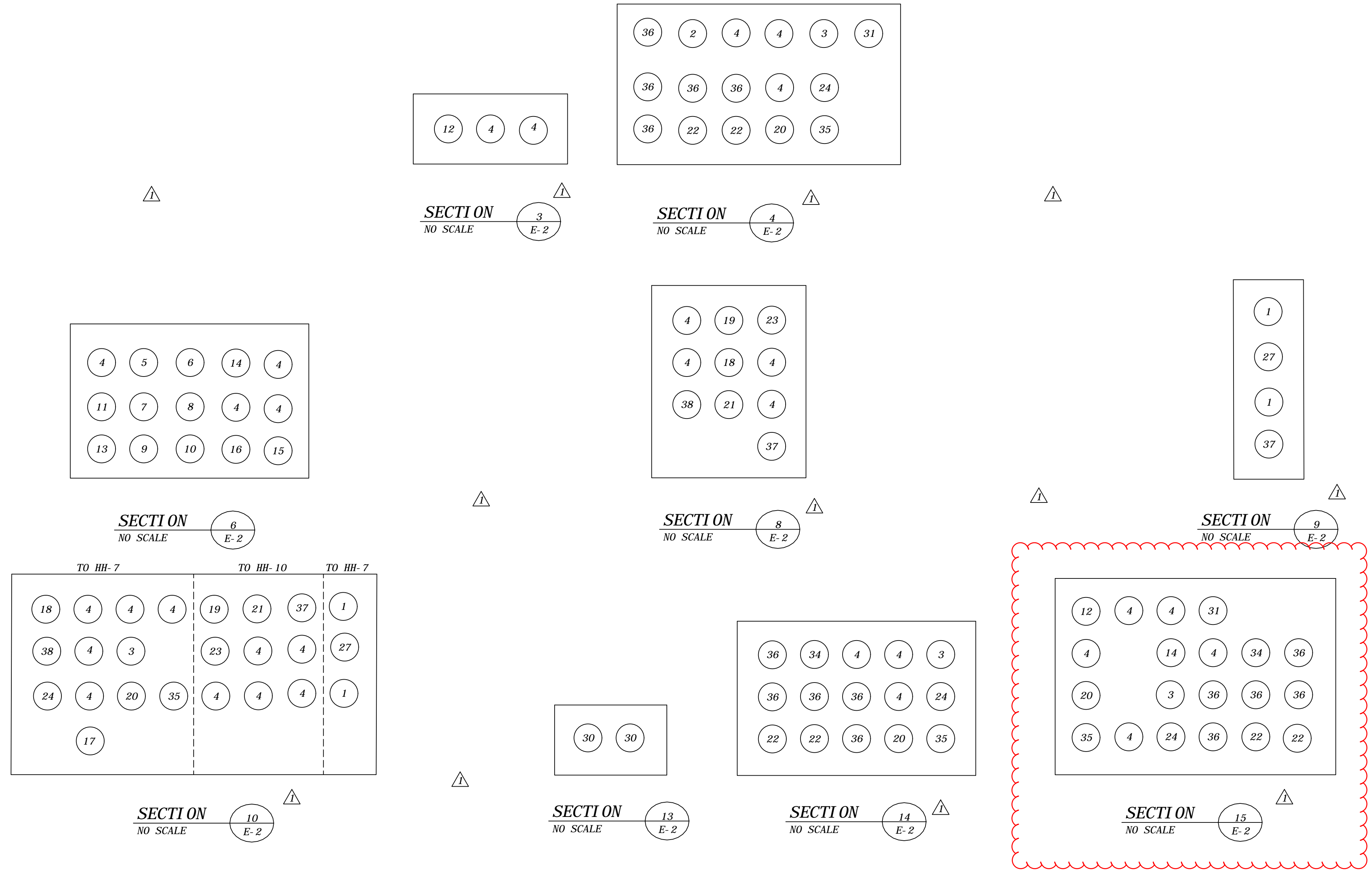
LAYOUT OF ELECTRICAL SITE PLAN  
SCALE = 1/32" = 1'-0"  
REF SHEETS : E-101

REVISE & RESUBMIT

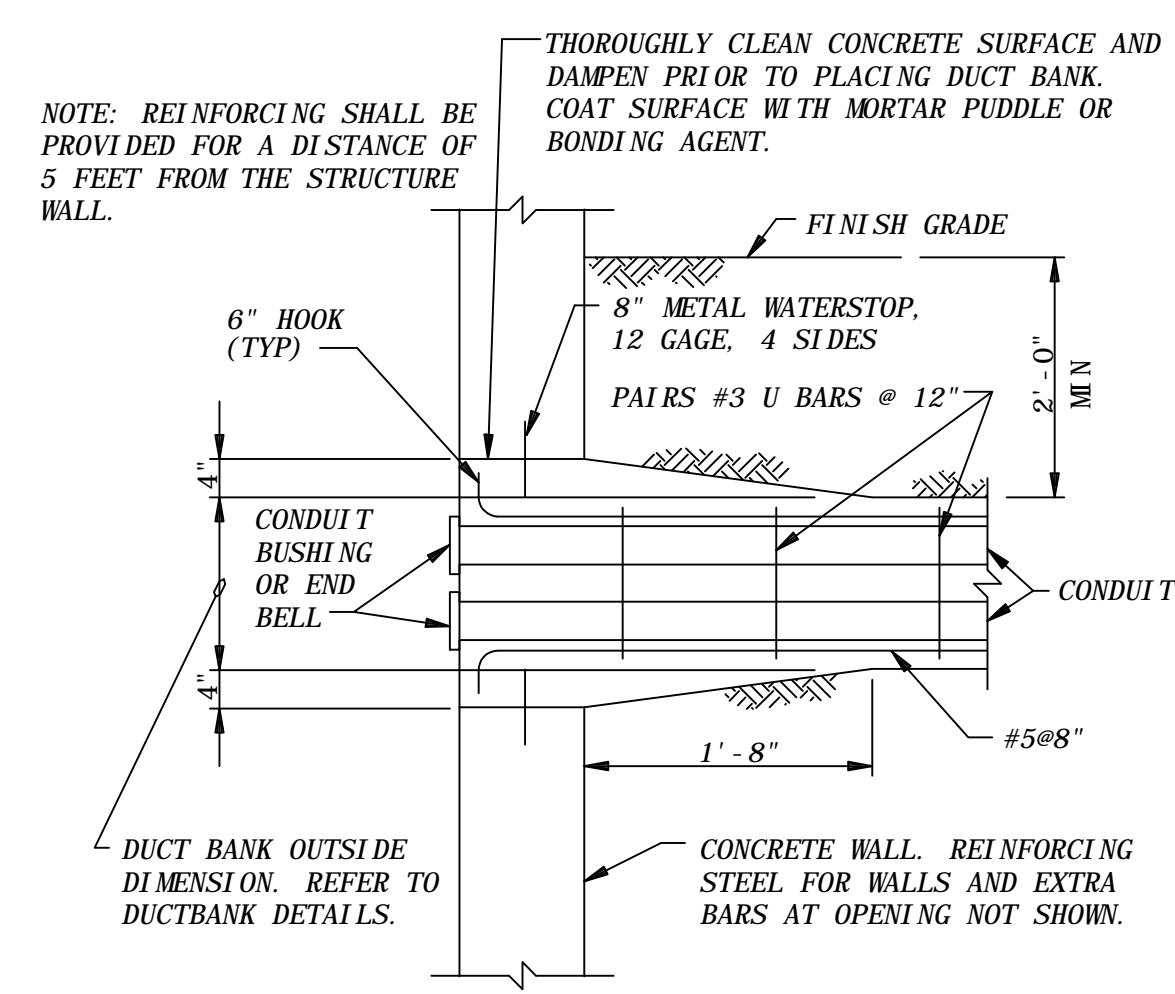
GRADE	60 A615	QUALITY REBAR INC.	PHONE (858)679-3934 FAX (858)679-3939
PREFIX	A		
BAR LIST NOS.		PROJECT: OLIVER P. ROEMER WATER FILTRATION FACILITY 2021 EXPANSION - PHASE I	TITLE: DUCT BANK REINFORCEMENT DETAIL
MK	REVISION	DATE	PRINT RECORD NO. TO FOR DATE
DD	FOR APPROVAL	09.26.23	
01	REVISE & RESUBMIT	09.28.23	
CUSTOMER:	PCL	ENGR.:	MEHDI MARDI
ARCHT.:	GHD inc	DRAWN:	CPI
CONTR. NO.	23092A	DATE	6.26.2023
DWG. NO.	R1B		

DUCT BANK SCHEDULE			
COND. NO.	SIZE	CIRCUIT NUMBER	REMARKS
1	4	MSCC-2	MAIN FEEDER MCC-C
2	4	SPARE	
3	2	PLC3-25 FIBER OPTIC CABLE	PLC-4 TO PLC-3
4	2	SPARE	
5	2*	MC-1, MC-2, MC-3, MC-4	FLOC 101, 102
6	2*	MC-5, MC-6, MC-7, MC-8	FLOC 103, 201
7	2*	MC-9, MC-10, MC-11, MC-12	FLOC 202, 203
8	2*	MC-19, MC-20, MC-40	LCP R.S. 101, 201, BFV-YD-110
9	2*	MC-13, MC-14, MC-15, MC-16	FLOC 301, 302
10	2*	MC-17, MC-18, MC-31, MC-35	FLOC 303 & LCP R.S. 301 & PVRES
11	2	FE1101-1, FE1102-1	LIP-002, MFR SUPPLIED CABLES
12	2	MA-1, LCPTWS-2	LCPTWS-1
13	2	PLC4-17, MC-40B	FIT, BFV-YD-110
14	2	PP4-3, LPD-28, LPD-30, PP4-1, LPD-10	BASIN LIGHTS & RECEP OUTDOOR LIGHTING, FIT-1103
15	2	LPD-25, LPD-27, LPD-29	SP-001, SP-002, SP-003
16	3	MC-19B, MC20B, MC-31B, MC-35D, MC-35E, MC-35F, MC-40A	RES-SLC-101, 102, 103 & PVRES, BFV-YD-110
17	2	LPD-5	EG-1
18	2	LPD-34, LPD-32, MC-38	LIP-007, RECEPTACLES, LSL/LSLL-3701
19	2*	MC-21A	LC-P-101
20	2	LCPO1-2	NAOH FILL PANEL
21	2*	MC-22A	LC-P-102
22	4	MSCC-6	MAIN FEEDER TO MCC-D
23	2*	MC-27A	LC-P-103
24	2	PLC-CSS, ALUMP1-6, ALUMP2-6, ALUMPP3-6, ALUMP4-1, ALUMPS-1, MC-25C, MC-26C, MC-32C	TO PLC-1 FCP SHUTDOWN
25			NOT USED
26	2	PLC4-16	LIP-007
27	2	MSCC-3	MAIN FEEDER PP-4
28	3	MSCC-4	CONDUIT ONLY (FUTURE MCC-GAC)
29	3	MSCC-5	CONDUIT ONLY (FUTURE MCC-MEMB)
30	4	CONDUIT ONLY	CABLES BY UTILITY
31	1	PP3-13	OUTDOOR LIGHTING
32	1	LPE-28	TRAVELING SCREEN AREA RECP
33			
34	3	SPARE	
35	2	FACP-1, FACP-2	FIRE ALARM PANEL
36	4	MSCC-1	BACKFEED TO MSC
37			POLE LIGHT LYTLE CREEK
38			LPD GATE

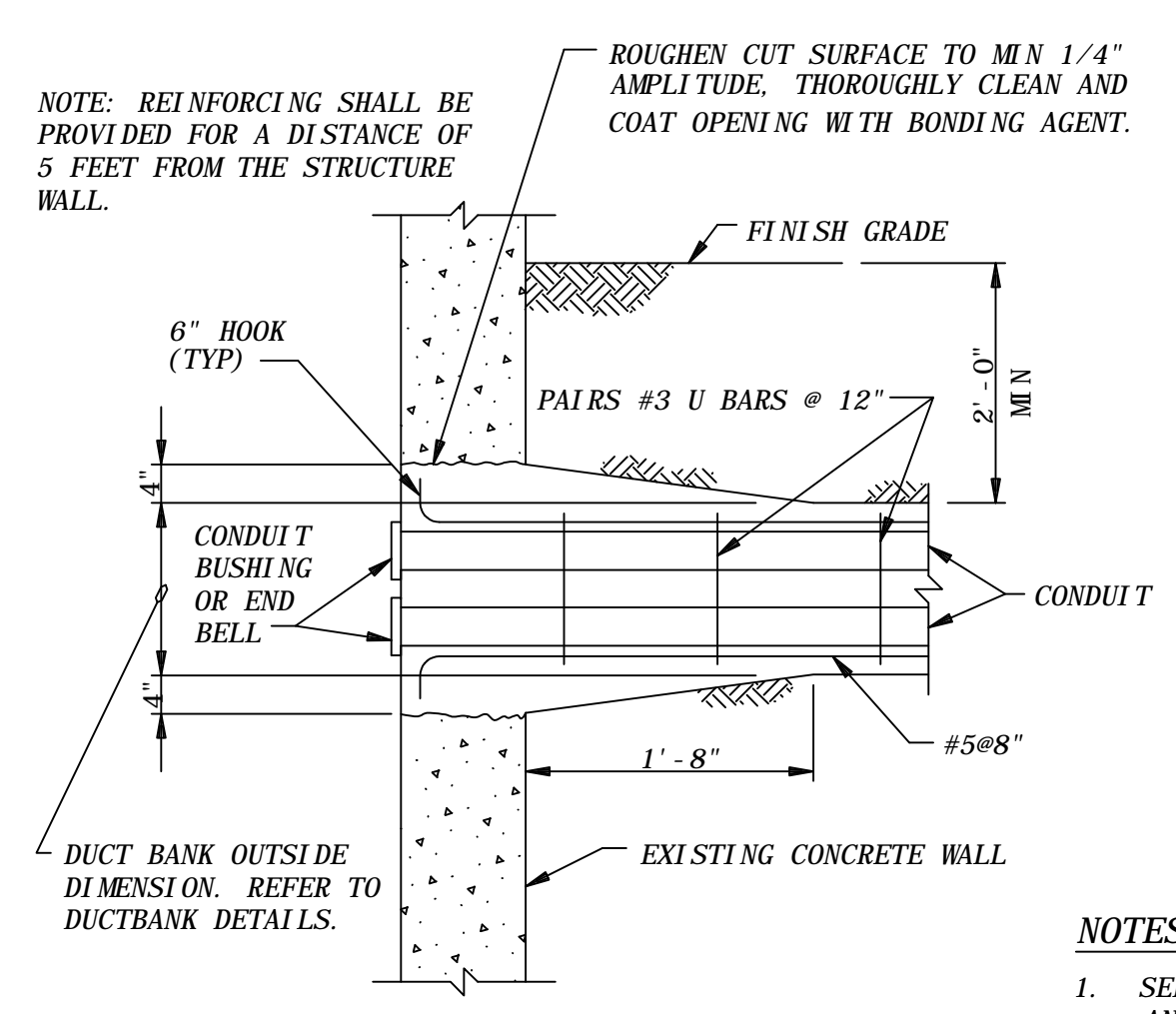
\* = STEEL CONDUIT



TYPICAL DUCT BANK SECTION NO SCALE



TYPICAL UNDERGROUND DUCT BANK ENTRANCE DETAIL NO SCALE



TYPICAL UNDERGROUND DUCT BANK ENTRANCE DETAIL NO SCALE

NOTES:  
1. SEE DRAWING E-1 FOR ELECTRICAL LEGEND & ABBREVIATIONS AND GENERAL REQUIREMENTS.

3-10-06	RECORD DRAWING	REVISIONS AND RECORD OF ISSUE	DATE	DATE	DATE	DATE	DATE	DATE	DATE

1 MEF/BLB/SVC NO. BY T CK JWP

CYCLE ID: 133077-3000-WTUP-E-100000000K XREF1 ID: XREF2 ID: XREF3 ID: XREF4 ID: XREF5 ID: XREF6 ID: XREF7 ID: XREF8 ID: XREF9 ID: XREF10 ID: XREF11 ID: XREF12 ID: XREF13 ID: XREF14 ID: XREF15 ID: XREF16 ID: XREF17 ID: XREF18 ID: XREF19 ID: XREF20 ID: XREF21 ID: XREF22 ID: XREF23 ID: XREF24 ID: XREF25 ID: XREF26 ID: XREF27 ID: XREF28 ID: XREF29 ID: XREF30 ID: XREF31 ID: XREF32 ID: XREF33 ID: XREF34 ID: XREF35 ID: XREF36 ID: XREF37 ID: XREF38 ID: XREF39 ID: XREF40 ID: XREF41 ID: XREF42 ID: XREF43 ID: XREF44 ID: XREF45 ID: XREF46 ID: XREF47 ID: XREF48 ID: XREF49 ID: XREF50 ID: XREF51 ID: XREF52 ID: XREF53 ID: XREF54 ID: XREF55 ID: XREF56 ID: XREF57 ID: XREF58 ID: XREF59 ID: XREF60 ID: XREF61 ID: XREF62 ID: XREF63 ID: XREF64 ID: XREF65 ID: XREF66 ID: XREF67 ID: XREF68 ID: XREF69 ID: XREF70 ID: XREF71 ID: XREF72 ID: XREF73 ID: XREF74 ID: XREF75 ID: XREF76 ID: XREF77 ID: XREF78 ID: XREF79 ID: XREF80 ID: XREF81 ID: XREF82 ID: XREF83 ID: XREF84 ID: XREF85 ID: XREF86 ID: XREF87 ID: XREF88 ID: XREF89 ID: XREF90 ID: XREF91 ID: XREF92 ID: XREF93 ID: XREF94 ID: XREF95 ID: XREF96 ID: XREF97 ID: XREF98 ID: XREF99 ID: XREF100 ID: XREF101 ID: XREF102 ID: XREF103 ID: XREF104 ID: XREF105 ID: XREF106 ID: XREF107 ID: XREF108 ID: XREF109 ID: XREF110 ID: XREF111 ID: XREF112 ID: XREF113 ID: XREF114 ID: XREF115 ID: XREF116 ID: XREF117 ID: XREF118 ID: XREF119 ID: XREF120 ID: XREF121 ID: XREF122 ID: XREF123 ID: XREF124 ID: XREF125 ID: XREF126 ID: XREF127 ID: XREF128 ID: XREF129 ID: XREF130 ID: XREF131 ID: XREF132 ID: XREF133 ID: XREF134 ID: XREF135 ID: XREF136 ID: XREF137 ID: XREF138 ID: XREF139 ID: XREF140 ID: XREF141 ID: XREF142 ID: XREF143 ID: XREF144 ID: XREF145 ID: XREF146 ID: XREF147 ID: XREF148 ID: XREF149 ID: XREF150 ID: XREF151 ID: XREF152 ID: XREF153 ID: XREF154 ID: XREF155 ID: XREF156 ID: XREF157 ID: XREF158 ID: XREF159 ID: XREF160 ID: XREF161 ID: XREF162 ID: XREF163 ID: XREF164 ID: XREF165 ID: XREF166 ID: XREF167 ID: XREF168 ID: XREF169 ID: XREF170 ID: XREF171 ID: XREF172 ID: 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THIS DRAWING WAS ORIGINALLY APPROVED FOR CONSTRUCTION BY ANTHONY ARAZON ON 1/15/04 AND SEALED BY BRIAN L BUTLER ON 1/16/04. LICENSE NUMBER: 44092. ENGINEER IN THE STATE OF CALIFORNIA E16569

**BLACK & VEATCH** Corporation  
Irvine, California

WEST VALLEY WATER DISTRICT  
OLIVER P. ROEMER  
WATER FILTRATION FACILITIES EXPANSION  
ELECTRICAL SCHEDULES & DETAILS

DESIGNED:	JAS,FK
DETAILED:	JAS,AJT
CHECKED:	SDS,BJF
APPROVED:	BLB
DATE:	11/04/03
PROJECT NO.:	133077

133077

E-3

SHEET 65 OF 106

**RECORD DRAWING**

THESE RECORD DRAWINGS HAVE BEEN PREPARED BASED IN PART ON INFORMATION PROVIDED BY OTHERS AND HAVE NOT BEEN VERIFIED FOR ACCURACY.

# Self Performed Labor Total

# QUOTES



Power, Control and Instrumentation Contractor Since 1979

13138 ARC  
SANTA FE SPRINGS, CA 90670  
TEL: (562) 270-9500  
FAX: (562) 863-5723

3.2.a

10/17/2023

Kevin Goetz  
PCL Construction, Inc.  
1711 W. Greentree Drive, Suite 201  
Tempe, AZ 85284

**Re: Oliver P. Roemer Water Filtration Facility Expansion (Phase 1) – Roemer WFF Expansion  
CE22030-006 – Duct Bank Reroute HH-1 to HH-11**

Mr. Kevin Goetz:

Leed Electric is pleased to quote you our price for the electrical work involved in the above-referenced change to our scope of work. Itemized breakdown sheets are attached indicating labor and material components.

**Work Scope:**

- Re-route of existing duct bank between HH-1 to HH-11. This includes:
  - New conduit routed around the proposed retaining wall
  - Splice existing feeder wires and control wiring from HH-1 to HH-11
  - New junction box installation including terminal blocks and terminations
  - Splice existing control wiring. New control wires will be installed beyond HH-1
  - Run new fiber optic cable from end to end

**Exclusions:**

- Demolition of (E) duct bank
- Research and Loop Drawings for control/signal wiring
- Repairs found on deficient work during removal/replacement of wiring
- All temporary power due to shutdowns during reroute
- Bypass plans
- Per the original contract
- Design, Engineering & Detailing
- Shift Work, Overtime, Saturday & Sunday Work

**Clarifications:**

- Leed is assuming a maximum duct bank depth of 4'. The proposal does not account for any over/under crossings along the duct bank path
- Stantec and WVWD approved the use of splices for feeder cables and control wiring
- Proposal does not include any junction boxes based on the latest layout except junction box mentioned above
- Proposal is based on the use of existing feeder wire. Any damage to the existing feeder wire beyond HH-1 to HH-11 will be an additional change order
- Quote is based on regular straight-time hours and timely coordination of trades.
- An extension of 76 working days in contract time is required.
- Pricing is firm for 2 weeks from the date of this cost proposal unless noted otherwise herein.

 **Total Cost: \$ 480,635.00**

As always should you have any questions or concerns regarding this issue, please contact me at your convenience.

Sincerely,

**Ken Rivero-Rivera**  
Project Manager





# Estimate Proposal and Change Order Form

## LEED ELECTRIC INC.

131  
 Santa Fe Springs, CA 90670  
 TEL: (562) 270-9500  
[www.LEEDELECTRIC.com](http://www.LEEDELECTRIC.com)

3.2.a

<b>Project:</b> <u>WVWD Oliver Roemer Water Filtration DB</u>	<b>LEI CE#</b> <u>CE22030-006</u>	<b>DATE:</b> <u>10/16/2023</u>
<b>Contract:</b> <u>C22-030</u>	<b>RFI #</b> _____	<b>LOCAL:</b> <u>11</u>
<b>Customer:</b> <u>PCL Construction</u>	<b>CD/DOC #</b> _____	<b>ESTIMATOR:</b> <u>KR</u>

**Description of Work:** Reroute ductbank from HH-1 to HH-11. Feeders and control wiring will be spliced per Stantec's approval. Installation of junction box for terminal blocks for control wiring splicing.

<b>I. Material</b>		
1 . Material (See attached detail sheet)		\$ 146,451.28
2 . Quoted Material & Services (See attached vendor quotes)		\$ 4,600.00
3 . Allowance Miscellaneous Material/Consumables/Small Tools	2.00% of Line 1 & 2	\$ 3,021.03
4 . Subtotal:		\$ 154,072.31
5 . Sales Tax at applicable rate	7.75% of Line 4	\$ 11,940.60
6 . Shipping and Handling		\$ -
<b>7 . Total Material Cost:</b>		<b>\$ 166,012.91</b>

<b>II. Field Labor</b>			
	Regular Time	Over Time x1.5	Over Time x2.0
8a . Electrician Labor Man Hours (see attached detail sheet)	1,832.00 hrs	0.00 hrs	0.00 hrs
8b . Job Factor	0.00 hrs	0.00 hrs	0.00 hrs
8c . Electrician Labor Efficiency Factor	0.00 hrs	0.00 hrs	0.00 hrs
8d . Safety	0.00 hrs	0.00 hrs	0.00 hrs
8e . Clean-up	0.00 hrs	0.00 hrs	0.00 hrs
8f . As -Built Drawings	0.00 hrs	0.00 hrs	0.00 hrs
<b>8g . TOTAL ESTIMATED DIRECT LABOR MH (8a thru 8f)</b>	<b>1,832.00 hrs</b>	<b>0.00 hrs</b>	<b>0.00 hrs</b>
9 . Electrician hours (from 8g above-Regular Time)	1,222.00 hrs @	\$109.07 /hour	\$ 133,283.54
9a . Electrician hours (from 8g above-OT 1.5x)	0.00 hrs @	\$146.66 /hour	\$ -
9b . Electrician hours (from 8g above-OT 2.0x)	0.00 hrs @	\$184.25 /hour	\$ -
10 . Working Foreman/GF (Regular Time)	610.00 hrs @	\$128.91 /hour	\$ 78,635.10
10a . Working Foreman/GF (Over Time 1.5x)	0.00 hrs @	\$175.97 /hour	\$ -
10b . Working Foreman/GF (Over Time 2.0x)	0.00 hrs @	\$223.04 /hour	\$ -
11 . Project Superintendent (Regular Time)	0.00 hrs @	\$154.69 /hour	\$ -
12 . Project Labor (Other Trades/UG Trenching)	0.00 hrs @	\$87.26 /hour	\$ -
13 . Total Direct Labor 9 thru 12	1,832.00		\$ 211,918.64
14 . Allowance Miscellaneous Material/Consumables/Small Tools	2.00%		\$ 4,238.37
15 . Overtime Expense from attached Schedule if applicable.			
<b>16 . TOTAL LABOR COST:</b>			<b>\$ 216,157.01</b>

<b>III. DIRECT JOB EXPENSE</b>			
17 . Truck w/tools	610.00 hrs @	\$42.39 /hour	\$ 25,857.90
18 . Bending/Threading Trailer	0.00 hrs @	\$14.56 /hour	\$ -
19 . Power Generator (under 10KW)	0.00 hrs @	\$4.66 /hour	\$ -
20 . Prefabrication	0.00 hrs @	\$128.91 /hour	\$ -
21 . Design Asst. Solution	0.00 hrs @	\$87.68 /hour	\$ -
22 . Project Manager	0.00 hrs @	\$165.00 /hour	\$ -
23 . Make Copies of Prints	0.00	\$75.00	\$ -
24 . Rented/Owned Tools & Equipment (See attached Equipment list )			\$ -
25 . Allowance Miscellaneous Material/Consumables/Small Tools	2.00%		\$ 517.16
<b>26 . TOTAL EXPENSES:</b>			<b>\$ 26,375.06</b>

<b>IV. OVERHEAD AND PROFIT</b>		
27 . Material		\$ 166,012.91
28 . Material Markup	15.0% of line 27	\$ 24,901.94
29 . Field Labor		\$ 216,157.01
30 . Field Labor Markup	20.0% of line 29	\$ 43,231.40
31 . Direct Job Expense		\$ 26,375.06
32 . Direct Job Expense Markup	15.0% of line 31	\$ 3,956.26
<b>33 . Subcontract (See attached subcontractor quotes)</b>		\$ -
<b>34 . Subcontract markup</b>	15.0% of line 33	\$ -
35 . Totals of Line 27 through 34		\$ 480,634.58
36 . Extended Overhead Breakdown (see attached Breakdown sheet)		\$ -
37 . Inefficiency Costs (see attached worksheet)		\$ -
38 . Subtotal		\$ 480,634.58
39 . Bond Adder	0.00% of line 38	\$ -

**40. TOTAL FOR THIS ESTIMATE** **\$ 480,635.00**

**V. EXTENSION OF TIME REQUIRED:** 76 Working Days Based on a 3 men crew

Note: Pricing is firm for 14 calendar days from the date of this cost proposal unless noted otherwise herein.

# LEED ELECTRIC INC

## WVWD Oliver Roemer Water Filtration Ph 1 DB

### BILL OF MATERIAL

ATT: Kevin Goetz  
Prepared By: Jason M

CE 006  
Date: 10/16/2023

NO	Description	QTY	U	U Cost	Total Cost	Total Hours
1	3/4" EMT	500.0	LF	\$ 1.03	\$ 513.95	31.00
2	2" PVC COATED GRC	60.0	LF	\$ 31.68	\$ 1,900.78	13.50
3	2" PVC/CTD KO HUB CONN	4.0	EA	\$ 230.69	\$ 922.76	5.00
4	2" PVC/CTD 90 ELBOW	4.0	EA	\$ 109.18	\$ 436.70	7.00
5	1" PVC	200.0	LF	\$ 1.43	\$ 285.72	9.50
6	2" PVC	2000.0	LF	\$ 2.71	\$ 5,410.80	112.00
7	3" PVC	200.0	LF	\$ 5.18	\$ 1,035.80	12.50
8	4" PVC	1400.0	LF	\$ 7.04	\$ 9,860.20	95.90
9	2" PVC FEM ADAPTER	4.0	EA	\$ 5.09	\$ 20.34	1.48
10	1" PVC COUPLING	2.0	EA	\$ 1.55	\$ 3.09	0.00
11	2" PVC COUPLING	10.0	EA	\$ 3.73	\$ 37.34	0.00
12	3" PVC COUPLING	2.0	EA	\$ 10.91	\$ 21.82	0.00
13	4" PVC COUPLING	7.0	EA	\$ 15.23	\$ 106.61	0.00
14	1" PVC 90 ELBOW	1.0	EA	\$ 6.31	\$ 6.31	0.31
15	2" PVC 90 ELBOW	10.0	EA	\$ 16.97	\$ 169.67	6.30
16	3" PVC 90 ELBOW	1.0	EA	\$ 51.17	\$ 51.17	0.84
17	4" PVC 90 ELBOW	7.0	EA	\$ 81.26	\$ 568.81	8.75
18	1" PVC 45 ELBOW	2.0	EA	\$ 14.11	\$ 28.21	0.62
19	2" PVC 45 ELBOW	45.0	EA	\$ 17.79	\$ 800.49	28.35
20	3" PVC 45 ELBOW	2.0	EA	\$ 47.91	\$ 95.81	1.68
21	4" PVC 45 ELBOW	14.0	EA	\$ 84.43	\$ 1,181.99	17.50
22	1" PVC END BELL	2.0	EA	\$ 14.69	\$ 29.37	0.40
23	2" PVC END BELL	20.0	EA	\$ 20.57	\$ 411.32	5.60
24	3" PVC END BELL	2.0	EA	\$ 25.62	\$ 51.24	0.74
25	4" PVC END BELL	14.0	EA	\$ 33.82	\$ 473.49	7.00
26	PVC CEMENT (1-QUART)	10.0	EA	\$ 69.89	\$ 698.90	2.00
27	4 x 2" BASE SPACER - FRE	225.0	EA	\$ 2.38	\$ 535.50	39.38
28	4 x 2" INTERMEDIATE SPACER - FRE	650.0	EA	\$ 2.33	\$ 1,514.50	113.75
29	RSP-1200-316 2" Rigid Strut Straps 316	10.0	EA	\$ 26.96	\$ 269.60	0.53
30	#14 XHHW	90100.0	LF	\$ 0.17	\$ 15,315.30	675.75
31	#10 XHHW	2800.0	LF	\$ 0.34	\$ 953.93	29.68
32	#250MCM XHHW	1610.0	LF	\$ 6.34	\$ 10,213.82	72.45
33	#500MCM XHHW	6000.0	LF	\$ 12.53	\$ 75,201.72	360.00
34	#4/0 BARE-CU	250.0	LF	\$ 4.83	\$ 1,208.53	10.94
35	24AWG CAT6E CABLE	1200.0	LF	\$ 0.75	\$ 900.00	18.00
36	12 STRAND MM 62.5/125 CABLE	1200.0	LF	\$ 0.95	\$ 1,140.00	18.00
37	HS-4-30 HEAT SHRINK	14.0	EA	\$ 18.41	\$ 257.71	7.00
38	HS-500-1000 HEAT SHRINK	52.0	EA	\$ 39.90	\$ 2,074.63	20.80
39	DUCT SEAL (1-LB)	10.0	EA	\$ 4.37	\$ 43.70	10.00
40	STRUT T- JOINER P-1031GR	4.0	EA	\$ 9.53	\$ 38.13	0.00
41	1/2" FLAT WASHER - S/S	50.0	EA	\$ 0.18	\$ 9.00	0.44
42	1/2" LOCK WASHER - S/S	50.0	EA	\$ 0.15	\$ 7.42	0.44
43	3 1/4x 1 5/8x 12G STRUT BACK/BACK - 316 S/S	20.0	LF	\$ 212.59	\$ 4,251.72	3.00
44	1 5/8x 1 5/8x 12G STRUT SLOTTED HOLE - 316 S/S	20.0	LF	\$ 18.41	\$ 368.16	3.00
45	B104 4H GRN CRNR ANGLE	4.0	EA	\$ 27.79	\$ 111.17	0.75
46	B281SQ GRN POST BASE (B22A)	2.0	EA	\$ 172.30	\$ 344.59	0.00
47	1/2-13x 7 WEDGE ANCHOR - 2 1/4" MIN DEPTH - 316 S/S	10.0	EA	\$ 12.74	\$ 127.40	2.50
48	3/8-16x 2 BOLT HEX HEAD - S/S	30.0	EA	\$ 0.64	\$ 19.13	2.63
49	1/2-13x 1 1/2 BOLT HEX HEAD - S/S	50.0	EA	\$ 0.91	\$ 45.60	5.25
50	3/8" FLAT WASHER - S/S	30.0	EA	\$ 0.07	\$ 2.23	0.26
51	3/8" LOCK WASHER - S/S	30.0	EA	\$ 0.08	\$ 2.25	0.26
52	ROLL OF TIE WIRE	5.0	EA	\$ 12.75	\$ 63.75	0.50
53	18" HEAVY DUTY ZIP TIES - 1 PK	10.0	EA	\$ 19.75	\$ 197.50	1.00
54	500MCM BUTT SPLICE LONG	52.0	EA	\$ 55.70	\$ 2,896.40	10.40
55	250MCM BUTT SPLICE LONG	10.0	EA	\$ 20.56	\$ 205.60	1.50
56	1/0 BUTT SPLICE LONG	4.0	EA	\$ 12.45	\$ 49.80	0.44
57	FIBER CONNECTOR	24.0	EA	\$ 30.00	\$ 720.00	8.40
58	TERMINATIONS - CONTROL WIRING	318.0	EA	\$ -	\$ -	40.00
59	1/2" SPRING NUT - S/S	50.0	EA	\$ 14.04	\$ 702.00	3.75
60	3/8" SPRING NUT - S/S	30.0	EA	\$ 11.26	\$ 337.80	2.25
61	SEISMIC CALCULATIONS	1.00	EA	\$ -	\$ 1,200.00	

TOTAL: \$ 146,451.28 1832

S&H:

SALES TAX PERCENTAGE: 7.75%

SALES TAX: \$ 11,349.97

TOTAL COST: \$ 157,801.25



5901 Corvette Street,  
Commerce, CA 90040  
Tel: (323) 728-0230  
Fax: (323) 558-7088

**TO:** Leed Electric, Inc.  
**ATT:** Ken Rivero

**QUOTE DATE:** October 16, 2023  
**QUOTE NO.:** 4421-CO-001  
**PROJECT NO.:** J-04421

**Subject:** Terminal Junction Box

Dear Ken:

Thank you for your continued interest in SOFFA Electric. We are pleased to provide the following change order pertaining to the above referenced project.

*Scope of Work*

Per your request to add Terminal Junction Box for rerouting the duct bank between HH-1 and HH-11, we are appreciated to add following items in our scope of work:

Item	QTY	Description	
1	Lot	<ul style="list-style-type: none"> <li>- <b>Terminal Junction box</b> includes: Hoffman Wall mount NEMA4X SS304 24" x 24" x 6" Enclosure, Phoenix Terminals, Schneider Ground, Panduit Wie Duct, Din Rail, nameplate</li> <li>- Submittal</li> </ul>	\$4,600.00
<b>TOTAL:</b>			<b>\$4,600.00</b>

*Exceptions/Clarifications*

**Unless otherwise stated above, change order does not include the following:**

- Field Installation materials.
- Enclosure for switch & patch panel are not in our scope
- Fiber Optic are not in our scope
- Instrumentation, materials, components, or equipment that were not stated in the proposed scope of work.
- Submittals for equipment that was not provided by SOFFA Electric.
- Field Installation of any in-line devices.
- Field Installation of any mechanical devices
- Permits and fees



5901 Corvette Street,  
Commerce, CA 90040  
Tel: (323) 728-0230  
Fax: (323) 558-7088

- Any items not included in the above scope of work

**Terms and Conditions**

- Equipment lead time is 4-6 weeks
- Approval of change order may extend the contract time.
- Price does not include any sales tax, use tax, or applicable fees, unless otherwise noted in the proposed scope of work. Sales taxes will be included in all invoices.
- Terms are net 30 days on approved credit accounts.
- Fees will be applied to all past due balances.
- Quote is firm for 30 days unless otherwise stated.

Should you have question on this regard, please do not hesitate to call at (949)294-1696. Very Truly Yours,

Reza Ekhtera

Sr. Project Manager  
Soffa Electric Inc.



# Design Services



FEE ESTIMATE - Oliver P. Roemer Water Filtration Facility Upgrades and Expansion Project: Reroute Duct Bank

	Project Manager	Designer	PTL	Structural Engineer	QA/QC	Structural Engineer	Project Summary				
							Hours	Labour	Expense	Subs	Total
Project Billing Rate	\$338.00	\$185.00	\$330.00	\$240.00	\$330.00	\$300.00					
Total Units (T&M)	2.00	16.00	2.00	24.00	2.00	4.00	0.00	\$0.00	\$0.00	\$0.00	\$0.00
Fee (T&M)	\$676.00	\$2,960.00	\$660.00	\$5,760.00	\$660.00	\$1,200.00	50.00	\$11,916.00	\$0.00	\$0.00	\$11,916.00
							50.00	\$11,916.00	\$0.00	\$0.00	\$11,916.00

WBS Code	Task Name	Units						Task Type	Hours	Labour	Expense	Subs	Total
1	Reroute Duct Bank	2.00	16.00	2.00	24.00	2.00	4.00	Time & Material	50.00	\$11,916.00	\$0.00	\$0.00	\$11,916.00

Comments

Survey not included

# READY MIX CONCRETE





# ROBERTSON'S



3.2.a

800-834-7557

ROCK • BASE MATERIALS • SAND  
READY MIX CONCRETE

800-232-3695

March 9, 2023 - REVISED

P C L CONSTRUCTION SVC'S INC.		Acct. #: 70700	Plant: 24	Dir # BIDDING
Attn: EDY		Mp Pg: 575D2	C/Qt. 230309	Agg./Qt.
E-mail: <a href="mailto:EDYORTEGA@PCL.COM">EDYORTEGA@PCL.COM</a>		Yards: 241	Dodge #: NDF	Prevailing Wage: YES
Re: ROEMER PRJ. - 3010 CEDAR AVE., RIALTO				
CONCRETE MIX DESIGN	DESCRIPTION		PRICE PER YARD	
	<u>PER SPECS:</u>			
<p style="color: red;">-90 CU YD x \$175= \$15,750  -90 CU YD x \$47= \$4230  -Environmental fee: \$40/per load x 9 loads: \$360  -Energy surcharge: \$40/ per load x 9 loads: \$360  -Subtotal: \$20,700  -Sales tax: \$20,700 x 7.75%= \$1604.25  -TOTAL: \$22,304.25</p> <p style="color: red; text-align: right;">ASSUME PRICE INCREASE OF \$5/CY BY THE TIME THE WORK WILL BE DONE</p>				
30451C	3000 P/PL.45 W/C (Added on 6/26/23)		\$169.39	
	** Shrinkage not indicated **			
Robertson's will not be responsible for delays due to NSF61 testing. There will not be NSF61 testing available for flyash. All other NSF61 testing can take 3-6 months and will only be started with a signed contract for this project. All charges for this service will be the responsibility of the Buyer. <b>COST PER MIX MAY REACH \$20,000.00.</b>				
** Please Note: For the mixes quoted above if the compressive age breaks, flexural age breaks, aggregate tests or any other data is not current enough & testing is required. The cost of the tests will be the responsibility of the buyer. **				
PREVAILING WAGE: For this job, a \$2,500.00 one-time fee will be billed and an additional \$19.50 per yard premium has been included to the prices above.				
THE ABOVE PRICES INCLUDE ALL INCREASES AND ARE VALID UNTIL: 12/31/23.				

**\*\* Cement Powder & Fly-ash are currently experiencing a shortage and may experience supply interruptions. These interruptions could make this material unavailable for use in concrete at certain times. Please contact your sales representative should you have any questions. \*\***

ROBERTSON'S DIR #: 1000039563

\*\* CUSTOMER MUST NOTIFY ROBERTSON'S OF ANY JOB REQUIRING PREVAILING WAGES ADVERTISED ON OR AFTER JULY 1, 2016, IN ACCORDANCE WITH AB219. JOBS WITH 200 YARDS OR MORE WILL BE BILLED A \$2,500.00 ONE TIME FEE PER CONTRACT AND AN ADDITIONAL \$19.50 PER YARD PREMIUM. JOBS WITH LESS THAN 200 YARDS WILL BE BILLED AN ADDITIONAL \$28.50 PER YARD PREMIUM. \*\*

The purchaser shall ensure that Robertson's is provided copies of all reports of tests performed on concrete samples taken to determine compliance with specification requirements, please e-mail copies to [qc@rtmca.com](mailto:qc@rtmca.com). Costs for testing, inspection and/or mix designs, when required, are the responsibility of the buyer.

The above prices are net; discounts are included.

**Environmental Fee:** All concrete loads will be charged a fee of \$35.00 per load regardless of amount delivered.

**Energy Surcharge:** All concrete loads will be charged a fee of \$35.00 per load regardless of amount delivered.

**Sales Tax:** Sales Tax is not included, please add appropriate sales tax to above prices.

**Standing Time:** Four minutes per yard are allowed for each individual load for waiting and unloading at the jobsite. Additional time will be charged at a rate of \$2.00 per minute.

**Short Loads:** One short load will be allowed daily per order after TWO full loads have been delivered. Please refer to our current short load table for all other short load fees.

**Saturday Rates:** Add \$8.00 per cubic yard. **Sunday Rates:** Add \$15.00 per cubic yard with an additional \$2,000.00 plant opening fee.

**Plant Opening/Truck Time Fee:** A \$2,000 Plant Opening Fee + \$450/truck will be charged to any orders to be delivered beyond the normal business hours of 5:00 a.m. to 3:00 p.m., M-F. Please call for off-hour and holiday rates.

**Night Pours:** A 13-hour notice is required for all pours scheduled between 8pm - Midnight.

**Delivery:** There is no guarantee as to time or rate of delivery and there is no liability on the part of the seller for costs accrued by buyer due to delays.

**Delivery Restrictions:** Due to the distance from the plant to jobsite, certain areas are subject to delivery restrictions. Please call for availability.

Costs for testing, inspection and/or mix designs, when required, are the responsibility of the buyer.

**Cancellations:** Must be done 24-hours before scheduled delivery. Orders not cancelled within guidelines may be subject to a \$2,000.00 fee.

**Testing Data:** If the compressive age breaks, flexural age breaks, aggregate tests or any other data is not current enough & testing is required. The cost of the tests will be the responsibility of the buyer.

**Temperature:** Prices above do not include cost associated with chilling or heating to meet project temperature specifications.

Chilled / Heated water are subject to availability & Ice requires a 72-hour notice.

**Plans & Specs:** The mixes quoted are not warranted to be acceptable for any particular use, purpose or application, nor are they warranted to be acceptable for use in any particular environment or

200 S. Main St., Ste. 200 • Corona, CA 92882

P.O. Box 3600 • Corona, CA 92878-3600

(800) 834-7557 • Fax (951) 493-6462



# ROBERTSON'S



3.2.a

800-834-7557

ROCK • BASE MATERIALS • SAND  
READY MIX CONCRETE

800-232-3695

in conjunction with any particular soil conditions. Buyer's selection of the quoted mix, unless otherwise acknowledged in writing by Robertson's, will be deemed to be without the advice, consultation, recommendation or suggestion of Robertson's and Buyer assumes all risks related to the selection of the quoted product for any particular application. Fly-Ash is currently experiencing supply interruptions due to maintenance at the generating stations that produces this material. These interruptions could make this material unavailable for use in concrete at certain times. Please contact your sales representative should you have any questions.

**Cement Powder is currently experiencing a shortage and may experience supply interruptions. These interruptions could make this material unavailable for use in concrete at certain times. Please contact your sales representative should you have any questions.**

ROBERTSON'S IS NOT A TESTING LAB. IF A BASIC TRIAL BATCH IF NEEDED IT WILL COST APPROXIMATELY \$2,000.00 PER MIX PER TEST.

**\*\* REMINDER: WE HAVE RECYCLED CONCRETE BASE & FILL SAND AT COMPETITIVE PRICING. \*\***

ALL MATERIALS & TRUCKING ARE SUBJECT TO AVAILABILITY

This quote will supersede any master hauling agreements, purchase agreements, purchase orders, labor agreements and/or any written binding contracts.

This proposal is subject to a signed acceptance from the buyer within 20 days, after which time it will be void except at the option of the seller. Should you have any questions regarding our proposal, please feel free to contact us at (800) 834-7557. We look forward to the opportunity of working with you.

Thank you for your consideration,

David Weintraub  
Sales Department  
DW/bt(REV\_6.26.23)

Buyer Acceptance: \_\_\_\_\_ Title: \_\_\_\_\_ Date: \_\_\_\_\_

# Structural Rebar

# QUALITY REBAR, INC.

P.O. Box 501877  
 San Diego, CA  
 92150-1877  
 \*WOSB-WOMAN OWNED  
 SMALL BUSINESS ENTERPRISE

## Change Order Request

23092A — Oliver Roemer Water Filtration  
 Fac. Ph.1-PCL

COR Subject: Cost for added duct bank reinforcing 48" x  
 32" per email 9-25-23

To Edy Ortega  
 PCL Construction Services, Inc.

COR Number: 23092A-13  
 COR Revision Number: 0

COR Date: 11/14/2023

Return To Julia Vaughn  
 Quality Rebar, Inc.  
 rfis@qualityrebarinc.com

Work Type: Price / Do Not  
 Proceed

Days Valid: 30

### RE

Cost for added duct bank reinforcing 48" x 32" per email 9-25-23

### Details

Description	Cost / Rate	Qty / Hrs	Workers	Ext
Man Hours	\$96.00	32.00 <i>Hrs</i>	1.00	\$3072.00
Detailing	\$60.00	1.00 <i>Hrs</i>	1.00	\$60.00
Material	\$0.80	2,970.00 <i>POUNDS</i>	-	\$2376.00
Delivery	\$350.00	1.00	-	\$350.00

### Breakout

Labor :	\$3,132.00
Overhead and Profit @ 15%:	\$469.80
Material :	\$2,376.00
Sales Tax @ 7.75%:	\$184.14
Overhead and Profit @ 15%:	\$384.02
Other :	\$350.00
Overhead and Profit @ 15%:	\$52.50
<b>Total:</b>	<b>\$6,948.00</b>

**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.

Direction to proceed with work noted above will be interpreted as an acknowledgment and approval of said cost.

If work was already completed then cost is net 30 days and will be billed as such.

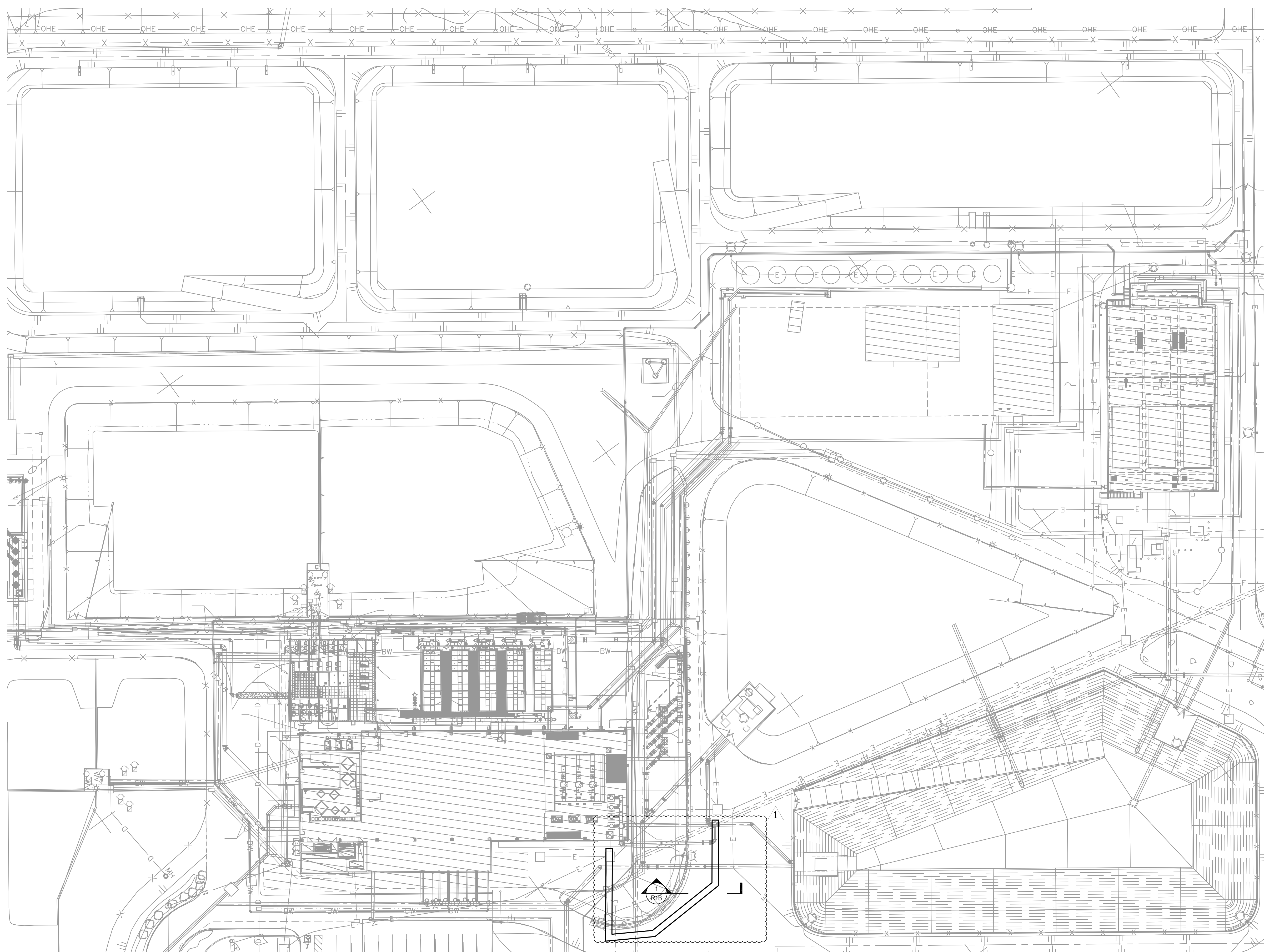
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**Signed By:**

A handwritten signature in black ink, appearing to read 'Tim Pitner', with a long horizontal line extending to the right.

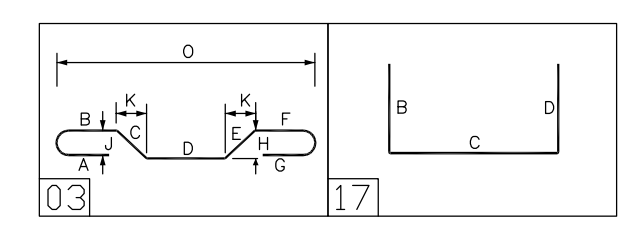
**Tim Pitner**  
**Operations Manager**

**Dated:** 11/14/2023



Release Code: R1B

Bar Mark	Qty	Size	Total length	Type	A'	B'	C'	D'	E'	F'	G'	H'	I'	J'	K'	L'	M'	N'	O'	P'	
4A06	14	#4	36'11"			19"	19"														
4A21	14	#4	90'11"			27"	310"	27"													
4A23	14	#4	36'13"			19"	19"							0'11 1/2"				15 1/2"		32 1/2"	
4A24	14	#4	36'13"			19"	19"							14 1/2"				11"		210 1/2"	



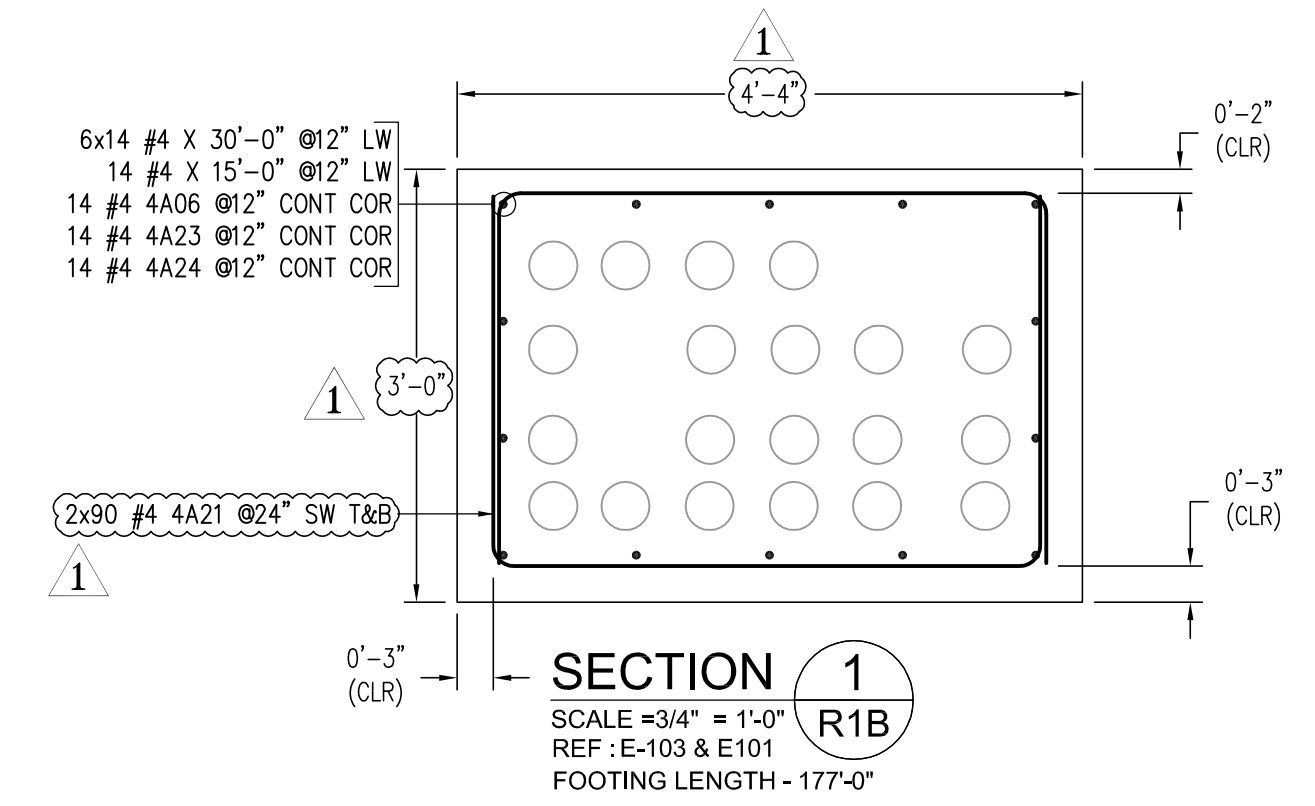
DUCT BANK  
Lap Schedule for 4000 PSI (Class B)

Size	Top bars	Other bars
#3	21"	16"
#4	21"	16"
#5	26"	20"
#6	37"	28"
#7	62"	48"
#8	81"	62"
#9	102"	79"
#10	130"	100"
#11	160"	123"

- NOTES:-
- TYPICAL CLEARANCES
    - FOR FOOTING BOTTOM & SIDES - 3"
    - FOR FOOTING TOP - 2"
  - A/E/C PLEASE VERIFY THE ALL CLOUDED ITEMS
  - CUT TO FIT AT SITE AS REQUIRED
  - BARs TO BE PLACED AT EQUAL SPACING U.O.N.
  - TILT HOOK TO ACCOMMODATE THE COVER, IF NEED

ACCESSORIES LIST - COVER BLOCK (DOBIES) - DUCT BANK

ELEMENT	TYPE	SIZE	COMPUTER NUMBER	SPACING	QUANTITY	WEIGHT
FOOTING	W/WIRE	3" X 3" X 3"	BW3	48" EW	100 Pcs	213 lbs



**LAYOUT OF ELECTRICAL SITE PLAN**  
SCALE = 1/32" = 1'-0"  
REF SHEETS : E-101

REVISE & RESUBMIT

GRADE	60 A615	<b>QUALITY REBAR INC.</b>	PHONE (858)679-3934
PREFIX	A		FAX (858)679-3939
BAR LIST NOS.		PROJECT: OLIVER P. ROEMER WATER FILTRATION FACILITY 2021 EXPANSION - PHASE I	TITLE: DUCT BANK REINFORCEMENT DETAIL
PRINT RECORD		CUSTOMER: PCL	ARCHT.: GHD inc
NO.	TO FOR DATE	ENGR.: MEHDI MARDI	
MK	REVISION DATE	DRAWN	CHECKED DATE CONTR. NO. DWG. NO.
DD	FOR APPROVAL 09.26.23	CPI	CPI 6.26.2023 23092A R1B
O1	REVISE & RESUBMIT 09.28.23		

# Asphalt



# Hardy & Harper, Inc.

*asphalt paving contractor*

32 RANCHO CIRCLE  
 LAKE FOREST, CA 92630  
 (714) 444-1851 FAX (714) 444-2801  
 STATE LIC. NO. 215952  
 DIR NO. 1000000076

<b>To:</b> GENERAL CONTRACTOR	<b>Contact:</b> ESTIMATING DEPT.
<b>Address:</b> ESTIMATING DEPARTMENT	<b>Phone:</b>
	<b>Fax:</b>
<b>Project Name:</b> OLIVER P. ROEMER WATER FILTRATION FACILITY PROJECT	<b>Bid Number:</b> 19-006411
<b>Project Location:</b> WEST VALLEY WATER DISTRICT	<b>Bid Date:</b> 10/26/2023

Item #	Item Description	Estimated Quantity	Unit	Unit Price	Total Price
1	MOBILIZATION (H & H SCOPE ONLY)	1.00	LS	\$10,000.00	\$10,000.00
2	ASPHALT CONCRETE (4") / CRUSHED MISC. BASE (6")	46,600.00	SF	\$5.36	\$249,776.00
3	COLDMILL & OVERLAY (2")	94,800.00	SF	\$2.05	\$194,340.00
4	AC SLOT PATCH (6")	1,080.00	LF	\$10.50	\$11,340.00

1316 sf \* \$5.36 = \$7,054

**Total Bid Price: \$465,456.00**

**Notes:**

**INCLUSIONS:**

- LABOR, EQUIPMENT & MATERIAL
- PRICE INCLUDES ONE (1) MOVE-IN - \$12,500.00 FOR EACH ADDITIONAL MOVE-IN
- PRICE BASED ON MINIMUM 8 HR SHIFTS
- PRICE GOOD THROUGH 12/30/2023 - PRICES SUBJECT TO INCREASE AFTER EXPIRATION DATE
- GRADES TO BE ROCK / AC READY
- SURVEYING, ENGINEERING AND STAKING BY OTHERS. ALL FINISHED FILLS, INCLUDING FILLS AT GRADE BREAKS TO BE PAINTED ON THE GRADE / PAVEMENT BY PRIME CONTRACTOR AT 25' STATIONS AT NO COST TO HARDY & HARPER, INC. FILLS TO BE GIVEN PRIOR TO PAVING
- PROPOSAL & ENTIRE CONTENTS SHALL BE INCORPORATED INTO SUBCONTRACT - MINIMUM 6 WEEKS NOTICE FOR ALL SCHEDULING
- QUANTITIES LISTED WILL BE THE MINIMUM BILL-OUT

**EXCLUSIONS:**

- QCQA, ARHM, ENGINEERING, PERMITS, BONDS, FEES, INSPECTION FEES, SWPPP, LAYOUT, SURVEY, GRADE CHECKER, OIL INDEX
- TEMP AC, TRENCH/SLOT PAVING, MEDIAN PAVING, SAWCUT, CRACKFILL, WEEDKILL, FOG SEAL, PRIME COAT, SLURRY, SEAL COAT
- INERTIAL PROFILE, MUST GRINDS, PROFILOGRAPH, PRE-PAVE IRI & GRINDING, CLEAN EXISTING AC, STEEL PLATES
- IMPORT/EXPORT, SUBGRADE PREP & REMOVAL/COMPACTION, GRADING, FINE GRADING, PCC BACKFILL, REDWOOD HEADER
- PROTECTION / LOCATING OF EXST. UTILITIES, UTILITY ADJUSTMENTS, SPEED BUMPS, POSTING, NOTIFICATIONS, NIGHTS/WEEKENDS
- DRAINAGE REQUIREMENTS W/ LESS THAN 2% FALL, TRAFFIC CONTROL, T/C PLANS, ARROW BOARDS, CMS BOARD, DETOURS, ROOT PRUNE/REMOVAL
- FABRIC & PLACEMENT, FABRIC REMOVALS / DISPOSAL, STRIPING, TEMP STRIPING & TABS, PROTECTION OF WORK AFTER SHIFT
- HAZARDOUS WASTE, WEATHER DELAYS, TEMPERATURE DELAYS, WATER & SOURCE, OPERATED WATER TRUCK / BUGGY, LIGHTS
- LIQUIDATED DAMAGES NOT DUE TO OUR OPERATION. THIS INCLUDES DAMAGES FOR LATE OPENINGS. TRAINING & FEES
- SAFETY TRAINING, TWIC, BADGING COST, SANDBLASTING, STRIPING REMOVALS, AS BUILDS, EXCLUDES ANYTHING NOT LISTED AS INCLUDED

<p><b>ACCEPTED:</b></p> <p>The above prices, specifications and conditions are satisfactory and are hereby accepted.</p> <p><b>Buyer:</b> _____</p> <p><b>Signature:</b> _____</p> <p><b>Date of Acceptance:</b> _____</p>	<p><b>CONFIRMED:</b></p> <p><b>Hardy &amp; Harper, Inc.</b></p> <p><b>Authorized Signature:</b> _____</p> <p><b>Estimator:</b> Tanner Hambright                  714.412.1335 thambright@hardyandharper.com</p>
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# Potholing

Potholing Services



**Proposal for Air/Vacuum Excavation services -**

**For:**

***PCL Construction, Inc.***

**Potholing Rates – Rialto, CA**

*Client Information*

Scott Ferrier

SRFerrier@PCL.com

O: 562.317.0026

M: 480.901.7124

3750 Schaufele Ave Ste. 270  
Long Beach, CA  
90808

*Ultra Information*

JT West

JT@DigWithAir.com

O: 951.223.3552

M: 619.971.5235

36806 Pebley Ct  
Winchester, CA  
92596

February 3<sup>rd</sup>, 2023

**ULTRA ENGINEERING CONTRACTORS, INC.**

License #971768  
DIR#1000012104

WBE  
Local #1184



# Proposal for Air/Vacuum Excavation services

## Air/Vacuuming Excavation

Ultra Engineering Contractors, Inc. will provide air/vacuum excavation services to perform ≈9 potholes to expose existing utilities/clear holes to specified dimensions in Rialto per request (a pothole is typically defined as a 1'x1' hole cleared to a depth of 6', these holes will be cleared 1' further than anticipated depth before being deemed a "dry hole").

## Work Provided

Ultra Engineering Contractors, Inc. will –

- Set up protective barriers to shield pedestrians and traffic from flying debris (if necessary).
- Saw cut/remove asphalt and document it's depth (where applicable).
- Use our Air/Vacuum Systems to remove dirt, rocks, sand or other to expose utility/clear to requested dimensions.
- Locate positive horizontal depth, size, and material of utility (if applicable).
- Document all utilities located with spray paint on the concrete/asphalt as well as in writing and photographs in our logbooks (if applicable).
- Replace and compact dirt over utility. Compact in 1' lifts, to achieve approximately 90% compaction.
- Finish hole with Cold Patch (where applicable).
- Sweep and clean entire work area.
- Provide detailed logs and photographs of each pothole.

## Time Frame

Estimated time to complete a pothole is 45-60 minutes for our Standard Rig (Approximately 4-6 Potholes Per Day Estimated Using Our Standard Rig). Many factors can affect this estimate such as depth of utilities, density of soil, time allowed in work area, tree roots, moisture content of soil, distance to spoils dump area, accuracy of markouts/layout, etc. Ultra Engineering Contractors, Inc. will do its best to complete the work within this time frame, but will not guarantee or be penalized for not completing the work within this period.

## Excluded from Daily Rates (available at additional charges)

Ultra Engineering Contractors, Inc. does not include with this proposal-

- Hot Patch/concrete panel repair.
- Lay-out of locations to be potholed.
- Traffic Control/Traffic Control Plans.
- Dig Alert markouts/meetings.
- Permits/Deposits/Fees of any kind.
- Night/Weekend/Holiday/Overtime work.
- Excavation beyond rock bed or water table.
- Professional Locating/Survey services.
- "Pay when paid" terms or Retention without prior approval by Ultra.
- Backfilling with anything other than native spoils (I.E. Slurry, Gravel, etc.)
- Transport/disposal of spoils off site.
- Removal of paint marks.
- Additional Insurance, Endorsements, or Bonds beyond what Ultra currently has in place.
- Projects with a PLA (without prior approval).
- Participation in any OCIP/CSIP/WRAP without prior approval from Ultra Engineering.
- Projects with Skilled/Trained Workforce requirements must be approved by Ultra prior.
- Contracts beyond our Request For Service form for all work completed under \$10,000.
- Billing packages that require a fee in order to be paid (I.E. Textura, G.C. Pay, Etc.).

## Potholing Cost

(Prevailing Wage Rates: Rialto, CA)

Ultra Engineering Contractors, Inc. will provide the services outlined in this proposal for –

**\$3,370 Per Day (Potholing Rig)**

**Includes Two Technicians, Equipment, Excavation, Documentation, and Travel.**

**(Includes 8-hours of on-site work per day)**

**Estimated Project Length – 2 Days**

**Estimated Project Total – \$6,740**



# Inspections & Testing

CONVERSE CONSULTANTS
Prevailing Wage Schedule of Fees
Personnel

Introduction

It is the objective of Converse Consultants to provide its clients with quality professional and technical services and a continuing source of professional advice and opinions. Services will be performed in a manner consistent with that level of care and skill ordinarily exercised by members of the profession currently practicing in the same locality under similar conditions. This fee schedule is valid through December 31, 2023.

Hourly Charges for Personnel

Staff assignments will depend on personnel availability, job complexity, project site location, and experience level required to satisfy the technical requirements of the project and to meet the prevailing standard of professional care.

Field Technical Services (hourly rate including vehicle and equipment)

Table listing field technical services: Construction Inspector - \$140, DSA Masonry Inspector - 140, Non-Destructive Testing Inspector - 145, Coring Technician - 140, Soils Technician (soil, base, asphalt concrete, and moisture emission testing) - 140, Sample Pick-Up - 60.

Professional Services (consultation for field and office, if requested)

Table listing professional services: Staff Professional - \$130, Senior Staff Professional - 140, Project Professional - 150, Project Manager - 170, Senior Professional - 170, Principal Professional - 220, Principal Consultant - 235.

Laboratory Testing

Table listing laboratory testing: Laboratory Technician - Per Test (see Geotechnical Laboratory Testing and Materials Testing Services fee schedules.), Laboratory Supervisor - \$90.

Office Support

Table listing office support: Clerical/Word Processing - \$80, Drafting - 80, CAD Operator/Drafting Manager - 90.

Overtime and special shift rates for Field Services personnel are determined in accordance with Prevailing Wage law. Travel time to and from the job site will be charged at the hourly rates for the appropriate personnel.

Expenses

- 1. Exploration expenses (drilling, trenching, etc.) are charged at cost plus fifteen percent.
2. Travel and subsistence expenses (transportation, room and board, etc.) for individuals on projects requiring travel and/or living 50 miles away from the project site are charged at cost plus fifteen percent.
3. Automobile and truck expenses are charged at cost plus fifteen percent (rentals) or at the current IRS mileage rate per mile for company-owned vehicles traveling between principal office and project.
4. Other out-of-pocket direct project expenses (aerial photos, long-distance telephone calls, permits, bonds, outside printing services, tests, etc.) are charged at cost plus fifteen percent.

Invoices

- 1. Invoices will be submitted to the Client on a monthly basis, and
2. Payment is due upon presentation of invoice and is past-due payment to Converse when due, Converse may immediately cease services at the rate of eighteen percent per annum (but not exceeding the rate of thirty percent per annum). Further, Converse may at its sole option and discretion refuse to provide services if the Client fails to pay Converse for services when said payment is due.
3. Client shall pay attorneys' fees or other costs incurred in collecting payment.

General Conditions

The terms and provisions of the Converse General Conditions are incorporated by reference into this fee schedule. If a copy of the General Conditions does not accompany this fee schedule, the General Conditions shall apply.

Summary of testing:
Construction Inspector - \$140 @ 6 hrs = \$840
Compression tests - \$45 EA. for 5 cylinders = \$225
Field Concrete Control - \$80 EA. for 5 cylinders = \$400
Soils Technician - \$140 @ 4 hrs (min.) = \$560
Standard Proctor Test - \$200
Total testing fees - \$2,225

## CONVERSE CONSULTANTS

### Schedule of Fees – Geotechnical Laboratory Testing

Compensation for laboratory testing services will be made in accordance with this fee schedule which includes test report(s) and engineering time. Costs of tests not on this schedule will be by quote and/or in accordance with our current hourly fee schedule. The rates are based on non-contaminated soil. A surcharge will be charged for handling contaminated material, which will be determined based on the project.

#### IDENTIFICATION AND INDEX PROPERTIES TESTS

Visual Classification, ASTM D2488 .....	20.00
Engineering Classification, ASTM D2487 .....	25.00
Moisture Content and Dry (bulk) Density, ASTM D2216 and D2937 .....	25.00
Moisture Content, ASTM D2216 .....	20.00
Shrinkage Limit, ASTM D4943 .....	85.00
Atterberg Limits, ASTM D4318	
Several points .....	150.00
One Point .....	50.00
Particle Size Analysis, ASTM D6913	
Fine Sieve, from +#200 to #4 .....	100.00
Coarse and Fine Sieve, from #200 to 3 in .....	180.00
Hydrometer .....	120.00
Percent Passing #200 Sieve, ASTM D1140 .....	80.00
Specific Gravity	
Fine, passing #4 sieve, ASTM D854 .....	100.00
Coarse, retained on #4 sieve, ASTM C127 .....	100.00
Sand Equivalent Test, ASTM D2419 .....	120.00
Double Hydrometer Dispersion, ASTM D4221 .....	150.00

#### COMPACTION AND BEARING STRENGTH

Standard Proctor Compaction, ASTM D698 or ASTM D1557	
Method A or B .....	200.00
Method C, 6" mold .....	210.00
California Impact Method, Caltrans 216 .....	220.00
R-value, ASTM D2844 and CTM301 .....	270.00
California Bearing Ratio (CBR), ASTM D1883	
1 Point .....	530.00
3 Points .....	750.00
Relative Density	
0.1 Cubic Foot Mold .....	200.00
0.5 Cubic Foot Mold .....	300.00

#### SHEAR STRENGTH

Torvane/Pocket Penetrometer .....	25.00
Direct Shear	
Quick Test .....	75.00
Consolidated, Drained, granular soil, ASTM D3080 .....	220.00
Consolidated, Drained, fine grained soil, ASTM D3080 .....	260.00
Consolidated, Undrained, fine grained soil .....	220.00
Residual Strength, per cycle .....	70.00
Remolded Specimens .....	70.00

#### STATIC UNIAXIAL AND TRIAXIAL STRENGTH TESTS (PER POINT)

Unconfined Compression, ASTM D2166 .....	150.00
Unconsolidated, Undrained, ASTM D2850 .....	160.00
Consolidated, Undrained, per point .....	700.00
Consolidated, Drained, per point .....	700.00
With Pore Pressure Measurement, per load .....	150.00
Remolded Specimen .....	90.00

#### CONSOLIDATION (ASTM2435) AND SWELL COLLAPSE (ASTM D4546) TESTS

8 Load Increments .....	250.00
Additional Load Increment .....	50.00
Time-Ratio, per load increment .....	90.00
Single Point, collapse test .....	90.00

Single Load Swell, ASTM D4546	
Ring Sample, Field Moisture .....	95.00
Ring Sample, Air Dried .....	95.00
Remolded Sample .....	70.00
Expansion Index Test, UBC 29-2/ASTM D4829 .....	130.00

#### HYDRAULIC CONDUCTIVITY TESTS

Constant Head, ASTM D2434 .....	250.00
Falling Head Flexible Wall, ASTM D5084 .....	300.00
Triaxial Permeability, EPA 9100 .....	350.00
Remolded Specimen .....	60.00

#### CHEMICAL TESTS

Corrosivity (pH, resistivity, sulfates, chlorides) .....	220.00
Organic Content, ASTM D2974 .....	100.00

**Conditions:** Unit rates presented on this fee schedule are for routinely performed geotechnical laboratory tests. Numerous other earth material physical tests can be performed in our geotechnical laboratories, including rock core, soil cement and soil lime mixture tests. Tests not listed can be quoted upon request. This fee schedule is valid through December 31, 2023.

Prices are based on the assumption that samples are uncontaminated and do not contain heavy metals, acids, carcinogens and/or volatile organics which can be measured by an organic vapor analyzer or photoionization detector with a concentration greater than 50 parts-per-million (ppm). Quoted testing fees are based on the assumption that no protective clothing will be required to handle samples. If Level D protective clothing will be required during handling of samples (as defined in Federal CFR Part 1910.120), then a 40% increase in fees presented in this schedule will be applied. Level C protective clothing will be a 60% increase in fees. Converse will not handle samples that require either Level B or Level A protection in our geotechnical laboratories. Contaminated samples will be returned to the client. Uncontaminated samples will be disposed of 30 days after presentation of test results. The client must disclose the source of samples. Samples imported from out of state will be incinerated after testing in accordance with requirements of the United States Department of Agriculture. Soil samples obtained within the State of California currently designated quarantine areas will also be incinerated in accordance with the requirement of the State of California, Department of Food and Agriculture, Division of Plant Industry, Pest Exclusion. A \$5.00 incineration fee will be added to each sample that is required to be incinerated in accordance with State and Federal law.

Test results requiring plots will be presented in a publishable format generated from computer programs. Otherwise, raw test numbers will be presented. A minimum laboratory fee of \$50.00 will be charged to present and mail test results. Beyond the standard U.S. Mail delivery, specialized transmittal will be charged at additional cost (e.g., Federal Express, UPS, etc.). Geotechnical testing does not include engineering and/or geologic review and analysis. Typical turnaround for geotechnical laboratory testing is two weeks (or roughly ten working days). To expedite test turnaround to five working days, a 50% increase in the fees in this schedule will be applied. Many geotechnical tests require at least one week to perform in accordance with ASTM or other standard specifications. Fees presented in this schedule for relatively undisturbed direct shear, consolidation or expansion pressure tests are based on the assumption that 2.416-inch inside diameter brass ring samples will be provided to the geotechnical laboratory for testing. Remolded specimens will be compacted in standard 2.5-inch outside diameter brass rings for direct shear, consolidation and expansion pressure tests. All fees presented in this schedule are based on the assumption that the client will deliver samples to our laboratory at no additional cost to Converse.

Invoices will be issued monthly and are payable on receipt unless otherwise agreed upon. Interest of 1.5% per month (but not exceeding the maximum allowed by law) will be payable on any amount not paid within thirty days; payment thereafter to be applied first to accrued interest and then to the principle unpaid amount. The Client shall pay any attorneys' fees or other costs incurred in collecting any delinquent amounts.

## CONVERSE CONSULTANTS

### Schedule of Fees – Materials Laboratory Testing

Compensation for laboratory testing services will be based on rates in accordance with this fee schedule which includes test report(s) and engineering time. Costs of tests not on this schedule will be by quote and/or in accordance with our current hourly fee schedule. Our services will be performed in accordance with the General Conditions. This fee schedule is valid through December 31, 2023.

#### AGGREGATES

Moisture Content, ASTM D2216 .....	20.00
Particle Size Analysis	
Coarse, ASTM C136, each .....	100.00
Coarse and Fine, ASTM C136 & C137, each .....	180.00
Specific Gravity & Absorption	
Coarse Aggregate, ASTM C127 .....	100.00
Fine Aggregate, ASTM C128 .....	100.00
Unit Weight per Cubic Foot, ASTM C29 .....	75.00
Soundness, Sodium or Magnesium, ASTM C88, each .....	200.00
Potential Alkali Reactivity, ASTM D289 .....	300.00
Freeze Thaw Soundness .....	175.00
Los Angeles Abrasion, per class, ASTM C131, C535 .....	220.00
Sand Equivalent, ASTM D2419 .....	110.00
Lightweight Particles, ASTM C123, each .....	100.00
Clay Lumps & Friable Particles, ASTM C142, each .....	120.00
Stripping Test, ASTM D1664, each .....	85.00
Organic Impurities, ASTM C40 .....	100.00
Durability .....	By Quote

#### CONCRETE TESTS

Laboratory Trial Batch, ASTM C192 .....	By Quote
Laboratory Mix Design, Historical Data .....	By Quote
Compression Test, 6"x12" Cylinder, ASTM C39, each .....	45.00
Lightweight Concrete	
Compression .....	45.00
Unit Weight .....	45.00
Specimen Preparation, Trimming or Coring, each .....	60.00
Bond Strength, ASTM C321	
Prepared by Converse .....	150.00
Prepared by Others .....	80.00
Core Compression Test, ASTM C12, each .....	80.00
Flexure Test, 6"x6" Beams, ASTM C78, each .....	110.00
Modulus of Elasticity, Static, ASTM C469, each .....	150.00
Length Change, ASTM C157, 3 bars, 5 readings each, up to 26 days .....	320.00
Splitting Tensile, 6"x12" Cylinders, each .....	80.00
Field Concrete Control (sampling, slump, temperature, cast 4 cylinders, molds, cylinder pick-up, within 10 miles of office, stand-by extra), ASTM/UBC, hourly rate schedule, or each cylinder .....	95.00
Field Concrete Control (same as above plus air content test), ASTM/UBC, each cylinder .....	95.00
Hold Cylinder .....	10.00
Cylinder Mold, sent to job site but not cast by Converse or returned to Converse .....	5.00

#### MASONRY (ASTM C140, E447, UBC STANDARD 24-22)

Moisture Content, as received, each .....	20.00
Absorption, each .....	50.00
Compression, each .....	55.00
Shrinkage, ASTM C426, each .....	100.00
Net Area and Volume, each .....	25.00
Masonry Blocks, per set of 9 .....	450.00
Masonry Core Compression, each .....	55.00
Masonry Core Shear, each .....	55.00
Masonry Core Trimming, each .....	55.00
Compression Test, grouted prisms, 8"x8"x16", each .....	120.00
Compression Test, grouted prisms, 12"x16"x16", each .....	130.00
Compression Test	
2"x4" Mortar Cylinder, each .....	45.00
3"x6" Grout Prisms, each .....	45.00
2" Cubes, ASTM C109, each .....	45.00
Cast by Others .....	45.00
Mortar or Grout Mix Designs .....	By Quote

#### FIREPROOFING TESTS

Oven Dry Density, per sample .....	70.00
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#### MOISTURE EMISSION TEST

Moisture Emission Test Kit .....	80.00
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#### ASPHALTIC CONCRETE

Stability, Flow, and Unit Weight, ASTM D6927 .....	220.00
Marshall ASTM D1559, ASTM D2726 .....	220.00
Measured Maximum Specific Gravity of Mix, ASTM D2041, Rice Method, each .....	95.00
Void Analysis of Cores or Marshall Specimens, Calculations Only, ASTM D3203, set of 2 or 3 .....	60.00
Laboratory Mixing of Asphalt & Concrete, per sample .....	75.00
Complete Asphalt Concrete Mix Design	
Hveem or Marshall .....	By Quote
Extraction of Asphalt and Gradation, ASTM D2172, Method B, or California 310, including ash correction, each .....	220.00
Extraction of Rubberized Asphalt & Gradation, each .....	250.00
Specific Gravity, ASTM D2726 or ASTM D1188	
Uncoated .....	95.00
Coated .....	105.00
Immersion-Compression .....	400.00
Particle Coating, ASTM D2489 .....	60.00
Stripping, ASTM D1664 .....	70.00
Moisture or Volatile Distillates in Paving Mixtures, or Materials Containing Petroleum Products or By-Products .....	220.00
Retained Strength, ASTM D1074/D1075, 6 specimens .....	By Quote
Retained Stability, Mil, Std, 520A, Method 104, 6 specimens .....	By Quote
CBR, ASTM D1883, including M/D Curve, 1 point .....	350.00
Asphalt Temperature .....	15.00

#### STRUCTURAL STEEL

Tensile Test #9 Bar or Smaller, each .....	60.00
Bend Test #9 Bar or Smaller, each .....	60.00
Tensile Test #10 Bar or Greater, each .....	280.00
Tensile Test #14 Bar, each .....	310.00
Rebar Coupler Tensile Test .....	100.00
Tensile Test, Welded #9 Bar or Smaller, each .....	100.00
Tensile Test, Welded #10 Bar or Greater, each .....	280.00
Tensile Test, Welded #14 Bar, each .....	310.00
Tensile Test, Mechanically Spliced, #9 Bar or Smaller, each .....	180.00
Tensile Test, Mechanically Spliced, #10 Bar or Greater, each .....	350.00

#### HIGH STRENGTH BOLT, NUT, AND WASHER TESTING

Wedge Tensile Test, A490 Bolts	
Under 100,000 lbs., each .....	65.00
Over 100,000 lbs., each .....	75.00
Wedge Tensile Test, A325 Bolts	
Under 100,000 lbs., each .....	80.00
Tensile Test, Anchor Bolts, tested with displacement transducers, each .....	300.00
Nut Hardness, Proof & Cone Proof Load Test, each .....	50.00
Washer Hardness, each .....	50.00
A325 or A490, Bolt Hardness Only, each .....	50.00
Bolt A325 or A490 Wedge Tensile	
Under 100,000 lbs. & Hardness, each .....	90.00
Over 100,000 lbs. & Hardness, each .....	150.00
Bolt, Nut & Washer, all tests per set with bolts	
Under 100,000 lbs. .....	300.00
Over 100,000 lbs. .....	380.00

See *Schedule of Fees – Geotechnical Laboratory Testing* for soil testing. Hourly rates are available upon request. Field Laboratory rates are available upon request. Listed unit rates are based upon the assumption that samples will be delivered to our laboratory at no cost to Converse.

# Stay Form



**UFP RIVERSIDE LLC #382**

**3.2.a**

TELEPHONE: 951 826-3000

ORDER CONFIRMATION

PAGE 1 OF 1

Order# : 56280505 Your P.O.#: 3269-68304-KH Terms NET 30 DAYS ADI	Ordered : 2023-10-25 Req Del : 2023-10-26 Ship Terms: Via : TRUCK
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Bill To: PCL CONSTRUCTION SERVICES INC 655 N CENTRAL AVE STE 1600 GLENDALE, CA USA 91203	Ship To: PCL ENTERPRISES 3010 N CEDAR AVE  RIALTO, CA USA 92377 909 827-7506
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QUANTITY	PRODUCT DESCRIPTION	PRICE
288.0 LF	93972 LVL, 1-1/2 X 9-1/4 SCAFFOLD L12 1 Pkg @ 024 pcs/pkg = 24 pcs	\$ 5.3100/LF
		<div style="border: 1px solid red; padding: 5px; display: inline-block;"> <p><b>\$5.31/LF</b> 40 LF ; \$5.31 * 40 LF = \$212 for material</p> </div>
288 LF 1 pkg 24 pcs		

Ship From: 3821C UFP RIVERSIDE LLC #382 2100 AVALON ST  RIVERSIDE, CA USA 92509-2000 951 826-3000	Extension: CALIFORNIA \$91.76 LUMBER ASSESSMENT \$15.29 RIVERSIDE \$3.82 RIVERSIDE CO LOCAL TA \$15.29 SAN BERNARDINO COUNTY \$7.65  Total USD: \$1,663.09
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Cust Instr:

## HH1 - HH11 Duct Bank (DB) Details

DB Profile; 4'-3" W x 3'-0" D

Required cover above top of DB encasement; 24" min.

Average Depth of Excavation; 5'-0"

Length of Excavation; 190'

Width of Excavation; 4.333'

Excavation Quantity =  $4.333' \times 190' \times 5' = 4,116.35$  cubic feet / 27 cubic feet = 153 cy

Square feet of saw cut =  $4.33' \times 190' = 823$  square feet

Asphalt saw cut duration = 2 days

Backfill quantity;  $4.333' \times 2' \times 190' = 1,645.4$  cubic feet / 27 = 61 cy

ITEM 3



November 20, 2023

Paul Hermann  
Water Market Leader  
GHD  
320 Goddard Way, Suite 200  
Irvine, CA 92618

Linda Jadeski  
Director of Engineering  
West Valley Water District  
855 W. Base Line P.O. Box 920  
Rialto, CA 92377

Attn: Paul Hermann and Linda Jadeski

**RE: Request for Change due to Differing Site Conditions – New 24” UV Recovery Line reroute - Oliver P Roemer Water Filtration Facility Upgrade and Expansion Project**

Mr. Hermann and Mrs. Jadeski,

Please accept this correspondence as a Change Request regarding the impacts associated with the new reroute of the 24” UV Recovery Line. As informed to the District and GHD on June 27, 2023, The two existing electrical vaults HH-11 and HH-1, with wires that feed the building, are at different locations, compared to what they are shown on the 30% drawings and record drawings. HH-11 is closer to the existing/new 24” tie-in point than what is shown on the drawings. On the other hand, HH-1 is closer to the building than what is shown on the drawings as well. The current location of HH-11 does not allow the new 24” UV reroute to be tie-in next to the vault, as well as to reuse the existing butterfly valve. PCL sees that the discrepancy in the location of the existing vaults is a Differing Site Condition in accordance with the Prime Contract, section 4.2.

The summary of the cost impacts is described below:

1. Field investigations of the new tie-in location
2. Extension of 24” UV Recovery line , in order to tie-in to the existing line at the east side of the existing vault, which will result in additional piping installed, excavation, backfill and road restoration
3. Installation of a new 24” Butterfly valve for the connection
4. Re-design efforts by Stantec

**PCL CONSTRUCTION INC.**

3900 Kilroy Airport Way, Ste 110  
Long Beach, CA 90806  
Telephone: (858) 657-3400 ♦ Website: [www.pcl.com](http://www.pcl.com)



Finally, in accordance with the Prime Contract's section 4.2 – Differing Site Conditions, PCL respectfully and in good faith requests that the West Valley Water District accept this Change Request, as the general contractor finds that the location of the existing vaults HH-1 and HH-11 materially differ and could not have been discovered, or reasonably inferred, from the Contract Documents or a thorough inspection of the Project Site by the Design-Builder. The new proposed 24" UV recovery line reroute and its new tie-in point will impact to the Contract pricing; therefore, it requires a Change order for the pricing adjustment.

Sincerely,

A handwritten signature in black ink, appearing to be "K. Goetz", written over a light gray rectangular background.

Kevin Goetz  
Project Manager  
[kgoetz@pcl.com](mailto:kgoetz@pcl.com)

PCL Construction, Inc.  
3900 Kilroy Airport Way, Ste 110, Long Beach, CA 90806

# CHANGE ORDER PROPOSAL

PROJECT: Oliver P. Roemer WFF 2021 Expansion

CRX #008

PCO # TBD  
DATE: 12/7/23  
ESTIMATOR: SF

DESCRIPTION:

Change Request for required UV recovery routing updates due to existing HH1 location

**DIRECT ESTIMATE**

LABOR		\$	12,770
EQUIPMENT		\$	6,515
MATERIALS		\$	39
SUBCONTRACTOR		\$	21,313
<b>SUBTOTAL</b>		<b>\$</b>	<b>40,637</b>

**DIRECT MARKUP**

LABOR	25%	\$	3,192
EQUIPMENT	20%	\$	1,303
MATERIALS	15%	\$	6
SUBCONTRACTOR	5%	\$	1,066

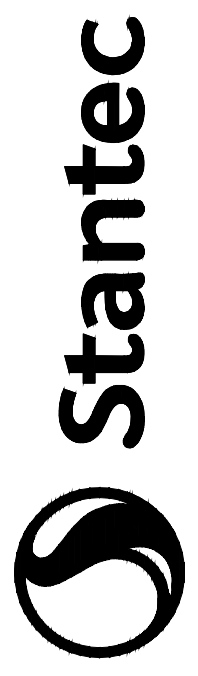
<b>SUBTOTAL MARKUP</b>		<b>\$</b>	<b>5,567</b>
------------------------	--	-----------	--------------

<b>SUBTOTAL WITH DIRECT MARKUP</b>		<b>\$</b>	<b>46,204</b>
------------------------------------	--	-----------	---------------

**TOTAL ADDITIONAL WORK \$ 46,204**

**GRAND TOTAL THIS CHANGE \$ 46,204**



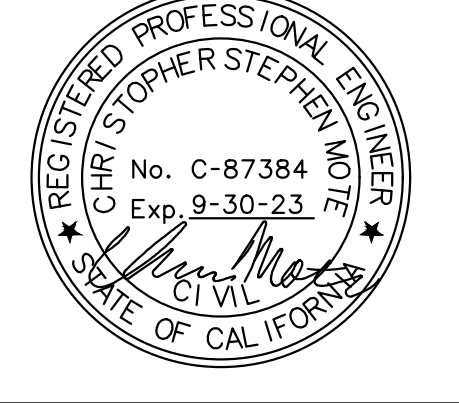


Stantec  
300 North Lake Avenue, Suite 400  
Pasadena, California 91101-1469  
www.stantec.com  
Tel: +1.626.422.0029

Consultant

NO.	DATE	BY	APP'D	REVISION
0	ISSUED FOR CONSTRUCTION	CS	BY	ISSUED
1	REC AND UVR REVISIONS	CS	BY	REVISION
2	2023.06.20	YTY/AM/DO	BY	YTY/AM/DO
3	2023.09.01	YTY/AM/DO	BY	YTY/AM/DO

Permit/Seal

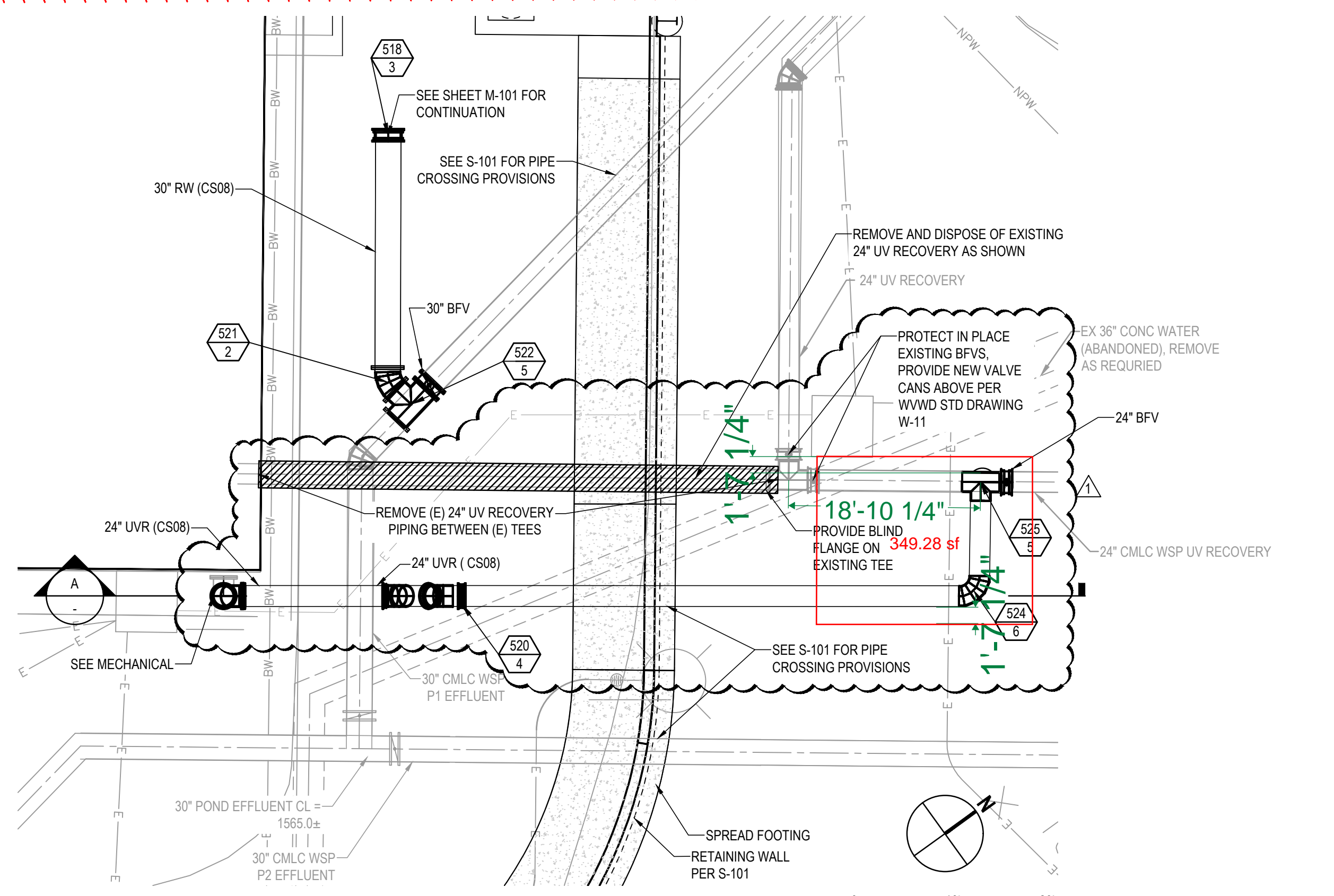


Client/Project  
West Valley Water District  
Roemer WFF Expansion Project  
Rialto, California

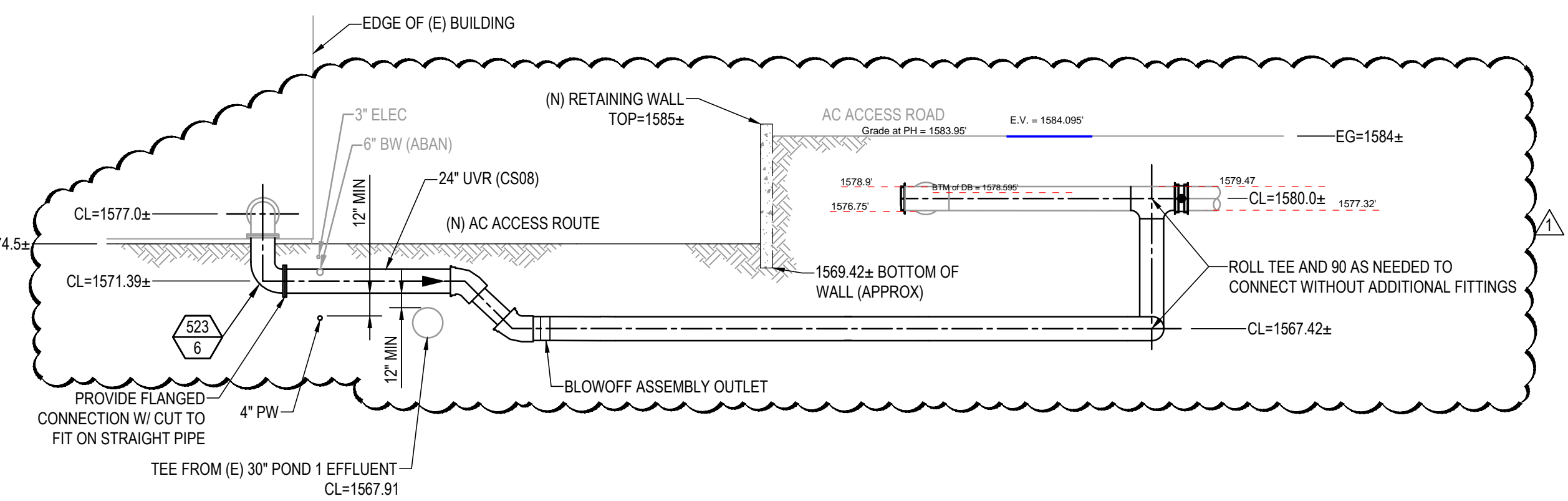
Project No.: 184031687  
File Name: 31687C-143  
Scale: AS SHOWN  
VP CS GT  
Dwn. Dsgn. Chkd. YTY/AM/DO  
Title  
YARD PIPING ENLARGED PLAN AND SECTIONS  
Revision: Sheet: 39 of 325  
Drawing No.

- SHEET KEYNOTES**
- DUAL HARNESSSED MECHANICAL COUPLINGS PER SHEET C-013
  - 45° BEND (HORIZ)
  - BUTT STRAP CONNECTION PER DETAIL C-704 SHEET C-002
  - BLOWOFF
  - TEE, SIZE PER PLAN (HORIZ)
  - 90° BEND (HORIZ)

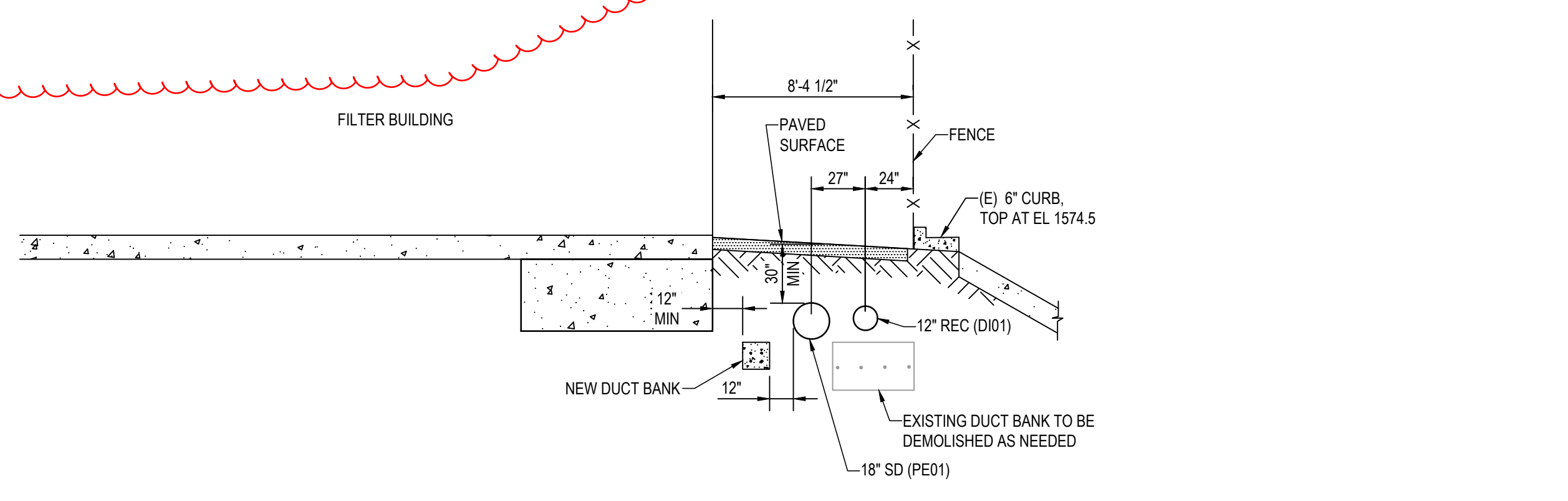
Updated UV recovery line for constructibility



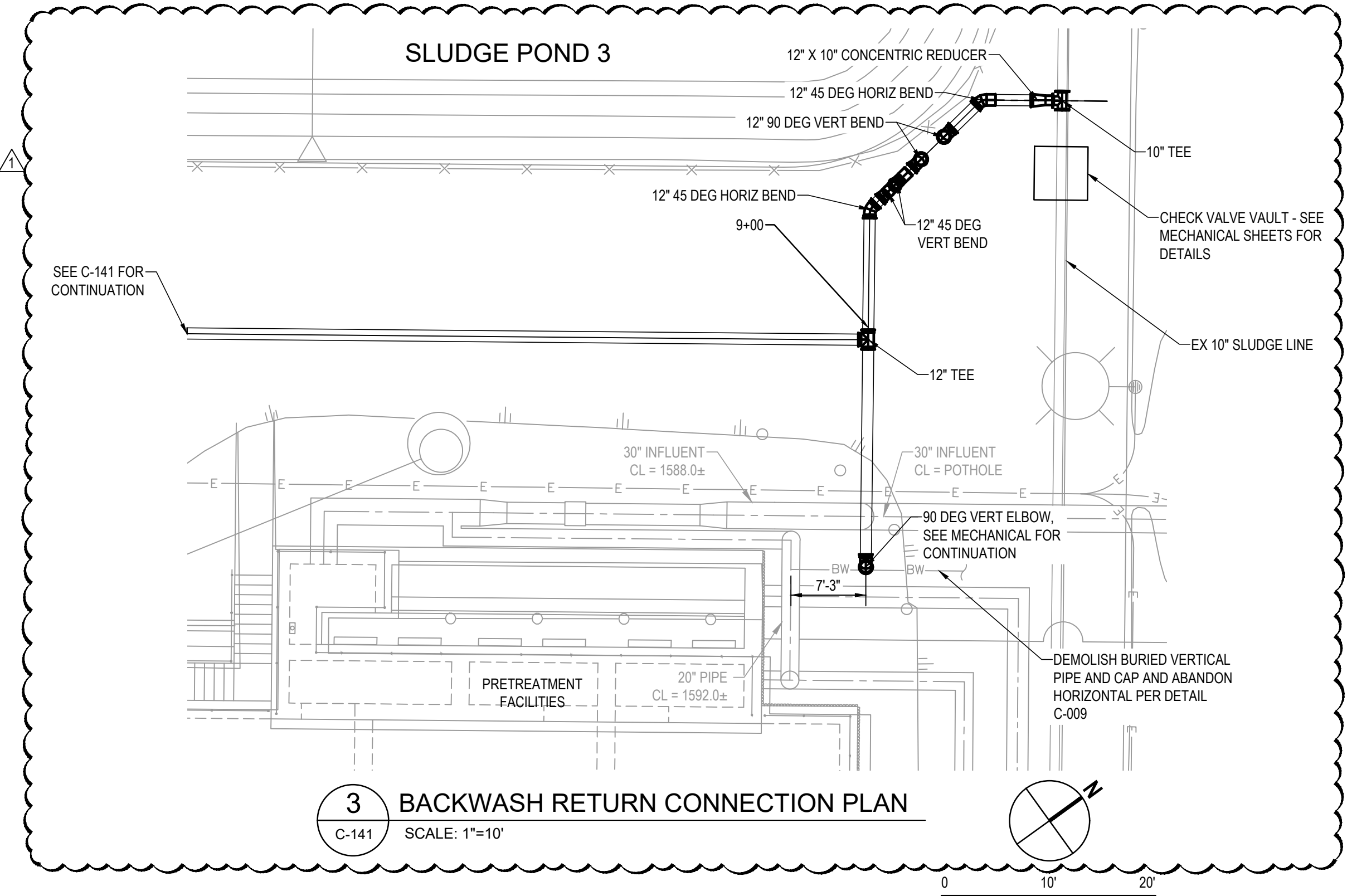
1 UV RECOVERY PLAN  
C-141 SCALE: 1"=10'



A UV RECOVERY SECTION  
C-143 SCALE: 1"=10'



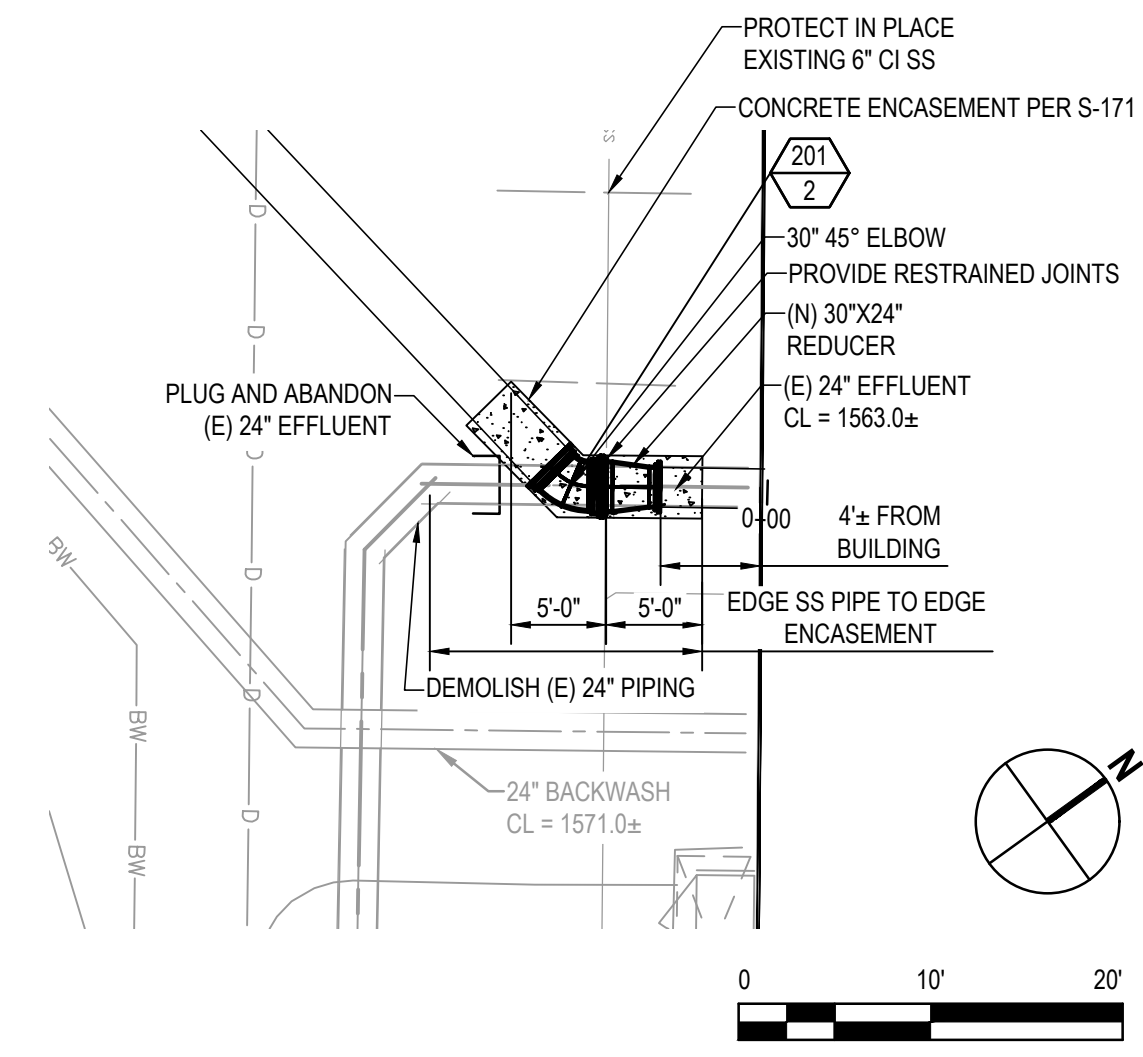
C SECTION  
C-141 SCALE: 1"=5'



3 BACKWASH RETURN CONNECTION PLAN  
C-141 SCALE: 1"=10'

DUAL HARNESSSED MECHANICAL COUPLING & BLOWOFFS

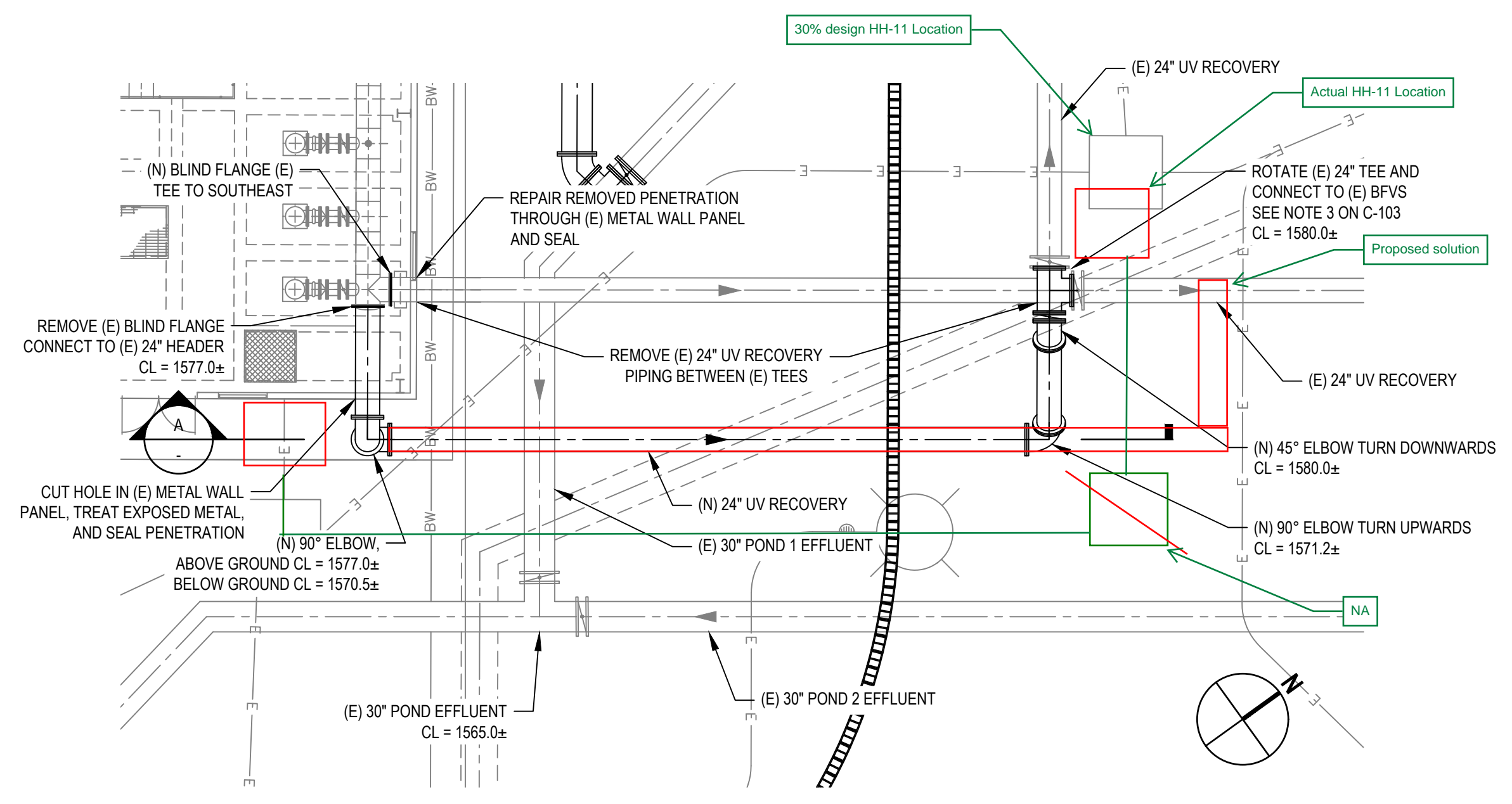
TAG	NORTHING	EASTING	CENTERLINE ELEVATION	DESCRIPTION
201	1878551.44	6743734.44	1562.60	30" - 45° BEND (HORZ)
518	1878751.22	6743854.13	1567.82	TEE IN W/BUTT STRAP
520	1878730.60	6743895.08	1567.42	BLOWOFF
521	1878737.00	6743873.83	1567.82	30" 45° BEND (HORZ)
522	1878737.59	6743876.89	1567.82	30" TEE
523	1878711.64	6743881.40	1571.39	24" 90° BEND (HORZ)
524	1878771.82	6743924.81	1567.42	24" 90° BEND (HORZ)
525	1878778.49	6743915.79	1582.51	24" TEE (HORZ)



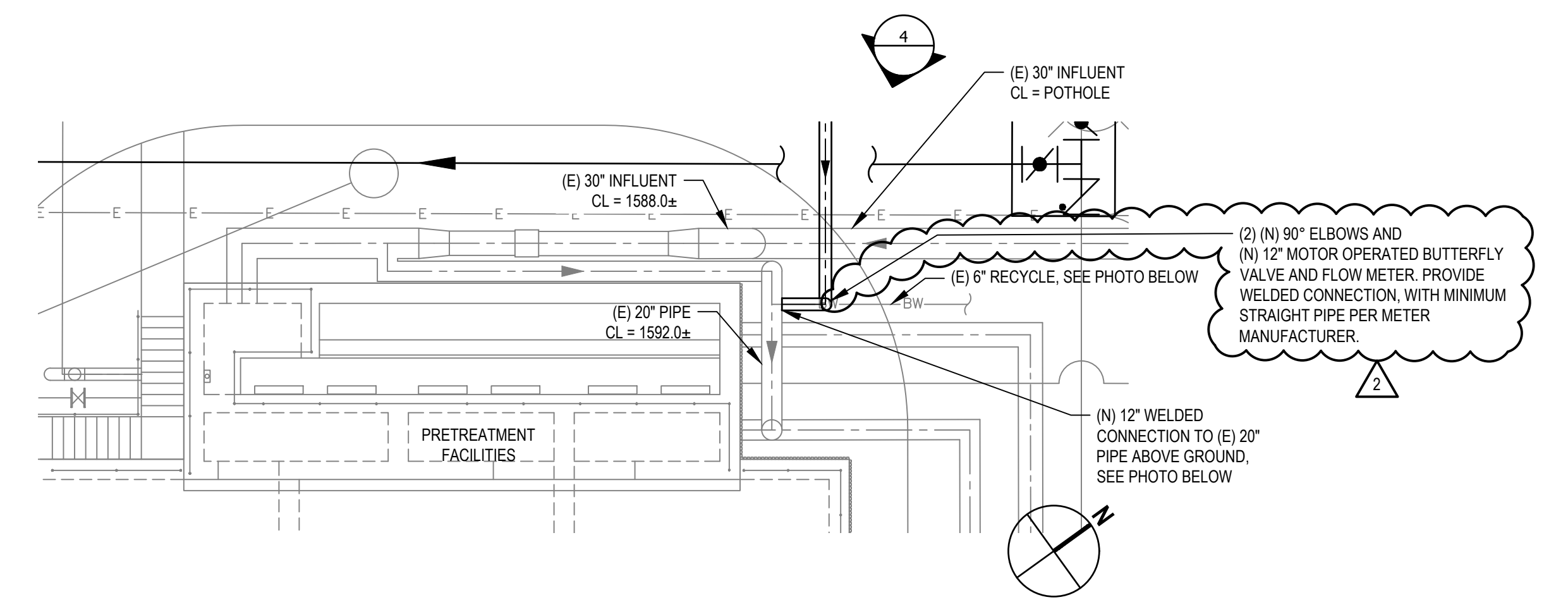
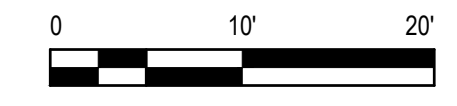
2 EFFLUENT CONNECTION  
C-141 SCALE: 1"=10'

C:\Users\jstevens\OneDrive\Documents\184031687\Roemer\_WFF\31687C-143.dwg  
2023/09/01 15:28:49

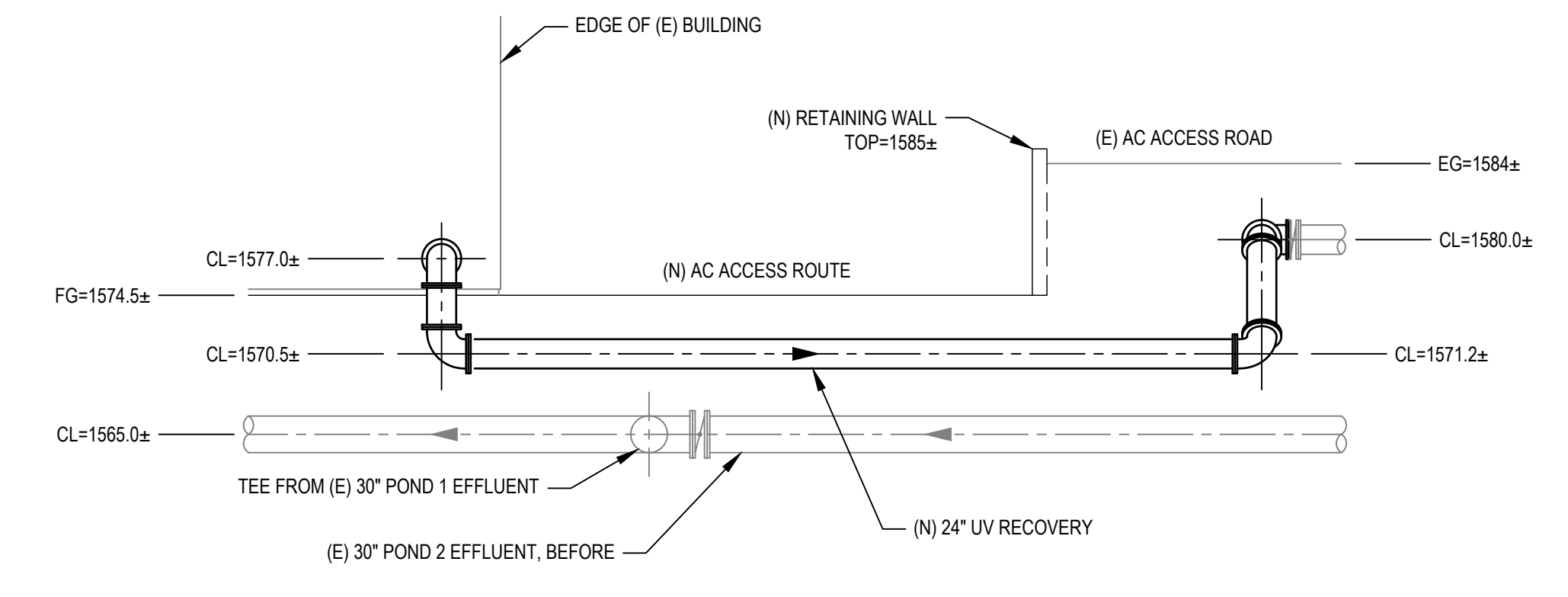
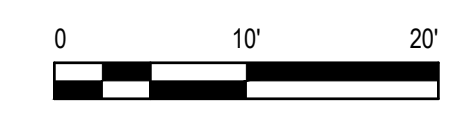




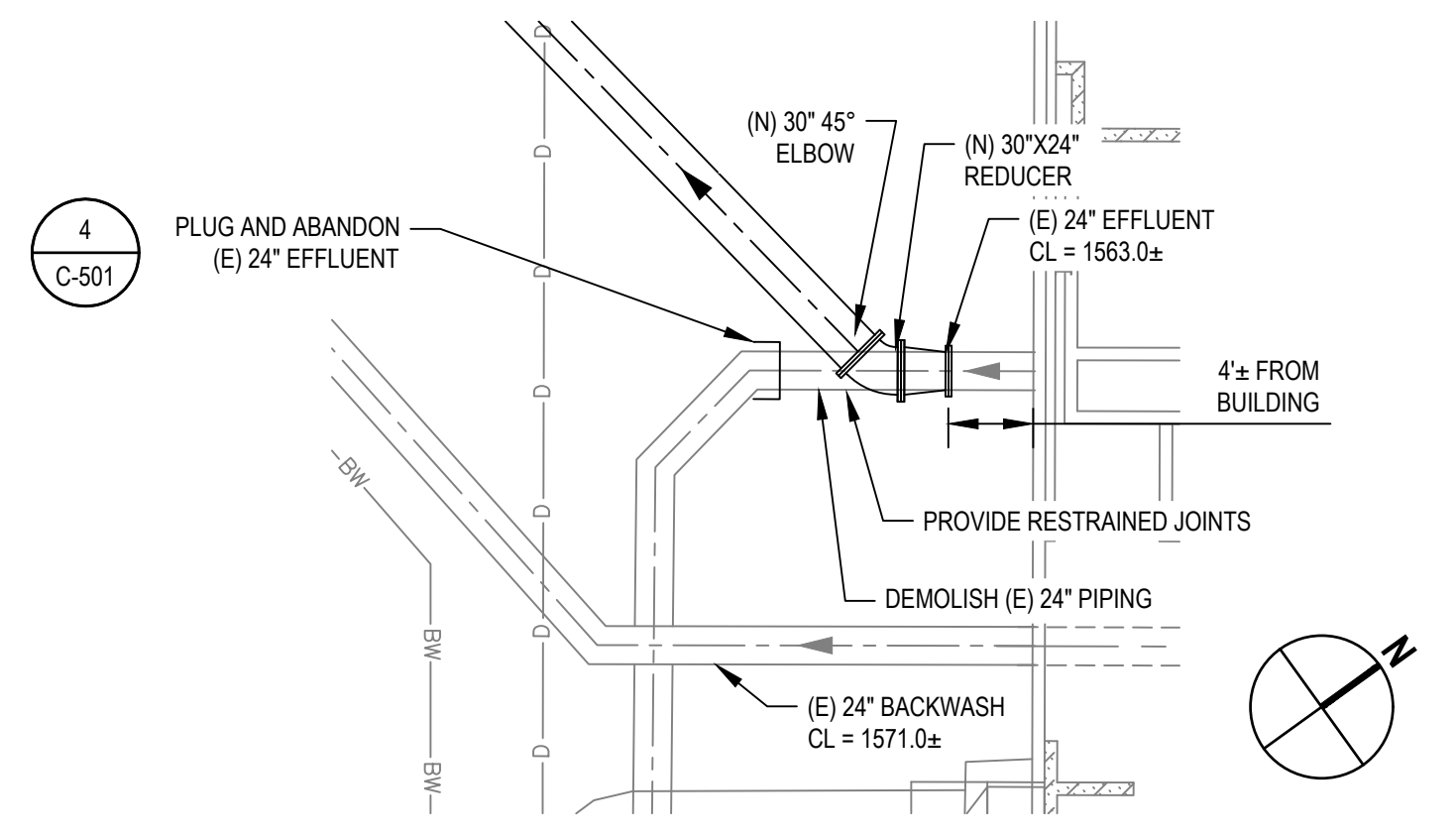
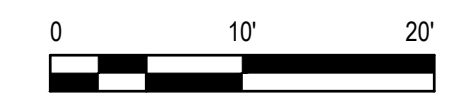
1 UV RECOVERY PLAN  
C-104



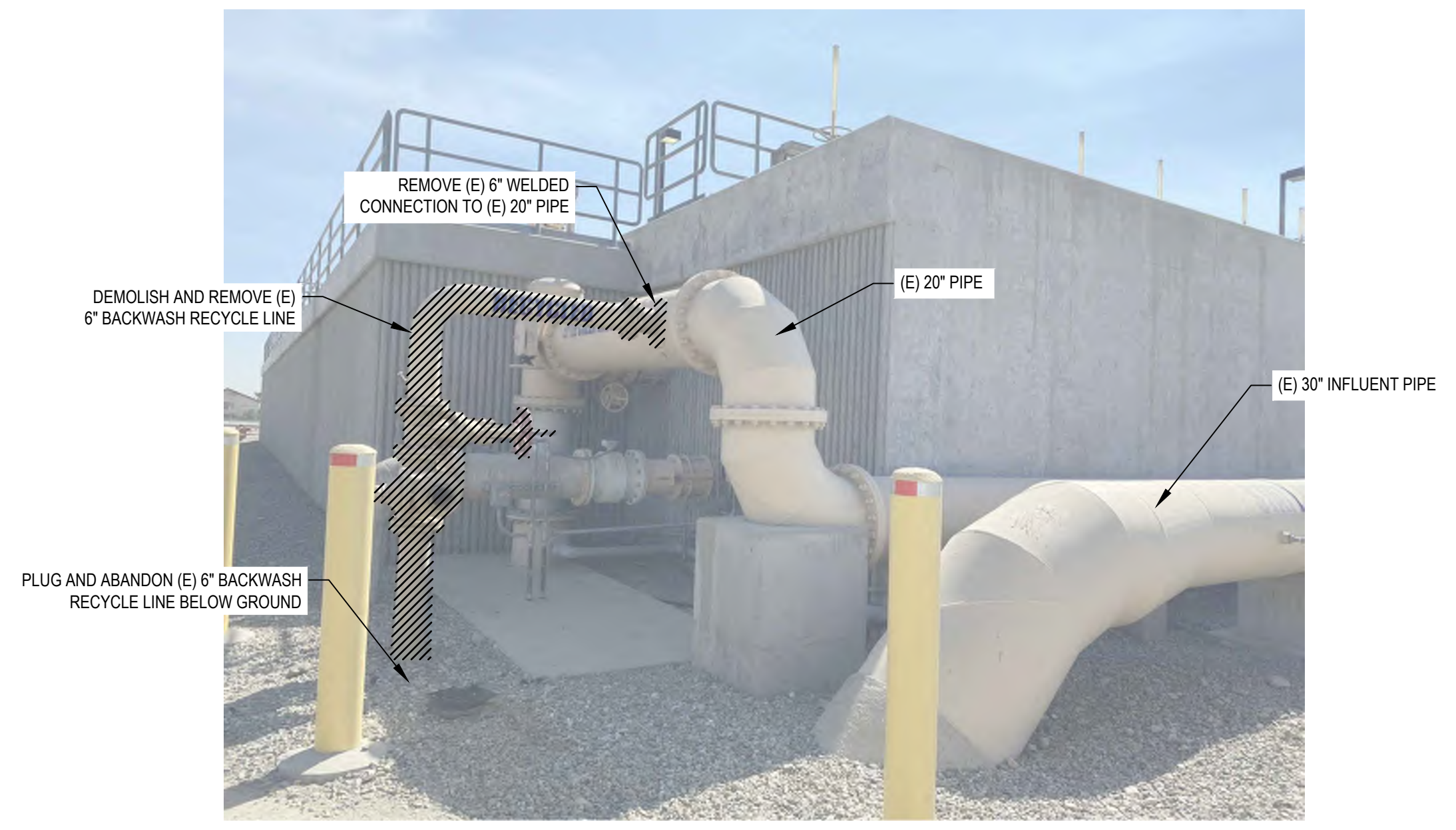
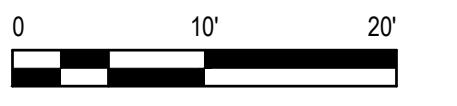
3 BACKWASH RETURN CONNECTION PLAN  
C-104



A UV RECOVERY SECTION



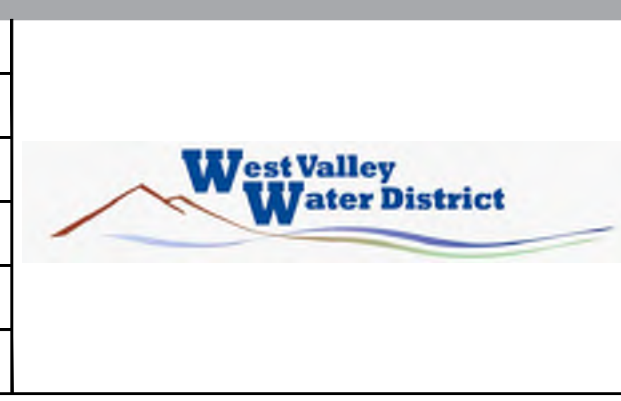
2 EFFLUENT CONNECTION  
C-104



4 BACKWASH RETURN CONNECTION PHOTO

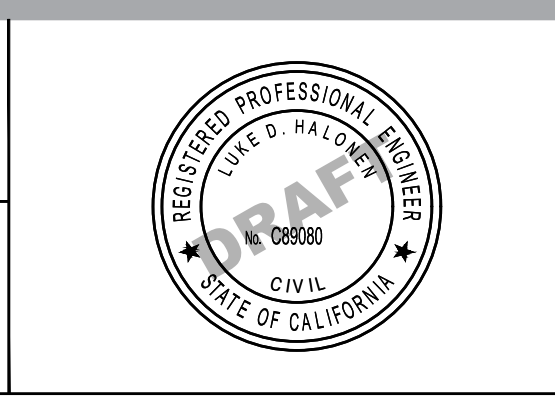
30% DESIGN - NOT FOR CONSTRUCTION

2	ADDENDUM 2	RR	LDH	4/14/22
No.	Issue	Drawn	Approved	Date



Bar is one inch on original size sheet  
0 1"

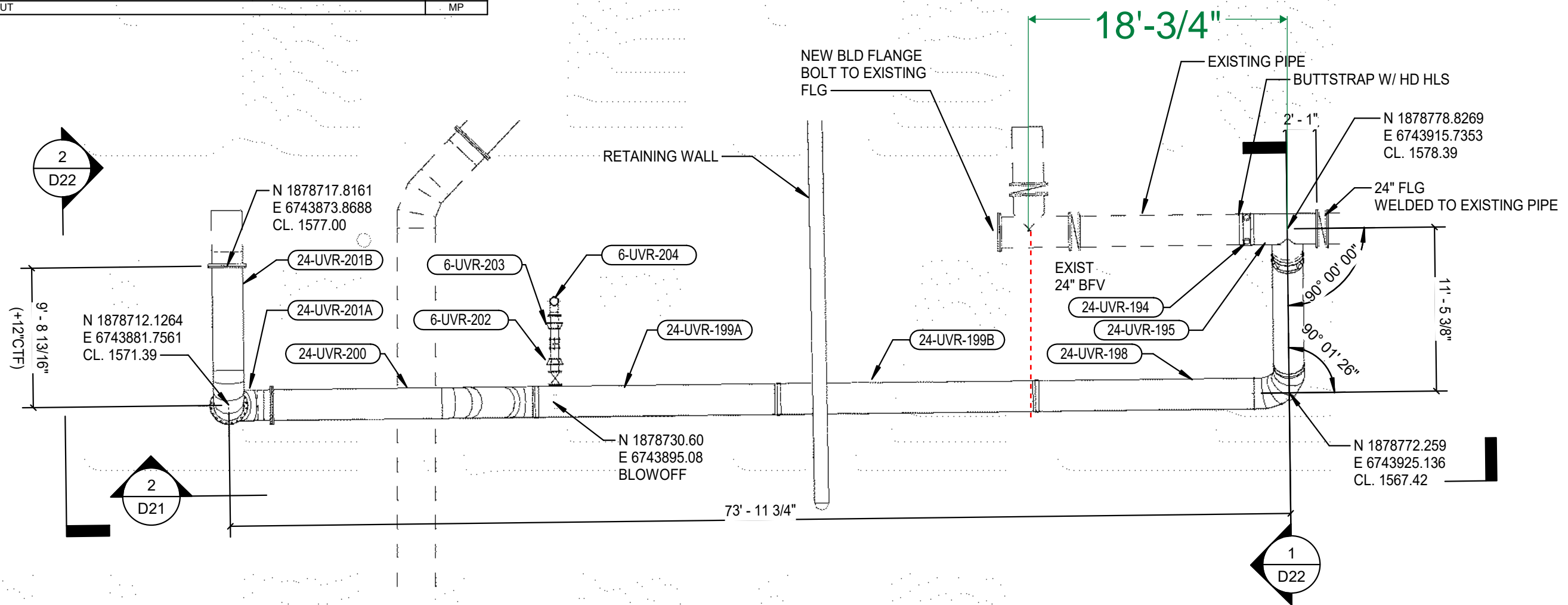
Reuse of Documents  
This document and the ideas and designs incorporated herein, as an instrument of professional service, is the property of GHD and shall not be reused in whole or in part for any other project without GHD's written authorization.  
© 2022 GHD



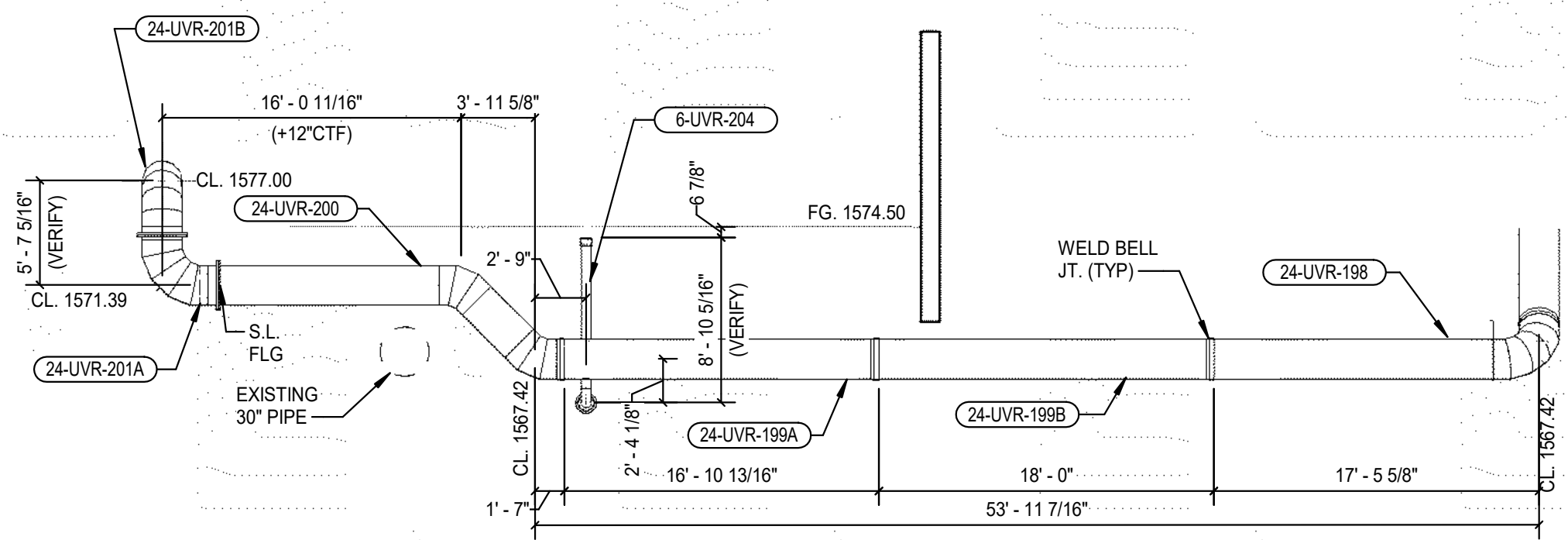
Drawn	T. WILKINS	Designer	T. WILKINS
Drafting Check	L. HALONEN	Design Check	L. HALONEN
Project Manager	J. AWAD	Date	DECEMBER 2021
This document shall not be used for construction unless signed and sealed for construction.		Scale	AS SHOWN

Client	WEST VALLEY WATER DISTRICT
Project	OLIVER P. ROEMER WATER FILTRATION FACILITY 2021 EXPANSION - PHASE I
Title	YARD PIPING ENLARGED PLANS AND SECTIONS
Project No.	11214029
Original Size	ANSI D
Sheet No.	C-104
Sheet	9 of 88

REV	DATE	REVISION DESCRIPTION	BY
0	07NOV23	REVISED PER NEW UV LAYOUT	MP



PLAN VIEW 24" UVR LINE



SECTION VIEW 2 - D21

TITLE: PLAN VIEW 24" UVR		
PROJECT: OLIVER P. ROEMER WFF EXPANSION PROJECT		
AGENCY: WEST VALLEY WATEWR DISTRICT		
CONTR: PCL CONSTRUCTION		
ADDRESS: 3010 N CEDAR AVE., RIALTO, CA. 92377		
DRAWN BY: Author	JOB NUMBER	SHEET NUMBER
DATE: 06/20/23	SCALE: 1/8" = 1'-0"	5642
		D21

# Correspondence

**Kevin Goetz**

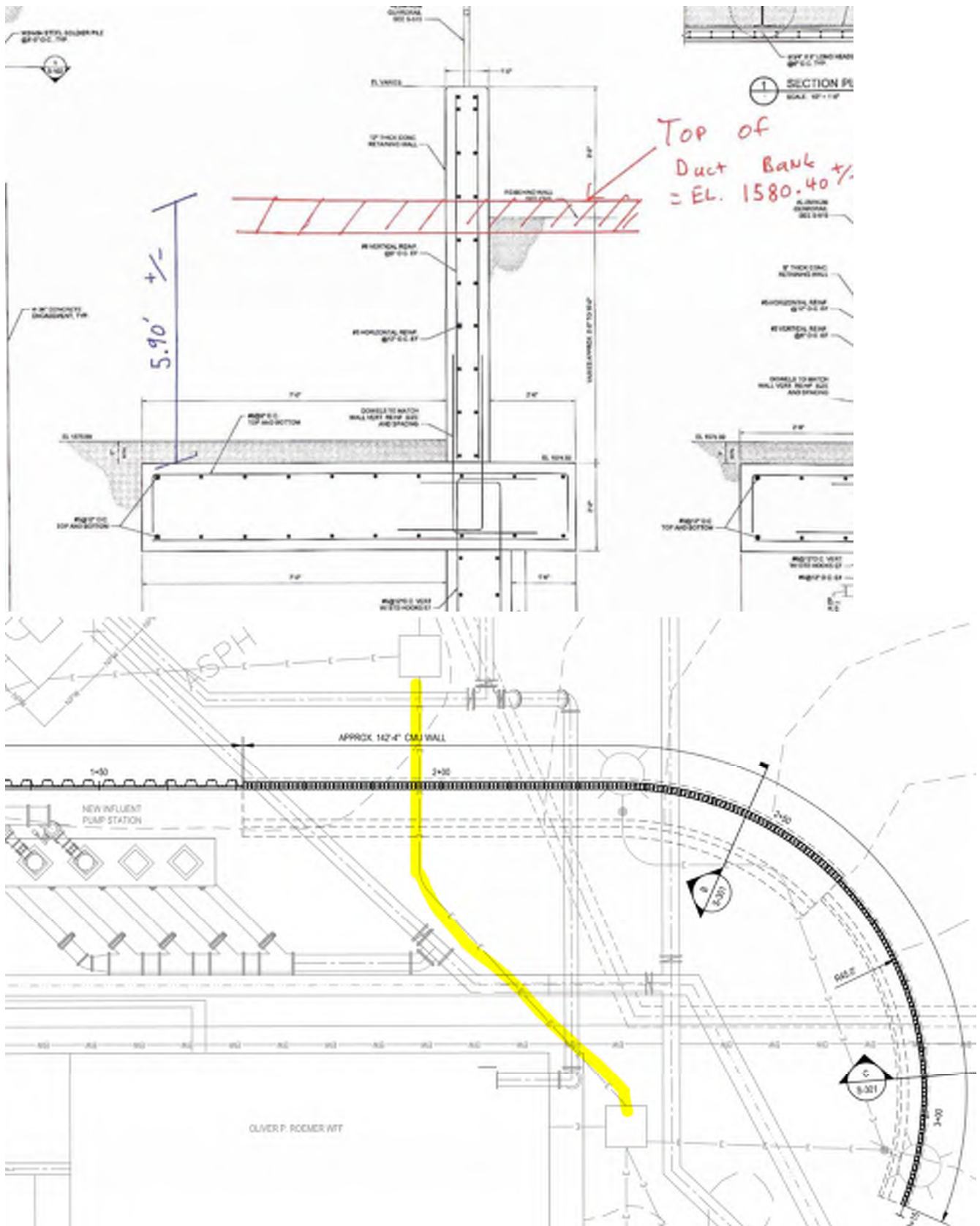
---

**From:** Kevin Goetz  
**Sent:** Tuesday, June 27, 2023 5:10 PM  
**To:** Linda Jadeski (ljadeski@wwwd.org); Paul Hermann  
**Cc:** Brandon Morlet; Jamal Awad  
**Subject:** Update on the Ductbank by the new retaining wall

Linda/Paul,

I just wanted to provide you with an update regarding our potholing of the existing electrical ductbank. See below:

1. The existing ductbank's elevation is in conflict with the new retaining wall. Below is a rough idea of its elevation in relation to the new wall. The ductbank follows the slope of the existing hill.



- 2. The two existing electrical vaults HH-11 and HH-1, with wires that feed the building, are at different locations, compared to what they are shown on the 30%. HH-11 is closer to the existing/new 24" tie-in point than what is shown on the drawings. HH-1 is closer to the building than what is shown on the drawings as well, which tells us that the existing ductbank would conflict with the new 24" UV reroute. See the screenshots below for additional information.

# CML-C Pipe

**Scott Ferrier**

---

**From:** Mike Provencher <mikep@jifco.com>  
**Sent:** Friday, October 6, 2023 10:31 AM  
**To:** Kevin Goetz; Scott Ferrier  
**Subject:** RE: UV Pricing

Kevin,

Our pricing system doesn't do per item, but here are some numbers to use.

Credit 24" Flanges – (<\$1,917.00> Total)  
Added 24" Pipe – (\$2,713.00 Total)

Mike Provencher  
Jifco Inc.

$\$2,713 - \$1,917 = \$796$

**Kevin Goetz, PMP, MBA**  
Project Manager

**PCL Construction, Inc.**  
3900 Kilroy Airport Way, Ste 110  
Long Beach, CA 90806  
T: 213-358-5206  
[kgoetz@pcl.com](mailto:kgoetz@pcl.com)

[www.pcl.com](http://www.pcl.com)  
**TOGETHER WE BUILD SUCCESS**

---

**From:** Mike Provencher <[mikep@jifco.com](mailto:mikep@jifco.com)>  
**Sent:** Friday, October 6, 2023 8:31 AM  
**To:** Scott Ferrier <[SRFerrier@pcl.com](mailto:SRFerrier@pcl.com)>  
**Cc:** Kevin Goetz <[KGoetz@pcl.com](mailto:KGoetz@pcl.com)>  
**Subject:** RE: UV Pricing

Scott,

Here are the credits for the changes to the UV Area.

Mike Provencher  
Jifco Inc.

---

**From:** Scott Ferrier <[SRFerrier@pcl.com](mailto:SRFerrier@pcl.com)>  
**Sent:** Thursday, October 5, 2023 4:33 PM  
**To:** Mike Provencher <[mikep@jifco.com](mailto:mikep@jifco.com)>  
**Cc:** Kevin Goetz <[KGoetz@pcl.com](mailto:KGoetz@pcl.com)>  
**Subject:** RE: UV Pricing

Thanks for the update Mike.

**Scott Ferrier**  
Project Engineer

**PCL Construction, Inc.**  
3900 Kilroy Airport Way, Ste 110  
Long beach, CA 90806  
M: (480)-901-7124  
[srferrier@pcl.com](mailto:srferrier@pcl.com)

[www.pcl.com](http://www.pcl.com)  
**TOGETHER WE BUILD SUCCESS**

---

**From:** Mike Provencher <[mikep@jifco.com](mailto:mikep@jifco.com)>  
**Sent:** Thursday, October 5, 2023 11:19 AM  
**To:** Scott Ferrier <[SRFerrier@pcl.com](mailto:SRFerrier@pcl.com)>  
**Cc:** Kevin Goetz <[KGoetz@pcl.com](mailto:KGoetz@pcl.com)>  
**Subject:** RE: UV Pricing

[External Email]

Scott,



Since some of the 30" items were deleted, there is a credit coming. I should have it to you today or tomorrow.

Mike

---

**From:** Scott Ferrier <[SRFerrier@pcl.com](mailto:SRFerrier@pcl.com)>  
**Sent:** Wednesday, October 4, 2023 5:15 PM  
**To:** Mike Provencher <[mikep@jifco.com](mailto:mikep@jifco.com)>  
**Cc:** Kevin Goetz <[KGoetz@pcl.com](mailto:KGoetz@pcl.com)>  
**Subject:** UV Pricing

Mike,

For the UV recovery update is there any associated cost with increase in material or are we planning to leave this as is?

Thanks,

**Scott Ferrier**  
**Project Engineer**

**PCL Construction, Inc.**  
3900 Kilroy Airport Way, Ste 110  
Long beach, CA 90806  
M: (480)-901-7124  
[sferrier@pcl.com](mailto:sferrier@pcl.com)

[www.pcl.com](http://www.pcl.com)  
**TOGETHER WE BUILD SUCCESS**

# Asphalt



# Hardy & Harper, Inc.

*asphalt paving contractor*

32 RANCHO CIRCLE  
LAKE FOREST, CA 92630  
(714) 444-1851 FAX (714) 444-2801  
STATE LIC. NO. 215952  
DIR NO. 1000000076

<b>To:</b> GENERAL CONTRACTOR	<b>Contact:</b> ESTIMATING DEPT.
<b>Address:</b> ESTIMATING DEPARTMENT	<b>Phone:</b>
	<b>Fax:</b>
<b>Project Name:</b> OLIVER P. ROEMER WATER FILTRATION FACILITY PROJECT	<b>Bid Number:</b> 19-006411
<b>Project Location:</b> WEST VALLEY WATER DISTRICT	<b>Bid Date:</b> 10/26/2023

Item #	Item Description	Estimated Quantity	Unit	Unit Price	Total Price
1	MOBILIZATION (H & H SCOPE ONLY)	1.00	LS	\$10,000.00	\$10,000.00
2	ASPHALT CONCRETE (4") / CRUSHED MISC. BASE (6")	46,600.00	SF	\$5.36	\$249,776.00
3	COLDMILL & OVERLAY (2")	94,800.00	SF	\$2.05	\$194,340.00
4	AC SLOT PATCH (6")	1,080.00	LF	\$10.50	\$11,340.00

350 sf \* \$5.36

**Total Bid Price: \$465,456.00**

**Notes:**

• **INCLUSIONS:**

- LABOR, EQUIPMENT & MATERIAL
- PRICE INCLUDES ONE (1) MOVE-IN - \$12,500.00 FOR EACH ADDITIONAL MOVE-IN
- PRICE BASED ON MINIMUM 8 HR SHIFTS
- PRICE GOOD THROUGH 12/30/2023 - PRICES SUBJECT TO INCREASE AFTER EXPIRATION DATE
- GRADES TO BE ROCK / AC READY
- SURVEYING, ENGINEERING AND STAKING BY OTHERS. ALL FINISHED FILLS, INCLUDING FILLS AT GRADE BREAKS TO BE PAINTED ON THE GRADE / PAVEMENT BY PRIME CONTRACTOR AT 25' STATIONS AT NO COST TO HARDY & HARPER, INC. FILLS TO BE GIVEN PRIOR TO PAVING
- PROPOSAL & ENTIRE CONTENTS SHALL BE INCORPORATED INTO SUBCONTRACT - MINIMUM 6 WEEKS NOTICE FOR ALL SCHEDULING
- QUANTITIES LISTED WILL BE THE MINIMUM BILL-OUT

• **EXCLUSIONS:**

- QCQA, ARHM, ENGINEERING, PERMITS, BONDS, FEES, INSPECTION FEES, SWPPP, LAYOUT, SURVEY, GRADE CHECKER, OIL INDEX
- TEMP AC, TRENCH/SLOT PAVING, MEDIAN PAVING, SAWCUT, CRACKFILL, WEEDKILL, FOG SEAL, PRIME COAT, SLURRY, SEAL COAT
- INERTIAL PROFILE, MUST GRINDS, PROFILOGRAPH, PRE-PAVE IRI & GRINDING, CLEAN EXISTING AC, STEEL PLATES
- IMPORT/EXPORT, SUBGRADE PREP & REMOVAL/COMPACTION, GRADING, FINE GRADING, PCC BACKFILL, REDWOOD HEADER
- PROTECTION / LOCATING OF EXST. UTILITIES, UTILITY ADJUSTMENTS, SPEED BUMPS, POSTING, NOTIFICATIONS, NIGHTS/WEEKENDS
- DRAINAGE REQUIREMENTS W/ LESS THAN 2% FALL, TRAFFIC CONTROL, T/C PLANS, ARROW BOARDS, CMS BOARD, DETOURS, ROOT PRUNE/REMOVAL
- FABRIC & PLACEMENT, FABRIC REMOVALS / DISPOSAL, STRIPING, TEMP STRIPING & TABS, PROTECTION OF WORK AFTER SHIFT
- HAZARDOUS WASTE, WEATHER DELAYS, TEMPERATURE DELAYS, WATER & SOURCE, OPERATED WATER TRUCK / BUGGY, LIGHTS
- LIQUIDATED DAMAGES NOT DUE TO OUR OPERATION. THIS INCLUDES DAMAGES FOR LATE OPENINGS. TRAINING & FEES
- SAFETY TRAINING, TWIC, BADGING COST, SANDBLASTING, STRIPING REMOVALS, AS BUILDS, EXCLUDES ANYTHING NOT LISTED AS INCLUDED

**ACCEPTED:**

The above prices, specifications and conditions are satisfactory and are hereby accepted.

**Buyer:** \_\_\_\_\_

**Signature:** \_\_\_\_\_

**Date of Acceptance:** \_\_\_\_\_

**CONFIRMED:**

**Hardy & Harper, Inc.**

**Authorized Signature:** \_\_\_\_\_

**Estimator:** Tanner Hambright

714.412.1335 thambright@hardyandharper.com

24" BFV



FERGUSON WATERWORKS #1088  
 1502 COLUMBIA AVE  
 RIVERSIDE, CA 92507-2014

Phone: 951-674-1323  
 Fax: 951-674-1084

Deliver To:

From: Nick Grantham

Comments:

3.2.a

15:54:54 SEP 22 2023

FERGUSON WATERWORKS #1083  
 Order Confirmation  
 Phone: 951-674-1323  
 Fax: 951-674-1084

Order No: 0836260  
 Order Date: 09/12/23  
 Writer: XNG

Req Date: 11/12/23

Ship Via:  
 Terms: NET 10TH PROX

Sold To: PCL CONSTRUCTION INC  
 1711 WEST GREENTREE DR STE  
 5403269 - WVWD ROEMER WFF  
 SHOP  
 TEMPE, AZ 85284

Ship To: PCL CONSTRUCTION INC  
 3010 N CEDAR AVE  
 ATTN: JACOB (562) 972-9739  
 RIALTO, CA 92377

Cust PO#: BFV RELEASE

Job Name: 5403269 - WVWD ROEMER WFF

Item	Description	Quantity	Net Price	UM	Total
	ADDITIONAL 24" BFV'S ----				
IHGHF24	24 FLG BFV W/EPOX TAG # BFV-UV-24 VF11 TYPE VALVE OPEN/CLOSE EMO OPERATOR AIS COMPLIANT	1	\$12,365.23	EA	\$12,365.23



**HOW ARE WE DOING? WE WANT YOUR FEEDBACK!**

Scan the QR code or use the link below to  
 complete a survey about your orders:

<https://survey.medallia.com/?bidsorder&fc=1083&on=32031>



FERGUSON WATERWORKS #1088  
 1502 COLUMBIA AVE  
 RIVERSIDE, CA 92507-2014

Phone: 951-674-1323  
 Fax: 951-674-1084

Deliver To:

From: James Bryan

Comments:

3.2.a

17:01:24 NOV 17 2023

Page 1 of 1

FERGUSON WATERWORKS #1083

Price Quotation

Phone: 951-674-1323

Fax: 951-674-1084

**Bid No:** B464401  
**Bid Date:** 11/17/23  
**Quoted By:** JPB

**Cust Phone:** 480-829-6333  
**Terms:** NET 10TH PROX

**Customer:** PCL CONSTRUCTION INC  
 1711 WEST GREENTREE DR STE  
 5403269 - WVWD ROEMER WFF  
 SHOP  
 TEMPE, AZ 85284

**Ship To:** PCL CONSTRUCTION INC  
 1711 WEST GREENTREE DR STE  
 5403269 - WVWD ROEMER WFF  
 SHOP  
 TEMPE, AZ 85284

**Cust PO#:** 24" NB&G SET

**Job Name:** 5403269 - WVWD ROEMER WFF

Item	Description	Quantity	Net Price	UM	Total
SP-T24316B8M250#S	24 T316 SS B8M N&B SET	2	675.000	EA	1350.00
EPDMRGA24	24 EPDM 1/8 RNG 150# GSKT	2	191.400	EA	382.80
<b>Net Total:</b>					\$1732.80
<b>Tax:</b>					\$128.23
<b>Freight:</b>					\$0.00
<b>Total:</b>					\$1861.03

Quoted prices are based upon receipt of the total quantity for immediate shipment (48 hours). SHIPMENTS BEYOND 48 HOURS SHALL BE AT THE PRICE IN EFFECT AT TIME OF SHIPMENT UNLESS NOTED OTHERWISE. QUOTES FOR PRODUCTS SHIPPED FOR RESALE ARE NOT FIRM UNLESS NOTED OTHERWISE.

CONTRACTOR CUSTOMERS: IF YOU HAVE DBE/MBE/WBE//VBE/SDVBE/SBE GOOD FAITH EFFORTS DIVERSITY GOALS/ REQUIREMENTS ON A FEDERAL, STATE, LOCAL GOVERNMENT, PRIVATE SECTOR PROJECT, PLEASE CONTACT YOUR BRANCH SALES REPRESENTATIVE IMMEDIATELY PRIOR TO RECEIVING A QUOTE/ORDER.

Seller not responsible for delays, lack of product or increase of pricing due to causes beyond our control, and/or based upon Local, State and Federal laws governing type of products that can be sold or put into commerce. This Quote is offered contingent upon the Buyer's acceptance of Seller's terms and conditions, which are incorporated by reference and found either following this document, or on the web at <https://www.ferguson.com/content/website-info/terms-of-sale>  
 Govt Buyers: All items are open market unless noted otherwise.

LEAD LAW WARNING: It is illegal to install products that are not "lead free" in accordance with US Federal or other applicable law in potable water systems anticipated for human consumption. Products with \*NP in the description are NOT lead free and can only be installed in non-potable applications. Buyer is solely responsible for product selection.  
 WATER FLOW RATE NOTICE: Lavatory Faucets with flow rates over 0.5 GPM are not allowed for 'public use' in California.



**HOW ARE WE DOING? WE WANT YOUR FEEDBACK!**

Scan the QR code or use the link below to complete a survey about your bids:

<https://survey.medallia.com/?bidsorder&fc=1083&on=32031>

Packet Pg. 102

# Welding

**Scott Ferrier**

---

**From:** Lisa Dayton <lisa@daytoncertifiedwelding.com>  
**Sent:** Tuesday, November 14, 2023 11:30 AM  
**To:** Huy Pham  
**Cc:** Scott Ferrier  
**Subject:** RE: Dayton Roemer invoices

Hi Huy,

Yes sure regular hourly rate : 150.00 and overtime (time&half ) : 207.00 Double time 220.00 .  
Travel rate : 145.00 per a day.

Thank you,  
Lisa Dayton

\$145 - Travel  
\$150/HR @ 6 HRS = \$900  
  
Total = \$1045

Lisa Dayton  
Dayton Certified Welding  
Tel: 951-699-9962  
[daytoncertifiedwelding.com](http://daytoncertifiedwelding.com)

---

**From:** [Huy Pham](#)  
**Sent:** Tuesday, November 14, 2023 11:11 AM  
**To:** [Lisa Dayton](#)  
**Cc:** [Scott Ferrier](#)  
**Subject:** RE: Dayton Roemer invoices

Hi Lisa,

I tried to reach you by phone several times but couldn't get through. As we're all aware of, the hourly rate was raised from \$147 to \$150. Could you also confirm rates for all different types of pipes listed in the subcontract below?

Dayton Cetified Welding Pricing				
Description	Regular Time Cost (\$)	Overtime Cost (\$)	Double Time (\$)	Min. Hours/Day
Stainless Steel Pipe	157	200	220	6
Stainless Steel Structural	154			
Carbon Steel Pipe	147	185		
Carbon Steel Structural	145			
Travel Rate/Day		145		

Thank you,

---

**From:** Lisa Dayton <lisa@daytoncertifiedwelding.com>  
**Sent:** Friday, November 3, 2023 9:51 AM  
**To:** Kevin Goetz <KGoetz@pcl.com>; Huy Pham <hpham@pcl.com>  
**Cc:** Scott Ferrier <SRFerrier@pcl.com>; Kevin Harlow <ktharlow@pcl.com>  
**Subject:** RE: Dayton Roemer invoices

You don't often get email from [lisa@daytoncertifiedwelding.com](mailto:lisa@daytoncertifiedwelding.com). [Learn why this is important](#)



# Potholing

## Potholing Services



**Proposal for Air/Vacuum Excavation services -  
For:**

***PCL Construction, Inc.***

**Potholing Rates – Rialto, CA**

*Client Information*

Scott Ferrier

SRFerrier@PCL.com

O: 562.317.0026

M: 480.901.7124

3750 Schaufele Ave Ste. 270  
Long Beach, CA  
90808

*Ultra Information*

JT West

JT@DigWithAir.com

O: 951.223.3552

M: 619.971.5235

36806 Pebley Ct  
Winchester, CA  
92596

February 3<sup>rd</sup>, 2023

***ULTRA ENGINEERING CONTRACTORS, INC.***

License #971768  
DIR#1000012104

WBE  
Local #1184



# Proposal for Air/Vacuum Excavation services

## Air/Vacuuming Excavation

Ultra Engineering Contractors, Inc. will provide air/vacuum excavation services to perform ≈9 potholes to expose existing utilities/clear holes to specified dimensions in Rialto per request (a *pothole is typically defined as a 1'x1' hole cleared to a depth of 6', these holes will be cleared 1' further than anticipated depth before being deemed a "dry hole"*).

## Work Provided

Ultra Engineering Contractors, Inc. will –

- Set up protective barriers to shield pedestrians and traffic from flying debris (if necessary).
- Saw cut/remove asphalt and document it's depth (where applicable).
- Use our Air/Vacuum Systems to remove dirt, rocks, sand or other to expose utility/clear to requested dimensions.
- Locate positive horizontal depth, size, and material of utility (if applicable).
- Document all utilities located with spray paint on the concrete/asphalt as well as in writing and photographs in our logbooks (if applicable).
- Replace and compact dirt over utility. Compact in 1' lifts, to achieve approximately 90% compaction.
- Finish hole with Cold Patch (where applicable).
- Sweep and clean entire work area.
- Provide detailed logs and photographs of each pothole.

## Time Frame

Estimated time to complete a pothole is 45-60 minutes for our Standard Rig (Approximately 4-6 Potholes Per Day Estimated Using Our Standard Rig). Many factors can affect this estimate such as depth of utilities, density of soil, time allowed in work area, tree roots, moisture content of soil, distance to spoils dump area, accuracy of markouts/layout, etc. Ultra Engineering Contractors, Inc. will do its best to complete the work within this time frame, but will not guarantee or be penalized for not completing the work within this period.

## Excluded from Daily Rates (available at additional charges)

Ultra Engineering Contractors, Inc. does not include with this proposal-

- Hot Patch/concrete panel repair.
- Lay-out of locations to be potholed.
- Traffic Control/Traffic Control Plans.
- Dig Alert markouts/meetings.
- Permits/Deposits/Fees of any kind.
- Night/Weekend/Holiday/Overtime work.
- Excavation beyond rock bed or water table.
- Professional Locating/Survey services.
- "Pay when paid" terms or Retention without prior approval by *Ultra*.
- Backfilling with anything other than native spoils (I.E. Slurry, Gravel, etc.)
- Transport/disposal of spoils off site.
- Removal of paint marks.
- Additional Insurance, Endorsements, or Bonds beyond what *Ultra* currently has in place.
- Projects with a PLA (without prior approval).
- Participation in any OCIP/CSIP/WRAP without prior approval from Ultra Engineering.
- Projects with Skilled/Trained Workforce requirements *must* be approved by *Ultra* prior.
- Contracts beyond our *Request For Service* form for all work completed under \$10,000.
- Billing packages that require a fee in order to be paid (I.E. *Textura, G.C. Pay, Etc.*).

## Potholing Cost

(Prevailing Wage Rates: Rialto, CA)

Ultra Engineering Contractors, Inc. will provide the services outlined in this proposal for –

**\$3,370 Per Day (Potholing Rig)**

**Includes Two Technicians, Equipment, Excavation, Documentation, and Travel.**

*(Includes 8-hours of on-site work per day)*

**Estimated Project Length – 2 Days**

**Estimated Project Total – \$6,740**



# Grout for Joints

# Estimate

Estimate #: EST24024

Date Issued: 10/18/2023

Expires: 11/17/2023



**SUNSHINE**  
SUPPLY COMPANY  
INCORPORATED  
WWW.SUNSHINESUPPLY.COM

**Billing Address:**

Dustin Lao  
PCL Construction Services, Inc.  
655 N CENTRAL AVE  
STE 1600  
Glendale CA 91203  
United States

**Shipping Address:**

PCL CONSTRUCTION SERVICES  
INC - LOS ANGELES  
3010 N. Cedar Ave  
Rialto CA 92377  
United States

**TOTAL**  
**\$416.74**

Contact	Expires	Terms	Job Name	Sales Rep	Shipping Method
Erick Saucedo	11/17/2023	Net 30	TBD	Loya, Joseph A	Priority1

Item Code	Item Comment	Quantity	Rate	Amount
<b>AQMORTARLN.50B*NA</b> Aquafin MORTAR-LN per 50lb. Bag		8	\$38.34	\$306.72
<b>FREIGHT CHARGE</b> Freight Charge		1	\$83.75	\$83.75

Enter through Riverside Ave Gate! Please call Kevin Harlow @ (909) 827-7506 upon delivery

2 bags @ \$38.34/bag = \$76.68  
No freight

**Pricing includes all applicable manufacturer surcharges.** Disclaimer of Material Calculators/Tools and Estimates. Buyer acknowledges that (a) there are uncertainties inherent in making such material estimates, and that Buyer is familiar with such uncertainties, product coverage rates, product installation, and (b) Buyer is taking full responsibility for conducting its own evaluation of the adequacy and accuracy of such estimates (c) Buyer shall have no Claim against Seller with respect to the accuracy of such estimates. Accordingly, the Selling Parties make no representation or warranty with respect to such estimates (including such underlying assumptions). The sole responsibility for all quantities ordered will be on the buyer.

<b>Subtotal</b>	\$390.47
<b>Discount Total</b>	
<b>Shipping Cost</b>	\$2.50
Tax Total	\$23.77
<b>Total</b>	<b>\$416.74</b>

<b>ANAHEIM</b> (866) 379-7100	<b>BURBANK</b> (866) 256-3699	<b>DENVER</b> (800) 361-5504	<b>ONTARIO</b> (866) 215-3820	<b>SALT LAKE</b> (866) 952-9100	<b>SAN DIEGO</b> (800) 400-7442	<b>SAN MARCOS</b> (760) 471-9008
----------------------------------	----------------------------------	---------------------------------	----------------------------------	------------------------------------	------------------------------------	-------------------------------------

<b>TRUCKS, OFF-HIGHWAY</b>	<b>[ TRUOF ]</b>
----------------------------	------------------

**DELAY FACTOR = 0.20**                      **OVERTIME FACTOR = 0.80**

Includes all attachments and accessories. Includes end dump, belly dump and earthmover types. Listed in accordance with Mfr's rated capacity in tonnes (tons). In the case of earthmover types, rated by Mfr's volumetric capacity, a factor of 1.4 tonnes per cubic meter (1-1/2 tons per cubic yard) of struck capacity shall be used.

<b>TRUCK OFF-HIGHWAY</b>	<b>[ TRU ]</b>
--------------------------	----------------

<u>OVER</u>	<u>TO</u>	<u>Code</u>	<u>Rate</u>
9.1 (10)	13.6 (15)	<b>10-15</b>	\$64.30
16.3 (18)	20.0 (22)	<b>18-22</b>	\$114.18
20.0 (22)	24.5 (27)	<b>22-27</b>	\$143.03
24.5 (27)	29.0 (32)	<b>27-32</b>	\$163.21
29.0 (32)	36.3 (40)	<b>32-40</b>	\$222.71
36.3 (40)	49.9 (55)	<b>40-55</b>	\$333.03
49.9 (55)	60.8 (67)	<b>55-67</b>	\$373.47

<b>SAWS, CONCRETE AND MASONRY</b>	<b>[ SAWCO ]</b>
-----------------------------------	------------------

**DELAY FACTOR = 0.13**                      **OVERTIME FACTOR = 0.84**

Self powered gas, air or electric powered. Includes water ( but not water truck or trailer), coolant, cutting compounds and all attachments and accessories. Saw blades or abrasive discs shall be paid in accordance with the following sawkerf codes.

<b>SINGLE &amp; MULTI-BLADE</b>	<b>[ ABOP ]</b>
---------------------------------	-----------------

**OPERATION**

Listed in accordance with Mfr's rated kilowatts (horsepower).

<u>OVER</u>	<u>TO</u>	<u>Code</u>	<u>Rate</u>
0	7.5 (10)	<b>0-10</b>	\$4.42
7.5 (10)	14.9 (20)	<b>10-20</b>	\$10.13
14.9 (20)	24.6 (33)	<b>20-33</b>	\$20.14
24.6 (33)	33.6 (45)	<b>33-45</b>	\$23.29
33.6 (45)	48.5 (65)	<b>45-65</b>	\$27.76

ITEM 4



CONSTRUCTION

December 5, 2023

Paul Hermann  
Water Market Leader  
GHD  
320 Goddard Way, Suite 200  
Irvine, CA 92618

Linda Jadeski  
Director of Engineering  
West Valley Water District  
855 W. Base Line P.O. Box 920  
Rialto, CA 92377

Attn: Paul Hermann and Linda Jadeski

**RE: Differing Site Conditions- Filter Building 1 Foundation – Oliver P Roemer Water Filtration Facility Upgrade and Expansion Project – Request for Change**

Mr. Hermann and Ms. Jadeski,

Please accept the attached package as a Change Request due to the cost impacts related to the Filter Building 1 foundation's differing site conditions. Per the email correspondence sent to GHD on 11/7/2023, PCL has identified that the existing Filter Building 1 foundation has at approximately half of its extension, a substantially uneven surface, which would not be expected on a formed concrete foundation. Furthermore, the "1993 Roemer Trident No. 1-3 Original Plant" record drawings show a uniform and congruent formed foundation, which differs from what was discovered in the field at approximately 50% of the extent of the foundation. PCL has submitted an RFI to Stantec, which directed that the uneven surfaces needed to be chipped so that the existing building foundation would not protrude into the footprint of the new Filter Building 2 slab, and to allow the installation of the new expansion joint per S-109 / Detail S-109. In alignment with GHD/West Valley Water District's direction, PCL performed the work associated with this change under a time and material basis, as described below.

Below is a summary of the pricing associated with the saw cutting & additional labor efforts related to FB1 Uneven footing:

**A. Tracked on a Time and Material basis:**

**-Saw Cutting Activities and Support Activities:**

- 1) Execution of Professional Concrete Sawcut Services for the Existing Filter Building 1 Footing performed by Connor Concrete.

**PCL CONSTRUCTION INC.**  
3900 Kilroy Airport Way, Suite 110  
Long Beach, CA 90806  
Telephone: (858) 657-3400 ♦ Website: www.pcl.com





**CONSTRUCTION**

- 2) PCL self-performed work consisted of cleaning the debris associated with the chipping operation.

Sincerely,

A handwritten signature in black ink, appearing to read "K. Goetz", written over a light gray rectangular background.

Kevin Goetz  
Project Manager  
[kgoetz@pcl.com](mailto:kgoetz@pcl.com)

**PCL CONSTRUCTION INC.**  
3900 Kilroy Airport Way, Suite 110  
Long Beach, CA 90806  
Telephone: (858) 657-3400 ♦ Website: [www.pcl.com](http://www.pcl.com)

PCL Construction, Inc.  
3750 Schaufele Ave., Suite 270, Long Beach, CA 90808

# CHANGE ORDER PROPOSAL

PROJECT: Oliver P. Roemer WFF 2021 Expansion  
CRX # 015

PCO # TBD  
DATE: 12/12/23  
ESTIMATOR:

DESCRIPTION:

Unforeseen Filter Building 1 Uneven Footing

**DIRECT ESTIMATE**

LABOR		\$	1,017.36
EQUIPMENT		\$	505.56
MATERIALS		\$	-
SUBCONTRACTOR		\$	16,345.00
<b>SUBTOTAL</b>		<b>\$</b>	<b>17,867.92</b>

**DIRECT MARKUP**

LABOR	25%	\$	254.34
EQUIPMENT	20%	\$	101.11
MATERIALS	15%	\$	-
SUBCONTRACTOR	5%	\$	817.25
<b>SUBTOTAL MARKUP</b>		<b>\$</b>	<b>1,172.70</b>

**SUBTOTAL WITH DIRECT MARKUP** \$ **19,040.62**

**TOTAL ADDITIONAL WORK \$ 19,040.62**

**GRAND TOTAL THIS CHANGE \$ 19,040.62**











Southern California District  
Council of Laborers



Associated General Contractors of  
California, Inc.

Building Industry Association of  
Southern California, Inc.

Engineering Contractors  
Association, Inc.

Southern California Contractors  
Association, Inc.

Joint Apprenticeship Committee of  
Laborers Training and Retraining Trust  
Fund for Southern California

November 28, 2023

Manny Juncos, Payroll Department  
PCL CONSTRUCTION SERVICES, INC.  
655 N. Central Ave  
Suite 1600  
Glendale, CA 91203

CC: MARCO A Merancio Ruiz  
1609 N WATERMAN AVE  
SAN BERNARDINO, CA 92404  
Laborers Local 0783

Re: Laborer Apprentice Upgrade

Dear Manny,

Our office has verified that laborer apprentice MARCO A Merancio Ruiz, S.S.# ending with 6134 has performed the required amount of OJT (On the Job Training) as well as RSI (Related Supplemental Instruction) and is now eligible to advance to the level of a period 2 apprentice.

Please upgrade Mr./Ms. Merancio Ruiz to a period 2 apprentice (see wage chart below) effective Monday, 11/06/2023.

Apprentices shall be paid not less than the following percentages of the current Journeymen rate, which is \$44.38 per hour effective July 1, 2023.

Apprentice Period	%	Hourly Rate
1	50%	\$22.19
2	55%	\$24.41
3	60%	\$26.63
4	70%	\$31.07
5	80%	\$35.50
6	85%	\$37.72

If you should have any questions, please contact our office at (626) 610-1700

Cordially,  
Laborers Apprenticeship

Employer Fax Number  
(818) 247-5775



# Invoice



951-525-3281  
6005 Tyler St

Date	Invoice #
11/21/2023	26138

Bill To
PCL Construction Services, Inc. 655 N. Central Ave, Suite 1600 Glendale, CA 91203

P.O. Number	Terms	Ticket:	Project	Due Date
03269025		multiple attached	Oliver P. Roemer Water - 03269025-OS	11/21/2023

Quantity	Description	Price Each	Amount
8	2-Man Compressor w/ Air Tools Job Ticket 81-28730 (Ramon & Alfred)	265.00	2,120.00
8	Laborer Only (Rick)	132.50	1,060.00
1	Flat Rate Travel - Inland Empire	250.00	250.00
8	Handsaw/Ringsaw- Up to 5" Job Ticket 81-28961	190.00	1,520.00
1	Flat Rate Travel - Inland Empire	250.00	250.00
8	Handsaw/Ringsaw- Up to 5" Job Ticket 81-29055	190.00	1,520.00
1	Flat Rate Travel - Inland Empire	250.00	250.00
8	Handsaw/Ringsaw- Up to 5" Job Ticket 81-29056	190.00	1,520.00
1	Flat Rate Travel - Inland Empire	250.00	250.00
8	2-Man Compressor w/ Air Tools Job Ticket 81-28729 (Ramon & Alfred)	265.00	2,120.00
8	Laborer Only (Rick)	132.50	1,060.00
1	Flat Rate Travel - Inland Empire	250.00	250.00
4	Handsaw/Ringsaw- Up to 5" Job Ticket 81-29057	190.00	760.00
1	Flat Rate Travel - Inland Empire	250.00	250.00
5.5	2-Man Compressor w/ Air Tools Job Ticket 81-26204 (Ramon & Rick)	265.00	1,457.50
5.5	Laborer Only (Jacob)	132.50	728.75
5.5	Laborer Only (Alfred)	132.50	728.75
1	Flat Rate Travel - Inland Empire	250.00	250.00
<b>Total</b>			\$16,345.00

## REQUEST FOR INFORMATION (RFI)

[Submitted: 11/7/2023 by Edy Ortega, PCL CONSTRUCTION, INC. Rev #0]

PCL has identified a differing site condition while excavating for the new Filter Building 2. The existing Filter Building 1 foundation presents a approximately half of its extension a substantial uneven surface, which would not be expected on a formed concrete foundation. Furthermore, the "1993 Roemer Trident No. 1-3 Original Plant" record drawings show a uniform and congruent formed foundation, which defers from what was discovered in the field at approximately 50% of the extent of the foundation. Due to the differing site conditions:

1. The existing building foundation protrudes into the footprint of the new Filter Building 2 slab.
2. The new expansion joint per S-109 / detail S-109 cannot be constructed at the uneven sections.

Please see the attached RFI-00059.pdf with additional information. Please provide guidance on how to proceed.

---

## REQUEST FOR INFORMATION (RFI) RESPONSE

As we discussed, it is acceptable to saw cut the uneven existing footing edge to level flush the formed footing edge. Please stop cutting if any existing rebar occurs.

Simon Lin (STANTEC), 11/8/23



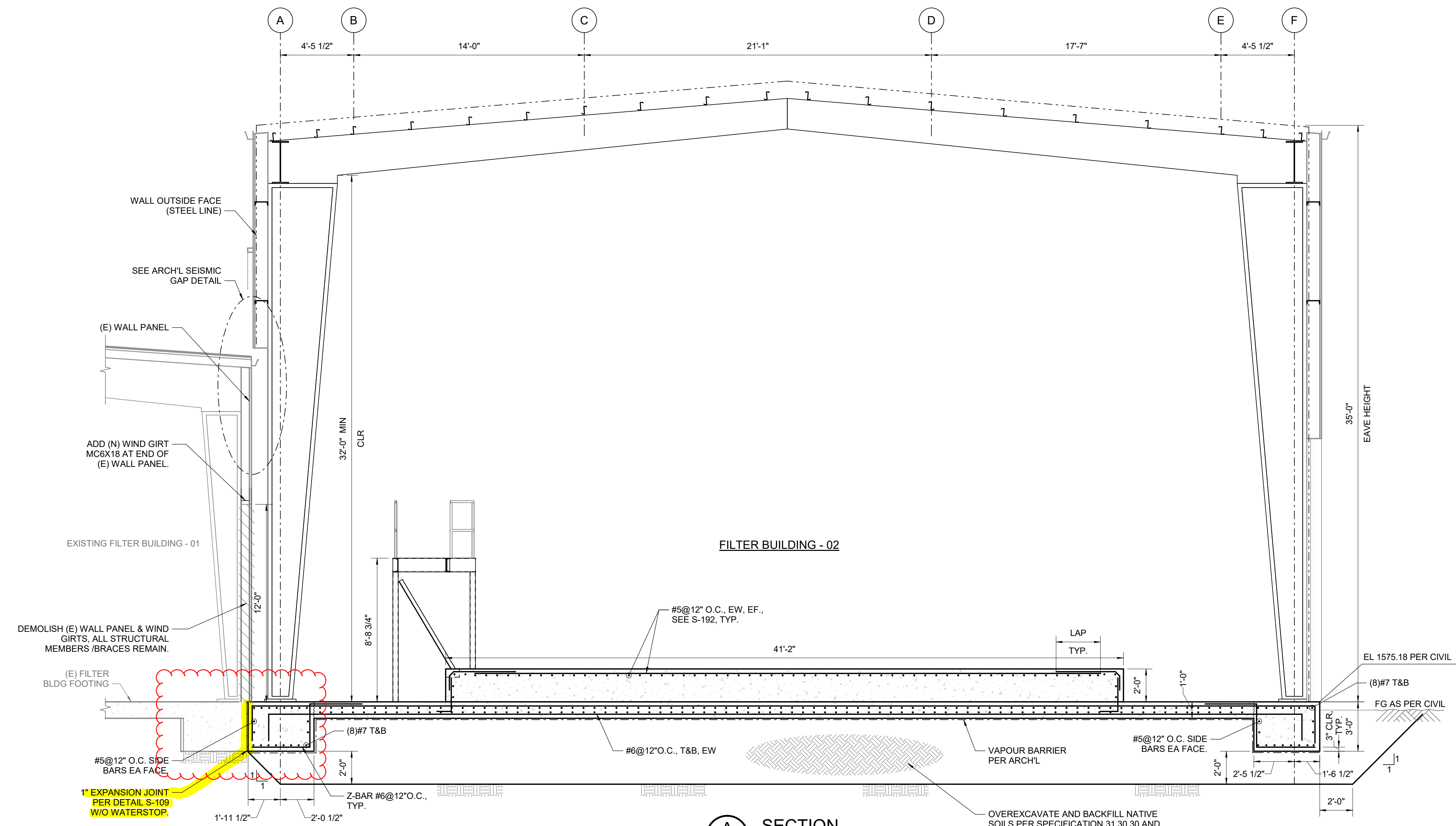




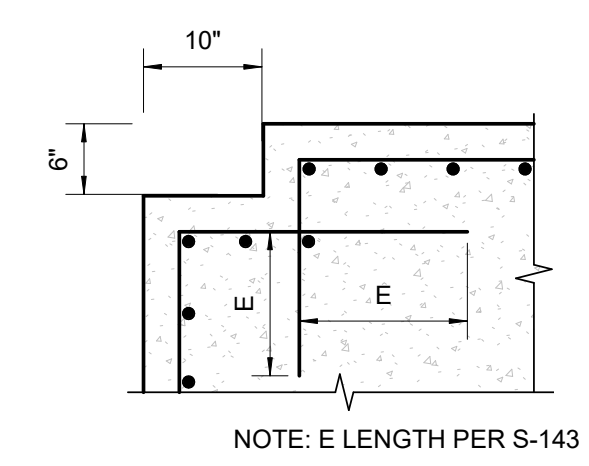


GENERAL SHEET NOTES

1. SEE DRAWINGS S-201 FOR NOTES.



**A SECTION**  
S-201  
SCALE: 1/4" = 1'-0"



**D CONCRETE KNOCKOUT SECTION DETAIL**  
S-201  
SCALE: 3/4" = 1'-0"



Stantec  
3301 C Street, Suite 1900  
Sacramento, California 95816  
Tel: +1 916.806.6343  
www.stantec.com  
Drawing: any error or omission shall be reported to Stantec within 30 days of the date of issue. Stantec shall not be responsible for errors or omissions in this drawing.

Consultant

Revision	By	App'd	YYYY.MM.DD

	By	App'd	YYYY.MM.DD

Permit/Seal

Client/Project  
West Valley Water District

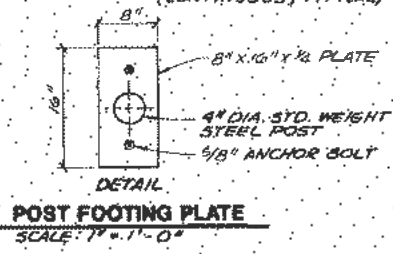
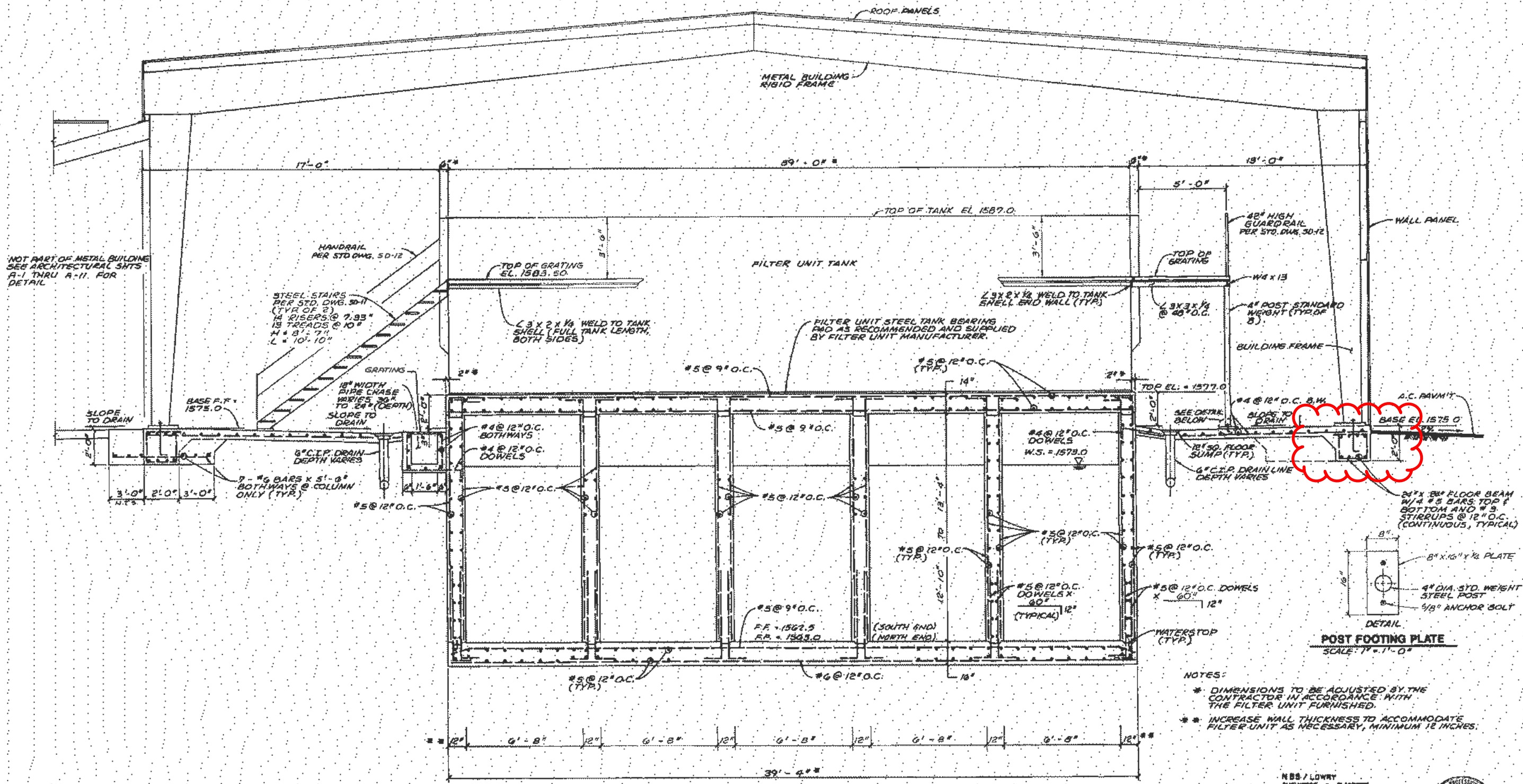
Roemer WFF Expansion Project  
Rialto, California

Project No.: 184031687  
File Name: N/A  
Scale: As indicated  
Dwn. Dsgn. Chkd. 2023.09.20  
YYYY.MM.DD

Title  
FILTRATION BUILDING SECTION

Revision: Sheet: 123 of 362  
Drawing No.

**S-204**



- NOTES:
- \* DIMENSIONS TO BE ADJUSTED BY THE CONTRACTOR IN ACCORDANCE WITH THE FILTER UNIT FURNISHED.
  - \*\* INCREASE WALL THICKNESS TO ACCOMMODATE FILTER UNIT AS NECESSARY, MINIMUM 12 INCHES.

SECTION  
SCALE: 3/8" = 1'-0"

NBS / LOWRY  
ENGINEERS & PLANNERS  
**RECORD DRAWINGS**  
Information Obtained From:  
Owner's Records  
NBS/L Records  
Contractor's Records  
Date: 8-15-95



Lowry & Associates

Construction contractor agrees that in accordance with generally accepted construction practices, construction contractor will be required to assume sole and complete responsibility for job site conditions during the course of construction of the project, including safety of all persons and property, that this requirement shall be made to apply retroactively, and not be limited to normal working hours, and construction contractor further agrees to defend, indemnify and hold design professional harmless from any and all liability, civil or alleged, in connection with the performance of work on this project, excepting liability arising from the negligence of design professional.

UNDERGROUND SERVICE ALERT!  
CALL: TOLL FREE  
1-800-4-A-SHIELD  
4-27-31

Revision	by	date	approved

DESIGNED: LT/LS  
CHECKED: LT  
DATE: 10-6-99  
DRAWN: CS  
FILE NO: 54106077  
SCALE: AS SHOWN

NBS / LOWRY  
ENGINEERS & PLANNERS  
774) 885-1401  
184 W. Hospitality Lane • Suite 1 • P.O. Box 8124 • San Bernardino, CA 92412-8124

WEST SAN BERNARDINO COUNTY WATER DISTRICT  
LOWER LEVEL CHLORINE WATER RETENTION AND TREATMENT FACILITIES  
FILTER AND CHLORINE CO  
SECTION  
Packet Pg. 128



**Edy Ortega**

---

**From:** Kevin Goetz  
**Sent:** Tuesday, November 7, 2023 3:11 PM  
**To:** Sam Jung  
**Cc:** Paul Hermann; Shamia Salih  
**Subject:** Differing Site Conditions - FB1 Foundation  
**Attachments:** FB1 Existing Footing Findings.pdf

Sam,

As discussed today, PCL has identified a differing site condition while excavating for the new Filter Building 2. The existing Filter Building 1 foundation has, at approximately half of its extension, a substantially uneven surface, which would not be expected on a formed concrete foundation. Furthermore, the "1993 Roemer Trident No. 1-3 Original Plant" record drawings show a uniform and congruent formed foundation, which differs from what was discovered in the field at approximately 50% of the extent of the foundation. You can see that the uneven surfaces result from the 1993 project. The 2006 project slab has an even surface, as we would expect. Please see the attached pictures of the existing conditions.

Essentially, due to the differing site conditions:

1. The existing building foundation protrudes into the footprint of the new Filter building 2 slab
2. The new expansion joint per S-109/detail S-109 cannot be constructed at the uneven sections

We asked Stantec to provide guidance on how to proceed. Once we determine the direction on this, PCL will track all time and costs associated with this unforeseen condition through T&M tickets and present them to you for review.

Thanks,

**Kevin Goetz, PMP, MBA**  
Project Manager

**PCL Construction, Inc.**  
3900 Kilroy Airport Way, Ste 110  
Long Beach, CA 90806  
T: 213-358-5206  
[kgoetz@pcl.com](mailto:kgoetz@pcl.com)

[www.pcl.com](http://www.pcl.com)  
**TOGETHER WE BUILD SUCCESS**

## Edy Ortega

---

**From:** Sam Jung  
**Sent:** Friday, November 17, 2023 12:13 PM  
**To:** Kevin Goetz  
**Cc:** Kevin Harlow; Edy Ortega  
**Subject:** RE: FB1 Existing Footing Finding RFI Response

Looks like the district has agreed to a cap of 40K for now so we can get started and investigate as we go.

We will need to be tracking T&M throughout the process.

Let me know what your schedule for starting this activity is. Thanks

---

### SAMUEL JUNG

MPM, EIT  
 Engineer

*Chicago office has a new address! See below. Please update your contact information.*

#### GHD

Proudly employee-owned | [ghd.com](https://ghd.com)

6300 N. River Road, Suite 302, Rosemont, IL 60018 USA

D +1 773-380-9252 M +1 847-912-6800 E [samuel.jung@ghd.com](mailto:samuel.jung@ghd.com)

#### → The Power of Commitment

Connect



Please consider the environment before printing this email

---

**From:** Kevin Goetz <KGoetz@pcl.com>  
**Sent:** Monday, November 13, 2023 6:42 PM  
**To:** Sam Jung <samuel.jung@ghd.com>  
**Cc:** Kevin Harlow <ktharlow@pcl.com>; Edy Ortega <EdyOrtega@pcl.com>  
**Subject:** RE: FB1 Existing Footing Finding RFI Response

Sam,

Let us know what the District says tomorrow after your walk with Shah. As discussed today, we would like to jump into this work right away, so we can avoid this being dragged to the critical path of the project. What I've done in similar cases in the past, is the Owner can issue an FCO (Field Change Order) with a NTE (Not to Exceed) amount. Once we get to 75% of the amount, we would provide an estimate of the remainder of the work (if it is not completed yet). This could be an option if the District would like to proceed that way.

Let me know.

Thanks,

**Kevin Goetz, PMP, MBA**  
Project Manager

**PCL Construction, Inc.**  
3900 Kilroy Airport Way, Ste 110  
Long Beach, CA 90806  
T: 213-358-5206  
[kgoetz@pcl.com](mailto:kgoetz@pcl.com)

[www.pcl.com](http://www.pcl.com)  
**TOGETHER WE BUILD SUCCESS**

---

**From:** Edy Ortega <[EdyOrtega@pcl.com](mailto:EdyOrtega@pcl.com)>  
**Sent:** Monday, November 13, 2023 4:57 PM  
**To:** Sam Jung <[samuel.jung@ghd.com](mailto:samuel.jung@ghd.com)>  
**Cc:** Kevin Goetz <[KGoetz@pcl.com](mailto:KGoetz@pcl.com)>  
**Subject:** FB1 Existing Footing Finding RFI Response

Sam,

Please see attached RFI Response pertaining to FB1 Existing Footing.

Thanks,

**Edy Ortega**  
Project Engineer

**PCL Construction Inc.**  
3900 Kilroy Airport Way, Ste 110  
Long Beach, CA 90806  
M: (562) 681-2821  
[edyortega@pcl.com](mailto:edyortega@pcl.com)

[www.pcl.com](http://www.pcl.com)  
**TOGETHER WE BUILD SUCCESS**

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# WORK COMPLETED



ITEM 5



**CONSTRUCTION**

Date: December 21, 2023

Paul Hermann  
Water Market Leader  
GHD  
320 Goddard Way Suite 200  
Irvine, CA 92618

Linda Jadeski  
Director of Engineering  
West Valley Water District  
855 W. Baseline P.O. Box 920  
Rialto, CA 92377

Attn : Paul Hermann and Linda Jadeski

**Subject:** Additional 8" Gate Valve Replacements – Oliver P. Roemer Water Filtration Facility Upgrade and Expansion Project

Mr. Hermann and Mrs. Jadeski,

Please accept the attached package as a Change Order Request to West Valley Water District for the material and labor costs associated with replacing the additional four 8" Gate Valves supplied for the Oliver P Roemer Water Filtration Upgrades and Expansion Project. Based on field examination/testing performed by WVWD operators, it was found that the existing gate valves are not properly working for isolation, which is a differing site condition, since replacement of the aforementioned valves were not part of the project's original scope.

Sincerely,

A handwritten signature in black ink, appearing to read "K. Goetz", with a stylized flourish at the end.

Kevin Goetz  
Project Manager  
[kgoetz@pcl.com](mailto:kgoetz@pcl.com)

**PCL CONSTRUCTION INC.**  
3900 Kilroy Airport Way, Suite 110  
Long Beach, CA 90806  
Telephone: (858) 657-3400 ▪ Website: [www.pcl.com](http://www.pcl.com)

PCL Construction, Inc.  
3900 Kilroy Airport Way, Ste 110 Long Beach, CA 90806

# CHANGE ORDER PROPOSAL

PROJECT: Oliver P. Roemer WFF 2021 Expansion

CRX # 017

PCO # TBD  
DATE: 1/5/24  
ESTIMATOR:

DESCRIPTION:

Additional Gate Valves Installation for Filters 1-4

**DIRECT ESTIMATE**

LABOR		\$2,990.88
EQUIPMENT		\$78.87
MATERIALS		\$8,120.98
SUBCONTRACTOR		\$ -
<b>SUBTOTAL</b>		<b>\$ 11,190.73</b>

**DIRECT MARKUP**

LABOR	25%	\$ 748
EQUIPMENT	20%	\$ 16
MATERIALS	15%	\$ 1,218
SUBCONTRACTOR	5%	\$ -

**SUBTOTAL WITH DIRECT MARKUP** \$ 1,982

**TOTAL ADDITIONAL WORK \$ 1,981.64**

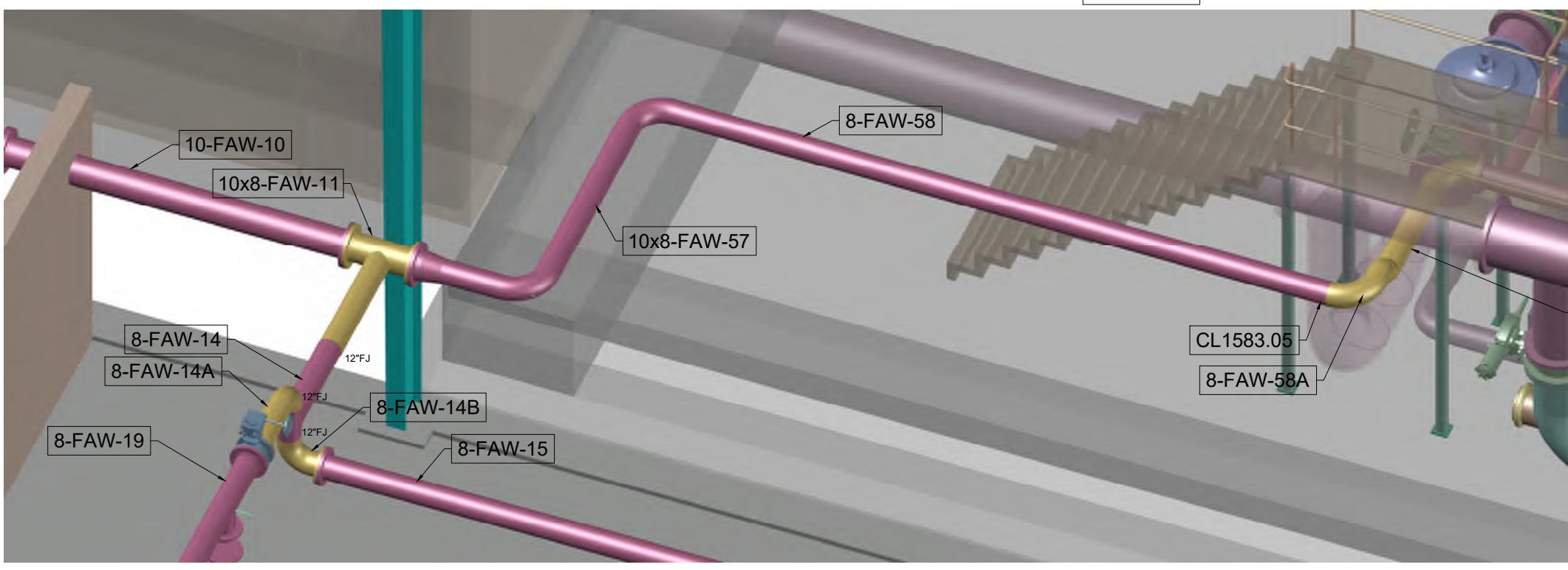
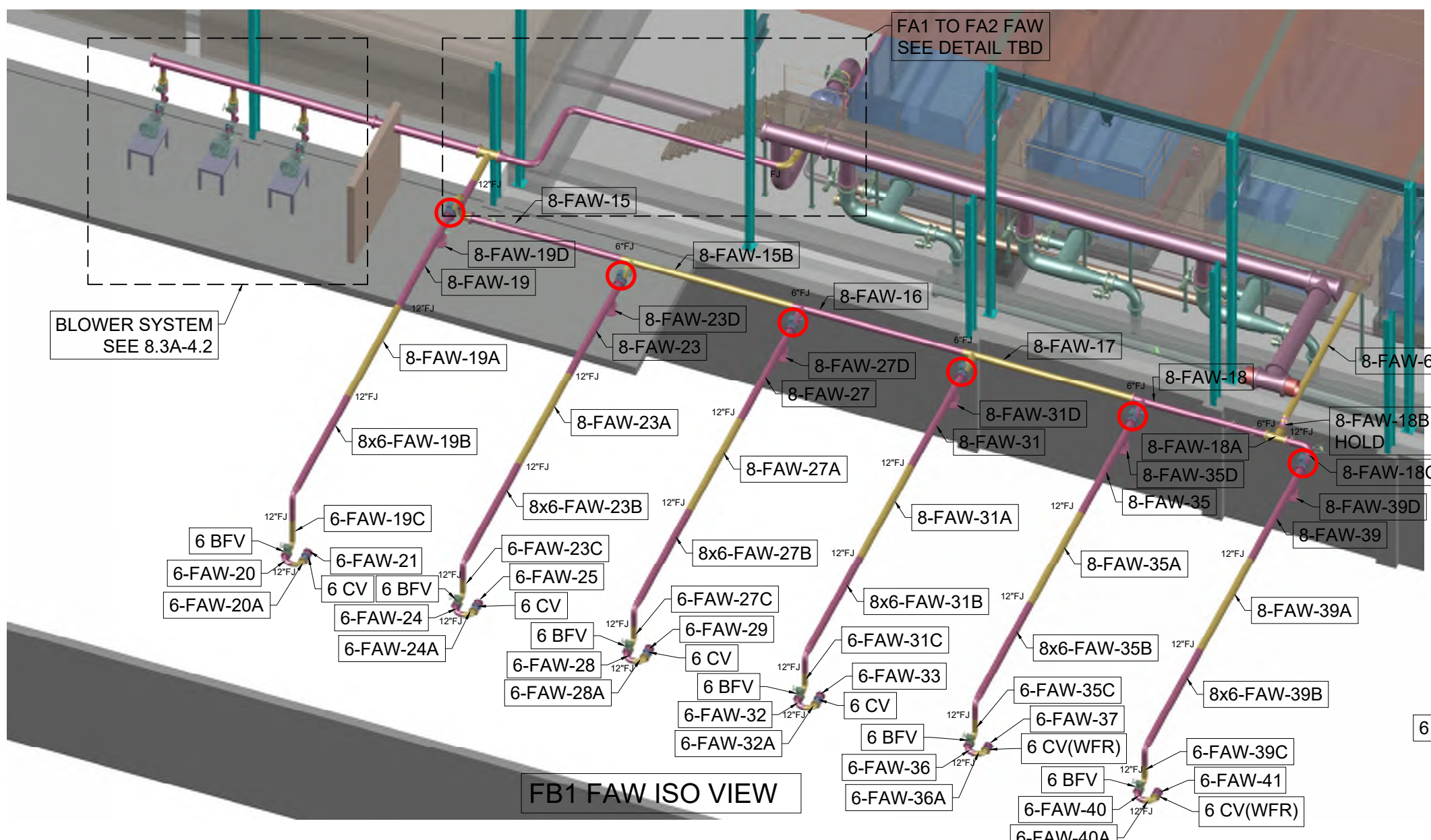
**GRAND TOTAL THIS CHANGE \$ 13,172.37**





NOTES:  
SEE SHEET 8.3A-4.1 FOR LAYOUTS & SECTIONS

EXTRA 6" OF PIPE AT ALL FIELD JOINTS, TYP



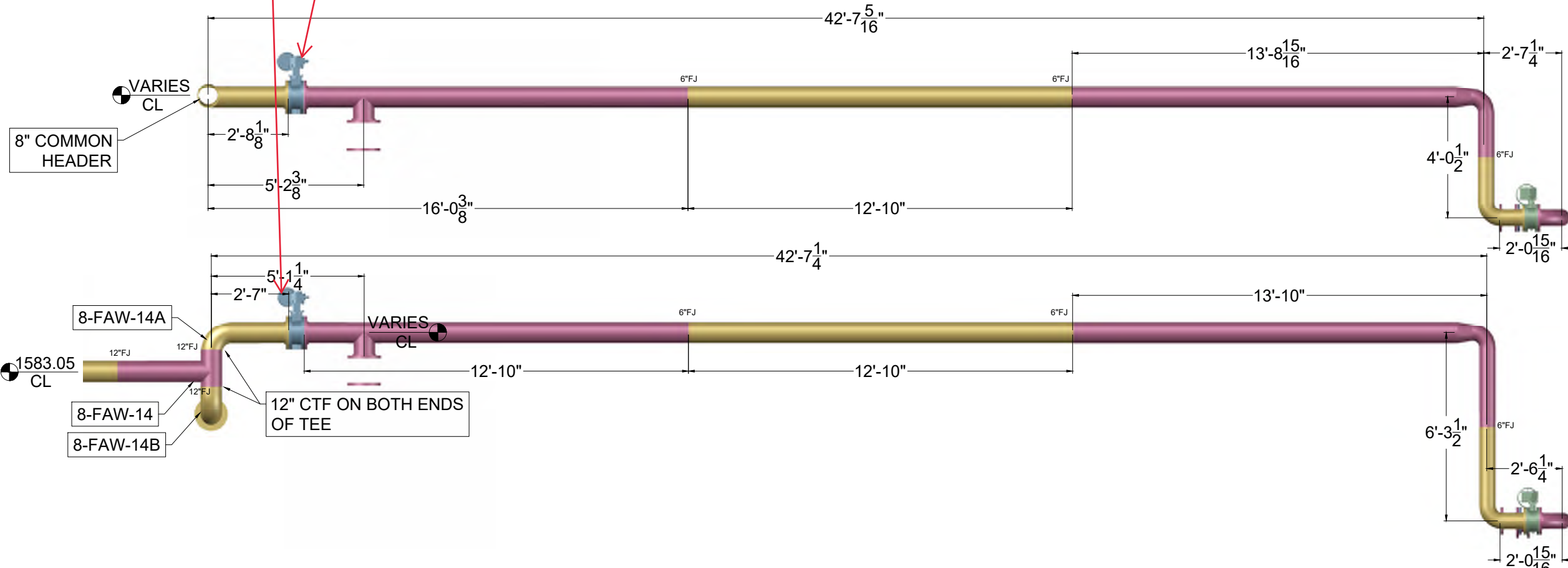
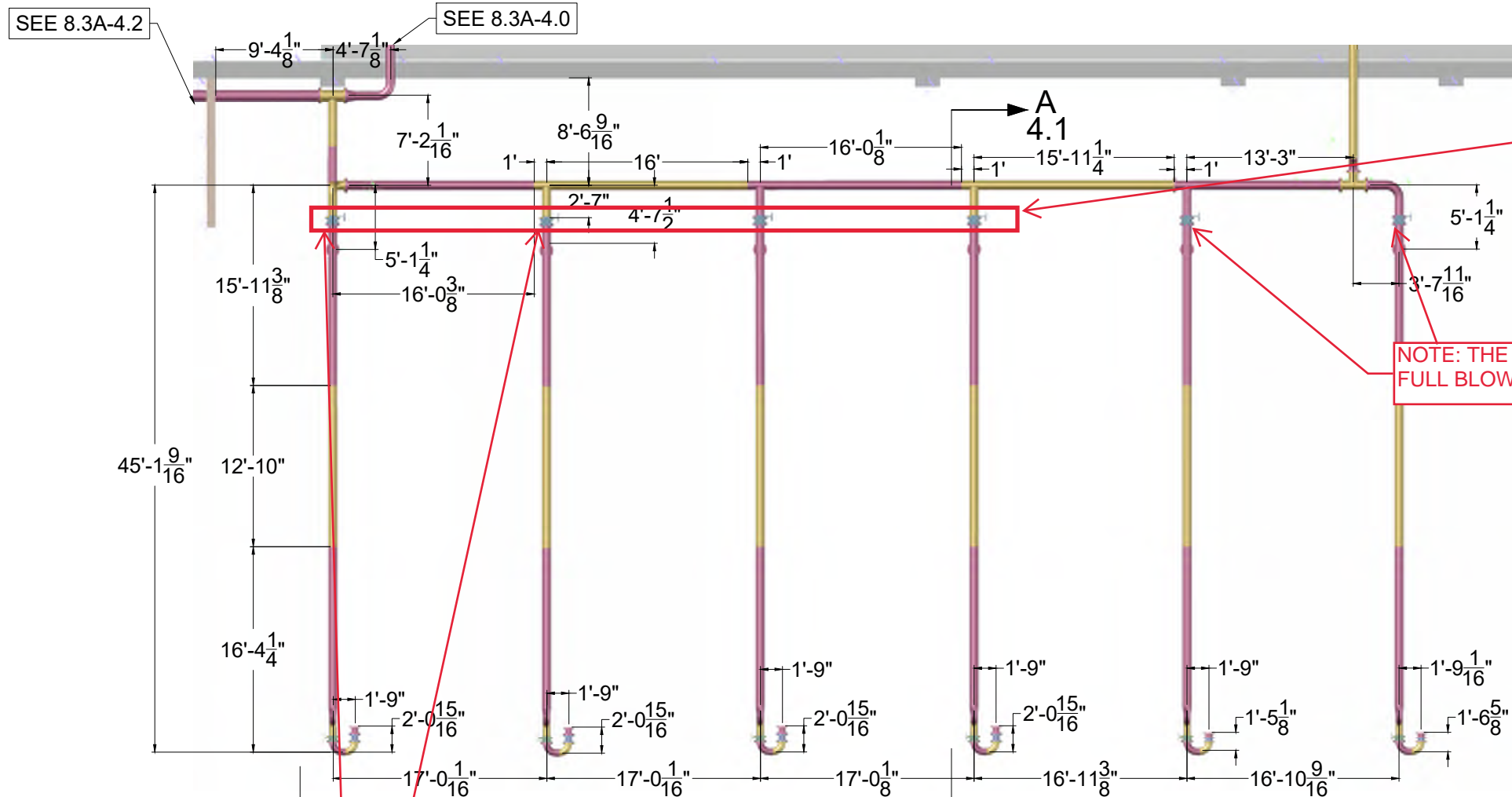
REV	DATE
4	
3	11/16/2023
2	11/3/2023
1	10/16/2023

DRAWING:  
8.3A-4.0  
FB1 FAW OVERALL VIEW

PROJECT NAME:  
PCL

ROEMER WFF  
EXISTING FACILITY FAW  
AIR PIPE SYSTEM





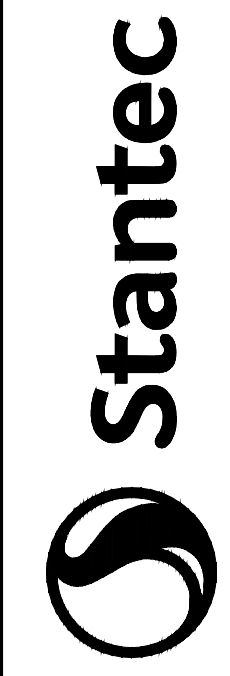
REV	DATE
4	
3	11/16/2023
2	11/3/2023
1	10/16/2023

DRAWING:  
8.3A-4.1  
FB1 FILTERS FAW PLAN & SECTIONS

PROJECT NAME:  
PCL

ROEMER WFF  
NEW FILTER BUILDING



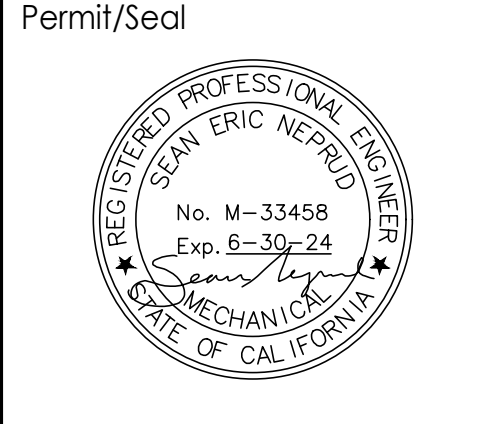


Stantec  
300 North Lake Avenue, Suite 400  
Pasadena, California 91101-1469  
www.stantec.com  
Tel: +1.626.422.0829

Consultant

Revision	By	Date

Permit/Seal	By	Date



Client/Project  
**West Valley Water District**  
Roemer WFF Expansion  
Project  
Rialto, California

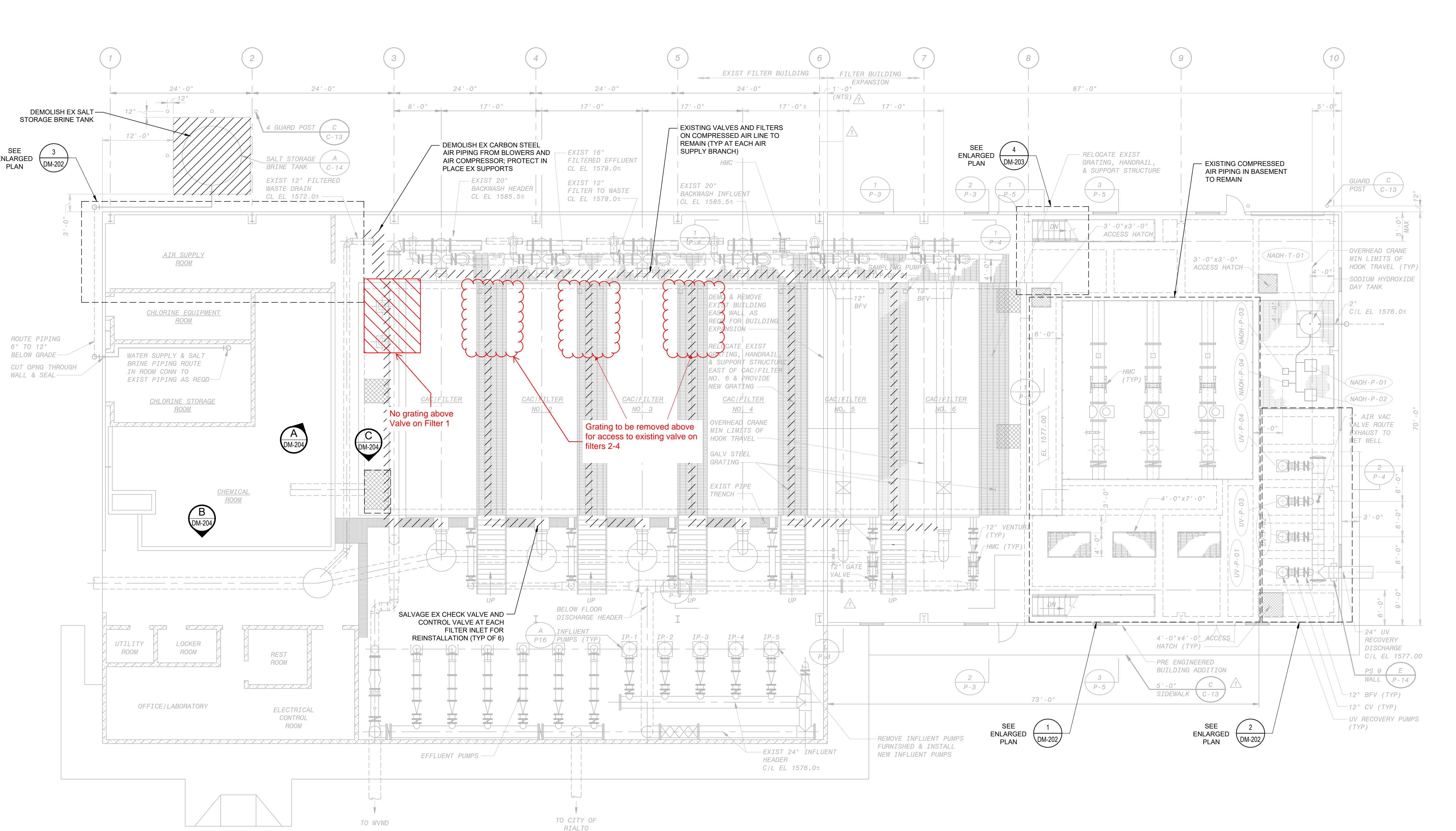
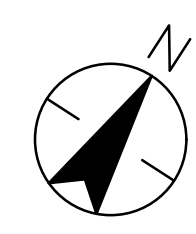
Project No.: 184031687  
File Name: 3168/DM-201  
Scale: NO SCALE

SI	SN	GT	2023.09.20
Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Title  
**FILTER BUILDING  
DEMOLITION PLAN**

Revision: Sheet: 200 of 363  
Drawing No.

**DM-201**



**DEMOLITION PLAN**  
SCALE: NO SCALE

C:\Users\jgarcia\OneDrive\Documents\Projects\3168\3168-201\3168-201.dwg  
2023.09.20 12:02:38 PM  
ORIGINAL SHEET - ANSI D

**From:** curtis.doran@ferguson.com  
**Sent:** Tuesday, December 19, 2023 11:50 AM  
**To:** Jacob Griffith  
**Cc:** James Bryan  
**Subject:** 8 Gate Valves

Hello Jacob,

Please see below your request for 8-inch gate valves. We have these available and will be able to ship within a day.

**Curtis Doran**  
**Sales Project Manager**

**Strategic Infrastructure Group (Plant Division)**  
**Ferguson Waterworks**  
 Orange County California  
 D: (757)-216-0643  
 E: [curtis.doran@ferguson.com](mailto:curtis.doran@ferguson.com)

---

**From:** Ferguson Email System <[MAILER-DAEMON@ferguson.com](mailto:MAILER-DAEMON@ferguson.com)>  
**Sent:** Tuesday, December 19, 2023 11:31 AM  
**To:** Curtis Doran <[curtis.doran@ferguson.com](mailto:curtis.doran@ferguson.com)>  
**Subject:** Email Order# 0021446

### Order Confirmation # 0021446

### FERGUSON WATERWORKS #1082

1315 SANTIAGO STREET  
 SANTA ANA, CA 92701

Phone : 714-547-5797  
 Fax : 714-547-4205

---

<b>Order</b>	<b>0021446</b>	<b>Req</b>	<b>12/24/2</b>	<b>Ship</b>	<b>OUR TRUCK</b>
<b>No...:</b>	<b>12/19/23</b>	<b>Date:</b>	<b>3</b>	<b>Via...:</b>	<b>NET 10TH PROX</b>
<b>Order</b>	<b>XCD</b>			<b>Terms.....</b>	<b>PCL CONSTRUCTION INC</b>
<b>Date:</b>	<b>PCL CONSTRUCTION INC</b>			<b>:</b>	<b>3010 N CEDAR AVE</b>
<b>Writer.....</b>	<b>1711 WEST GREENTREE DR</b>			<b>Ship</b>	<b>5403269 - WVWD ROEMER WFF</b>
<b>...:</b>	<b>STE 201</b>			<b>To...:</b>	<b>EXPA</b>
<b>Sold</b>	<b>5403269 - WVWD ROEMER</b>				<b>.</b>
<b>To.....:</b>	<b>WFF</b>				<b>RIALTO, CA 92377</b>
	<b>SHOP</b>				<b>5403269 - WVWD ROEMER WFF</b>
	<b>TEMPE, AZ 85284</b>				
	<b>8 GATE VLVE</b>			<b>Job</b>	
<b>Cust</b>				<b>Name.:</b>	
<b>PO#..:</b>					

Item	Description	Quantity	Net Price	UM	Total
MA236206E381XOL	8 DI FLG RW OL GATE VLV E381	6	1800.450	EA	10802.70

Subtotal: \$10802.70  
 Inbound Freight: \$0.00  
 Tax: \$837.21  
 Order Total: \$11639.91

$$1800.45 \times 4ea \times 1.0775(\text{tax}) = \$7760.00$$

**WARRANTY PROVISIONS**

The purchaser's sole and exclusive warranty is that provided by the manufacturer, if any. Seller makes no express or implied warranties. SELLER DISCLAIMS ALL EXPRESS OR IMPLIED WARRANTIES, INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS OR FITNESS FOR A PARTICULAR PURPOSE. IN NO EVENT WILL SELLER BE LIABLE FOR ANY INCIDENTAL, PUNITIVE, SPECIAL OR CONSEQUENTIAL DAMAGES ARISING DIRECTLY OR INDIRECTLY FROM THE OPERATION OR USE OF THE PRODUCT. SELLER'S LIABILITY, IF ANY, SHALL BE LIMITED TO THE NET SALES PRICE RECEIVED BY SELLER. Complete Terms and Conditions are available upon request or can be viewed on the web at <https://www.ferguson.com/content/website-info/terms-of-sale>

**LEAD LAW WARNING:** It is illegal to install products that are not "lead free" in accordance with US Federal or other applicable law in potable water systems anticipated for human consumption. Products with \*NP in the description are NOT lead free and can only be installed in non-potable applications. Buyer is solely responsible for product selection.

**WATER FLOW RATE NOTICE:** Lavatory Faucets with flow rates over 0.5 GPM are not allowed for 'public use' in California.

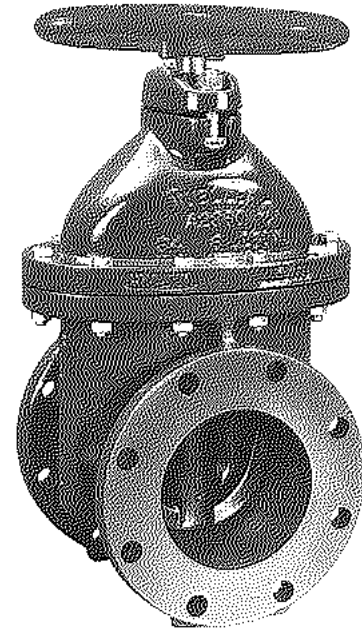
Buyer shall accept delivery of products within 60 days of Seller receiving the products at Seller's warehouse. If Buyer causes or requests a delay in delivery of the products, Buyer may be subject to storage fees and additional costs caused by such delay. Seller reserves the right to requote the products and reschedule the delivery date, subject to manufacturer's lead times and price increases, if Buyer is unable to accept delivery within 60 days.

**HOW ARE WE DOING? WE WANT YOUR FEEDBACK!**  
 Enter the following link to complete a survey about your orders:  
<https://survey.medallia.com/?bidsorder&fc=1084&on=4107>

- Catalog number – A-2362-6 flanged ends
- Sizes – 2", 2-1/2", 3", 4", 6", 8", 10", 12"
- Meets or exceeds all applicable requirements of ANSI/AWWA C509 Standard, UL Listed, FM Approved, and certified to ANSI/NSF 61.†
- Flanged end dimensions and drilling comply with ANSI B16.1, class 125
- Iron body with nominal 10 mils MUELLER® Pro-Gard™ Fusion Epoxy Coated interior and exterior surfaces
- Epoxy coating meets or exceeds all applicable requirements of ANSI/AWWA C550 Standard and is certified to ANSI/NSF 61
- Iron wedge, symmetrical & fully encapsulated with molded rubber; no exposed iron
- Non-rising stem (NRS)
- Triple O-ring seal stuffing box (2 upper & 1 lower O-rings), with fourth O-ring serving as dirt seal††
- Handwheel (2" square wrench nut optional) – open left or ~~open right~~
- 250 psig (1723 kPa) maximum working pressure, 500 psig (3447 kPa) static test pressure
- 2-1/2"-12" sizes – UL Listed, FM Approved: 200 psig (1379 kPa)

† Approved for backflow prevention devices by USC (for 2-1/2" - 10" sizes)

††Dirt seal on 4"-12" valves



A-2362-6

### Options

- Position indicators
- 2" square wrench nut

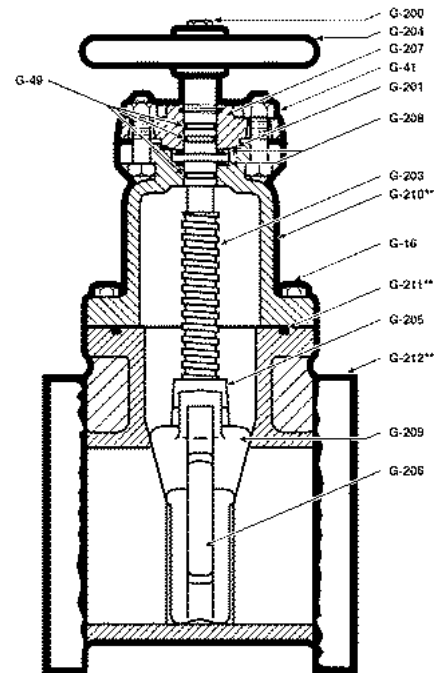
### Resilient wedge gate valve parts

Catalog Part No.	Description	Material	Material standard
G-16	Bonnet Bolts & Nuts	Stainless Steel	Type 316
G-41	Stuffing Box Bolts & Nuts	Stainless Steel	Type 316
G-49	Stem O-rings (3)	EPDM	
G-200	Wrench Nut Cap Screw	Stainless Steel	Type 316
G-201	Stuffing Box Seal	EPDM	
G-202	Wrench Nut	Cast Iron	ASTM A126 CL.B
G-203	Stem	Everdur	ASTM B98
G-204	Hand Wheel (not shown)	Cast Iron	ASTM A126 CL.B
G-205	Stem Nut	Bronze	ASTM B62
G-206	Guide Cap Bearings	Celcon	
G-207	Stuffing Box with dirt seal	Cast iron Rubber	ASTM A126 CL.B --
G-208	Anti-friction Washers (2)	Celcon	
G-209	Wedge, Rubber Encapsulation	Cast Iron* EPDM	ASTM A126 CL.B --
G-210**	Bonnet	Ductile Iron	ASTM A536 Grade 65-45-12
G-211**	Bonnet O-ring	EPDM	
G-212**	Body	Ductile Iron	ASTM A536 Grade 65-45-12

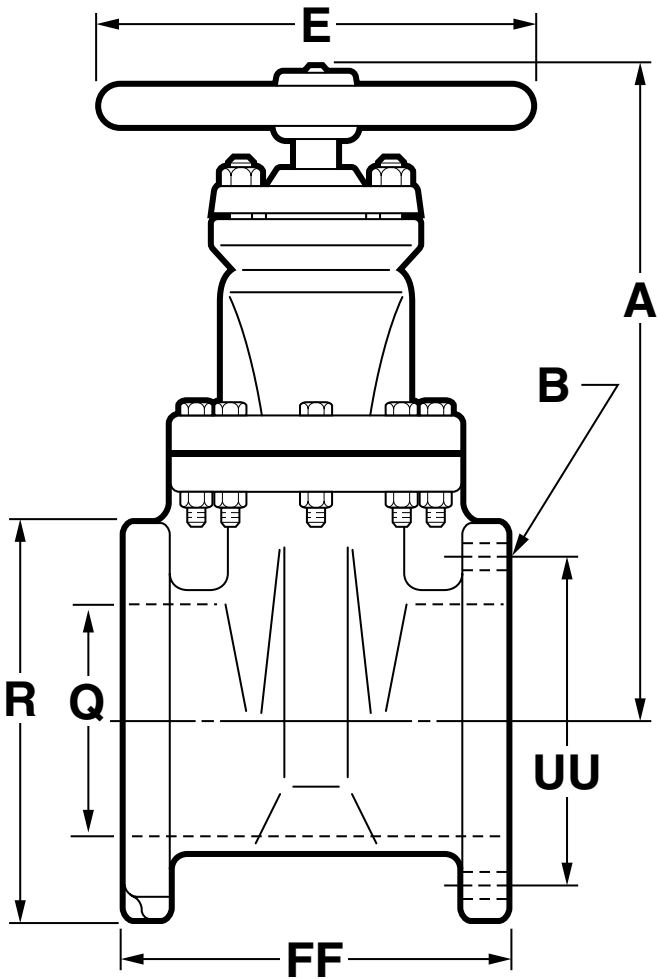
\* Fully encapsulated in molded rubber with no iron exposed

\*\* Previous to 1999 these parts on 4"-12" valves were designed with a gasket instead of an O-ring and with additional bolts (2"-3" sizes retain neoprene gasket design affecting these parts). Confirm the type of seal when ordering a replacement gasket or O-ring.

††Dirt seal on 4"-12" valves



# 2"-12" A-2362-E381 RESILIENT WEDGE GATE VALVE - FL. x FL.



### Dimensions

Dimension*	Nominal size							
	2"	2-1/2"	3"	4"	6"	8"	10"	12"
A	9.88	12.38	12.38	14.19	18.00	21.50	25.50	28.62
E	6.00	6.00	8.00	11.00	13.00	14.00	16.00	16.00
R	6.00	7.00	7.50	9.00	11.00	13.50	16.00	19.00
FF	7.00	7.50	8.00	9.00	10.50	11.50	13.00	14.00
Q (bore)	2.30	2.80	3.30	4.30	6.30	8.30	10.30	12.30
UU (bolt circle diameter)	4.75	5.50	6.00	7.50	9.50	11.75	14.25	17.00
B (number and size of holes)	4--.75	4--.75	4--.75	8--.75	8--.88	8--.88	12--1.00	12--1.00
Turns to open	8	11	11	14	20.5	26.5	33	38.5
Weight*	37	71	73	96	154	250	400	500


\*All dimensions are in inches. All weights are in pounds and are approximate.

**Oil-Resistant Compressible Buna-N Pipe Gaskets with Bolt Holes**



Made of Buna-N rubber, these gaskets compress to ensure a tight seal. They resist oil, water, and salts. Commonly called full-face gaskets, they cover the entire face of flat-surface pipe flanges and align with the bolt holes.

Gaskets for **ANSI class flanges** are sized so all gasket specifications meet ANSI standards. Gaskets for ANSI Class 150 flanges are compatible with low-pressure pipe flanges. **Adhesive-back** gaskets stay in place to make installation easier.

 For technical drawings and 3-D models, click on a part number.

**Gaskets for ANSI Flanges**

For Pipe Size	ID	OD	No. of Bolt Holes	Max. Pressure, psi	Temperature Range, °F	Hardness	Hardness Rating	Color		1/16"	1/8"
<b>For ANSI Class 150</b>											
8	8 5/8"	13 1/2"	8	800	-20° to 170°	Durometer 60A	Medium Hard	Black	8516T244	\$6.43	\$10.88

**Adhesive-Back Gaskets for ANSI Flanges**

For Pipe Size	ID	OD	No. of Bolt Holes	Max. Pressure, psi	Temperature Range, °F	Hardness	Hardness Rating	Color	Type	Adhesive Max. Temperature, ° F	1/16" Thick. Each
<b>For ANSI Class 150</b>											
8	8 5/8"	13 1/2"	8	800	-20° to 170°	Durometer 60A	Medium Hard	Black	Acrylic	120	8516T463 \$15.07



Thickness **1/16 in**

---

Minimum Operating Temperature **-100 °F**

---

Maximum Operating Temperature **400 °F**

---

Maximum Operating Pressure **600 psi**

---

FDA Approved **No**

---

Metal Detectable **No**

---

X-Ray Detectable **No**

---

Color **Green**

---

Hardness **Not Rated**

---

Reinforced **No**

---

Backing Type **Plain**

---

For Fluid Type **Aliphatic Hydrocarbons; Gasoline; Oil; Water**

---

Standards **ASME B16.21; ASME/ANSI Pressure Class-150 LB**

---

Brand **APPROVED VENDOR**

---

UNSPSC **31181512**

---

Country of Origin **Austria (subject to change)**

---

#### Product Description

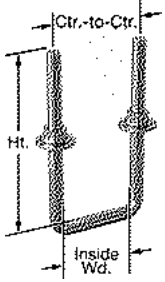
Aramid/Buna-N ring gaskets sit against the internal edge of the flange, around the pipe bore, and inside the bolts. They are typically positioned onto the raised surface of a raised-face (RF) flange. Ring gaskets install by dropping them into the flange fitting without fully disassembling the joint.



This item is restricted for conveying or dispensing for potable use (human consumption).

**3.2.a**

Square U-Bolts



Suspend and route flat-bottomed objects such as strut channel and small duct.

**Black-oxide steel** U-bolts have mild corrosion resistance

**Zinc-plated steel** U-bolts have good corrosion resistance in most environments.

**Galvanized steel** U-bolts have better corrosion resistance than black-oxide and zinc-plated steel U-bolts.

**304 stainless steel** U-bolts have excellent corrosion resistance and good chemical resistance.

For technical drawings and 3-D models, click on a part number.

Inside Wd.	Ht.	Thread Lg.	Capacity, lbs.	Ctr.-to-Ctr.	No. of Nuts Included	No. of Washers Included	Black-Oxide Steel		Zinc-Plated Steel		Galvanized Steel		304 Stainless Steel		
							Each	Each	Each	Each	Each	Each			
<b>1/2"-13 Thread Size</b>															
7"	6 5/8"	3"	2,000	7 1/2"	2	2	<a href="#">3060T174</a>	\$12.52	<a href="#">3060T197</a>	\$11.60	<a href="#">3060T254</a>	\$12.26	<a href="#">3060T231</a>	\$29.2	
7"	8 5/8"	3 3/4"	2,000	7 1/2"	2	2	<a href="#">3060T175</a>	14.38	<a href="#">3060T198</a>	13.24	<a href="#">3060T255</a>	14.10		-	
7"	10 5/8"	5 5/8"	2,000	7 1/2"	2	2	<a href="#">3060T176</a>	16.00	<a href="#">3060T199</a>	14.66	<a href="#">3060T256</a>	15.69		-	

**Steel Hex Head Screws for Wood**

**( For Lagging )**



These steel screws have corrosion-resistant finishes. Also known as lag bolts, they have a hex head for a secure grip with a wrench. They press threads into material for a tight, secure hold. To prevent splitting, drill a pilot hole slightly smaller than the screw. Length is measured from under the head.

**Black-oxide** steel screws have a coating that protects the steel from rusting in dry environments and blends in with dark surfaces.

**Zinc-plated** steel screws resist corrosion in wet environments.

**Hot-dipped galvanized** steel screws have a thick coating for better corrosion resistance than zinc-plated steel screws. They're a good choice for ACQ-treated (arsenic-free) lumber.


For technical drawings and 3-D models, click on a part number.

Lg.	Wd.	Ht.	Head	Approximate Threads per Inch	Threading	Minimum Thread Lg.	Specifications Met	Pkg. Qty.	Pkg.
<b>Black-Oxide Steel</b>									
<b>1/4"</b>									
1"	0.438"	0.172"	10	Fully Threaded	3/4"	ASME B18.2.1	25	95452A100	\$10.26
1 1/4"	0.438"	0.172"	10	Fully Threaded	1 1/8"	ASME B18.2.1	10	95452A101	4.28
1 1/2"	0.438"	0.172"	10	Partially Threaded	1 1/4"	ASME B18.2.1	10	95452A102	7.66
1 3/4"	0.438"	0.172"	10	Partially Threaded	1.28"	ASME B18.2.1	10	95452A103	7.94
2"	0.438"	0.172"	10	Partially Threaded	1 1/2"	ASME B18.2.1	10	95452A104	8.12
2 1/2"	0.438"	0.172"	10	Partially Threaded	1 3/4"	ASME B18.2.1	10	95452A105	10.68
3"	0.438"	0.172"	10	Partially Threaded	2"	ASME B18.2.1	10	95452A106	10.74
3 1/2"	0.438"	0.172"	10	Partially Threaded	2 1/4"	ASME B18.2.1	5	95452A107	7.66
4"	0.438"	0.172"	10	Partially Threaded	2 1/2"	ASME B18.2.1	5	95452A108	7.97
4 1/2"	0.438"	0.172"	10	Partially Threaded	2 3/4"	ASME B18.2.1	5	95452A109	11.02
5"	0.438"	0.172"	10	Partially Threaded	3"	ASME B18.2.1	5	95452A110	8.33
5 1/2"	0.438"	0.172"	10	Partially Threaded	3 1/4"	ASME B18.2.1	1	95452A111	4.31
6"	0.438"	0.172"	10	Partially Threaded	3 1/2"	ASME B18.2.1	1	95452A112	2.87
<b>5/16"</b>									
1"	0.5"	0.219"	9	Fully Threaded	3/4"	ASME B18.2.1	10	95452A113	5.73
1 1/4"	0.5"	0.219"	9	Fully Threaded	1 1/8"	ASME B18.2.1	10	95452A114	5.89
1 1/2"	0.5"	0.219"	9	Partially Threaded	1 1/4"	ASME B18.2.1	10	95452A115	8.36
1 3/4"	0.5"	0.219"	9	Partially Threaded	1.28"	ASME B18.2.1	10	95452A116	8.49
2"	0.5"	0.219"	9	Partially Threaded	1 1/2"	ASME B18.2.1	5	95452A117	5.97
2 1/2"	0.5"	0.219"	9	Partially Threaded	1 3/4"	ASME B18.2.1	5	95452A118	7.91
3"	0.5"	0.219"	9	Partially Threaded	2"	ASME B18.2.1	5	95452A119	7.97
3 1/2"	0.5"	0.219"	9	Partially Threaded	2 1/4"	ASME B18.2.1	5	95452A120	8.06
4"	0.5"	0.219"	9	Partially Threaded	2 1/2"	ASME B18.2.1	1	95452A121	2.35
4 1/2"	0.5"	0.219"	9	Partially Threaded	2 3/4"	ASME B18.2.1	1	95452A122	2.81
5"	0.5"	0.219"	9	Partially Threaded	3"	ASME B18.2.1	1	95452A123	3.53
5 1/2"	0.5"	0.219"	9	Partially Threaded	3 1/4"	ASME B18.2.1	1	95452A124	6.95
6"	0.5"	0.219"	9	Partially Threaded	3 1/2"	ASME B18.2.1	1	95452A125	5.47
<b>3/8"</b>									
1"	0.563"	0.25"	7	Fully Threaded	3/4"	ASME B18.2.1	10	95452A126	8.49
1 1/4"	0.563"	0.25"	7	Fully Threaded	1 1/8"	ASME B18.2.1	10	95452A127	8.67
1 1/2"	0.563"	0.25"	7	Partially Threaded	1 1/4"	ASME B18.2.1	5	95452A128	6.16
1 3/4"	0.563"	0.25"	7	Partially Threaded	1.28"	ASME B18.2.1	5	95452A129	6.68
2"	0.563"	0.25"	7	Partially Threaded	1 1/2"	ASME B18.2.1	5	95452A130	8.09
2 1/2"	0.563"	0.25"	7	Partially Threaded	1 3/4"	ASME B18.2.1	5	95452A131	8.30
3"	0.563"	0.25"	7	Partially Threaded	2"	ASME B18.2.1	1	95452A132	2.35
3 1/2"	0.563"	0.25"	7	Partially Threaded	2 1/4"	ASME B18.2.1	1	95452A133	2.39
4"	0.563"	0.25"	7	Partially Threaded	2 1/2"	ASME B18.2.1	1	95452A134	2.72
4 1/2"	0.563"	0.25"	7	Partially Threaded	2 3/4"	ASME B18.2.1	1	95452A135	4.59
5"	0.563"	0.25"	7	Partially Threaded	3"	ASME B18.2.1	1	95452A136	6.10
5 1/2"	0.563"	0.25"	7	Partially Threaded	3 1/4"	ASME B18.2.1	1	95452A137	9.58
6"	0.563"	0.25"	7	Partially Threaded	3 1/2"	ASME B18.2.1	1	95452A138	9.11
<b>1/2"</b>									
1 1/2"	0.75"	0.344"	6	Partially Threaded	1 1/4"	ASME B18.2.1	5	95452A139	14.33
2"	0.75"	0.344"	6	Partially Threaded	1 1/2"	ASME B18.2.1	5	95452A140	10.11
2 1/2"	0.75"	0.344"	6	Partially Threaded	1 3/4"	ASME B18.2.1	1	95452A141	2.72
3"	0.75"	0.344"	6	Partially Threaded	2"	ASME B18.2.1	1	95452A142	3.92
3 1/2"	0.75"	0.344"	6	Partially Threaded	2 1/4"	ASME B18.2.1	1	95452A143	4.02
4"	0.75"	0.344"	6	Partially Threaded	2 1/2"	ASME B18.2.1	1	95452A144	5.31
4 1/2"	0.75"	0.344"	6	Partially Threaded	2 3/4"	ASME B18.2.1	1	95452A145	5.43
5"	0.75"	0.344"	6	Partially Threaded	3"	ASME B18.2.1	1	95452A146	5.47
5 1/2"	0.75"	0.344"	6	Partially Threaded	3 1/4"	ASME B18.2.1	1	95452A147	7.08
6"	0.75"	0.344"	6	Partially Threaded	3 1/2"	ASME B18.2.1	1	95452A148	7.91
8"	0.75"	0.344"	6	Partially Threaded	4 1/2"	ASME B18.2.1	1	95452A149	15.31
10"	0.75"	0.344"	6	Partially Threaded	5"	ASME B18.2.1	1	95452A150	9.50
12"	0.75"	0.344"	6	Partially Threaded	5"	ASME B18.2.1	1	95452A151	29.97
<b>5/8"</b>									
2"	0.938"	0.422"	5	Partially Threaded	1 1/2"	ASME B18.2.1	1	95452A152	4.44
2 1/2"	0.938"	0.422"	5	Partially Threaded	1 3/4"	ASME B18.2.1	1	95452A153	5.22
3"	0.938"	0.422"	5	Partially Threaded	2"	ASME B18.2.1	1	95452A154	4.47
4"	0.938"	0.422"	5	Partially Threaded	2 1/2"	ASME B18.2.1	1	95452A155	7.06
4 1/2"	0.938"	0.422"	5	Partially Threaded	2 3/4"	ASME B18.2.1	1	95452A156	8.66

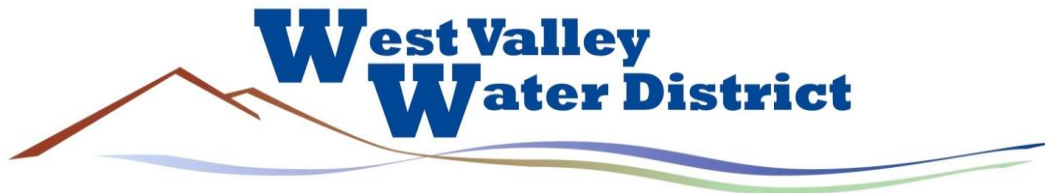
**Oil-Resistant Compressible Buna-N Pipe Gaskets with Bolt Holes for Dissimilar Metals**



The included plastic sleeves and washers provide a layer of protection against dielectric corrosion, which occurs when different metals are joined. Commonly called full-face gaskets, these cover the entire face of flat-surface pipe flanges and align with the bolt holes. They're made of compressible Buna-N rubber to ensure a tight seal. They resist oil, water, and salts. Gaskets are compatible with low-pressure pipe flanges; all gasket specifications are sized to meet ANSI standards. Each gasket comes with one full-length sleeve for each bolt hole, plus two phenolic and two zinc-plated metal washers for each bolt hole. Bolts are not included.

 For technical drawings and 3-D models, click on a part number.

For Pipe Size	ID	OD	Thick.	No. of Bolt Holes	Max. Pressure, psi	Max. Temperature, °F	Hardness	Hardness Rating	Color	Each
<b>For ANSI Class 150</b>										
8	8 5/8"	13 1/2"	1/8"	8	455	260°	Durometer 60A	Medium Hard	Black	<a href="#">9165K68</a> \$57.80



**BOARD OF DIRECTORS  
ENGINEERING, OPERATIONS AND PLANNING COMMITTEE  
STAFF REPORT**

**DATE:** January 16, 2024  
**TO:** Engineering, Operations and Planning Committee  
**FROM:** Joanne Chan, Director of Operations  
**SUBJECT:** WELL 42 REHABILITATION

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**BACKGROUND:**

Well 42 represents a third of the West Valley Water District's (District) groundwater resources in the North Riverside Basin and is the major source of the District's domestic water supply in the southern service area. It has a capacity of approximately 2.6 million gallons per day. In October 2023, Well 42 was pulled for inspection due to loud noises generated by the pump motor and vibrations observed from the pump shaft.

As the well components were disassembled, it was discovered that the pump bowl assembly, multiple sections of the pump shaft, and the motor bearing had worn out. The well casing shows moderate to heavy plugging with both physical and microbial materials. Attached as **Exhibit A** is the Well Survey Report. To rehabilitate the well, the project consists of using high-energy pressure pulses to aggressively break up mineral scales and biofilms from well screen and surrounding gravel pack, performing dual air swab to airlift debris to the surface, replacing the pump bowl assembly and approximately 90 feet of pump shaft, rebuilding the motor, pumping and surging test, performing post-rehabilitation video survey, and disposing of all debris.

**DISCUSSION:**

On March 8, 2021, a Request for Proposal (RFP) was issued and publicly advertised on PlanetBids to solicit a qualified, experienced contractor to provide as-needed pump maintenance services. Four (4) firms – General Pump Company, Inc., Layne Christensen Company, Weber Water Resources CA LLC and Well Tec Services – submitted proposals for as-need maintenance and repair services. The District awarded the contract to General Pump and executed the agreement on May 6, 2021.

General Pump has the entire well pump assembly and motor in their shop and has assembled a quote totaling \$273,138.49 for the Well 42 rehabilitation project. Attached as **Exhibit B** is the quote. Going forward and completing the repair and replacement with General Pump will ensure the well is back in service in the shortest possible timeline, providing much needed production capacity in Zone 2.

**FISCAL IMPACT:**

This item is not included in the Fiscal Year 2023/24 Capital Budget and will be funded from a project that will initiate next fiscal year, project No. W24000 titled "Reservoir 5-2 Rehabilitation" with a budget of \$1,000,000.00. A summary of the requested budget transfer is as follows:

Project	Current Budget	Transfer From/To	Remaining Budget
Reservoir 5-2 Rehabilitation	\$1,000,000.00	-\$280,000.00	\$720,000.00
Well 42 Rehabilitation	\$0.00	+\$280,000.00	\$280,000.00

**STAFF RECOMMENDATION:**

Staff recommends that the Board of Directors to:

1. Approve the Well 42 rehabilitation project with General Pump in the amount of \$273,138.49 and;
2. Authorize the General Manager to execute all necessary documents.

JT:jc

**ATTACHMENT(S):**

1. Exhibit A - Well Survey Report
2. Exhibit B - Quote

# EXHIBIT A

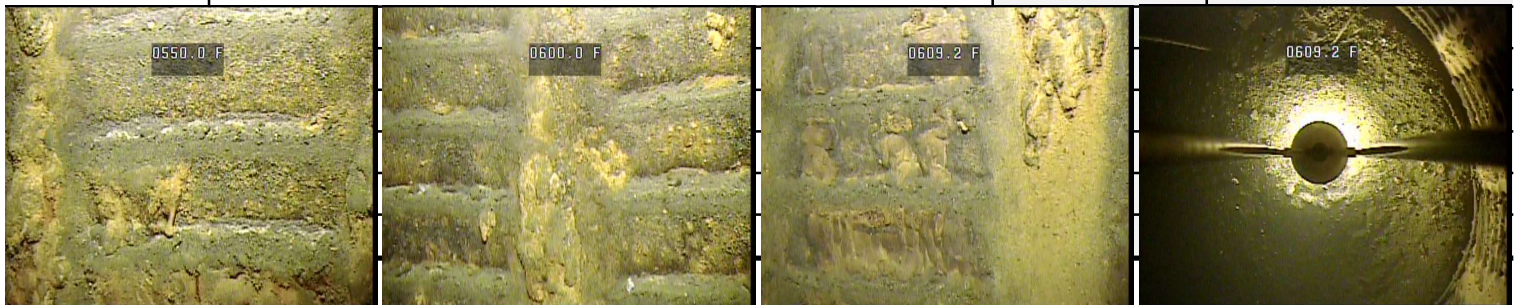
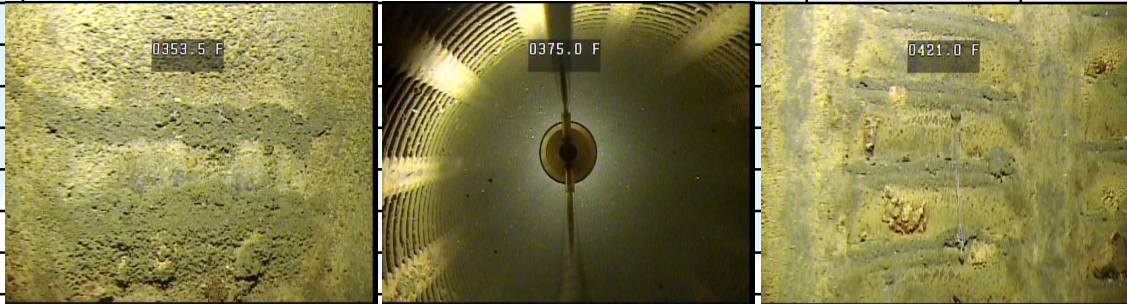


**COMPANY NAME:** General Pump  
**WELL INSPECTED:** Well 42  
**FIELD NAME:** Conton  
**STATE:** California  
  
**WELL ADDRESS:** 491 N Wildrose Ave  
**GPS LOCATION:** N34o4'33"  
 W117o21'58"

**DATE:** 11/9/2023  
**RUN NO:** One  
**JOB TICKET:** 23119  
**TOTAL DEPTH:** 611.2 ft.  
**WATER LEVEL:** 263.4 ft.  
**OIL ON WATER:** No **AMT:** None  
**OPERATOR:** Nelson  
**GUIDE SET:** 17.00 in  
**CHRIS NELSON @** (909) 809-9815

Superior Well Surveys

DEPTH	OBSERVATIONS	PERFORATION	FROM SURVEY
0.0 ft.	Start survey at top of casing.		
100.0ft	Scaling on casing.	Ful-Flo Louvers	353.5 ft. to ?
263.4ft	SWL; water clear, visibility Fair.		
353.5ft	Top of louvers; material on lips.		
375.0ft	Louvers appear fairly open.		
421.0ft	Louvers appear open.		
423.4ft	Bio-fouling on lips of louvers.		
450.0ft	Fine material on lips.	<b>CASING SIZE</b>	<b>FROM SURVEY</b>
465.0ft	Heavy build-up on lips.	20.00 in	0.0 ft. to 611.2 ft.
500.0ft	Louvers appear partly open with down view.		
550.0ft	Louvers appear normal.		
600.0ft	Hard scaling on casing.		
611.2ft	Fill; still in louvers. End survey.		





# EXHIBIT B



159 N. ACACIA STREET \* SAN DIMAS, CA 91773  
 PHONE: (909) 599-9606 \* FAX: (909) 599-6238

CAMARILLO, CA 93010 \* PHONE: (805) 482-1215  
 www.genpump.com

**WELL & PUMP SERVICE SINCE 1952**

Lic. #496765

*Serving Southern California and Central Coast*

January 4, 2024

**Job # 16044**

West Valley Water District  
 855 West Baseline Road  
 Rialto, California 92337  
 Attn: Joe Schaack

**Subject: Well 42**

General Pump Company is pleased to provide our quote to repair and reinstall the pump equipment and motor recently pulled from the above referenced site. The bowl assembly suffered catastrophic failure at the bowl suction impeller and worked its way up the bowl assembly. This is normally caused by the well breaking suction and or a combination of entrained air. Since the well pumps directly under pressure into the system, it is very difficult to alleviate air under pressure. I do believe bowl failure is more a problem of well pugging than entrained air. We can plan to combat these wear issues using harder materials such as 201SS impellers and 17-4 PH hardened bowl shaft such as I have quoted here. The well indicates moderate to heavy plugging with both physical and microbial materials present. This quote includes all well cleaning and pump repairs, plus installation and start up.

**Engineering Inspection Notes**

- The bowl shaft is hour glassed. The seal rings on the impeller and suction case are worn and damaged. The 1st impeller is heavily damaged, the impeller has no hydraulic seal ring remaining, the impeller has worn itself into the bowl casing. The 2nd impeller has damaged vanes possibly from the 1st impeller seal ring. All the bowl bearings are worn. The bowl seal rings are oversized and worn. These castings are damaged by the casing. Impellers # 1-5 are damaged/ worn. The bowls assembly needs to be replaced.
- The pump is equipped with a 10"x10' suction pipe with a 10" galvanized steel cone strainer. The cone strainer is corroding, a SS cone stainer is recommended.
- The 10" column pipe has been cut out and requires replacing.
- All new 10" BWS retainers are required.
- 4 out of the 23 1-15/16 carbon steel shafts are not reusable, the shafts are stuck in the tubes. The remaining shafts are showing wear on the bearing journals. The shafts require to be flipped and cleaned prior to reinstallation, new coupling test fitted and prepped for installation. Four out of 23 tubes are in bad condition and require replacing, the remainder 3" tubes are in serviceable condition after extensive reconditioning which include pressure washing the tube and shafts, wire wheeling the internal threads, test fit threads and prep for installation. Replacement of the tube and shaft assemblies is recommended.
- The 10"x10' top pipe is corroded around the exposed threads, the pipe also has a large amount of chain tongs marks caused by the removed of the pump. A new top pipe is required
- The head is in good condition. The head needs to steam cleaned, all the threads chased and cleaned, all machined surfaces wire wheeled, remove old top pipe, recondition the top flange, cut new top flange gasket.
- The tube tension assembly is reusable after reconditioning which includes removing the top tube segment, sand blasting the assembly, test fitting the threads, prep for installation. The head shaft is worn and requires replacement.
- The motor was sent out to Delta. Internally the motor is extremely dirty. Testing shows readings to be low but in satisfactory condition. Bearings show signs of wear.
- The pump is equipped with 463' of 1/4" SS Tubing w/ PVC Jacket. A new spool of air is required.



### Cost Proposal

#### Shop Labor

	<u>Hours</u>
• Unload and stage new pump materials; quality assurance	6
• Check proper fit of new suction pipe and strainer; weld lugs and prepare for installation	2
• Tear down and inspect new bowls; reassemble and prepare for installation	8
• Check proper fit of new column pipe; steam-clean and tighten couplings	2
• Uncrate, stage, and check proper fit of new line shafts	3
• Unbox new line shaft couplings; apply antiseize on threads and install on shafts	1
• Check all new T&S assemblies test fit with bearing	3
• Set-up and stab shafting assemblies in column pipe; stage equipment	3
• Unbox and check proper fit of new retainers; palletize and prepare for installation	2
• Remove top column flange and nipple from discharge head	2
• Machine new top column pipe and install flange	5
• Make top flange gasket and install top nipple/flange assembly on discharge head	2
• Retap holes on discharge head, paint to finish, and prepare for installation	3
• Fit and fabricate new SS CAL-OSHA Window Screens	2
• Rebuild existing tube tension assembly to manufacturer's standards	5
• Set-up, plumb, and install stainless-steel high-pressure by-pass line	1
• Machine new head shaft; install nut & key and prepare for installation	6
• Handle client's motor; load, unload, stage, and prepare for installation	1
• Check proper fit of new Airline assembly; gather bracket & fittings and prep for installation	2
• Clean and recondition components in parts bucket/Replace as necessary	2
• Gather necessary gaskets, fittings, and bolting to accommodate pump installation	2
• Dispose leftover junk materials	2
• Pressure-wash and prepare bowls for disassembly	2
• Tear down and inspect bowls; provide report and recommendations	6
• Pressure-wash and inspect T&S assemblies	2
• Engineering inspection and report	<i>(Included)</i>

Est. 75 Hrs. @ \$118/Hr.      **\$ 8,850.00**

#### Materials

• 10" 316SS Cone Strainer	\$ 928.00
• 10" X 10' X .279" TOE NPT Suction Pipe	633.00
• 14ML 7 stage O/L Bowl Assembly	26,301.00
• 10" X 20' X .365" TNC Butt Pipe	45,928.00
• 10" X 5' X .500" TBE Butt Nipple	922.00
• 3" x 5' Oil Tube	147.00
• 3" X 1-15/16" X 20' T&S Assembly	35,618.00
• 1-15/16" X 10' TBE C-1045 Line Shaft - HS	1,248.00
• 1-15/16" C-1215 Shaft Coupling	82.00
• 10" BWS Centralizer	184.00
• Top Column Flange Gasket & Bolt Kit	142.00



**Materials – (Con't)**

• Materials to Refurbish 10" Discharge Head	189.00	
• Stainless-Steel Material for CAL-OSHA Screens	118.00	
• Materials to Rebuild 1-15/16" tube tension assembly	342.00	
• Material for Stainless-Steel High-Pressure By-Pass Line	45.00	
• 1/4" SS Airline Assembly w/ Gauge, Bracket, and Fittings	1,678.00	
• 3/4" Banding and Buckles for Airline Assembly	320.00	
• 10", 150# Discharge Gasket w/ Nut & GRD 5 Bolt Kit	82.00	
• J-Box Electrical Connection Kit	282.00	
• ISO Oil for Electric Motor	62.00	
• Consumables (Grease, Sealer, Solvent, Etc...)	225.00	
• Estimated Shipping & Handling	574.00	
• Sales Tax @ 8.75%	<u>10,154.38</u>	<b>\$ 126,204.38</b>

**Motor Repair**

*Delta Motor Scope of Work*

- Disassemble, inspect, testing and measurements.
- Recondition, clean, dip and bake the stator windings.
- Clean and bake rotor assembly.
- Dynamically balance rotor assembly.
- Reseal oil level stand pipe.
- Install new Skf bearings (1-29426 Spherical Roller & 1-6219).
- Install new 115-volt space heaters (Qty. 2).
- Install new oil level sight glass and oil fill plug.
- Install oil breather vent.
- Clean, prime and paint all parts.
- Reassemble and perform a full voltage no load test.

	Labor	\$ 5,162.00	
	Materials	7,184.00	
	Sales Tax @ 8.75%	<u>628.60</u>	<b>\$ 12,974.60</b>

**Phase 1 – Wire Brush**

- Mob to site, conduct brief tailgate safety meeting
- Rig up equipment
- Wire brush well with stiff wire brush, use two (2) brushes to ensure proper brushing
- Use brush with chlorine basket during brushing
- Bail accumulated fill into roll-off bin
- Prep well for video

Mobilization & Demobilization	200.00
Two Men Rig & Service Truck	
<i>Est.</i> 30 Hrs. @ \$469/Hr.	14,070.00
<i>Est.</i> OT – 6 Hrs. @ \$130/Hr.	780.00



Outside Service

- Video log well 1,000.00

Shop Labor

- Load / unload brushes/bailor
- Fabricate two (2) wire brushes

*Est.* 20 Hrs. @ \$118/Hr. 2,360.00

Materials

- HTH granular chlorine 228.00
- Freight 75.00
- Sales Tax @ 8.75% 26.51

Rentals

- (2) Steel brushes with chlorine chambers – 2 @ \$600/Ea. 1,200.00
- (1) 18 cu/yrd roll-off, includes analytical, disposal. 1,800.00 \$ 21,739.51

Phase 2 (Airburst)

Airburst Technician & Equipment  
(2) 10 Hr./day **1<sup>st</sup> day @ \$12,800 / 2<sup>nd</sup> day @ \$6,800** 19,600.00

Support equipment

Two Men Rig & Service Truck  
*Est.* 20 Hrs. @ \$469/Hr. 9,380.00  
*Est.* OT 4 Hrs. @ \$130/Hr. 520.00

Dual Swab Airlift

- Airlift perforations from 445'-980' to remove detached tubercle and biological growth

Three Men Rig & Service Truck

*Est.* 50 Hrs. @ \$570/Hr. 28,500.00  
*Est.* OT 12 Hrs. @ \$195/Hr. 2,340.00

Outside Service

- Video log 1,250.00



Joe Schaack  
West Valley Water District  
January 4, 2024  
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**Rentals**

- Air compressor & fuel  
Est. 50 Hrs. @ \$220/Hr. 11,000.00 \$ 72,590.00

**Phase 3 – Pump Installation**

- Confirm lockout, tagout of electrical service
- Install complete pump and motor
- Wire motor, check rotation
- Clean site and demobilize

Three Men Rig & Service Truck  
Est. 40 Hrs. @ \$670/Hr. 26,800.00

**Start up:**

Start up and record data.  
Service Truck & Electrician  
Est. 8 Hours @ \$185/Hr. 1,480.00 \$ 28,280.00

**Performance and Payment Bonds** \$ 2,500.00

***Estimated Grand Total*** \$ 273,138.49

Should you have any questions or need additional information regarding the above summary and associated costs, please do not hesitate to contact us. Thank you for the opportunity to provide a quote for our services and we look forward to working with you on this important project.

**GENERAL PUMP COMPANY, INC.**

*Tom Nanchy*

Tom Nanchy  
Senior Project Manager