

#### DATE REQUESTED: 4/10/2024

- PCO NO.:7SUBJECT:Generator RelocationFROM:Water Works EngineersAUTHOR:Joe Riess
- TO: City of Needles Attn: Kathy Raasch 817 Third Street, Needles, CA 92363

760-326-5700 Ext. 130

#### WORK CHANGE REQUESTED:

1. Relocate generator to Southwest corner of site as shown on the Drawings. Provide new buried conduit and wire to new generator location.

#### JUSTIFICATION OR NEED FOR THE CHANGE:

- During project scoping, the new generator was located West of the existing building and transformer. After survey of the site was completed, it was discovered that the location of the generator would block entry to site from the existing 30-ft wide gate and be located over existing primary electrical conduit and wires. Relocating the generator to the Southwest corner of the site prevents it from obstructing access through the gate and does not interfere with the existing electrical conduit.
- 2. Overexcavation 5-ft horizontally and vertically around the generator foundation was recommended in the April 2023 Geotech Report. The original generator location was near the existing fire hydrant and buried power conduit. Relocating the generator to the Southwest corner of the site provides more working room around the generator pad and provides clearance between the overexcavation work area and existing buried utilities.
- 3. The additional distance from the generator to the automatic transfer switch required larger conductors and conduit.

#### PROJECT IMPACT:

COST CHANGE, \$

\$56,459.75

0

TIME CHANGE, days

#### CONTRACTOR

Pacific Hydrotech Corporation

By:
-----

Date:\_\_\_\_\_

ENGINEER	
Water Works Engineers, LLC	
By:	
Date: 04/10/2024	



March 27, 2024

City of Needles 817 3<sup>rd</sup> Street Needles, CA 92363

Project: 1307 River Road - Well 11 Improvements

Reference: Generator relocation

Dear Kathy,

Find for your review and approval the attached documents for the engineer requested upgrade relocation of the generator. Costs reflect all material, labor, tools and equipment for increase in overall length for the installations from the new ATS location to the relocated generator. Costs include excavation, saw cutting, demolition, conduit/cable installations, concrete encasement and backfill/compaction.

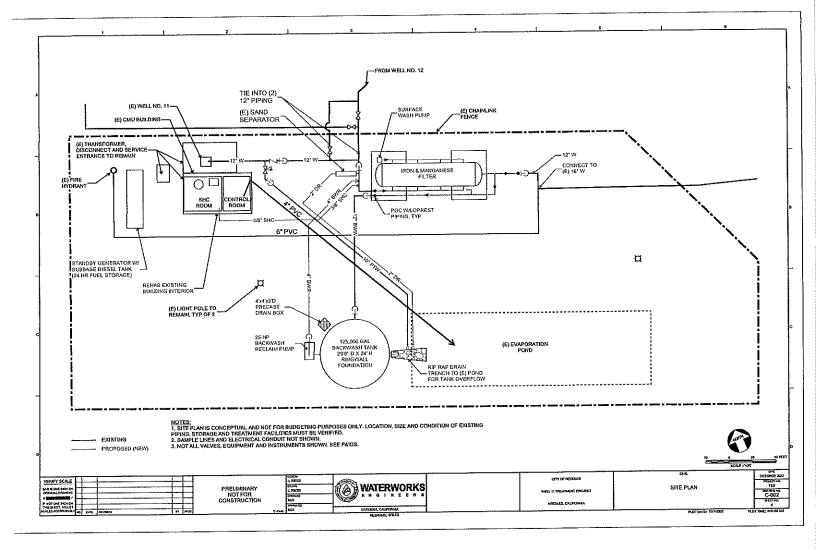
This proposal is based on the installation being completed concurrent with the existing contract. No additional contract time is required.

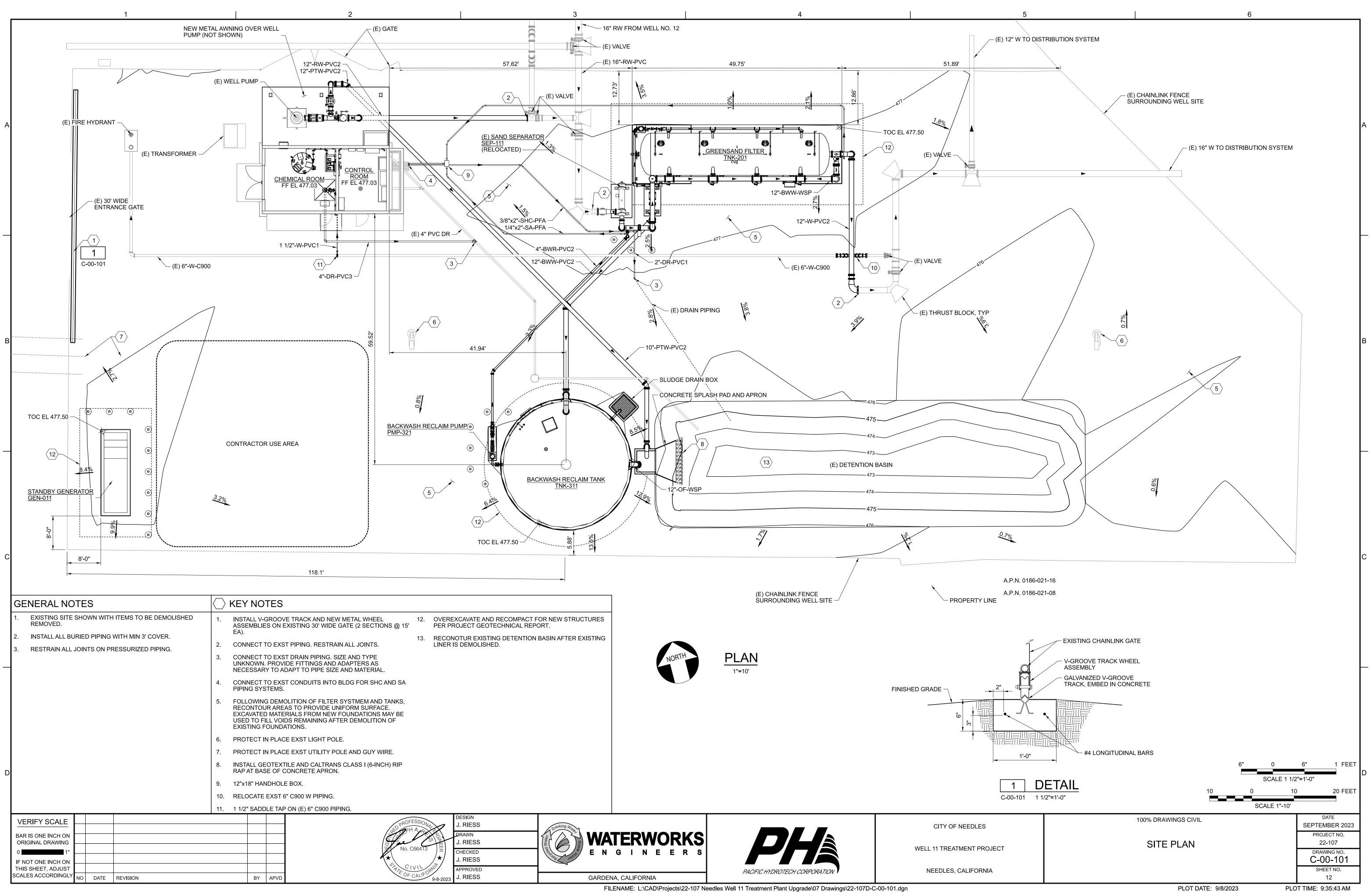
Respectfully,

Eric Christe

Eric Christensen Pacific Hydrotech, Inc

EQUIPMENT	Hours	Rate	Total	LABOR	Hours	Rate		Total
Service Truck	32.0	30.00	\$ 960.00	Saw-cut/demolition			\$	-
Backhoe	40.0	51.12	\$ 2,044.62	Foreman	8.00	82.58	\$	660.64
24" W/Comp Whl			\$ -	Laborer	8.00	82.58	\$	660.64
Spoils to be lost on-si	ite		\$ -					
			\$ -	Layout and Excavate			\$	-
			\$ -	Foreman	8.00	82.58	\$	660.64
			\$ -	Laborer	16.00	82.58	\$	1,321.28
			\$ -				\$	-
			\$ -	Concrete Placement			\$	-
			\$ -	Foreman	4.00	82.58	\$	330.32
			\$ -	Laborer	8.00	82.58	\$	660.64
			\$ -				\$	-
			\$ -	Backfill, Place & Finish			\$	-
			\$ -	Foreman	8.00	82.58	\$	660.64
			\$ -	Laborer	16.00	82.58	\$	1,321.28
			\$ -				\$	-
Subtotal			\$ 3,004.62				\$	-
10% Mark Up		10%	\$ 300.46				\$	-
Total Cost			\$ 3,305.08				\$	-
MATERIAL	Qty.	Cost	Total				\$	-
Concrete -	16.0	\$218.37	\$ 3,493.84				\$	-
Slab Patch	1.0	\$368.37	\$ 368.37				\$	-
STS	1.0	\$250.00	\$ 250.00				\$	-
			\$ -				\$	-
			\$ -	Construction Only			\$	-
			\$ -	Lodging & Per Diem	10.00	188.00	\$	1,880.00
Subtotal			\$ 4,112.21	Subtotal			\$	8,156.08
10% Markup		10%	\$ 411.22	10% Mark Up 10%		\$	815.61	
Total Cost			\$ 4,523.43	Total Cost			\$	8,971.69
SUBCONTRACT	Unit	Cost	Total					
FAITH Electric	1.0	\$37,771.00	\$ 37,771.00	Equipment Total Cost			\$	3,305.08
			\$ -	Material Total Cost			\$	4,523.43
			\$ -	Subcontracts Total Cost			\$	39,659.55
			\$ -	Labor Total Cost			\$	8,971.69
			\$ -	Subtotal			\$	56,459.75
			\$ -	Bond		0%	\$	-
			\$ -	Insurance		0%		-
			\$ -	TOTAL COSTS			\$	56,459.75
			\$ -			l	-	
Subtotal	-		\$ 37,771.00					
5% Markup		5%	 1,888.55					
Total Cost			\$ 39,659.55					







### **Faith Electric**

1980 Orange Tree Lane, Suite 106 Redlands, California 92374

Client Address:

Pacific Hydrotech Corporation

314 E. 3rd Street Perris, California 92570 Project Name: P2305-City of Needles Well#11 Contract #: P2305

Faith Electric Job#: P2305 Client PCO #: Faith Electric PCO#: 6

Thursday, March 21, 2024

### Work Description CO-006 = 100% Generator Circuit Extension

#### Files Acknowledged:

- Needles 100% Drawings 20230908;
- Needles 100% Specifications 20230908; (Omitted) Faith Electric will install per code minimum requirements;

#### Scope of Work:

- F&I conduit and circuiting for the generator at the revised location per the 100% drawings;
- F&I conduit and circuiting for the following conduit tags: P0011A, P011B, C002 and C011 (Approximately 120');
- Conduit will be installed with the use of PVC underground, GRC & EMT aboveground, Nema-1 indoor, Nema-3R outdoor, as required per code minimum;
- Allowances have NOT been included in this proposal;
- Credit / Deduct:
  - o (1) 600amp power circuit (2-2-1/2"PVC, 3-3/0,1#1) to the new 800kw generator from the ATS (Approximately 82');
  - o (1) Conduit and wiring for controls (1-1" PVC, 6#14,1#14) to the new 800kw generator from the ATS (Approximately 82');

#### **Clarifications:**

• The conduit routing and grouping shown in the drawings is considered a suggestion. Faith Electric will arrange and consolidate conduits and circuits where possible, ensuring adherence to code requirements.

#### **Exclusions:**

- Contract Exclusions apply;
- Bare Copper Ground in Trench / Duct banks (ESD-001 Detail 16030);
- Vaults or hand holes;
- Seismic Engineering;
- X-ray or core drilling;
- Any items not specifically included in the Scope of Work above.

#### Faith Electric

1980 Orange Tree Lane, Suite 106 Redlands, California 92374

#### Client Address:

#### Pacific Hydrotech Corporation 314 E. 3rd Street

Perris, California 92570

#### Contract Name: P2305-City of Needles Well#11 Contract #: P2305 Project Name: P2305 Project #: P2305-City of Needles Well 11 Client PCO #: Our PCO #: 6

Description	Qty	Total Mat. \$	Total Hours
1"Conduit - EMT 10' Lengths	35.960	65.81	1.450
1"Conduit - PVC 40 10' Lengths	155.880	152.44	6.874
2-1/2"Conduit - PVC 40 10' Lengths	-165.480	-574.41	-14.562
4"Conduit - PVC 40 10' Lengths	243.310	1,465.04	33.57
1"Elbow 90 Degree - PVC 40 Bell End	5.000	8.91	1.100
2-1/2"Elbow 90 Degree - PVC 40 Bell End	-6.000	-46.11	-3.120
4"Elbow 90 Degree - PVC 40 Bell End	8.000	175.26	8.40
1"Coupling - EMT Compression Steel	3.000	1.07	0.330
1"Coupling - PVC	5.000	0.99	0.10
2-1/2"Coupling - PVC	-6.000	-5.44	-0.252
4"Coupling - PVC	8.000	18.23	0.576
1"Connector - EMT Compression Steel	2.000	0.80	0.312
1"Locknut - Steel	2.000	0.26	0.06
2-1/2"Locknut - Steel	-4.000	-3.07	-0.34
4"Locknut - Steel	4.000	58.52	0.504
1"LB Conduit Body - RMC Galvanized w/ Cover & Gasket	2.000	80.52	1.36
4"LB Conduit Body - RMC Galvanized w/ Cover & Gasket	2.000	1,071.58	3.42
1"Male Adapter - PVC Socket to Box	2.000	1.52	0.20
2-1/2"Male Adapter - PVC Socket to Box	-4.000	-18.76	-0.80
4"Male Adapter - PVC Socket to Box	4.000	17.21	1.60
PVC Cement Standard (per US Oz)	19.480	17.53	0.62
#14 BlackWire THHN / T90 - Copper	1,301.040	187.35	5.59
#14 GreenWire THHN / T90 - Copper	216.840	31.22	0.932
#1 GreenWire THHN / T90 - Copper	-185.480	-325.02	-2.50
#1/0 GreenWire THHN / T90 - Copper	273.310	592.08	3.88
#3/0 BlackWire THHN / T90 - Copper	-556.440	-1,796.74	-10.46
#600 BlackWire THHN / T90 - Copper	1,093.240	13,942.29	46.35
1"2-Piece Strut Clamp - Universal Steel Zinc Plated Break-Apart	3.669	26.62	0.20
4" x 3" SpacingIntermediate Spacer - EB / DB Duct	47.000	61.26	1.17
#14Power Termination Per Wire to 600V	14.000	0.00	0.98
#1Power Termination Per Wire to 600V	-2.000	0.00	-0.60
#1/0Power Termination Per Wire to 600V	4.000	0.00	1.28
#3/0Power Termination Per Wire to 600V	-12.000	0.00	-4.68
#600Power Termination Per Wire to 600V	16.000	0.00	11.20
Conduit Label	4.000	25.44	0.68
Manual Labor Adjustment / Discount	-30.000	0.00	-30.00
otals	2,503.329	15,232.40	65.454

#### Faith Electric

1980 Orange Tree Lane, Suite 106 Redlands, California 92374

Client Address:

#### **Pacific Hydrotech Corporation** 314 E. 3rd Street

Perris, California 92570

Contract Name: P2305-City of Needles Well#11 Contract #: P2305 Project Name: P2305 Project #: P2305-City of Needles Well 11 Client PCO #: Our PCO #: 6

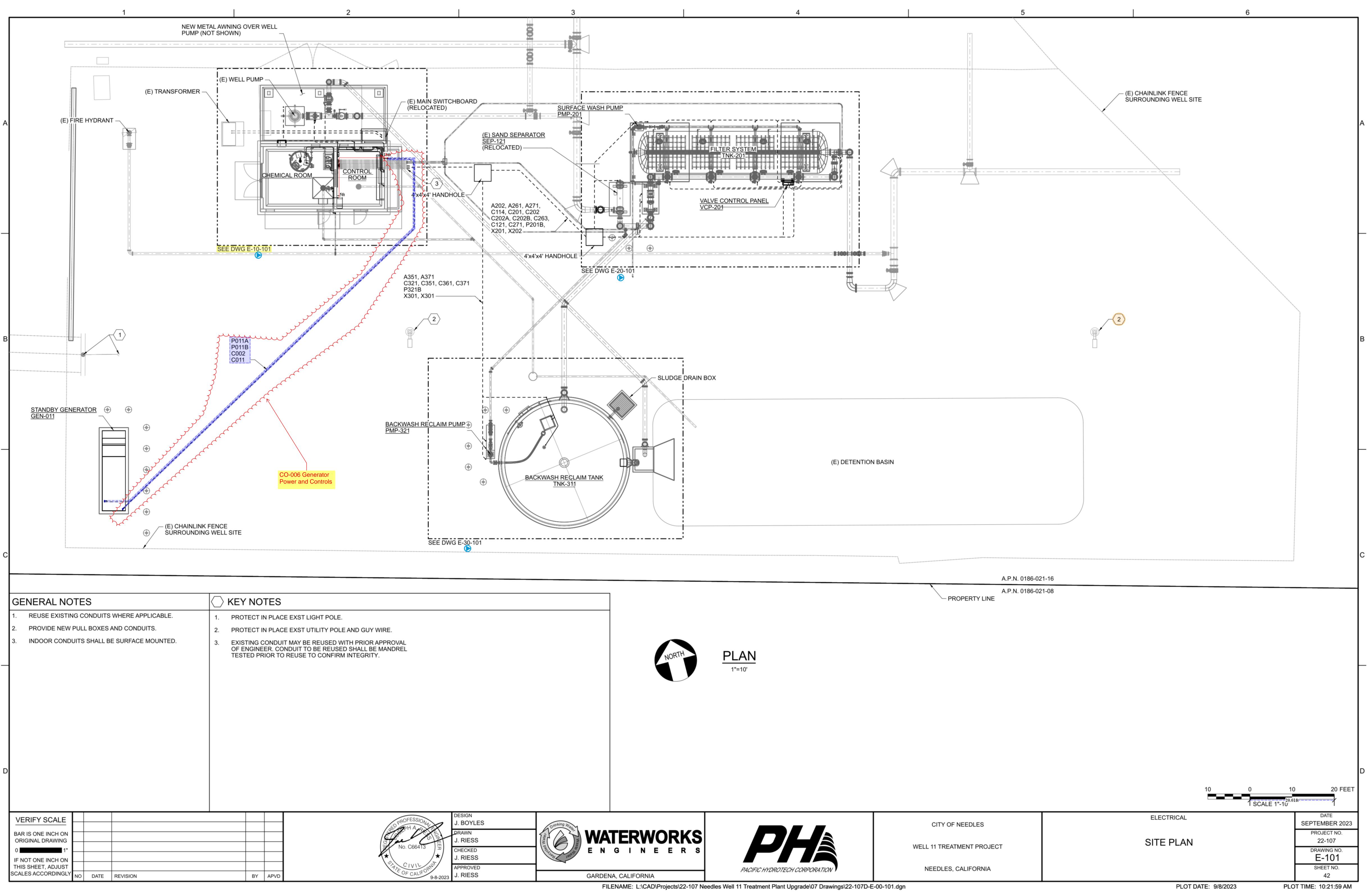
Summary								
<b>Extension Materials</b> Database Material Total Extension Material Cost						%	<b>Total</b> 15,232.40 15,232.40	
Material Tax						7.750	1,180.51	
Total Extension Material						1.100	1,100.01	16,412.91
Labor		Н	ours F	late	Sub Total	%	Total	·
Field Labor								
477 Foreman (Zone B)		32	.727 137	7.21	4,490.47			
477 Journeyman (Zone B)		32	.727 127	7.93	4,186.77			
Total Field Labor							8,677.24	
Indirect Labor								
477 General Foreman (Zone B)		6	.545 146	6.49	958.84			
Total Indirect Labor							958.84	
Total Labor Cost							9,636.02	
Total Labor								9,636.02
General Expenses	Qty E	Duration	Cost/Unit	Tax 9	% OH %	MU %	Total	
Daily Lodging (excluding taxes) \$124 Per Day, Oct 2023-Sept 2024	65.45	0.000	15.50	0.00	0 0.000	0.000	1,093.17	
Meals and Incidentals (M&IE) \$64 Per Day	65.45	0.000	8.00	0.00	0 0.000	0.000	523.63	
Small Tools and Consumables	8,677.28	1.000	0.01	0.00	0 0.000	0.000	86.77	
Total General Expenses								1,703.57
Equipment	Qty E	Duration	Cost/Unit	Tax 9	% OH %	MU %	Total	
Foreman Serivce/Tool Truck (Per Hr.)	65.454	0.500	24.70	0.00	0 0.000	0.000	808.36	
Total Equipment								808.36
Sub Total 1								28,560.86
Global Overhead()						15.000	4,284.13	
Global Markup						15.000	4,926.75	
Total Global Overhead and Markup								9,210.88
Sub Total 2						0.000	a = <i>i</i>	37,771.74
Final Adj						-0.002	-0.74	0.74
Total Adjustments								-0.74
Total								37,771.00

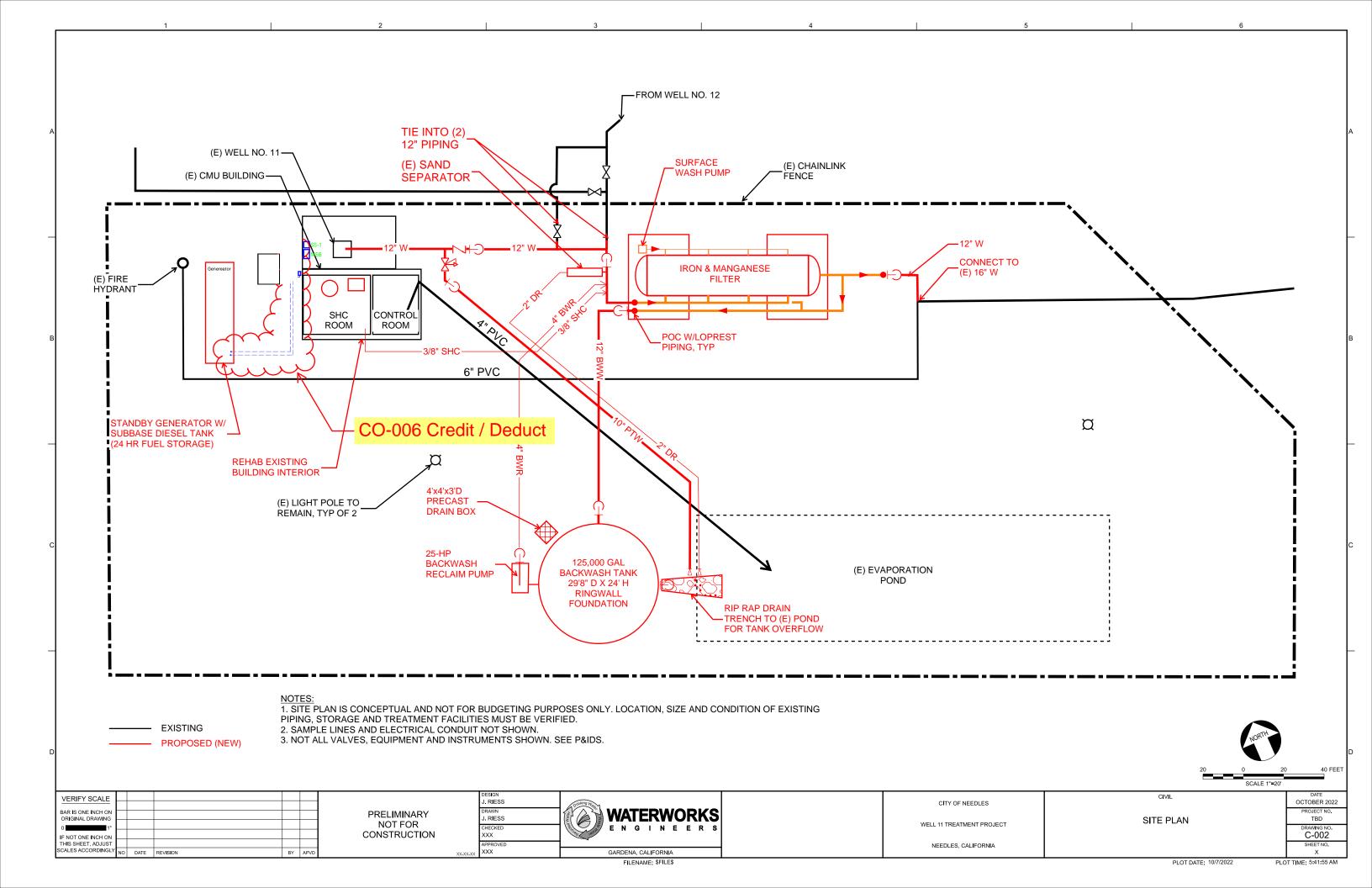
#### Faith Electric

1980 Orange Tree Lane, Suite 106 Redlands, California 92374

Client Address: **Pacific Hydrotech Corporation** 314 E. 3rd Street Perris, California 92570 Contract Name: P2305-City of Needles Well#11 Contract #: P2305 Project Name: P2305 Project #: P2305-City of Needles Well 11 Client PCO #: Our PCO #: 6

Client Acceptance		
PCO #:	6	
Final Amount:	\$ 37,771.00	
Name:		_
Date:		-
Signature:		-
Change Order #:	I hereby accept this quotation and authorize the contractor to complete the above described work	-







BRANCH N23 2250 SILVER CREEK RD BULLHEAD CITY AZ 86442-8473 928-758-5757 928-758-6966 FAX



**RENTAL QUOTE** 

#### # 231939075

Quote Date : Estimated Out : Estimated In : UR Job Loc :	657917 03/27/24 04/08/24 09:00 AM 04/15/24 09:00 AM 1307 RIVER RD, NEEDL 337
Customer Job ID:	
P.O. # :	OUOTE
Ordered By :	<b>ĒRIC CHRISTENSON</b>
Written By :	BRUCE ROKJER
Salesperson :	

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

RENTAL ITEMS: 4 Week Estimated Amt <u>Oty Equipment</u> Description Minimum Day Week 1 9021020 393.00 1,267.00 3,577.00 BACKHOE/LOADER 60-90HP 4WD 393.00 1,267.00 1 902/5024 BACKHOE BUCKET 24" 1.08 1.08 3.24 13.00 3.24 1 9025255 BACKHOE 24" COMPACTION WHEEL 123.00 123.00 335.00 1,174.00 335.00 Rental Subtotal: 1,605.24 SALES/MISCELLANEOUS ITEMS: <u>Oty</u> Item Price <u>Unit of Measure</u> <u>Extended Amt.</u> 1 ENVIRONMENTAL SERVICE CHARGE [ENV/MCI] 32.040 EACH 32.04 135.000 EACH 135.00 1 DELIVERY CHARGE 1 PICKUP CHARGE 135.000 EACH 135.00 Sales/Misc Subtotal: 302.04 Agreement Subtotal: 1,907.28 137.34 Tax: Estimated Total: 2,044.62

COMMENTS/NOTES:

CONTACT: ERIC CHRISTENSON CELL#: 951-704-0526 Dlv/Pku loc selected by Map Pin Option

TO SCHEDULE EQUIPMENT FOR PICKUP, CALL 800-UR-RENTS (800-877-3687) WE ARE AVAILABLE 24/7 TO SUPPLY YOU WITH A CONFIRMATION # IN ORDER TO CLOSE THIS CONTRACT

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.

Job Site

WELL 11 1307 RIVER RD NEEDLES CA 92363

**Office:** 951-943-8803 **Cell:** 951-704-0526

PACIFIC HYDROTECH CORP 314 E 3RD ST PERRIS CA 92570-2225

#### S&S CONCRETE & MATERIALS, LLC Mailing Address: PO BOX 23283, Bullhead City, AZ 86439 Physical Address: 3000 Pass Canyon Road, Bullhead City, AZ 86442 Telephone: 928-754-1999 Fax: 928-754-1991

#### PROJECT QUOTE

PROJECT: City Of Needles Wastewater ATTN: Eric Christensen PH: 951-704-0526 Fax:	ristensen		CUSTOMER: Pacific Hydrotech Corp DATE: 1/23/2024 EXPIRES: 30 Days			
Email: echristensen@pachydro.com						
Description	UNITS	UM	Unit Price	DEL/FOB		
300 Yards 4000psi						
Ready Mix:						
Mix Design ID # 4502CL-S4000 (4000psi) Mix ID # 3000W5.5 Delivery Fee (Needles)		CY CY PER TRUCK	\$166.00 \$155.50 \$100.00	DELIVERED DELIVERED		
Additional Charges: Fuel Surcharge (Adjustable Quarterly) SHORT LOAD < 3 YARDS SHORT LOAD 3-4 3/4 YARDS Standby charges will apply after 6 minutes per yard Saturday Charge Red dye ASTM 979		PER TRUCK LOAD LOAD MINUTE CY CY	\$39.50 \$150.00 \$100.00 \$1.50 \$5.00 \$110.00			
Aggregates:						
		TON TON		DELIVERED FOB		
S&S Concrete & Materials reserves the right to be i	ncluded o	n all email chair	ns regarding te	est results		

from the awarded job.

Prices are based on the award of all concrete and construction aggregates on the job.

Prices are good when S&S Concrete & Materials, materials and mix design are accepted by project engineer on above materials.

ANY ADDITIONAL CHARGES FROM OUR ENGINEER FOR JOB SPECIFIC, STAMPED MIX DESIGN WILL BE CHARGED AT A COST + 10%

	Signature	
	Sales Manager	Dale Abbott
	Title	Name
ACCEPTED		
Authorized Representative Title	Name	
Date	Signature	