

**RECLAMATION DISTRICT NO. 1601
TWITCHELL ISLAND
BOARD OF TRUSTEES MEETING
TUESDAY, DECEMBER 17, 2024
9:00 AM
ENGINEER'S REPORT**

I. LEVEE DISTRESS AT LEVEE STATION 60+00 ALONG THREE MILE SLOUGH

- A. Review Final Cost from ASTA Construction.

EXHIBIT A: Progress Payment No 1 and 11/30/24 Invoice from ASTA Construction.

EXHIBIT B: Settlement Monitoring summary as of 12/9/24.

II. PROJECT FUNDING AGREEMENT TW – 24 - 1.0 SP – PHASE I – SETBACK LEVEE SAN JOAQUIN RIVER

- A. We received comments from CDFW on 10/31/2024 regarding our Scope of Work submitted on 8/24/2024.

EXHIBIT C: CDFW comments as of 10/31/24.

- B. We received comments from DWR on 12/5/2024 regarding our Scope of Work submitted on 8/24/2024.

EXHIBIT D: DWR comments as of 12/05/24.

- C. Generally, review project progress.

III. DISTRICT PUMP STATION SOLAR ARRAY

- A. Review proposal from Eide Bailly that KSN Inc. and Barry Sgarrella are recommending the District hire to assist and advise the District in seeking and acquiring the potential Federal credits. **Seek the Board of Trustees Authority to accept the scope of services** and then contract accordingly for the estimated fee shown in the attached proposal.

EXHIBIT E: Eide Bailly Scope and Fee dated November 26, 2024.

- B. Review Progress Payment No. 1 to Panelized Structures Inc.

EXHIBIT F: Progress Payment No 1 dated 12/09/24.

- C. Review Request for Proposal (RFP) and Change Order to Panelized Structures Inc.'s contract to account for saturated foundation conditions prior to placement of aggregate base surfacing.

EXHIBIT G: RFP dated 12/09/24.

EXHIBIT H: Proposal dated 12/10/24.

- D. Barry Sgarrella, Ch. Still working with PG&E to see if they will accept the more appropriately sized 500-kVA transformer.
- E. Precision Build USA (structural engineer) is currently "on hold" to design an elevated steel platform to raise the transformer above the 100-yr floodplain.
- F. ENGEO, the District's Geotechnical Engineer, has conducted a single CPT at proposed site to support the platform foundation design.
- G. The District's Electrical Engineer Cecil & Cecil is still in the process of revising design to relocate the meter panel and new main disconnect to the new platform.
- H. The Sacramento County Building Permit has been acquired.
- I. Awaiting approval on electrical plan updates in response to Sacramento County review.

EXHIBIT A



Transmittal

711 N. Pershing Avenue, Stockton, CA 95203

PROJECT: Twitchell - Emergency Sinkhole Repair at Sta 60+00 1110-1090 DATE: 12/11/2024

SUBJECT: Asta Construction invoice for emergency work TRANSMITTAL ID: 00002

PURPOSE: For your approval VIA: Info Exchange

FROM

NAME	COMPANY	EMAIL	PHONE
Erik Almaas 711 N. Pershing Avenue Stockton, CA 95203	KSN, Inc.	ealmaas@ksninc.com	209 946-0268

TO

NAME	COMPANY	EMAIL	PHONE
Perla Tzintzun-Garibay	Butterfield + Co.	perla@butterfieldcpas.com	

REMARKS: Perla,

Please click on the link below to download Invoice No. 6386 for emergency work performed by Asta Construction from 10/9/2024 to 11/5/2024. The invoice was submitted by the Contractor to KSN on 11/27/2024. KSN has reviewed and found the invoice to be in compliance with the Contract Documents and hereby recommends approval and payment by Reclamation District No. 1601 in the amount of **\$338,728.45**.

Please let me know if you have any questions. Thank you.

DESCRIPTION OF CONTENTS

QTY	DATED	TITLE	NOTES
1	12/2/2024	241130_RD 1601_Asta Invoice 6386.pdf	

COPIES:

Chris Neudeck (KSN, Inc.)
Erik Almaas (KSN, Inc.)

1	Mobilization	LS	1.00	\$7,834.00	\$7,834.00	1.00	\$7,228.17	\$7,228.17
2	5-Man Crew (M-F / 7-5)	DAY	7.00	\$8,820.00	\$61,740.00	11.00	\$10,404.27	\$114,447.00
3	Furnish Concrete Sand	TON	700.00	\$56.00	\$39,200.00	1,524.51	\$51.89	\$79,114.27
4	Furnish 1" Crushed Rock	TON	1,500.00	\$57.50	\$86,250.00	1,351.84	\$55.81	\$75,439.51
5	Furnish Mirafi FW700	ROLL	5.00	\$1,405.00	\$7,025.00	10.00	\$1,165.96	\$11,659.59
6	Offhaul	LOAD	4.00	\$866.00	\$3,464.00	15.00	\$251.16	\$3,767.40
					\$205,513.00			\$291,655.93
7	Dozer Mobilization / Standby	LS	1.00			1.00	\$2,176.00	\$2,176.00
8	Furnish & Place Imported Fill	CY				796.00	\$42.08	\$33,492.65
9	Furnish AB	TON				194.87	\$58.52	\$11,403.87
					\$0.00			\$47,072.52
								\$338,728.45



1090 ST. FRANCIS WAY
 P.O. BOX 758
 RIO VISTA, CALIFORNIA 94571-0758
 TELEPHONE (707) 374-6472
 FAX (707) 374-6888

RD#1601 TWITCHELL ISLAND
 C/O KSN, INC.
 711 PERSHING AVENUE
 STOCKTON CA 95203

INVOICE #: 6386
 DATE: 11/30/2024
 PO #: 1601-10-16-24-02

CUSTOMER #	TERMS:	JOB #
3053	NET 30	16924

TICKET DATE	TICKET NO.	DESCRIPTION	QTY	U/M	UNIT PRICE	EXTENDED \$
		EMERGENCY SINKHOLE REPAIR AT STATION 60+00 CONTRACT NO. 1601-10-16-24-02 PER ATTACHED DETAIL	1.00	LS	338728.450	338,728.45

RETAINAGE .00
 SUBTOTAL 338,728.45
 SALES TAX .00

TOTAL AMOUNT 338,728.45
 INV AMOUNT + RETAINAGE 338,728.45

Reclamation District No. 1601 - Twitchell Island

Emergency Sinkhole Repair at Station 60+00

Contract Number 1601-10-16-24-02



Kjeldsen, Sinnock & Neudeck, Inc.
711 North Pershing Avenue
Stockton, CA 95203-2152

T&M Summary

Labor/Equipment Cost Summary

<u>Date</u>	<u>Category</u>	<u>Cost Code</u>	<u>ST-Hrs.</u>	<u>OT-Hrs.</u>	<u>DT-Hrs.</u>	<u>ST-Rate</u>	<u>OT-Rate</u>	<u>DT-Rate</u>	<u>Cost</u>
October 9, 2024	Teamster - OT (Tag No. 71695)	3086		2			\$128.50		\$257.00
October 9, 2024	Teamster - DT	3086			0.5			\$158.50	\$79.25
October 9, 2024	Lowbed Transport	57191	2.5			\$109.50			\$273.75
October 10, 2024	Operator	7137	8			\$127.00			\$1,016.00
October 10, 2024	Utility Truck	51098	8			\$37.00			\$296.00
October 10, 2024	Cat DSM LGP Dozer	25329	8			\$108.00			\$864.00
October 14, 2024	Foreman - OT	7138		4			\$188.50		\$754.00
October 14, 2024	Foreman - DT	7138			2.5			\$234.50	\$586.25
October 14, 2024	Pickup	51105	6.5			\$30.50			\$198.25
October 14, 2024	Cat DSM LGP Dozer	25329	6.5			\$108.00			\$702.00
October 14, 2024	Teamster (Tag No. 71901)	3086	6.5			\$98.00			\$637.00
October 14, 2024	Transfer	57145	6.5			\$76.50			\$497.25
October 14, 2024	Teamster - OT (Tag No. 71112)	3083		3			\$127.50		\$382.50
October 14, 2024	Teamster - DT	3083			3.5			\$157.00	\$549.50
October 14, 2024	Transfer	57146	6.5			\$76.50			\$497.25
October 14, 2024	Fill Material (10 Loads)	CY	200			\$16.50			\$3,300.00
October 15, 2024	Teamster (Tag No. 71904)	3086	0.5			\$98.50			\$49.25
October 15, 2024	Teamster - OT	3086		2			\$128.50		\$257.00
October 15, 2024	Lowbed Transport	57191	2.5			\$109.50			\$273.75
October 15, 2024	Teamster - OT (Tag No. 71906)	3086		2			\$128.50		\$257.00
October 15, 2024	Teamster - DT	3086			1			\$158.50	\$158.50
October 15, 2024	Lowbed Transport	57191	3			\$109.50			\$328.50
October 15, 2024	Teamster - DT (Tag No. 71907)	3086			4.5			\$158.50	\$713.25
October 15, 2024	Lowbed Transport	57191	4.5			\$109.50			\$492.75
October 16, 2024	Foreman	7346	8			\$142.50			\$1,140.00
October 16, 2024	Foreman - OT	7346		4			\$188.50		\$754.00
October 16, 2024	Foreman - DT	7346			0.5			\$234.50	\$117.25
October 16, 2024	Pickup	51116	12			\$30.50			\$366.00
October 16, 2024	Operator	7331	8			\$127.00			\$1,016.00
October 16, 2024	Operator - OT	7331		4			\$171.00		\$684.00
October 16, 2024	Operator - DT	7331			0.5			\$215.00	\$107.50
October 16, 2024	Cat 314E Excavator	21507	12			\$113.50			\$1,362.00
October 16, 2024	Laborer	4152	8			\$95.50			\$764.00
October 16, 2024	Laborer - OT	4152		4			\$126.00		\$504.00
October 16, 2024	Laborer - DT	4152			0.5			\$156.50	\$78.25
October 16, 2024	Laborer	4150	8			\$95.50			\$764.00
October 16, 2024	Laborer - OT	4150		4			\$126.00		\$504.00
October 16, 2024	Laborer	4113	8			\$95.50			\$764.00
October 16, 2024	Laborer - OT	4113		4			\$126.00		\$504.00
October 16, 2024	Cat 415F Skiploader	21407	4			\$61.00			\$244.00
October 16, 2024	2k Gallon Water Truck	57130	4			\$68.50			\$274.00
October 16, 2024	Cat DSM LGP Dozer	25329	4			\$108.00			\$432.00
October 16, 2024	5cy Dump Truck	57144	12			\$68.50			\$822.00
October 16, 2024	Cat 303.5E2 Excavator	21509	4			\$50.00			\$200.00
October 16, 2024	10-Wheel Dump Truck	57146	8			\$76.50			\$612.00
October 17, 2024	Foreman	7346	8			\$142.50			\$1,140.00
October 17, 2024	Foreman - OT	7346		2			\$188.50		\$377.00
October 17, 2024	Pickup	51116	8			\$30.50			\$244.00
October 17, 2024	Cat 415F Skiploader	21407	5			\$61.00			\$305.00
October 17, 2024	Operator	7331	8			\$127.00			\$1,016.00

October 17, 2024	Operator - OT	7331		2		\$171.00	\$342.00
October 17, 2024	Cat 314E Excavator	21507	5		\$113.50		\$567.50
October 17, 2024	Cat D5M LGP Dozer	25329	5		\$108.00		\$540.00
October 17, 2024	Laborer	4152	8		\$95.50		\$764.00
October 17, 2024	Laborer - OT	4152		2		\$126.00	\$252.00
October 17, 2024	10-Wheel Dump Truck	57146	10		\$76.50		\$765.00
October 17, 2024	Laborer	4150	8		\$95.50		\$764.00
October 17, 2024	Laborer - OT	4150		2		\$126.00	\$252.00
October 17, 2024	Scy Dump Truck	57144	10		\$68.50		\$685.00
October 17, 2024	Laborer	4113	8		\$95.50		\$764.00
October 17, 2024	Laborer - OT	4113		2		\$126.00	\$252.00
October 17, 2024	2k Gallon Water Truck	57130	10		\$68.50		\$685.00
October 18, 2024	Foreman	7346	8		\$142.50		\$1,140.00
October 18, 2024	Foreman - OT	7346		2		\$188.50	\$377.00
October 18, 2024	Pickup	51116	8		\$30.50		\$244.00
October 18, 2024	Cat 415F Skiploader	21407	5		\$61.00		\$305.00
October 18, 2024	Operator	7342	8		\$127.00		\$1,016.00
October 18, 2024	Operator - OT	7342		2		\$171.00	\$342.00
October 18, 2024	Cat 314E Excavator	21507	5		\$113.50		\$567.50
October 18, 2024	Cat D5M LGP Dozer	25329	5		\$108.00		\$540.00
October 18, 2024	Laborer	4152	8		\$95.50		\$764.00
October 18, 2024	Laborer - OT	4152		2		\$126.00	\$252.00
October 18, 2024	10-Wheel Dump Truck	57146	10		\$76.50		\$765.00
October 18, 2024	Laborer	4150	8		\$95.50		\$764.00
October 18, 2024	Laborer - OT	4150		2		\$126.00	\$252.00
October 18, 2024	10-Wheel Dump Truck	57144	10		\$76.50		\$765.00
October 18, 2024	Laborer	4113	8		\$95.50		\$764.00
October 18, 2024	Laborer - OT	4113		2		\$126.00	\$252.00
October 18, 2024	2k Gallon Water Truck	57130	10		\$68.50		\$685.00
October 19, 2024	Foreman - OT	7346		8		\$188.50	\$1,508.00
October 19, 2024	Pickup	51116	8		\$30.50		\$244.00
October 19, 2024	Cat 415F Skiploader	21407	4		\$61.00		\$244.00
October 19, 2024	Operator - OT	7331		8		\$171.00	\$1,368.00
October 19, 2024	Cat 314E Excavator	21507	4		\$113.50		\$454.00
October 19, 2024	Cat D5M LGP Dozer	25329	4		\$108.00		\$432.00
October 19, 2024	Laborer - OT	4152		8		\$126.00	\$1,008.00
October 19, 2024	10-Wheel Dump Truck	57146	8		\$76.50		\$612.00
October 19, 2024	Laborer - OT	4150		8		\$126.00	\$1,008.00
October 19, 2024	10-Wheel Dump Truck	57144	8		\$76.50		\$612.00
October 19, 2024	Laborer - OT	4113		8		\$126.00	\$1,008.00
October 19, 2024	2k Gallon Water Truck	57130	8		\$68.50		\$548.00
October 19, 2024	Teamster - OT	3081		8		\$127.50	\$1,020.00
October 19, 2024	10-Wheel Dump Truck	57145	8		\$76.50		\$612.00
October 21, 2024	Foreman	7346	8		\$142.50		\$1,140.00
October 21, 2024	Foreman - OT	7346		1.5		\$188.50	\$282.75
October 21, 2024	Pickup	51116	8		\$30.50		\$244.00
October 21, 2024	Cat 415F Skiploader	21407	4		\$61.00		\$244.00
October 21, 2024	Operator	7331	8		\$127.00		\$1,016.00
October 21, 2024	Operator - OT	7331		1.5		\$171.00	\$256.50
October 21, 2024	Cat 314E Excavator	21507	5		\$113.50		\$567.50
October 21, 2024	Cat D5M LGP Dozer	25329	4		\$108.00		\$432.00
October 21, 2024	Laborer	4152	8		\$95.50		\$764.00
October 21, 2024	Laborer - OT	4152		1		\$126.00	\$126.00
October 21, 2024	10-Wheel Dump Truck	57146	9		\$76.50		\$688.50
October 21, 2024	Laborer	4150	8		\$95.50		\$764.00
October 21, 2024	Laborer - OT	4150		1		\$126.00	\$126.00
October 21, 2024	10-Wheel Dump Truck	57144	9		\$76.50		\$688.50
October 21, 2024	Laborer	4113	8		\$95.50		\$764.00
October 21, 2024	Laborer - OT	4113		1		\$126.00	\$126.00
October 21, 2024	2k Gallon Water Truck	57130	9		\$68.50		\$616.50
October 21, 2024	Teamster	3081	8		\$98.00		\$784.00
October 21, 2024	Teamster - OT	3081		1		\$127.50	\$127.50
October 21, 2024	10-Wheel Dump Truck	57145	9		\$76.50		\$688.50

October 22, 2024	Foreman	7346	8		\$142.50		\$1,140.00
October 22, 2024	Foreman - OT	7346		3		\$188.50	\$565.50
October 22, 2024	Pickup	51116	8		\$30.50		\$244.00
October 22, 2024	Cat 415F Skiploader	21407	6		\$61.00		\$366.00
October 22, 2024	Operator	7331	8		\$127.00		\$1,016.00
October 22, 2024	Operator - OT	7331		3		\$171.00	\$513.00
October 22, 2024	Cat 314E Excavator	21507	7		\$113.50		\$794.50
October 22, 2024	Cat D5M LGP Dozer	25329	4		\$108.00		\$432.00
October 22, 2024	Laborer	4152	8		\$95.50		\$764.00
October 22, 2024	Laborer - OT	4152		2		\$126.00	\$252.00
October 22, 2024	2k Gallon Water Truck	57130	10		\$68.50		\$685.00
October 22, 2024	Laborer	4150	8		\$95.50		\$764.00
October 22, 2024	Laborer - OT	4150		2		\$126.00	\$252.00
October 22, 2024	10-Wheel Dump Truck	57144	10		\$76.50		\$765.00
October 22, 2024	Teamster	3081	8		\$98.00		\$784.00
October 22, 2024	Teamster - OT	3081		1		\$127.50	\$127.50
October 22, 2024	10-Wheel Dump Truck	57145	9		\$76.50		\$688.50
October 22, 2024	Teamster	3083	8		\$98.00		\$784.00
October 22, 2024	Teamster - OT	3083		1		\$127.50	\$127.50
October 22, 2024	10-Wheel Dump Truck	57146	9		\$76.50		\$688.50
October 28, 2024	Foreman	7346	8		\$142.50		\$1,140.00
October 28, 2024	Foreman - OT	7346		2		\$188.50	\$377.00
October 28, 2024	Pickup	51116	8		\$30.50		\$244.00
October 28, 2024	Cat D5M LGP Dozer	25329	2		\$108.00		\$216.00
October 28, 2024	Operator	7331	8		\$127.00		\$1,016.00
October 28, 2024	Operator - OT	7331		2		\$171.00	\$342.00
October 28, 2024	Cat 314E Excavator	21507	10		\$113.50		\$1,135.00
October 28, 2024	Laborer	4152	8		\$95.50		\$764.00
October 28, 2024	Laborer - OT	4152		2		\$126.00	\$252.00
October 28, 2024	4k Gallon Water Truck	57132	10		\$76.50		\$765.00
October 28, 2024	Teamster	3081	8		\$98.00		\$784.00
October 28, 2024	Teamster - OT	3081		3		\$127.50	\$382.50
October 28, 2024	10-Wheel Dump Truck	57145	11		\$76.50		\$841.50
October 28, 2024	Teamster	3083	8		\$98.00		\$784.00
October 28, 2024	Teamster - OT	3083		2.5		\$127.50	\$318.75
October 28, 2024	10-Wheel Dump Truck	57146	10.5		\$76.50		\$803.25
October 29, 2024	Foreman	7346	8		\$142.50		\$1,140.00
October 29, 2024	Foreman - OT	7346		3		\$188.50	\$565.50
October 29, 2024	Pickup	51116	8		\$30.50		\$244.00
October 29, 2024	Cat D5M LGP Dozer	25329	3		\$108.00		\$324.00
October 29, 2024	Operator	7331	8		\$127.00		\$1,016.00
October 29, 2024	Operator - OT	7331		3		\$171.00	\$513.00
October 29, 2024	Cat 314E Excavator	21507	11		\$113.50		\$1,248.50
October 29, 2024	Laborer	4152	8		\$95.50		\$764.00
October 29, 2024	Laborer - OT	4152		3		\$126.00	\$378.00
October 29, 2024	4k Gallon Water Truck	57132	11		\$76.50		\$841.50
October 29, 2024	Teamster	3081	8		\$98.00		\$784.00
October 29, 2024	Teamster - OT	3081		3.5		\$127.50	\$446.25
October 29, 2024	10-Wheel Dump Truck	57145	11.5		\$76.50		\$879.75
October 29, 2024	Teamster	3083	8		\$98.00		\$784.00
October 29, 2024	Teamster - OT	3083		3		\$127.50	\$382.50
October 29, 2024	10-Wheel Dump Truck	57146	11		\$76.50		\$841.50
October 30, 2024	Foreman	7346	8		\$142.50		\$1,140.00
October 30, 2024	Foreman - OT	7346		3		\$188.50	\$565.50
October 30, 2024	Pickup	51116	8		\$30.50		\$244.00
October 30, 2024	Cat 415F Skiploader	21407	3		\$61.00		\$183.00
October 30, 2024	Operator	7331	8		\$127.00		\$1,016.00
October 30, 2024	Operator - OT	7331		3		\$171.00	\$513.00
October 30, 2024	Cat 314E Excavator	21507	5		\$113.50		\$567.50
October 30, 2024	Cat D5M LGP Dozer	25329	3		\$108.00		\$324.00
October 30, 2024	Laborer	4152	8		\$95.50		\$764.00
October 30, 2024	Laborer - OT	4152		3		\$126.00	\$378.00
October 30, 2024	4k Gallon Water Truck	57132	11		\$76.50		\$841.50
October 30, 2024	Teamster	3091	8		\$98.00		\$784.00

October 30, 2024	Teamster - OT	3091		4		\$127.50	\$510.00
October 30, 2024	10-Wheel Dump Truck	57145	12		\$76.50		\$918.00
October 30, 2024	Teamster	3083	8		\$98.00		\$784.00
October 30, 2024	Teamster - OT	3083		4		\$127.50	\$510.00
October 30, 2024	10-Wheel Dump Truck	57146	12		\$76.50		\$918.00
October 31, 2024	Foreman	7346	8		\$142.50		\$1,140.00
October 31, 2024	Foreman - OT	7346		2		\$188.50	\$377.00
October 31, 2024	Pickup	51116	8		\$30.50		\$244.00
October 31, 2024	Cat 330CR Excavator	21515	2		\$189.00		\$378.00
October 31, 2024	Operator	7300	8		\$127.00		\$1,016.00
October 31, 2024	Operator - OT	7300		2		\$171.00	\$342.00
October 31, 2024	Cat DSM LGP Dozer	25329	8		\$108.00		\$864.00
October 31, 2024	Laborer	4152	8		\$95.50		\$764.00
October 31, 2024	Laborer - OT	4152		2		\$126.00	\$252.00
October 31, 2024	4k Gallon Water Truck	57132	10		\$76.50		\$765.00
October 31, 2024	Teamster	3091	8		\$98.00		\$784.00
October 31, 2024	Teamster - OT	3091		3		\$127.50	\$382.50
October 31, 2024	10-Wheel Dump Truck	57145	11		\$76.50		\$841.50
October 31, 2024	Teamster	3083	8		\$98.00		\$784.00
October 31, 2024	Teamster - OT	3083		3		\$127.50	\$382.50
October 31, 2024	10-Wheel Dump Truck	57146	11		\$76.50		\$841.50
October 31, 2024	Teamster (Tag No. 71711)	3086	2.5		\$98.50		\$246.25
October 31, 2024	Lowbed Transport	57191	2.5		\$109.50		\$273.75
November 1, 2024	Foreman	7346	8		\$142.50		\$1,140.00
November 1, 2024	Foreman - OT	7346		3.5		\$188.50	\$659.75
November 1, 2024	Pickup	51116	8		\$30.50		\$244.00
November 1, 2024	Cat 330CR Excavator	21515	2		\$189.00		\$378.00
November 1, 2024	Cat 415F Skiploader	21407	4		\$61.00		\$244.00
November 1, 2024	Operator	7300	8		\$127.00		\$1,016.00
November 1, 2024	Operator - OT	7300		3		\$171.00	\$513.00
November 1, 2024	Cat DSM LGP Dozer	25329	8		\$108.00		\$864.00
November 1, 2024	Operator	7343	8		\$129.00		\$1,032.00
November 1, 2024	Operator - OT	7343		3		\$174.00	\$522.00
November 1, 2024	Cat 314E Excavator	21507	8		\$113.50		\$908.00
November 1, 2024	Cat 330CR Excavator	21515	3		\$189.00		\$567.00
November 1, 2024	Laborer	4152	8		\$95.50		\$764.00
November 1, 2024	Laborer - OT	4152		3		\$126.00	\$378.00
November 1, 2024	2k Gallon Water Truck	57130	11		\$68.50		\$753.50
November 1, 2024	Teamster	3091	8		\$98.00		\$784.00
November 1, 2024	Teamster - OT	3091		2		\$127.50	\$255.00
November 1, 2024	Semi-Bottom Tractor	57189	10		\$76.50		\$765.00
November 1, 2024	Fill Material (30 Loads)	CY	596		\$16.50		\$9,834.00
November 1, 2024	Teamster - OT (Tag No. 71720)	3086		2.5		\$128.50	\$321.25
November 1, 2024	Lowbed Transport	57191	2.5		\$109.50		\$273.75
November 1, 2024	Teamster - OT (Tag No. 71721)	3086		0.5		\$128.50	\$64.25
November 1, 2024	Teamster - DT	3086		2		\$158.50	\$317.00
November 1, 2024	Lowbed Transport	57191	2.5		\$109.50		\$273.75
November 2, 2024	Foreman - OT	7346		8		\$188.50	\$1,508.00
November 2, 2024	Pickup	51116	8		\$30.50		\$244.00
November 2, 2024	Operator - OT	7300		8		\$177.50	\$1,420.00
November 2, 2024	Cat 140H Blade	24311	6		\$109.50		\$657.00
November 2, 2024	Cat CS56 Smooth Drum Roller	78408	2		\$98.50		\$197.00
November 2, 2024	Laborer - OT	4152		8		\$126.00	\$1,008.00
November 2, 2024	2k Gallon Water Truck	57130	8		\$68.50		\$548.00
November 2, 2024	Teamster - OT (Tag No. 71723)	3086		2.5		\$128.50	\$321.25
November 2, 2024	Lowbed Transport	57191	2.5		\$109.50		\$273.75
November 2, 2024	Teamster - OT (Tag No. 71724)	3086		2.5		\$128.50	\$321.25
November 2, 2024	Lowbed Transport	57191	2.5		\$109.50		\$273.75
November 8, 2024	Teamster (Tag No. 71739)	3086	2.5		\$98.50		\$246.25
November 8, 2024	Lowbed Transport	71739	2.5		\$109.50		\$273.75

Labor/Equipment Total: \$150,938.50 (A)

Materials/Misc. Cost Summary

<u>Date</u>	<u>Category</u>	<u>Description</u>	<u>Unit</u>	<u>Unit Rate</u>	<u>Quantity</u>	<u>Cost</u>
October 16, 2024	FTG Construction Materials, Inc.	Trucking - Mega Dumps (Inv. #1010859)	LS	\$9,512.00	1	\$9,512.00
October 16, 2024	Teichert Aggregates	Concrete Sand - 312.46 Tons (Inv. #10689929)	LS	\$5,842.46	1	\$5,842.46
October 16, 2024	Teichert Aggregates	Concrete Sand - 76.61 Tons (Inv. #10689930)	LS	\$1,433.39	1	\$1,433.39
October 16, 2024	FTG Construction Materials, Inc.	Trucking - Mega Dumps (Inv. #1010934)	LS	\$5,800.00	1	\$5,800.00
October 16, 2024	George Reed, Inc.	Ballast 1" (#5) - 188.46 Tons (Inv. #100347974)	LS	\$3,813.74	1	\$3,813.74
October 17, 2024	FTG Construction Materials, Inc.	Trucking - Mega Dumps (Inv. #1010860)	LS	\$5,191.00	1	\$5,191.00
October 17, 2024	Teichert Aggregates	Concrete Sand - 169.90 Tons (Inv. #10690313)	LS	\$3,180.37	1	\$3,180.37
October 17, 2024	FTG Construction Materials, Inc.	Trucking - Mega Dumps (Inv. #1010935)	LS	\$10,628.50	1	\$10,628.50
October 17, 2024	George Reed, Inc.	Ballast 1" (#5) - 403.61 Tons (Inv. #100348120)	LS	\$8,163.15	1	\$8,163.15
October 17, 2024	White Cap, L.P.	Stabilization Fabric + Geogrid (Inv. #50028793960)	LS	\$10,138.77	1	\$10,138.77
October 18, 2024	FTG Construction Materials, Inc.	Trucking - Mega Dumps (Inv. #1010932)	LS	\$15,863.00	1	\$15,863.00
October 18, 2024	Teichert Aggregates	Concrete Sand - 585.09 Tons (Inv. #10690652)	LS	\$10,952.42	1	\$10,952.42
October 18, 2024	FTG Construction Materials, Inc.	Trucking - Mega Dumps (Inv. #1010936)	LS	\$16,051.50	1	\$16,051.50
October 18, 2024	George Reed, Inc.	Ballast 1" (#5) - 570.02 Tons (Inv. #100348301)	LS	\$11,532.54	1	\$11,532.54
October 18, 2024	FTG Construction Materials, Inc.	Onsite Trucking - 10 Wheeler (Inv. #1010161)	LS	\$1,765.00	1	\$1,765.00
October 19, 2024	United Site Services	Restroom + Cleaning Service (Inv. #4872356)	LS	\$528.84	1	\$528.84
October 21, 2024	FTG Construction Materials, Inc.	Trucking - Mega Dumps (Inv. #1011001)	LS	\$9,700.50	1	\$9,700.50
October 21, 2024	Teichert Aggregates	Concrete Sand - 380.45 Tons (Inv. #10691061)	LS	\$7,119.88	1	\$7,119.88
October 21, 2024	FTG Construction Materials, Inc.	Trucking - Mega Dumps (Inv. #1011002)	LS	\$5,771.00	1	\$5,771.00
October 21, 2024	George Reed, Inc.	Ballast 1" (#5) - 189.75 Tons (Inv. #100348458)	LS	\$3,839.14	1	\$3,839.14
November 1, 2024	FTG Construction Materials, Inc.	Import/Offhaul Trucking - Doubles (Inv. #1010857)	LS	\$6,552.00	1	\$6,552.00
November 2, 2024	FTG Construction Materials, Inc.	3/4" AB + Trucking - Doubles (Inv. #1010868)	LS	\$5,693.71	1	\$5,693.71
November 5, 2024	California Compaction	Rental - Cat Pad Drum Compactor (Inv. #24-13927)	LS	\$4,222.70	1	\$4,222.70

Sub-Total: \$163,295.61
 15% Mark-up: \$24,494.34
 Materials/Misc. Total: \$187,789.95 (B)

Total: \$338,728.45 (A+B)

Approved: *Just Flannery* - Project Manager

Date: November 30, 2024

Reclamation District No. 1601 - Twitchell Island
Emergency Sinkhole Repair at Station 60+00
Contract Number 1601-10-16-24-02



Kjeldsen, Sinnock & Neudeck, Inc.
 711 North Pershing Avenue
 Stockton, CA 95203-2152

Import Fill Material

<u>Date:</u>	<u>Load Number:</u>	<u>Tag Number:</u>	<u>Qty Per Load:</u>	<u>Total Qty:</u>
October 14, 2024	1	37269	20	
October 14, 2024	2	37270	20	
October 14, 2024	3	37271	20	
October 14, 2024	4	37272	20	
October 14, 2024	5	37273	20	
October 14, 2024	6	37274	20	
October 14, 2024	7	37275	20	
October 14, 2024	8	37276	20	
October 14, 2024	9	37277	20	
October 14, 2024	10	37278	<u>20</u>	
			200	200 CY

Concrete Sand

<u>Date:</u>	<u>Load Number:</u>	<u>Tag Number:</u>	<u>Qty Per Load:</u>	<u>Total Qty:</u>
October 16, 2024	1	438203	20.01	
October 16, 2024	2	438211	19.07	
October 16, 2024	3	438215	19.66	
October 16, 2024	4	438220	19.17	
October 16, 2024	5	438222	20.37	
October 16, 2024	6	438225	18.55	
October 16, 2024	7	438238	19.08	
October 16, 2024	8	438239	19.39	
October 16, 2024	9	438240	18.25	
October 16, 2024	10	438244	18.48	
October 16, 2024	11	438501	20.08	
October 16, 2024	12	438508	20.65	
October 16, 2024	13	438517	19.54	
October 16, 2024	14	438518	20.82	

October 16, 2024	15	438534	19.45	
October 16, 2024	16	438537	19.89	
October 16, 2024	17	438543	19.37	
October 16, 2024	18	438544	17.78	
October 16, 2024	19	438547	20.04	
October 16, 2024	20	438552	<u>19.42</u>	
			389.07	389.07 Tons

Ballast 1" (#5)

<u>Date:</u>	<u>Load Number:</u>	<u>Tag Number:</u>	<u>Qty Per Load:</u>	<u>Total Qty:</u>
October 16, 2024	1	53647544	20.08	
October 16, 2024	2	53647546	19.51	
October 16, 2024	3	53647547	20.03	
October 16, 2024	4	53647549	19.17	
October 16, 2024	5	53647551	18.12	
October 16, 2024	6	53647553	17.72	
October 16, 2024	7	53647562	18.48	
October 16, 2024	8	53647564	18.69	
October 16, 2024	9	53647567	18.56	
October 16, 2024	10	53647569	<u>18.10</u>	
			188.46	188.46 Tons

Concrete Sand

<u>Date:</u>	<u>Load Number:</u>	<u>Tag Number:</u>	<u>Qty Per Load:</u>	<u>Total Qty:</u>
October 17, 2024	1	439714	19.71	
October 17, 2024	2	439726	19.98	
October 17, 2024	3	439790	19.14	
October 17, 2024	4	439794	18.03	
October 17, 2024	5	439795	19.21	
October 17, 2024	6	439796	19.92	
October 17, 2024	7	439798	17.84	
October 17, 2024	8	439799	18.30	
October 17, 2024	9	439801	<u>17.77</u>	
			169.90	558.97 Tons

Ballast 1" (#5)

<u>Date:</u>	<u>Load Number:</u>	<u>Tag Number:</u>	<u>Qty Per Load:</u>	<u>Total Qty:</u>
October 17, 2024	1	53647603	20.24	

October 17, 2024	2	53647606	20.34
October 17, 2024	3	53647607	20.09
October 17, 2024	4	53647610	20.11
October 17, 2024	5	53647613	20.14
October 17, 2024	6	53647614	19.48
October 17, 2024	7	53647617	19.73
October 17, 2024	8	53647619	19.51
October 17, 2024	9	53647669	18.62
October 17, 2024	10	53647670	18.39
October 17, 2024	11	53647766	19.85
October 17, 2024	12	53647801	19.73
October 17, 2024	13	53647807	18.71
October 17, 2024	14	53647810	17.97
October 17, 2024	15	53647812	18.25
October 17, 2024	16	53647813	17.93
October 17, 2024	17	53647816	19.18
October 17, 2024	18	53647834	19.03
October 17, 2024	19	53647837	18.61
October 17, 2024	20	53647838	18.52
October 17, 2024	21	53648006	<u>19.18</u>
			403.61

592.07 Tons

Concrete Sand

<u>Date:</u>	<u>Load Number:</u>	<u>Tag Number:</u>	<u>Qty Per Load:</u>	<u>Total Qty:</u>
October 18, 2024	1	440022	18.83	
October 18, 2024	2	440030	19.20	
October 18, 2024	3	440033	18.84	
October 18, 2024	4	440052	17.89	
October 18, 2024	5	440069	19.64	
October 18, 2024	6	440080	18.40	
October 18, 2024	7	440085	18.14	
October 18, 2024	8	440115	18.76	
October 18, 2024	9	440133	18.16	
October 18, 2024	10	440167	18.47	
October 18, 2024	11	440314	20.13	
October 18, 2024	12	440320	20.42	
October 18, 2024	13	440325	20.08	
October 18, 2024	14	440332	17.07	

October 18, 2024	15	440343	19.53	
October 18, 2024	16	440407	18.66	
October 18, 2024	17	440432	18.19	
October 18, 2024	18	440449	18.86	
October 18, 2024	19	440452	17.47	
October 18, 2024	20	440509	21.02	
October 18, 2024	21	440574	17.08	
October 18, 2024	22	440610	18.92	
October 18, 2024	23	440613	19.20	
October 18, 2024	24	440614	18.11	
October 18, 2024	25	440622	19.88	
October 18, 2024	26	440675	18.55	
October 18, 2024	27	440679	18.12	
October 18, 2024	28	440680	19.92	
October 18, 2024	29	440689	18.32	
October 18, 2024	30	440697	21.16	
October 18, 2024	31	440702	<u>18.07</u>	
			585.09	1,144.06 Tons

Ballast 1" (#5)

<u>Date:</u>	<u>Load Number:</u>	<u>Tag Number:</u>	<u>Qty Per Load:</u>	<u>Total Qty:</u>
October 18, 2024	1	53648147	20.07	
October 18, 2024	2	53648152	19.48	
October 18, 2024	3	53648155	19.24	
October 18, 2024	4	53648156	19.27	
October 18, 2024	5	53648159	19.04	
October 18, 2024	6	53648163	17.97	
October 18, 2024	7	53648164	18.51	
October 18, 2024	8	53648169	18.82	
October 18, 2024	9	53648172	18.33	
October 18, 2024	10	53648177	18.09	
October 18, 2024	11	53648349	19.52	
October 18, 2024	12	53648351	19.22	
October 18, 2024	13	53648353	18.78	
October 18, 2024	14	53648355	19.20	
October 18, 2024	15	53648356	18.74	
October 18, 2024	16	53648359	19.17	
October 18, 2024	17	53648362	19.83	

October 18, 2024	18	53648365	18.05	
October 18, 2024	19	53648392	17.93	
October 18, 2024	20	53648394	18.50	
October 18, 2024	21	53648548	20.21	
October 18, 2024	22	53648549	19.04	
October 18, 2024	23	53648552	19.50	
October 18, 2024	24	53648553	19.19	
October 18, 2024	25	53648555	19.56	
October 18, 2024	26	53648557	18.97	
October 18, 2024	27	53648559	19.59	
October 18, 2024	28	53648597	19.09	
October 18, 2024	29	53648621	18.68	
October 18, 2024	30	53648624	<u>18.43</u>	
			570.02	1,162.09 Tons

Concrete Sand

<u>Date:</u>	<u>Load Number:</u>	<u>Tag Number:</u>	<u>Qty Per Load:</u>	<u>Total Qty:</u>
October 21, 2024	1	441064	20.43	
October 21, 2024	2	441078	19.73	
October 21, 2024	3	441081	17.20	
October 21, 2024	4	441082	18.03	
October 21, 2024	5	441083	18.14	
October 21, 2024	6	441084	17.10	
October 21, 2024	7	441085	19.09	
October 21, 2024	8	441095	17.19	
October 21, 2024	9	441145	20.01	
October 21, 2024	10	441156	18.80	
October 21, 2024	11	441255	21.21	
October 21, 2024	12	441268	19.40	
October 21, 2024	13	441269	19.34	
October 21, 2024	14	441272	17.38	
October 21, 2024	15	441273	19.44	
October 21, 2024	16	441277	19.83	
October 21, 2024	17	441280	19.49	
October 21, 2024	18	441296	19.69	
October 21, 2024	19	441301	19.22	
October 21, 2024	20	441304	<u>19.73</u>	
			380.45	1,524.51 Tons

Ballast 1" (#5)

<u>Date:</u>	<u>Load Number:</u>	<u>Tag Number:</u>	<u>Qty Per Load:</u>	<u>Total Qty:</u>
October 21, 2024	1	53648948	19.46	
October 21, 2024	2	53648949	19.95	
October 21, 2024	3	53648972	18.41	
October 21, 2024	4	53648997	18.59	
October 21, 2024	5	53648998	19.14	
October 21, 2024	6	53649001	19.24	
October 21, 2024	7	53649004	20.19	
October 21, 2024	8	53649006	18.96	
October 21, 2024	9	53649017	17.87	
October 21, 2024	10	53649021	17.94	
			189.75	1,351.84 Tons

3/4" Aggregate Base

<u>Date:</u>	<u>Load Number:</u>	<u>Tag Number:</u>	<u>Qty Per Load:</u>	<u>Total Qty:</u>
November 1, 2024	1	103647	24.62	
November 1, 2024	2	103649	25.23	
November 1, 2024	3	103650	24.98	
November 1, 2024	4	103652	23.11	
November 1, 2024	5	103654	24.94	
November 1, 2024	6	103655	24.54	
November 1, 2024	7	103656	23.95	
November 1, 2024	8	103657	23.50	
			194.87	194.87 Tons

Import Fill Material

<u>Date:</u>	<u>Load Number:</u>	<u>Tag Number:</u>	<u>Qty Per Load:</u>	<u>Total Qty:</u>
November 1, 2024	1	37451	20	
November 1, 2024	2	37452	20	
November 1, 2024	3	37453	20	
November 1, 2024	4	37454	20	
November 1, 2024	5	37456	20	
November 1, 2024	6	37457	20	
November 1, 2024	7	37458	20	
November 1, 2024	8	37459	20	
November 1, 2024	9	37460	20	

November 1, 2024	10	37461	20
November 1, 2024	11	37463	20
November 1, 2024	12	37464	20
November 1, 2024	13	37465	20
November 1, 2024	14	37466	20
November 1, 2024	15	37467	20
November 1, 2024	16	37468	20
November 1, 2024	17	37469	20
November 1, 2024	18	37470	20
November 1, 2024	19	37471	20
November 1, 2024	20	37473	20
November 1, 2024	21	37474	20
November 1, 2024	22	37475	20
November 1, 2024	23	37476	18
November 1, 2024	24	37477	20
November 1, 2024	25	37478	20
November 1, 2024	26	37479	20
November 1, 2024	27	37480	20
November 1, 2024	28	37481	20
November 1, 2024	29	37482	20
November 1, 2024	30	37483	<u>18</u>
			596

796 CY

EXHIBIT B

Christopher H. Neudeck

From: Erik E. Almaas
Sent: Monday, December 9, 2024 2:07 PM
To: Rick Carter, Jr. (reclamationdistrict1601@gmail.com); Christopher H. Neudeck; Cale Crawford (ccrawford@engeo.com); Rick D. Carter
Subject: Twitchell sinkhole repair - settlement monitoring as of 12/9/2024
Attachments: 241209_Exh_Monitoring Points.pdf

All,

Attached are the settlement monitoring measurements from today's survey. Point # 625 dropped about 1.5 inches from the 11/26/2024 survey, almost 5 inches overall.

Thanks.

From: Erik E. Almaas <ealmaas@ksninc.com>
Sent: Tuesday, December 3, 2024 7:06 AM
To: Rick Carter, Jr. (reclamationdistrict1601@gmail.com) <reclamationdistrict1601@gmail.com>; Christopher H. Neudeck <cneudeck@ksninc.com>; Cale Crawford (ccrawford@engeo.com) <ccrawford@engeo.com>; Rick D. Carter <rcarter@ksninc.com>
Subject: Twitchell sinkhole repair - settlement monitoring as of 11/26/2024

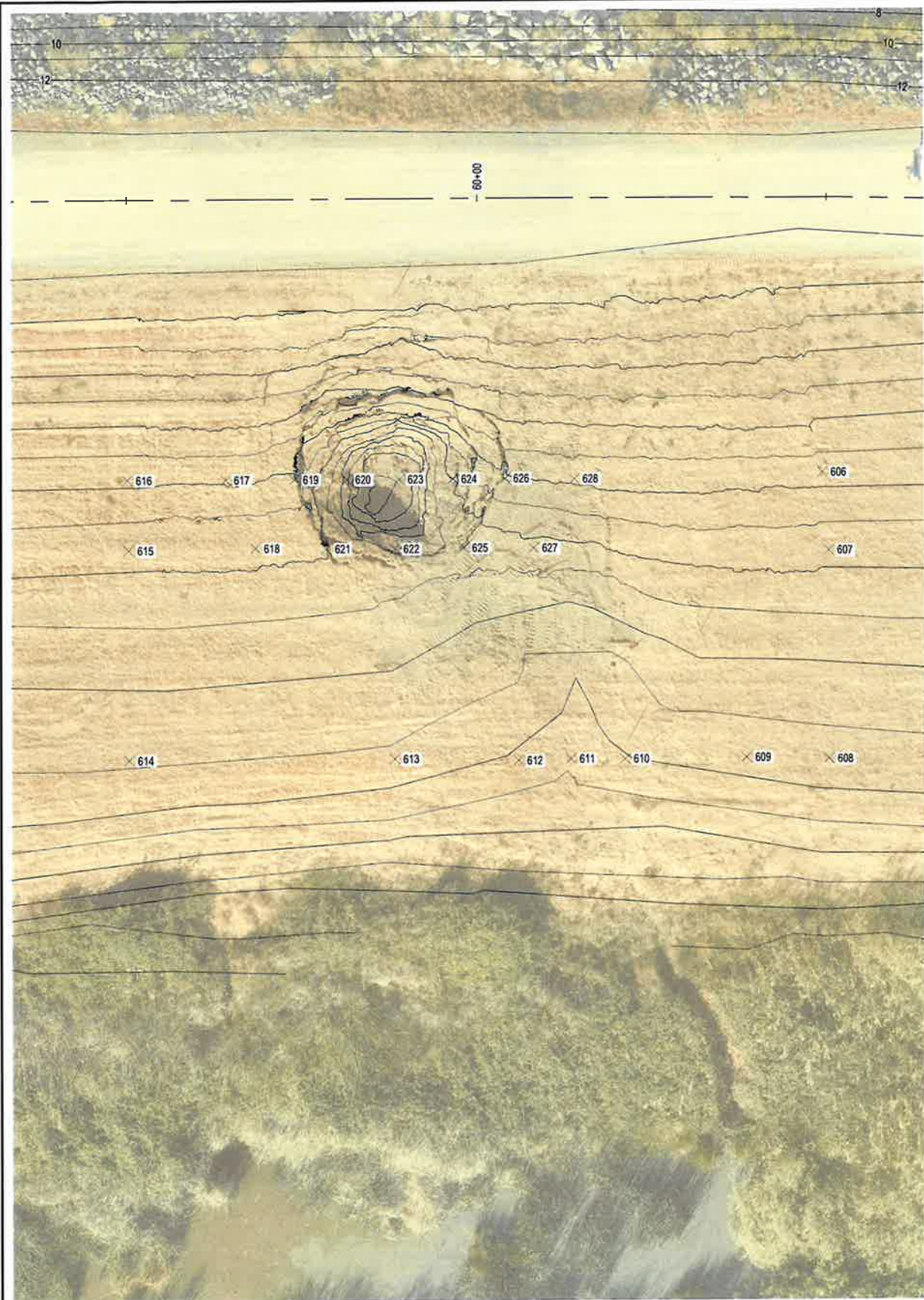
All,

Attached are the settlement monitoring measurements from last week's survey. Again, not much movement except for Point # 625 which dropped another inch from the previous week.

Please let me know if you have any questions.

Thanks.

FILE SPEC: P:\1110_twitchell_teland\1090_Sinkhole_Sta_60+00\08_Civil\400_Plans\020_CAD\Exhibits\Exh_Monitoring Points.dwg
 PLOT DATE: Dec 09, 2024 - 2:03pm



POINT NO.	INCREMENTAL ELEVATION CHANGE (FEET)										TOTAL ELEVATION CHANGE (FEET)	
	11/12/2024	11/20/2024	11/26/2024	12/9/2024								
606		(0.01)	0.01	(0.01)								(0.01)
607		0.00	0.00	(0.01)								(0.01)
608		(0.01)	0.00	(0.01)								(0.02)
609		(0.01)	0.00	(0.01)								(0.02)
610		(0.02)	0.00	(0.03)								(0.05)
611		(0.01)	0.00	(0.04)								(0.05)
612		(0.01)	(0.01)	(0.04)								(0.06)
613		(0.01)	0.00	(0.02)								(0.03)
614		(0.01)	0.00	(0.01)								(0.02)
615		(0.01)	0.02	(0.01)								0.00
616		0.00	0.00	(0.01)								(0.01)
617		0.00	0.00	(0.01)								(0.01)
618		0.00	0.00	(0.01)								(0.01)
619		(0.01)	0.00	(0.01)								(0.02)
620		(0.02)	(0.01)	(0.02)								(0.05)
621		(0.01)	(0.01)	(0.02)								(0.04)
622		(0.05)	(0.02)	(0.04)								(0.11)
623		(0.04)	(0.01)	(0.03)								(0.08)
624		(0.05)	(0.01)	(0.04)								(0.10)
625		(0.21)	(0.08)	(0.11)								(0.40)
626		(0.03)	(0.01)	(0.03)								(0.07)
627		(0.03)	(0.02)	(0.05)								(0.10)
628		(0.01)	(0.01)	(0.02)								(0.04)

NOTES:

1. MONITORING POINTS WERE SET AND INITIAL SURVEY WAS PERFORMED ON 11/12/2024.
2. THE INCREMENTAL ELEVATION CHANGE FOR EACH SURVEY DATE REPRESENTS THE VERTICAL DIFFERENCE SINCE THE PRIOR SURVEY.



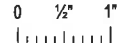
 NORTH ORIENTATION	 www.ksrinc.com	711 N. Pershing Avenue Stockton, CA 95203 209-946-0268 1550 Harbor Blvd., Suite 212 West Sacramento, CA 95691 916-403-5900	RECLAMATION DISTRICT NO. 1601 EMERGENCY SINKHOLE REPAIR AT STA 60+00 POST-CONSTRUCTION SETTLEMENT MONITORING SURVEY DATE: 12/9/2024		DRAWING SCALE 1" = 10' ORIGINAL DRAWING SCALE 0 1/2" 1" 	EXHIBIT NO. 1 PAGE NO. 1
--	---	---	--	--	---	---

EXHIBIT C

Christopher H. Neudeck

From: Taylor, Sara@Wildlife <Sara.Taylor@Wildlife.ca.gov>
Sent: Thursday, October 31, 2024 9:58 AM
To: Erik E. Almaas
Cc: Donovan, Saskia@DWR; Jafarnejad, Babak@DWR; Lobato, Andrea@DWR; Christopher H. Neudeck
Subject: Re: PWA No. TW-24-1.0-SP - Scope of Work

Some people who received this message don't often get email from sara.taylor@wildlife.ca.gov. [Learn why this is important](#)

CAUTION: This email originated from outside the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Hello Erik,

Thank you for sending the draft SOW for TW-24-1.0. I have completed my review and have put together comments which are below. Please let me know if you have any questions related to my comments. CDFW will be able to issue a SOW approval once requested changes have been made and comments have been addressed.

Thank you!

Sara M. Taylor (she/her)
Environmental Scientist (Botanist)
Delta Levees Program
Bay-Delta Region
2109 Arch Airport Road, Suite 100
Stockton, CA 95206
(209) 234-3446 (work cell)



CDFW SOW comments for TW-24-1.0

Page 6, Section 2 Project Description, Figure 2-2- Project Phases

- Please add cross section widths in the habitat areas for Phase 3, so that we can more clearly understand the scale.

Page 8, Section 2.2.2 Habitat Development, Phase 3-Channel Margin Habitat, Second Paragraph, Last Sentence “Planting will occur and be maintained for one year during the Habitat Establishment Period.”

- Based off of the PSP and PFA, CDFW is recommending a 1-year establishment period and 3 years of maintenance and monitoring for enhancement plantings. And we require the same 1-year establishment and 3 years of maintenance and monitoring for mitigation plantings. The sentence above should be changed to reflect this.

Page 8, Section 2.2.2 Habitat Development, Phase 3-Channel Margin Habitat, Fourth Paragraph, Last sentence “Using the final Phase 2 design, a final biddable set of plans for Phase 3 will be prepared for formal bid solicitation”

- Typically, a SOW includes a complete project description which CDFW reviews and approves. Because this SOW does not include complete plans for Phases 2 and 3, those plans will need to be submitted to and reviewed and approved by CDFW prior to their finalization. Please include a statement to this affect within the SOW.

Page 9, Section 3.1 Environmental Compliance

- Additional language needs to be added providing avoidance and minimization measures for special status plants and wildlife species, including birds/raptors, that may be encountered within and near the project site.

Page 9, Section 3.3 Habitat Impacts, First Paragraph “California Water Code §12314 specifies that no net loss of habitat shall occur. Any long-term and/or short-term and construction-related impacts resulting from the project have been mitigated.”

- The PFA requires mitigation to be developed, or bank credits purchased, if impacts occur to any AB360 program recognized habitat types. There should be a statement in this paragraph, or other appropriate location within the SOW, about the CDFW programmatic requirements (3:1 for RF, 2:1 for SS, 1:1 for FM)

Page 9, Section 3.3 Habitat Impacts, Second Paragraph, Second Sentence “The U.S. Army Corps of Engineers (USACE) determined that the overall San Joaquin River Setback Levee impacted freshwater emergent wetland and willow scrub wetland.”

- Please give an acreage estimate for the amount of RF, SS, and FM habitats and linear foot estimate for SRA habitat to be planted. Please also give an estimate of how much of each habitat type may be impacted due to project activities and mitigation owed. This will help determine if there will be enough of each habitat type planted to offset impacts while still providing enhancement/net gain of habitat. A statement should also be included that final impact and mitigation amounts will be determined by CDFW upon completion of the project and retention release will be approved upon successful mitigation of the project’s impacts to the satisfaction of CDFW.
- In another paragraph in this section, there should be a statement about the District providing CDFW with a habitat enhancement and mitigation planting and monitoring plan (this can be combined if mitigation will be incorporated into an area adjacent to the enhancement plantings) and CDFW reviewing and approving the plan (s).
- As required by the PFA, there should also be a statement that CDFW requires a mitigation establishment period of 1-year and a 3-year maintenance and monitoring period, with quarterly and annual reporting, and that CDFW recommends the same establishment, maintenance and monitoring periods for the enhancement plantings.
- Lastly, include a statement about success criteria and how the District will meet that criteria for mitigation and enhancement.

Page 9, Section 3.4 Habitat Benefits, First Paragraph, Second Sentence “The current 60 percent Phase 3 design for Reach 6 includes the creation of 9.1 acres of new habitat consisting of tule marsh, dense willow scrub, upland scrub, and mixed riparian.”

- This sentence should include an estimated acreage for each programmatic habitat type that will be part of the enhancement.

Page 12, Section 5, Table 5-1-Estimated Project Costs

- Mitigation and enhancement maintenance and monitoring should be a budget item with funding allotted for the 3-year maintenance and monitoring.

EXHIBIT D

DEPARTMENT OF WATER RESOURCES

DIVISION OF MULTIBENEFIT INITIATIVES
P.O. BOX 942836
SACRAMENTO, CA 94236-0001



12/5/2024

Ms. Linda Carter, Secretary
Reclamation District 1601 (Twitchell Island)
Post Office Box 2382
Stockton, California 95201

Project Funding Agreement TW-24-1.0-SP

Dear Ms. Carter:

This is in response to the Draft Scope of Work (SOW) dated August 27, 2024, for work covered under the Project Funding Agreement for Construction of District Multi-Benefit Project on Reclamation District 1601 Twitchell Island, TW-24-1.0 SP (PFA). Based on the review of the SOW by our Project Engineer and Senior Environmental Scientist, some items have been identified that require your agency's attention. Please clarify and provide the necessary information or revisions of the following items:

- A copy of the following documents is needed for formal review and approval:
 - Environmental Information Form
 - AB 360 Program Special Projects Pre Project Information Form
 - CEQA
- The following SOW Sections and elements are needed for formal review and approval:
 - Borrow Material: This section should describe the borrow material, where it is coming from, if it will be tested, and for what it will be used.
 - Infrastructure Protection: This section should describe how or if the project will affect SMUD, PG&E, poles, pipelines, agreements, or if there are relocation activities planned.
 - Permits Compliance and Monitoring Section: This section should outline how compliance will be achieved i.e., tracking, WEAP training, biological monitoring, cultural resources compliance and coordination with DWR's Tribal Liaison, avoidance and minimization measures, as well as coordination with regulatory agencies.
 - Deliverables Section: This section should list the required deliverables i.e., AB 360 Post Project Retention Release Form, environmental documents which include CEQA and permits, labor compliance and documentation, Planting Plan and Irrigation Plan, plans/drawings and specifications, bidding and contract documents, Biological Surveys Reports, Monitoring Plan, Project Monitoring Reports, as built drawings and/or final reports, Project Completion Report, and coordination with non DLP DWR personnel for authorization to implement project elements.

Ms. Carter
Page 2

- QA/QC Section.
- Meeting with the Department and CDFW Section.
- Page 4, Section 2.2, Project Construction Phasing: Please provide a map showing the material staging areas for construction of all three phases.
- Pages 4 – 8, Section 2.2, Project Construction Phasing: Please submit to DWR the final set of plans and specifications, once complete, for each of the three phases, as well as geotechnical studies/evaluations for the work to be performed.
- Page 7, Section 2.2.1, Flood Protection: Include a brief description of the geometries of the toe berm and the new setback levee. Are they still consistent with the information given in Appendices A and B?
- Page 7, Section 2.2.1, Flood Protection, Phase 2 – Setback Levee: Please provide some details on the reconstruction of existing utility crossings. Per Appendix A, there is only one siphon located in Reach 6. Are there any other existing utility crossings in Reach 6?
- Page 8, Section 2.2.2, Habitat Development: What plans are being developed i.e., grading, planting, restoration? Include a table that shows the estimates of habitat (Riparian Forest, Scrub Shrub, Shaded Riverine Aquatic, Freshwater Marsh) developed by the project.
- Page 8, Section 2.2.2, Habitat Development: The waterside of the levee will be modified based on five design options. Please list which options will be constructed in Reach 6 and the associated stationing. Are they still consistent with the information given in Appendix C?
- Page 8, Section 2.2.2, Habitat Development: The remnant levee will be degraded and/or regraded. What portions, or approximately how many feet will be degraded?
- Page 8, Section 2.2.2, Habitat Development: Planting will occur and be maintained for one year during the Habitat Establishment Period. Maintenance and monitoring require five years for mitigation, and three years for enhancement. Please clarify the number of years planned for monitoring and maintenance.
- Page 9, Section 3.1, Environmental Compliance: Include the State Clearinghouse Number for the Environmental Impact Report. Has the Project changed from what was stated in the EIR? If so, are the changes substantial or do the changes result in new or substantial increases in the severity of previously identified effects?
- Page 9, Section 3.2, Permitting: Please provide a list of all required permits and state whether they are complete or in progress. Also please submit to DWR all completed permits or provide a hyperlink link to the documents.
- Page 9, Section 3.3, Habitat Impacts: Include a statement about AB 360 habitat and mitigation ratios for direct and indirect impacts. State whether the activities proposed under the PFA are anticipating impacts to existing habitat and describe how these impacts will be addressed. Include a table of estimated habitat impacts and mitigation.
- Page 10, Section 3.3, Habitat Impacts: "...the District will purchase 2.7 acres of credits at a USFWS-approved GGS habitat conservation bank and/or at a DWR-specific compensatory mitigation site on the east side of Twitchell Island at a

Ms. Carter
Page 3

ratio of 3:1..." Confirm that there are credits available for purchase at a USFWS and CDFW approved conservation bank. Also confirm that you are seeking a CDFW consistency determination or incidental take permit for GGS.

- Page 11, Section 4, Summary of Tasks: "Develop and certify Delta Stewardship Council (DSC) consistency determination." Please ensure that no construction activities will occur prior to completion of the DSC consistency determination.
- Include a statement regarding the District's plan to enter into a separate agreement to develop and implement a three-year monitoring and maintenance plan pursuant to this project, as mentioned on Page 13, Section 6.
- Page 11, Section 4, Summary of Tasks, and Appendix E – Project Schedule: Please include an item for pre-construction meetings with DWR and CDFW.
- Page 14, Section 6, and Appendix E – Project Schedule: Please include the three-year monitoring and maintenance period in the schedule.
- Appendix D – Project Cost Estimate Breakdown: Please mention the estimated cost for the three-year monitoring and maintenance period.
- The project footprint encroaches on property owned by DWR that was purchased with State Water Project Funds. Therefore, this project will require additional DWR reviews, oversight of implementation, and environmental compliance assurances. It is the District's responsibility to coordinate with the appropriate DWR staff regarding associated project activities.

If you would like to schedule a meeting to discuss our comments or if you have any questions, please contact Project Engineer Saskia Donovan at (916) 460-0407, or Bobby Jafarnejad, Manager of Delta Levees Special Projects, at (916) 820-8221.

Sincerely,



Andrea L. Lobato, P.E., Manager
Delta Levees Program

cc: KSN, Inc.
711 North Pershing Avenue
Stockton, California 95203

Attachment:
Environmental Information Form

ENVIRONMENTAL INFORMATION FORM

Grantees are responsible for complying with all applicable laws and regulations for their projects, including the California Environmental Quality Act (CEQA). Work that is subject to the California Environmental Quality Act (CEQA) shall not proceed under this Agreement until documents that satisfy the CEQA process are received by the Department of Water Resources and DWR has completed its CEQA compliance. Work that is subject to a CEQA document shall not proceed until and unless approved by the Department. Such approval is fully discretionary and shall constitute a condition precedent to any work for which it is required. Once CEQA documentation has been completed, DWR will consider the environmental documents and decide whether to continue to fund the project or to require changes, alterations or other mitigation.

Project Title: _____ Work Agreement #: _____
Grant Recipient: _____
Project Manager: _____
Address: _____
Phone Number: _____

1. List the source of any other grants or funds received from the Department of Water Resources to implement a portion of this project.

2. Is this project exempt from CEQA compliance? Yes No (if no – skip to #3)

If “yes”, provide reasons for exemption. Cite the CEQA Article, Section and Title of the CEQA exemption, if appropriate.

CEQA statutory exemptions: http://ceres.ca.gov/topic/env_law/ceqa/guidelines/art18.html.

CEQA categorical exemptions: http://ceres.ca.gov/topic/env_law/ceqa/guidelines/art19.html.

Check appropriate box below:

- Lead Agency has already filed a Notice of Exemption (NOE) with the State Clearinghouse and/or County Clerk *for this specific project*. (Attach copy of NOE, receipt of payment of DFG fees, and, if applicable, a copy of Board Resolution)
- Lead Agency will file a NOE with the State Clearinghouse and/or County Clerk. Provide estimated date: _____
- Lead Agency will NOT file a NOE with the State Clearinghouse and/or County Clerk. *If Lead Agency chooses not to file a NOE, sufficient documentation and information must be submitted to the Project Engineer, along with this form, to allow DWR to make its own CEQA findings.*

3. If the project will require further CEQA compliance, identify the Lead Agency.
CEQA Lead Agency: _____

4. Please check types of CEQA documents to be prepared:

- Initial Study
- Negative Declaration / Mitigated Negative Declaration
- Environmental Impact Report

5. Please describe the status of the CEQA documents, expected date of completion, and estimated cost, if requesting DWR funds relating to CEQA compliance:

Status: _____
 Date of Completion: _____
 Estimated Costs: _____

6. If the CEQA document has been completed, please provide the name of the document and the State Clearinghouse number if available. Submit three copies to the Project Engineer.

Name: _____ SCH#: _____

7. Please list all environmental permits you must obtain to complete the project:
(attach additional pages as necessary)

<u>Type of Permit Required</u>	<u>Permitting Agency</u>

8. This form was completed by:

Print or Type Name	Phone Number
Signature	Date

- DWR received environmental documents.
- DWR made findings.

Please send the completed form to the Project Engineer

EXHIBIT E

Christopher H. Neudeck

From: Jeff Mueller
Sent: Tuesday, November 26, 2024 7:19 AM
To: Christopher H. Neudeck
Subject: FW: Reclamation District 1601 - Proposal

Hi Barry and Jeff,

Thank you for all the information about the solar installation. The following is a brief analysis of the potential credits, and an outline of our scope of work and anticipated fees.

Reclamation District 1601, based in California is an eligible tax-exempt entity. Reclamation District 1601 is pursuing construction of the solar installation at Twitchell Island, CA which includes Solar Energy Property. The installation is anticipated to be complete in 2025 and will have an output of less than 1MW.

Based on our review and understanding of the solar installation's design, the following table represents the possible energy credits, based on preliminary information shared and whether the Energy System meets the requirements for increased and bonus percentages.

Estimated Energy Credits - Solar Energy System			
If below criteria are met:	Credit Percentage	Estimated Cost Basis	Potential Credit
1MW PWA Safe Harbor	30%	\$1,866,000	\$559,800
1MW PWA Safe Harbor + Domestic Content	40%	\$1,866,000	\$746,400
1MW PWA Safe Harbor + Low Income Communities Bonus	40%	\$1,866,000	\$746,400

1MW PWA Safe Harbor + Domestic Content + Low Income Communities Bonus	50%	\$1,866,000	\$933,000
---	-----	-------------	-----------

Should additional indirect costs be attributable to the project, the estimated credit amounts will increase. Should the credit be subject to reduction related to financing structure, the estimated credit amounts will decrease.

We recommend the following consulting services to qualify, quantify, document, and assist in claiming amounts available under Section 48 Energy Credit for each project.

- Advising management on the existing regulations, the IRA and current guidance.
- Discussing with architects, engineers, and contractors on the qualifying criteria.
- Planning for scenarios and methods of monetizing incentives including rules under Section 6417.
- Reviewing the related financing terms and advising on whether financing impacts eligible incentives.
- Advising and evaluating Domestic Content Bonus eligibility.
- Reviewing mapping and census tract data for Energy Community Bonus eligibility.
- Reviewing mapping and census tract data for Low-Income Communities Bonus eligibility.
- Identifying documentation necessary to register for these incentives, such as the Environmental Justice Allocation, including documentation to certify the amount and placed-in-service date.
- Determination and documentation of construction start date under §48(a)(9)(B)(ii).
- Determination of energy project, single or multiple properties treated as one project for purposes of the credit.
- Cost engineering to determine the appropriate basis of, including treatment of indirect costs under Section 263A and other applicable code sections.
- Componentizing functionally interdependent property through our building software to determine basis amounts of dual use energy property.
- Assisting with the IRS pre-registration filing requirements related to Section 6417.
- Draft proforma IRS forms and applicable election statements to aid in claiming the energy credits.
 - These services include determination of tax year end for initial 990-T filing.
- Prepare and electronically file Exempt Organization Business Income Tax Return (Form 990-T) to claim the energy credits.
- Performance of a site visit which will include photographs of qualifying energy property components.
- Provide a deliverable report to assist in substantiating the Energy Credit.

Based on the information provided and the noted assumptions, we anticipate our fees to range from \$55,000 - \$80,000 depending on the level of effort needed to calculate, document and file for the credit.

We would appreciate the opportunity to discuss further, please let us know your availability and we will schedule accordingly.

Thank you,
Joe Jacobson

Client Success Senior Associate
Eide Bailly LLP
U.S. Bancorp Center
800 Nicollet Mall, Ste. 1300
Minneapolis, MN 55402-7033

T 612.253.6597
F 612.253.6600



WE'RE TEMPORARILY MOVING!

Starting May 20, we will be located in our [Bloomington](#) and [Plymouth](#) offices. We plan to return to our Minneapolis office in the fall of 2024.

Connect with me on [LinkedIn](#).
Access your files and connect with us on [My Eide Bailly](#).
Add [eidebailly.com](#) to your safe sender list. [Find out why](#).

What inspires you, inspires us.
[eidebailly.com](#)



Independent member of HLB – the global advisory and accounting network.

Connect with me on [LinkedIn](#).
Access your files and connect with us on [My Eide Bailly](#).
Add [eidebailly.com](#) to your safe sender list. [Find out why](#).

What inspires you, inspires us.
[eidebailly.com](#)



Independent member of HLB – the global advisory and accounting network.

Confidentiality Note: This email message, including any attachment(s), is for the sole use of the intended recipient(s) and may contain information that is confidential, privileged, or otherwise protected by law. Any unauthorized use, disclosure, or distribution of this communication is strictly prohibited. If you have received this communication in error, please contact the sender immediately by reply email and destroy the original and all copies of the email, including any attachment(s).

EXHIBIT F

Christopher H. Neudeck

From: Sean M. Pritchard
Sent: Monday, December 9, 2024 6:53 PM
To: Perla Tzintzun-Garibay
Cc: Jeff Mueller; 'Barry Sgarrella' (barry@solagra.com); Christopher H. Neudeck
Subject: RD1601 Solar Project Progress Payment 01
Attachments: 1110-0950_PE-01_24 1129.pdf

Hello Perla,

Attached please find my payment recommendation for contractor expenses related to the RD1601 Solar Array project.

Let me know if you have any questions,

Thank you,



CONTRACTOR'S PAY ESTIMATE
 1110-0950
 RD 1601 - Pump Station Solar Array

Estimate No. 1
 11/20/24 - 11/29/24

CONTRACT NO.: 1601-10-17-24-03
 CONTRACTOR: Panelized Structures, Inc.
 5731 Stoddard Rd.
 Modesto, CA. 95356

ATTENTION: Bob Sgarrella

Project Summary

	Bid Total Amount	Total Amount this Estimate	Previous Total Paid	Total Paid to Date
Bid Schedule	\$ 1,780,503.66	\$ 342,161.95	\$ -	\$ 342,161.95
Change Order	\$ 164,046.00	\$ (226,520.00)	\$ -	\$ (226,520.00)
TOTAL	\$ 1,944,549.66	\$ 115,641.95	\$ -	\$ 115,641.95
Total Work: \$ 115,641.95 \$ - \$ 115,641.95 Retention Withheld: -5% \$ (5,782.10) \$ - \$ (5,782.10) Deductions: \$ - \$ - \$ - \$ - Retention Released: \$ - \$ - \$ - \$ - Pay Amount: \$ 109,859.85 \$ - \$ 109,859.85				

Recommended for Payment:

Sean M. Pritchard, CCM
 Project Manager
 Kjeldsen, Sinnock & Neudeck, Inc.

Friday, November 29, 2024

CONTRACTOR'S PAY ESTIMATE

1110-0950

RD 1601 - Pump Station Solar Array
 Panelized Structures, Inc. - Contract No.:1601-10-17-24-03

Estimate No. 1
 11/20/24 - 11/29/24

Bid Schedule

Item No	Item Description	Bid			This Estimate			Previous		To Date	WCD #	
		Est. Qty.	Unit	Unit Price	Total Amount	Qty.	Amount	Qty.	Paid			Total Qty.
1	Mobilization	1	JOB	\$ 55,000.00	\$ 55,000.00	0.5	\$ 27,500.00	0	\$ -	1	\$ 27,500.00	50.0%
2	Clear, Grub, Supply and Install Mirafi	43,566	SF	\$ 1.65	\$ 71,883.90	21,783	\$ 35,941.95	0	\$ -	21,783	\$ 35,941.95	50.0%
3	Aggregate Base	1,700	TON	\$ 58.00	\$ 98,600.00	900	\$ 52,200.00	0	\$ -	900	\$ 52,200.00	52.94%
4	Pipe Piles 18" Dia x 0.5 wall x 40'	16	EA	\$ 8,750.00	\$ 140,000.00	0	\$ -	0	\$ -	0	\$ -	0.0%
5	Drive Piles	16	EA	\$ 8,750.00	\$ 140,000.00	0	\$ -	0	\$ -	0	\$ -	0.0%
6	Pile Base Plate Welding	16	EA	\$ 1,875.00	\$ 30,000.00	0	\$ -	0	\$ -	0	\$ -	0.0%
7	Structural Steel Carport - Supply	1	JOB	\$ 400,000.00	\$ 400,000.00	0	\$ -	0	\$ -	0	\$ -	0.0%
8	Structural Steel Carport - Erect	1	JOB	\$ 85,000.00	\$ 85,000.00	0	\$ -	0	\$ -	0	\$ -	0.0%
9	Solar Modules - Supply	792	EA	\$ 185.00	\$ 146,520.00	792	\$ 146,520.00	0	\$ -	792	\$ 146,520.00	100.0%
10	Solar Modules - Install	792	EA	\$ 53.03	\$ 41,999.76	0	\$ -	0	\$ -	0	\$ -	0.0%
11	Supply & Install: all conduit, combiner boxes & wiring on 4 arrays	1	JOB	\$ 20,000.00	\$ 20,000.00	0	\$ -	0	\$ -	0	\$ -	0.0%
12	Supply & Install: SMA TRI-POWER CORE - 1 50 US - Inverters	8	EA	\$ 10,000.00	\$ 80,000.00	8	\$ 80,000.00	0	\$ -	8	\$ 80,000.00	100.0%
13a	Supply & Install: 600A AC Combiner Panel 480 VAC	1	JOB	\$ 30,000.00	\$ 30,000.00	0	\$ -	0	\$ -	0	\$ -	0.0%
13b	Supply & Install: 1200 A utility metering, (2) Adjustable 600/3 GFCI Main Circuit Breaker; & (1) NEMA 3 Main Switchboard.	1	JOB	\$ 235,000.00	\$ 235,000.00	0	\$ -	0	\$ -	0	\$ -	0.0%
14	Provide & Install: (2) 4-Inch & (1) 2-Inch Conduits with wiring.	600	LF	\$ 157.50	\$ 94,500.00	0	\$ -	0	\$ -	0	\$ -	0.0%
15	Provide & Install: 1-Inch Sch. 40 PVC with wiring	400	LF	\$ 30.00	\$ 12,000.00	0	\$ -	0	\$ -	0	\$ -	0.0%
16	Interconnection Labor	1	JOB	\$ 75,000.00	\$ 75,000.00	0	\$ -	0	\$ -	0	\$ -	0.0%
17	Interconnection Equipment & Switchgear	1	JOB	\$ 25,000.00	\$ 25,000.00	0	\$ -	0	\$ -	0	\$ -	0.0%
Bid Item Total				\$ 1,780,503.66	\$ 342,161.95		\$ 342,161.95		\$ -		\$ 342,161.95	19.22%
Retention				Withheld	\$ -5.00%		\$ (17,108.10)		\$ -		\$ (17,108.10)	-5.0%
Adjusted Total				Released	0.00%		\$ -		\$ -		\$ 325,053.85	18.26%

Change Orders

Change Order Base Agreement												
WCD No.	Item Description	Qty	Unit	Unit Rate	Total Amount	This estimate		Previous Paid		Total to Date		Percent Complete
						Qty	Amount	Qty	Amount	Qty	Amount	
1.1	CCO 01: Solar Modules - Supply	-792	EA	\$ 185.00	\$ (146,520.00)	-792	\$ (146,520.00)	0	\$ -	-792	\$ (146,520.00)	100.0%
1.2	CCO 01: Supply & Install: SMA TRI-POWER CORE - 1 50 US - Inverters	-8	EA	\$ 10,000.00	\$ (80,000.00)	-8	\$ (80,000.00)	0	\$ -	-8	\$ (80,000.00)	100.0%
1.3	CCO 01: Sirius ELNSM72M-HC Series PV Module	792	EA	\$ 354.25	\$ 280,566.00	0	\$ -	0	\$ -	0	\$ -	0.0%
1.4	CCO 01: Solectnia XGI 1500-250 Series Inverter	2	EA	\$ 55,000.00	\$ 110,000.00	0	\$ -	0	\$ -	0	\$ -	0.0%
Change Order Total					\$ 164,046.00	\$ (226,520.00)	\$ -	\$ -	\$ (226,520.00)	\$ -	\$ (226,520.00)	-138.08%
Retention					-5.0%	\$ 11,326.00	\$ -	\$ -	\$ 11,326.00	\$ -	\$ 11,326.00	-5.0%
Adjusted Total					0.00%	\$ (215,194.00)	\$ -	\$ -	\$ (215,194.00)	\$ -	\$ (215,194.00)	-131.18%

EXHIBIT G

Christopher H. Neudeck

From: Sean M. Pritchard
Sent: Monday, December 9, 2024 6:44 PM
To: tim@panelized.com
Cc: 'Barry Sgarrella' (barry@solagra.com); Jeff Mueller; Christopher H. Neudeck
Subject: RFP 01 Subgrade Stabilization
Attachments: L-004_RFP 01-Grade Stabilization.pdf

Hello Tim,

As discussed on the phone, please find the attached RFP to provide subgrade stabilization at the site in order to continue you work at the site.

Should you have any questions, please feel free to reach out.

Thank you,



Stephen K. Sinnock, P.E.
Christopher H. Neudeck, P.E.
Neal T. Colwell, P.E.
Barry O'Regan, P.E.

1110-0950
11-322

December 9, 2024

Tim Pfisterer
Project Manager
Panelized Structures, Inc.
5731 Stoddard Rd.
Modesto Ca 95356

Re: RD 1601 Pump Station Solar Array – RFP 001 Grade Stabilization

Dear Mr. Pfisterer,

Please provide unit rate pricing for the following work:

Provide and install 100 TON of 12-inch minus quarry stone in accordance with the attached specification to bridge and stabilize three unsatisfactory locations of unstable sub-grade.

Should you have any questions related to these items, please feel free to contact me.

Sincerely,
KJELDEN, SINNOCK & NEUDECK, INC.

A handwritten signature in blue ink, appearing to read 'Sean Pritchard', is written over a horizontal line.

Sean Pritchard, CCM
Project Manager

cc: Jeff Mueller, Barry Sgarrella

**SECTION 02275B
12 INCH QUARRY STONE RIPRAP**

TABLE OF CONTENTS

PART 1 - GENERAL REQUIREMENTS	2
PART 2 - MATERIALS	2
PART 3 - CONSTRUCTION	4
PART 4 - MEASUREMENT	5
PART 5 - PAYMENT	7

**SECTION 02275B
12 INCH QUARRY STONE RIPRAP**

PART 1 - GENERAL REQUIREMENTS

- 1.01 Scope of Work** - The work to be performed under this Section shall consist of furnishing all labor, materials, tools, transportation, supplies, equipment, appurtenances, fuel, and power, unless specifically excepted, necessary or required to install quarry stone riprap as shown on the plans and described in these specifications.

PART 2 - MATERIALS

- 2.01 Quarry Stone** - The quarry stone riprap shall be angular in shape as to form a stable protection structure for the specified section. Rounded boulders or cobbles shall not be used or accepted as quarry stone riprap. Stone with needle or flat shapes will not be accepted unless the thickness of the individual pieces is greater than one-third (1/3) of the length.

- 2.02** The stone specified should meet the following gradations as determined by screens with square openings. Neither the breadth nor the thickness of any piece of stone shall be less than one-third (1/3) its length. Materials not meeting the gradation requirements given below as placed at the site of work shall be rejected. If test results show that stone does not meet the required grading, the hauling and placing operation will be stopped immediately and will not resume until rock processing procedures are adjusted and the gradation test is completed demonstrating compliance with gradation requirements. All gradation tests are at the expense of the Contractor. Once the selected material and grading are approved, neither shall be changed without the Engineer's approval.

A. GRADATION GENERAL

1. All points on the individual grading limits as defined by smooth curves drawn through specified grading limits plotted on a mechanical analysis diagram.
2. The individual grading curves shall not exhibit abrupt changes in slope or denoting skip grading or scalping of certain sizes.

B. GRADATION FOR 12 INCH QUARRY STONE RIPRAP PROTECTION

1. The specified grading of quarry stone riprap shall be met both at the source and as delivered to the project.
2. Material not meeting the specified gradation due to segregation or degradation during placement shall be rejected.
3. The Contractor/Quarry Operator shall sort and separate rock material at the quarry site to provide the quarry stone riprap slope protection which meets the gradation specified as follows:

<u>WEIGHT OF PIECES IN POUNDS</u>	<u>PERCENT SMALLER BY WEIGHT</u>
150	100
100	50-75
50	35-65
20	10-30
5	0-10

C. QUALITY COMPLIANCE TEST REQUIREMENTS

The stone specified should meet the following test requirements and the publication standards listed form a part of these specifications and the latest edition of the referenced publication shall govern.

TEST	TEST METHOD	REQUIREMENT
Specific Gravity	ASTM C 127	2.60 minimum
Absorption	ASTM C 127	2.0% maximum
Wetting & Drying	SPD Test Procedure	No fracturing
Sodium Sulfate	ASTM C 88	15% max. loss
Abrasion Loss	ASTM C 535	50% max. loss

C. The above tests and additional quality compliance test requirements shall conform to the provisions in the "Stone Protection" section and "Quality Compliance Tests for Stone Protection" subsection of the U.S. Army, Corps of Engineers, Sacramento District, Specification publication.

2.03 The stone shall be clean, sound, hard, dense, and durable, have angular features, be free from lamination, weak cleavages, and undesirable weathering. The stone shall also be free from clay, shale, sandstone, earth, vegetable matter, and other deleterious substances. The quarry stone shall be of such character that it will not disintegrate from the action of air and/or water, handling and placing, and shall be of a quality to ensure permanence.

2.04 Stone shall weigh not less than one hundred and sixty-five (165) pounds per five (5) cubic foot, dry density. The Engineer shall determine the acceptability of the stone with respect to quality and physical properties.

2.05 The Contractor shall identify the sources from which he proposes to obtain the material at the time of the preconstruction conference meeting. The Contractor shall also make all arrangements, secure all permits, and pay all royalties for furnishing, transporting, and procurement of the stone specified. The Engineer may require the Contractor to submit material test samples fifteen (15) days prior to placement for quality compliance evaluation. Such samples shall be clearly identified as to source and origin. The Engineer will determine the suitability of the material prior to delivery and placement. If material testing is required, the costs shall be the responsibility of the Contractor.

2.06 Gradation, Field Sampling, and Testing for Quarry Stone Riprap

- A. The Engineer reserves the right to perform field check tests at any time and retain the services of an independent geotechnical consultant and testing facility to make such tests.
- B. Each sample shall consist of not less than five (5) tons of materials and will be sampled at random from the production run and delivery.
- C. All sampling and gradation tests will be performed by the testing consultant with the use of the Contractor's equipment and personnel under the supervision of the Engineer. The Owner will pay the expense of the consultant's services.
- D. Any on-site, gradation sampling and testing, using Contractor's equipment, and personnel required for tests, will be at the expense of the Contractor.

PART 3 - CONSTRUCTION

- 3.01 Clearing and Sloping** - All areas to receive quarry stone riprap, as shown on the plans, shall be cleared as described in Division 02, Section 02110, "Clearing and Grubbing".
- A. The repair areas requiring clearing, the Contractor shall preserve and protect any plants and trees as may be designated and marked by the Engineer at those repair sites designated prior to commencement of site work. Some pruning and trimming of branches may be required.
 - B. All areas on which quarry stone riprap is to be placed shall be trimmed and dressed to conform to the cross-section shown on the drawings. When sloping, the Contractor shall balance his cuts and fills in order to end up with a uniform slope. Fill areas shall be well compacted with earth similar to adjacent materials or import fill materials as may be designated and shown on the plans.
 - C. Repair sites will require landside mechanical equipment to slope the sections in order to end up with a neat and uniform slope prior to placement of quarry stone riprap unless otherwise approved by the Engineer.
- 3.02 Control of Erosion** - The Contractor shall maintain earthwork surfaces true and smooth and protected from erosion. Where erosion occurs, the Contractor shall provide fill or shall excavate as necessary to return earthwork surfaces to the lines and grades specified. Compensation for erosion control is considered as included in the Contract Prices paid for the various items as set forth in the Contractor's Bid and no additional compensation will be allowed therefor.
- 3.03 Placement** - After slopes have been cleared, prepared as specified, and accepted by the Engineer, the Contractor shall protect the bank slopes with quarry stone.
- A. Quarry stone protection shall be placed in such manner as to produce a well-graded mass with a minimum practicable percentage of voids.
 - B. Placement of quarry stone shall be constructed to the lines and grades shown on the drawings or as staked in the field.
 - C. Landside mechanical equipment, e.g. backhoe, excavator, long reach, etc., is required to obtain a well graded and uniform slope, keyway, and for rearranging of existing slope protection prior to placement of new quarry stone riprap, unless otherwise designated by the Engineer
 - D. Stone protection shall be placed in such a manner as to avoid displacing the underlying material. The finished stone protection shall be free from pockets of small stones and clusters of larger stones.
 - E. Placing of stone protection by methods likely to cause segregation of the various sizes is not acceptable. The desired distribution of the various sizes of stones throughout the mass shall be obtained by selective loading of the material at the quarry or other source by controlled placement of successive loads during final placing or by other methods of placement, which will produce the specified results.
 - F. Rearranging of individual stones by mechanical equipment or by hand will be required to the extent necessary to obtain a reasonably well graded distribution of stone sizes as specified above and to provide a finished surface free of protruding stones. Dozers or other equipment, which would cause degradation or displacement of stone, shall not be used on

the slopes. The Contractor shall maintain the stone protection until accepted and any material displaced by any cause shall be replaced as directed by the Engineer.

- G. Bucket tamping of the stone above the water shall be required to set the new stone protection in place and to achieve the required slope and tolerance of plus 2 inches to minus 1 inch will be allowed from the thickness shown on the plans.
- H. Bucket tamping of the quarry stone riprap will be performed in a manner not to degrade the stone placed.
- I. Rearranging of individual stones by mechanical equipment or by hand may be required to the extent necessary to obtain a reasonably well-graded distribution of stone sizes to provide a finished surface free of protruding stones.
- J. Riprap shall be carefully placed, by hand if necessary, around the base of the designated plants and trees.
- K. All new quarry stone riprap shall be placed uniformly on prepared levee slopes, and connected and keyed into previously placed riprap, where applicable. The stone protection shall also be keyed into the levee toe or waterside berm, as shown and noted on the contract plans. The Engineer will stake the limits of each site in the field. The Contractor shall set and date a stake/lath at the sites where the material was placed for that workday and/or at the end of each shift.
- L. When stone protection is placed by floating plant and drag type bucket, the material barge shall be modified to prevent spilling of stone into the channel as the bucket is being loaded.
- M. Quarry stone protection placed underwater shall be placed with approved equipment capable of discharging the material underwater with minimum free fall to reduce segregation.
- N. The quarry stone shall be placed systematically beginning at the base of the prepared embankment slopes.
- O. Any low spots located shall be filled in, as a minimum, to design lines and grades as shown on the drawings or as directed by the Engineer.
- P. Placement of quarry stone protection by clamshell type equipment will not be permitted unless otherwise approved by the Engineer.

3.04 Material Stockpile - Stockpiling of quarry stone riprap on the levee, an adjacent area, and/or some other stockpile area for re-handling and slope placement will not be permitted; material shall be hauled directly from the quarry to the site for placement, unless otherwise approved and directed by the Engineer.

PART 4 - MEASUREMENT

4.01 All quarry stone riprap will be measured for payment by the number of tons (2,000 pounds avoirdupois) of material placed within the dimensions as shown on the plans and accepted within the completed sections. No payment will be made for material placed outside the specified limits, dimensions, and locations, unless otherwise ordered by the Engineer. The quarry stone riprap material will be measured for payment by the tonnage accepted in place, as determined either by barge displacement measurement or by certified scale weight measurement approved by the Engineer and the Engineer's quantity determination shall be final.

- A. The material delivered and placed at each designated repair site shall be recorded by tonnage, identified accordingly, and tickets submitted daily to the Engineer's Field Representative, unless otherwise directed.

4.02 Displacement Measurement - For materials delivered to the job by barge or to an intermediate point for trans-shipment by rail or highway, the measurement of materials delivered and placed will be based on the displacement of the transporting vessel. One (1) cubic foot of barge displacement will be assumed to be equivalent to 62.5 pounds of weight.

- A. All barge displacement charts used for measurement and payment shall be prepared, certified, signed, and dated by an independent licensed Marine Surveyor, for all barges/vessels used to transport materials to the project site. A copy of the certified charts shall be provided to the Engineer by the Contractor prior to the commencement of any material delivery and placement on site.
- B. Use by the Contractor of any revised barge charts, which have not been recalibrated and recertified by a licensed Marine Surveyor, shall nullify any on site displacement measurements and acceptance of material.
- C. Any barges or vessels requiring dry-docking, alterations, refitting, structural repairs, and/or recertification by the U.S. Coast Guard, and any barges or vessels which have not been recertified for displacement within the last five (5) years, shall, at the option of the Engineer, be required to be recertified for displacement by an independent registered and licensed Marine Surveyor prior to the transportation of material.
- D. A new barge displacement chart with the recertification measurements, date, and signature of the registered and licensed Marine Surveyor shall be issued to the Engineer prior to the delivery and acceptance of materials on site.
- E. All displacement measurements shall be made at each repair site where the specified material is to be unloaded and placed. Copies of the barge loading memos, barge tags, or delivery tickets shall be signed/initialed and submitted to the Engineer or his field representative daily, unless otherwise directed. The Contractor shall also furnish the Engineer or his designated representative a barge ticket for each load of material delivered, placed, and accepted.
 - 1. Barges/vessels used to deliver materials on site shall bear a plainly legible identification mark (e.g. name, number, etc.).
 - 2. The barge delivering materials, when measured at the designated delivery point, shall be free from bilge water. Pumping of excess bilge water during off-loading operations shall nullify the displacement measurements.
 - 3. The barge loading memos, barge tags, or delivery tickets for each repair site and each barge load of materials delivered, placed, and accepted shall include the barge/vessel identification (name and/or number), date, commodity/material type, project area, loaded and empty measurements (stabbings), tonnage, off-loading plant/number, and weigh master's signature/initials
 - 4. The off-loading vessel at the project site shall maintain a current master log.
 - 5. The master log shall contain actual displacement measurements, loaded and unloaded, for each barge of material placed. The log shall also include the quarry source; the date and time of the measurements, and a signature by the vessels weigh master certifying the measurements.

6. The hard copy of the master log shall be made available for the review of the Engineer at his request.

4.03 **Scale Weight Measurement:** For materials delivered by land hauling unit, measurements will be based on certified scale weight and measuring devices that have been sealed and approved by the California Department of Food and Agriculture's, Division of Measurement Standards or its designated representative.

- A. Scales used for measurement shall, at the option of the Contractor, be either public scales or tested certified scales provided by the Contractor. Weighing shall be at the point nearest the work at which a public scale is available or at which it is practicable for the Contractor to provide a scale. When the Contractor's scales are used, the Contractor shall be certified and bonded as a licensed weigh master in accordance with all requirements of the State Inspection Bureau, and any employees of the Contractor engaged in weighing materials under this contract shall be deputized to perform such weighing under the provisions of the State Inspection Bureau charged with scales inspection.
- B. Contractor scales shall be standard manufactured truck scales of a beam variety and shall be equipped with the type of registering beam, which imprints the weight on the ticket and an "under and over" indicator, and be capable of accommodating the entire vehicle. Scales shall be tested, approved, and sealed by a State Certified Inspector. The scales shall be calibrated and resealed as often as necessary and at least once every three (3) months, to ensure accuracy. All state inspections, calibrations, and sealing of the scales shall be at the expense of the Contractor.
- C. Unlicensed weigh masters or individual truck drivers are prohibited from weighing and issuing delivery tickets.
- D. Material hauling vehicles shall be weighed empty daily at such time as desired, and each shall bear a plainly legible identification mark.
- E. Delivery tickets or weigh bills, which are not dated and signed by the authorized licensed weigh master during that day and shift will not be accepted for measurement and payment and will be deducted from any invoice submitted for payment.
- F. Copies of weigh bills or delivery tickets shall be submitted to the Engineer daily during the progress of the work. The Contractor shall furnish the Engineer or his designated representative scale tickets for each load of material weighed. These tickets shall include ticket number, load number, commodity, tare weight, and identification mark of each vehicle weighed, date, time, and location of loading and material source.

PART 5 - PAYMENT

- 5.01 Payment for quarry stone riprap material, measured as specified, will be made at the contract unit price per ton, which price shall include compensation for providing and furnishing all labor, materials, tools, equipment, and incidentals as shown on the plans and indicated in the specifications herein.
- 5.02 At the direction of the Engineer for the purpose of District maintenance, the Contractor may be required to make incidental use of quarry stone riprap material for site repairs not specifically shown or otherwise designated on the plans. Payment for such incidental use of quarry stone riprap material, in place will be measured as specified and made by an approved Contract Change Order at unit price per ton.

- 5.03** Full compensation for all costs incurred and work covered in this Section shall be included in the prices paid for as set forth in the Contractor's Bid and no additional or separate compensation will be made therefor.
- 5.04** All delivery tickets, weigh master certificates, weigh bills, barge loading tags, or barge delivery tickets which are not correctly calculated, dated, identified, and signed by an authorized licensed weigh master or authorized representative during that day and shift, will not be accepted for payment and will be deducted from any invoice submitted for payment.
- 5.05** The following quantities will not be paid for and such quantities will be deducted from the final total quantities:
- A. Quantities of material wasted or disposed of in a manner not called for under the Contract;
 - B. Rejected loads of material, including material rejected after it has been placed by reason of the failure of the Contractor to conform to the provisions of the Contract;
 - C. Material not unloaded from the transporting vehicle;
 - D. Material placed outside the lines and grades indicated on the plans or established by the Engineer; and
 - E. Material remaining on hand after completion of the work.
- 5.06** No compensation will be allowed for hauling and disposing of rejected material.

END OF SECTION 02275B

EXHIBIT H



PANELIZED STRUCTURES, INC.

Commercial & Industrial Roof Construction

CA LIC. #652369 * NV LIC. #0035215

Home Office: 5731 Stoddard Rd. * Modesto, CA 95356

(209)343-8600 * FAX (209)343-8655

www.panelized.com

RFP 001- Grade Stabilization Proposal:

To: KSN- Attn. Sean Pritchard	From: Tim Pfisterer
Phone:	Pages: 1
FAX:	Date: 12-10-24
PROJECT #	CC:
JOB NAME: RD 1601	Fax : (209) 343-8655 Mobile # 209-649-9889

Provide and Install:

100 TON of 12-inch minus quarry stone (Riprap) to bridge and stabilize 3 locations of unstable sub-grade.

TOTAL= \$11,238.00

Tim Pfisterer

Project Manager

panelizedsolar