



RESOLUTION NO. 2024-49
RESOLUTION NO. PFA-01
ORDINANCE NO. 2024-01

AGENDA

OUR MISSION

Protect, enhance, and develop Calaveras County's water resources and watersheds to provide safe, reliable, and cost-effective services to our communities.

2021-2026 Strategic Plan, Adopted April 28, 2021, and can be viewed at this [link](#)

Regular Board Meeting
Wednesday, August 14, 2024
1:00 p.m.

[Calaveras County Water District](#)
120 Toma Court
San Andreas, California 95249

In compliance with the Americans with Disabilities Act, if you need special assistance to participate in this meeting, please contact the Administration Office at 209-754-3028. Notification in advance of the meeting will enable CCWD to make reasonable arrangements to ensure accessibility to this meeting. Any documents that are made available to the Board before or at the meeting, not privileged or otherwise protected from disclosure, and related to agenda items, will be made available at CCWD for review by the public.

District Board Meetings are open to in-person attendance by the public and are conducted virtually. The public may participate in the District's Board meeting with the link below. Members of the public who participate in the meeting via teleconference or web conference will be given the opportunity to speak and address the Board, and their comments will be included in the recording of the meeting.

While the District makes efforts to facilitate remote participation, please be aware that remote Teams involvement is offered solely for convenience. In the event of a technological malfunction, the Board can only guarantee the receipt of live comments through in-person attendance. With the exception of a noticed teleconference meeting, the Board retains the right to proceed with the meeting without remote access in case of a malfunction.

Microsoft Teams meeting

Join on your computer, mobile app or room device

[Click here to join the meeting](#)

Meeting ID: 295 957 501 767

Passcode: 922DvY

[Download Teams](#) | [Join on the web](#)

Or call in (audio only)

[+1 323-647-8603,,278504195#](#)

Phone Conference ID: 278 504 195#

BOARD OF DIRECTORS

Russ Thomas, President
Cindy Secada, Director

Bertha Underhill, Vice President
Scott Ratterman, Director

Jeff Davidson, Director

ORDER OF BUSINESS

CALL TO ORDER / PLEDGE OF ALLEGIANCE

1. **ROLL CALL**

2. **PUBLIC COMMENT**

At this time, members of the public may address the Board on any non-agendized item. The public is encouraged to work through staff to place items on the agenda for Board consideration. No action can be taken on matters not listed on the agenda. Comments are limited to three minutes per person.

3. **CONSENT AGENDA**

The following items are expected to be routine/non-controversial. Items will be acted upon by the Board at one time without discussion. Any Board member may request that any item be removed for later discussion.

3a Approval of Minutes for the Board Meetings of July 10 and July 24, 2024
(Rebecca Hitchcock, Clerk to the Board)

3b Review Board of Directors Monthly Time Sheets for July 2024
(Rebecca Hitchcock, Clerk to the Board)

3c Ratify Claim Summary #629 Secretarial Fund in the Amount of \$5,930,371.23 for
July 2024
(Jeffrey Meyer, Director of Administrative Services) **RES 2024-_____**

3d Extend the Agreement with Richardson & Company for Auditing Services for the Fiscal
Year Ending June 30, 2024
(Jeffrey Meyer, Director of Administrative Services) **RES 2024-_____**

4. **NEW BUSINESS**

4a Discussion regarding the Collaboration Between CCWD and Fire Protection Districts Within
Our Service Areas to Maintain Fire Hydrants.
(Damon Wyckoff, Director of Operations)

4b* Aero Fire After Action Report
(Damon Wyckoff, Director of Operations)

4c* Discussion/Presentation regarding Wildfire and Forest Management for Mountain Counties
Water Agencies
(Kelly Gerkenmeyer, External Affairs Manager)

4d Discussion/Action regarding Awarding of Engineering and Design Contract for the Ebbetts
Pass Sawmill Tank Replacement, CIP#11083S
(Kevin Williams, Senior Civil Engineer) **RES 2024-_____**

4e Discussion/Action regarding Applications and Financial Requests with the USDA Rural
Development for the Arnold Wastewater Treatment Facility Improvements Project.
(Jeffrey Meyer, Director of Administrative Services) **RES 2024-_____**

5. **REPORTS**

5a Report on the July 2024 Operations Department
(Damon Wyckoff, Director of Operations)

5b* General Manager's Report
(Michael Minkler)

6.* **BOARD REPORTS / INFORMATION / FUTURE AGENDA ITEMS**

7. **NEXT BOARD MEETINGS**

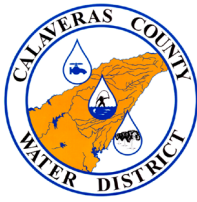
- Wednesday, August 28, 2024, 1:00 p.m., Regular Board Meeting
- Wednesday, September 11, 2024, 1:00 p.m., Regular Board Meeting

8. **CLOSED SESSION**

8a Conference with Legal Counsel – Anticipated Litigation. Significant exposure to litigation pursuant to subdivision (d)(2) of Government Code section 54956.9. - one potential case

9. **REPORTABLE ACTION FROM CLOSED SESSION**

10. **ADJOURNMENT**



CALAVERAS COUNTY WATER DISTRICT

Board of Directors

District 1 Scott Ratterman
District 2 Cindy Secada
District 3 Bertha Underhill
District 4 Russ Thomas
District 5 Jeff Davidson

Financial Services

Umpqua Bank
US Bank
Wells Fargo Bank

CCWD Committees

*Engineering Committee
*Finance Committee
*Legal Affairs Committee
*External Relations Committee
Real Estate Review Committee (ad hoc)

Joint Power Authorities

ACWA / JPIA
CCWD Public Financing Authority
Calaveras-Amador Mokelumne River Authority (CAMRA)
Calaveras Public Power Agency (CPPA)
Eastern San Joaquin Groundwater Authority
Tuolumne-Stanislaus Integrated Regional Water
Management Joint Powers Authority (T-Stan JPA)
Upper Mokelumne River Watershed Authority (UMRWA)

Other Regional Organizations of Note

Calaveras County Parks and Recreation
Committee
Mountain Counties Water Resources
Association (MCWRA)
Mokelumne River Association (MRA)
Tuolumne-Stanislaus Integrated Regional Water
Mgt. Watershed Advisory Committee to the JPA (WAC)
Eastern San Joaquin Groundwater Authority-Technical
Advisory Committee

Legal Counsel

Matthew Weber, Esq.
Downey Brand, LLP

Auditor

Richardson & Company, LLP

Membership**

Thomas / Davidson (alt. Secada)
Secada / Underhill (alt. Thomas)
Ratterman / Davidson (alt. Thomas)
Thomas / Secada (alt. Underhill)
Thomas / Ratterman

Ratterman (alt. Michael Minkler)
All Board Members
Ratterman / Secada (alt. Michael Minkler)
Michael Minkler (alt. Damon Wyckoff)
Thomas
Underhill (alt. Thomas)

Davidson (alt. Ratterman)

Thomas (alt. Ratterman)

All Board Members

All Board Members
Kelly Gerkenmeyer (alt: Juan Maya)

Mark Rincon-Ibarra (alt: Sam Singh)

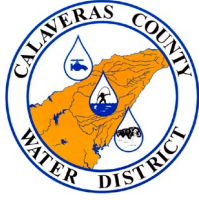
* Standing committees, meetings of which require agendas & public notice 72 hours in advance of meeting.

** The 1st name listed is the committee chairperson.

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MINUTES

CALAVERAS COUNTY WATER DISTRICT REGULAR BOARD MEETING

JULY 10, 2024

Directors Present: Russ Thomas President
Bertha Underhill, Vice-President
Scott Ratterman, Director
Cindy Secada, Director
Jeff Davidson, Director

Staff Present: Michael Minkler, General Manager
Matt Weber Esq, General Counsel*
Rebecca Hitchcock, Clerk to the Board
Damon Wyckoff, Director of Operations
John Coleman, Water Resources Manager
Jeffrey Meyer, Director of Administrative Services
Stacey Lollar, Human Resources Manager*
Kate Jesus, Human Resources Technician*
Haley Airola, Engineering Coordinator*
Kelly Richards, Business Services Manager*
Dylan Smith, IT Administrator*
Corinne Skrbina, Customer Service*
Michael Bear, Accountant*
Kylie Muetterties, Accountant*
Kelly Soulier-Doyle, Accounting Technician*
Bana Rouson-Gedese, Water Resources Specialist*
Tiffany Burke, Operations Administrative Technician*

Others Present: Andrew Brown, Director - PFM Asset Management LLC
Ryan Nicasio, Senior Vice President - PARS
Al Segalla, TCTA
Michael Rodgers*

*Attended Virtually

ORDER OF BUSINESS

CALL TO ORDER / PLEDGE OF ALLEGIANCE

1. ROLL CALL

President Thomas called the Regular Board Meeting to order at 1:01 p.m. and led the Pledge of Allegiance. All Directors were present.

2. PUBLIC COMMENT

Public comment was given by Al Segalla.

3. **CONSENT AGENDA**

3a Approval of Minutes for the Board Meeting of June 12, 2024
(Rebecca Hitchcock, Clerk to the Board)

3b Review Board of Directors Monthly Time Sheets for June 2024
(Rebecca Hitchcock, Clerk to the Board)

Director Secada pulled Item 3c from the Consent Agenda

3c Ratify Claim Summary #628 Secretarial Fund in the Amount of \$3,165,604.73 for
June 2024
(Jeffrey Meyer, Director of Administrative Services) **RES 2024-_____**

MOTION: Director Secada moved to approve the Consent Agenda Items 3a and 3b as presented and Director Ratterman seconded the motion.

AYES: Directors Secada, Ratterman, Underhill, Davidson, and Thomas

NOES: None

ABSTAIN: None

ABSENT: None

OFF CONSENT AGENDA

Director Secada pulled Item 3c from the Consent Agenda

3c [Ratify Claim Summary #628 Secretarial Fund in the Amount of \\$3,165,604.73 for June 2024](#)
(Jeffrey Meyer, Director of Administrative Services) **RES 2024-44**

DISCUSSION: Director Secada asked questions about various payments listed on the Claim Summary.

MOTION: Director Secada moved to approve the Consent Agenda Item 3c as presented and Director Underhill seconded the motion.

PUBLIC COMMENT: No public comment was heard.

AYES: Directors Secada, Underhill, Ratterman, Davidson, and Thomas

NOES: None

ABSTAIN: None

ABSENT: None

4. **NEW BUSINESS**

4a [Presentation of District's Retiree Health Trust Fund and Investment Strategies](#)
(Jeffrey Meyer, Director of Administrative Services)

DISCUSSION: Jeffrey Meyer, Andrew Brown, PFM Asset Management, and Ryan Nicasio, PARS gave presentations to the Board regarding various investment strategies for the District's Retiree Health Trust Fund. They responded to questions from the Board.

PUBLIC COMMENT: Public comment was given by Al Segalla and Michael Rogers.

This item was for information only; no action was taken.

- 4b [Discussion/Action regarding a Budget Adjustment PBI Engineering Consultants Copper Cove Clearwell and B Tank CIP #11083C](#)
(Kevin Williams, Senior Civil Engineer) **RES 2024-45**

DISCUSSION: Kevin Williams presented the proposed amendment to the PBI contract for construction management and special inspection tasks. He responded to questions from the Board.

MOTION: Director Davidson moved to approve the Amendment to the PBI Engineering Consultants Copper Cove Clearwell and B Tank CIP #11083C and Director Underhill seconded the motion.

PUBLIC COMMENT: No public comment was heard.

AYES: Directors Davidson, Underhill, Ratterman, Secada, and Thomas
NOES: None
ABSTAIN: None
ABSENT: None

- 4c [Discussion/Action regarding La Contenta WWTP Improvements Engineering Design Consultant Selection for the Biolac and Clarifier Improvements CIP#15097](#)
(Kevin Williams, Senior Civil Engineer) **RES 2024-46**

DISCUSSION: Kevin Williams presented the bid proposals for the La Contenta Waste Water Treatment Plant Biolac and Clarifier Improvements. He responded to questions from the Board.

MOTION: Director Ratterman moved to approve the contract with Hydrosience for Design and Engineering Services related to the La Contenta WWTP Biolac and Clarifier Improvements, CIP #15097 and Director Davidson seconded the motion.

PUBLIC COMMENT: No public comment was heard.

AYES: Directors Davidson, Underhill, Ratterman, Secada, and Thomas
NOES: None
ABSTAIN: None
ABSENT: None

5. REPORTS

- 5a [Report on the June 2024 Operations Department](#)
(Damon Wyckoff, Director of Operations)

DISCUSSION: Michael Minkler answered questions from the Board.in Mr. Wyckoff's absence.

PUBLIC COMMENT: No public comment was heard.

- 5b [General Manager's Report](#)
(Michael Minkler)

Mr. Minkler reported on the following activities: 1) the new District website; 2) the Climate Change Resilience Bond; 3) the new Making Conservation a Way of Life legislation; 4) Steve Williams is the

new interim City Administrator for the City of Angels Camp; 5) the Calaveras Public Power Authority (CPPA) meeting on Wednesday morning; 6) the Calaveras-Amador Mokelumne River Authority (CAMRA) meeting on Wednesday afternoon.

6. BOARD REPORTS / INFORMATION / FUTURE AGENDA ITEMS

Director Underhill reported on the 4th of July Parade in Arnold.

Director Ratterman reported on the upcoming Mountain Counties Water Resources Association (MCWRA) Placer County Water Agency (PCWA) Tour and the legislative tour on October 3 and October 4 with Senator Alvarado-Gil.

Director Davidson had nothing to report.

Director Secada reported on the Finance Committee meeting Tuesday.

Director Thomas reported on the Real Estate Review ad hoc meeting.

7. NEXT BOARD MEETINGS

- Wednesday, July 24, 2024, 1:00 p.m., Regular Board Meeting
- Wednesday, August 14, 2024, 1:00 p.m., Regular Board Meeting

8. CLOSED SESSION

The meeting adjourned into Closed Session at approximately 2:39 p.m. Those present were Board Members: Scott Ratterman, Cindy Secada, Bertha Underhill, Russ Thomas, and Jeff Davidson; Michael Minkler, General Manager; and General Counsel Matt Weber, via teleconference.

- 8a Conference with Legal Counsel – Anticipated Litigation. Significant exposure to litigation pursuant to subdivision (d)(2) of Government Code section 54956.9. - two potential case

9. REPORTABLE ACTION FROM CLOSED SESSION

The Board reconvened into Open Session at approximately 3:12 p.m. There was no reportable action.

10. ADJOURNMENT

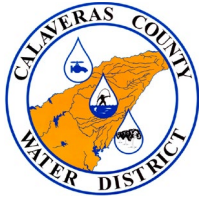
With no further business, the meeting adjourned at approximately 3:12 p.m.

By:

ATTEST:

Michael Minkler
General Manager

Rebecca Hitchcock
Clerk to the Board



MINUTES

CALAVERAS COUNTY WATER DISTRICT REGULAR BOARD MEETING

JULY 24, 2024

Directors Present: Russ Thomas, President
Bertha Underhill, Vice-President
Scott Ratterman, Director
Cindy Secada, Director
Jeff Davidson, Director

Staff Present: Michael Minkler, General Manager
Matt Weber Esq, General Counsel*
Rebecca Hitchcock, Clerk to the Board
John Coleman, Water Resources Manager
Jeffrey Meyer, Director of Administrative Services
Stacey Lollar, Human Resources Manager*
Kate Jesus, Human Resources Technician*
Mark Rincon-Ibarra, District Engineer*
Haley Airola, Engineering Coordinator*
Kelly Richards, Business Services Manager*
Dylan Smith, IT Administrator*
Corinne Skrbina, Customer Service*
Michael Bear, Accountant*
Bana Rouson-Gedese, Water Resources Specialist*
Tiffany Burke, Operations Administrative Technician*

Others Present: Andrew Brown, Director - PFM Asset Management LLC
Ryan Nicasio, Senior Vice President - PARS
Al Segalla, TCTA
Michael Rodgers*

*Attended Virtually

ORDER OF BUSINESS

CALL TO ORDER / PLEDGE OF ALLEGIANCE

1. ROLL CALL

President Thomas called the Regular Board Meeting to order at 1:03 p.m. and led the Pledge of Allegiance. All Directors were present.

2. PUBLIC COMMENT: Public comment was given by Ralph Copeland, Michael Castro, Patrick Roy, and Francisco de la Cruz.

3. CONSENT AGENDA

- 3a Approval of Minutes for the Board Meeting of June 26, 2024
(Rebecca Hitchcock, Clerk to the Board)
- 3b Report on the Monthly Investment Transactions for June 2024
(Jeffrey Meyer, Director of Administrative Services)
- 3c Consideration of Amendment to the District's Conflict of Interest Code
(Rebecca Hitchcock, Clerk to the Board) **RES 2024-47**

MOTION: Director Davidson/Ratterman Moved to approve the Consent Agenda Items 3a, 3b, and 3c as presented

AYES: Directors Davidson, Ratterman, Underhill, Secada, and Thomas
NOES: None
ABSTAIN: None
ABSENT: None

4. NEW BUSINESS

- 4a [Discussion/Action regarding the Annual Resolution to Place Delinquent Charges on County Tax Rolls](#)
(Jeffrey Meyer, Director of Administrative Services) **RES 2024-48**

DISCUSSION: Jeffrey Meyer presented the annual list of delinquent accounts to be sent to the County tax rolls and responded to questions from the Board.

MOTION: Director Davidson/Ratterman Moved to Approve Placing Delinquent Charges on the County Tax Rolls

PUBLIC COMMENT: Public comment was given by Patrick Roy, Mike Rogers, Michael Castro, and Francisco de la Cruz.

AYES: Directors Davidson, Ratterman, Secada, Underhill, and Thomas
NOES: None
ABSTAIN: None
ABSENT: None

- 4b [Discussion regarding the 2023-2024 Calaveras County Civil Grand Jury Report](#)
(Michael Minkler, General Manager)

DISCUSSION: Michael Minkler addressed some of the findings from the 2023-24 Calaveras County Grand Jury Report and responded to questions from the Board. Mr. Minkler stated a formal discussion on the official Board of Directors response to the Grand Jury report would happen at an upcoming meeting.

PUBLIC COMMENT: Public comment was given by Ralph Copeland, Mike Rogers, Francisco de la Cruz, Michael Castro, Patrick Roy and Anothony Emlen from Enterprise.

5. REPORTS

5a [General Manager's Report](#)
(Michael Minkler)

Mr. Minkler reported on the following activities: 1) the Calaveras Public Power Authority (CPPA) meeting; 2) the Calaveras-Amador Mokelumne River Authority (CAMRA) meeting; 3) the upcoming External Relations Committee meeting; 4) a Tyler Finance and HR module implementation update; and 5) the Highway 4 Partnership meeting.

6. BOARD REPORTS / INFORMATION / FUTURE AGENDA ITEMS

Director Underhill had nothing to report.

Director Ratterman reported on the Northern California Power Agency (NCPA) Annual Commission dinner, the Association of California Water Agencies (ACWA) JPIA meeting, the Mountain Counties Water Resources Association (MCWRA) meeting, and the Real Estate Ad hoc meeting.

Director Davidson had nothing to report.

Director Thomas reported on the Calaveras County Parks and Recreation Commission meeting.

Director Secada reported on the 1st Annual Street Party in West Point on August 10, 2024.

7. NEXT BOARD MEETINGS

- Wednesday, August 14, 2024, 1:00 p.m., Regular Board Meeting
- Wednesday, August 28, 2024, 1:00 p.m., Regular Board Meeting

8. CLOSED SESSION

The meeting adjourned into Closed Session at approximately 3:00 p.m. Those present were Board Members: Scott Ratterman, Cindy Secada, Russ Thomas, Bertha Underhill, and Jeff Davidson; Michael Minkler, General Manager; and General Counsel Matt Weber.

- 8a Conference with Legal Counsel – Anticipated Litigation. Significant exposure to litigation pursuant to subdivision (d)(2) of Government Code section 54956.9. - two potential case

9. REPORTABLE ACTION FROM CLOSED SESSION

The Board reconvened into Open Session at approximately 3:30 p.m. There was no reportable action.

10. ADJOURNMENT

With no further business, the meeting adjourned at approximately 3:30 p.m.

By:

ATTEST:

Michael Minkler
General Manager

Rebecca Hitchcock
Clerk to the Board

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Agenda Item

DATE: August 14, 2024
TO: Michael Minkler, General Manager
FROM: Rebecca Hitchcock, Clerk to the Board
SUBJECT: Review Board of Directors Time Sheets for July 2024

RECOMMENDED ACTION:

For information only.

SUMMARY:

Pursuant to direction from the Board of Directors, copies of the Board's monthly time sheets, which the Board is compensated from, are included in the monthly agenda package for information. Attached are copies of the Board's time sheets for the month of July 2024.

Board Members can be reimbursed for mileage cost to travel to meetings/conferences and are paid at the current IRS rate.

FINANCIAL CONSIDERATIONS:

Monthly compensation and mileage reimbursement costs are included in the FY 24-25 budget.

STRATEGIC PLAN INITIATIVES:

FR-08 Communicate the District's fiscal obligations and accountability to our customers through transparency and effective public outreach.

Attachments: Board of Directors Time Sheets for July 2024

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**Calaveras County Water District
Claim Summary #629
June 2024 vs July 2024**

	Jun 2024	Jul 2024
CCWD Operating Expenditures	1,547,255.24	1,778,894.39
Expenditures to be reimbursed/Fiduciary Payments	9,302.75	381,071.98
Capital Improvement Program Projects	1,002,614.11	3,111,445.78
Capital Outlay	-	0.00
Sub-Total Vendor Payments	2,559,172.10	5,278,998.91
Payroll Disbursed	601,356.74	646,057.01
Other EFT Payments	5,075.89	5,315.31
Total Disbursements	3,165,604.73	5,930,371.23

Project No.	CIP Projects Project Description	Total Project Budget	FY 24-25 Budgeted Cash Flow	Jul Expenditures Plus Labor	FY 24-25 YTD Expenditures	Total Expenditures to Date	Remaining Project Balance
WATER							
Copper Cove							
11083C	Copper Cove Tank B/Clearwell	8,600,000	4,000,000	435,113	4,551,150	4,551,150	4,048,850
11104	Lake Tulloch Intertie Project	7,500,000	750,000	1,905	30,647	30,647	7,469,353
11122	Copper C Tank Trans Pipeline	10,000,000	100,000	2,251	385,791	385,791	9,614,209
Ebbetts Pass							
11083S	Ebbetts Pass Sawmill Tank	3,160,000	350,000	2,199	2,199	13,330	3,146,670
Jenny Lind / Wallace							
11083J	Jenny Lind Clearwell #2	850,000	500,000	538	538	99,576	750,424
11088	Jenny Lind A-B Transmission Main	13,500,000	6,000,000	9,614	9,614	2,189,900	11,310,100
WASTEWATER							
Arnold / Forest Meadows							
15095	Arnold Secondary Clarifier/WWTP Improvements	9,200,000	723,038	1,759	1,759	715,910	8,484,090
Copper Cove							
15076	CC Lift Station 6, 8 & Force Main Bypass	5,500,000	2,000,000	107,181	107,181	4,225,980	1,274,020
15080	CC Lift Station 15 & 18 Rehab/Replacement	3,600,000	1,000,000	5,494	5,494	2,998,257	601,743
15094T	CC Tertiary, DAF, and UV Improvements	1,996,190	1,500,000	2,205	2,205	718,106	1,278,084
West Point / Wilseyville / Vallecito							
15091	West Point/Wilseyville Consolidation Project	10,000,000	2,500,000	5,805	5,805	6,349,269	3,650,731

CCWD - AP DISBURSEMENTS

JULY 1-31, 2024

	Vendor	Description	Check Date	Check No	Amount
1	49er WATER SERVICES	Waste Water Lab Samples 01/24 - 06/24	06/30/24	144895	27,948.00
2	49er WATER SERVICES	Water Lab Samples 01/24 - 06/24	06/30/24	144895	39,152.00
3	A T & T	Leased Acct#23584106903335 07/24	07/10/24	144883	63.15
4	A T & T	Internet Service Acct#129469186 06/24	06/30/24	144896	95.59
5	A T & T	Acct#287318536357 IT Phone 07/24	07/17/24	144998	130.95
6	A T & T	Acct#9391064579 Warehouse 07/24	07/25/24	145025	57.95
7	A T & T CALNET 3	Acct#939067346 Camp Connel 06/24	06/30/24	144897	213.90
8	A T & T CALNET3	Acct#9391029200 Dorrington 07/24	07/25/24	145026	29.12
9	A T & T CALNET3	Acct#9391029201 District Wide 07/24	07/25/24	145027	1,518.00
10	A T & T CALNET3	Acct#9391032214 JLTC 07/24	07/25/24	145028	148.47
11	A T & T CALNET3	Acct#9391029194 OP HQ Long Distance 07/24	07/25/24	145029	409.89
12	A T & T CALNET3	Acct#9391029198 Hunters 07/24	07/25/24	145030	29.79
13	A T & T CALNET3	Acct#9391032216 Azalea L/S 07/24	07/25/24	145031	28.19
14	A T & T CALNET3	Acct#9391029197 CC Whse 07/24	07/25/24	145032	3.12
15	A T & T CALNET3	Acct#9391032215 T Line 07/24	07/25/24	145033	339.64
16	A T & T CALNET3	Acct#9391029199 JLTC 07/24	07/25/24	145034	29.75
17	A T & T MOBILITY	Internet Service Sheep Ranch 06/24	06/30/24	144898	267.33
18	A TEEM ELECTRICAL ENG INC	Electrical Eng/Construction Services CC L/S 15 & 18, CIP 15080	06/30/24	144899	2,075.00
19	A TEEM ELECTRICAL ENG INC	Electrical Eng/Construction Services CC L/S 6 & 8, CIP 15076	06/30/24	144899	2,075.00
20	A TEEM ELECTRICAL ENG INC	Electrical Eng/Construction Services WP, CIP 15091	06/30/24	144899	1,180.00
21	A TEEM ELECTRICAL ENG INC	Ignition Support Software - CCWTP	06/30/24	144963	2,102.40
22	A TEEM ELECTRICAL ENG INC	SCADA Work for Filter Control - Hunters WTP	06/30/24	144963	4,600.00
23	ACWA/JPIA	Acct#JJ325 08/24	07/10/24	144884	12,651.80
24	ACWA/JPIA	Workers Comp 04/01/24 - 06/30/24	06/30/24	144964	28,363.04
25	ADP INC	Payroll Processing	06/30/24	145045	2,084.55
26	AFLAC	Acct#JJ325 06/24	06/30/24	144900	1,336.86
27	ANGELS HEATING AND AIR CONDITIONING	HVAC Service - CC Raw Water PS 05/24	06/30/24	144965	352.50
28	ANGELS HEATING AND AIR CONDITIONING	HVAC Service - JLTC	06/30/24	144965	638.63
29	ARNOLD AUTO SUPPLY	Repair Parts EP 06/24	06/30/24	144966	232.34
30	BHI MANAGEMENT CONSULTING	Recruitment Services - Engineer	06/30/24	144901	2,437.50
31	BIG VALLEY FORD LINCOLN MERCURY	Wheel Assembly V732	06/30/24	144902	117.92
32	BOBCAT CENTRAL, INC	Repair Parts - Skid Steer 770 - IRWWTP FEMA Project *	07/17/24	144999	620.89
33	CA DEPT OF TAX AND FEE ADMIN	Use Sales Tax 2nd QTR 2024	07/25/24	EFT	472.00
34	CALAVERAS AUTO SUPPLY	Adapter 06/24	06/30/24	144967	7.12
35	CALAVERAS AUTO SUPPLY	Bearing Set Exchange SA Shop 06/24	06/30/24	144967	4.68
36	CALAVERAS AUTO SUPPLY	Brake Calipers and Pads V717 06/24	06/30/24	144967	202.69
37	CALAVERAS AUTO SUPPLY	Coolant & Gloves 06/24	06/30/24	144967	137.78
38	CALAVERAS AUTO SUPPLY	Filters & Oil 05/24	06/30/24	144967	355.66

CCWD - AP DISBURSEMENTS

JULY 1-31, 2024

	Vendor	Description	Check Date	Check No	Amount
39	CALAVERAS AUTO SUPPLY	Materials & Supplies - SA Shop 06/24	06/30/24	144967	57.99
40	CALAVERAS AUTO SUPPLY	Oil SA Shop 06/24	06/30/24	144967	279.89
41	CALAVERAS AUTO SUPPLY	Repair Parts - Cargo Trailer 06/24	06/30/24	144967	73.96
42	CALAVERAS AUTO SUPPLY	Repair Parts - SA Shop	06/30/24	144967	344.36
43	CALAVERAS AUTO SUPPLY	Repair Parts - V126	06/30/24	144967	950.12
44	CALAVERAS AUTO SUPPLY	Repair Parts - V728	06/30/24	144967	425.79
45	CALAVERAS AUTO SUPPLY	Repair Parts - V729	06/30/24	144967	424.07
46	CALAVERAS AUTO SUPPLY	Repair Parts - V743	06/30/24	144967	138.96
47	CALAVERAS AUTO SUPPLY	Repair Parts 06/24	06/30/24	144967	21.92
48	CALAVERAS AUTO SUPPLY	Repair Parts 06/24	06/30/24	144967	307.35
49	CALAVERAS AUTO SUPPLY	Repair Parts Compressor 06/24	06/30/24	144967	154.41
50	CALAVERAS AUTO SUPPLY	Repair Parts SA Shop 06/24	06/30/24	144967	519.05
51	CALAVERAS AUTO SUPPLY	Switch V 529 06/24	06/30/24	144967	331.42
52	CALAVERAS AUTO SUPPLY	Tools - Utility Crew	06/30/24	144967	423.11
53	CALAVERAS AUTO SUPPLY	Tools SA Shop 06/24	06/30/24	144967	795.10
54	CALAVERAS AUTO SUPPLY	Tools V723 06/24	06/30/24	144967	526.41
55	CALAVERAS AUTO SUPPLY	Wiring Crain 06/24	06/30/24	144967	26.60
56	CALAVERAS CONSOLIDATED FIRE	(637) Hydrant Maintenance - JL	06/30/24	144968	16,800.00
57	CALAVERAS COUNTY ENVIRONMENTAL HEALTH	Haz Mat Response/CUPA AR0000768 Wallace WTP	07/25/24	145035	272.00
58	CALAVERAS COUNTY PUBLIC WORKS	Encroachment Permit Potholing Copperopolis, CIP 11122	07/17/24	145000	500.00
59	CALAVERAS ENTERPRISE	Recruiting Ad - Temp Distribution Worker	06/30/24	144903	79.12
60	CALAVERAS ENTERPRISE	Recruitment Ad - Water/Wastewater Treatment Plant Operator	06/30/24	144969	79.12
61	CALAVERAS MINI-STORAGE	Tenant 197673 Storage Rent 07/24	07/10/24	144885	200.00
62	CALAVERAS MINI-STORAGE	Tenant 197673 Storage Rental 08/24	07/17/24	145001	210.00
63	CALPERS - RETIREMENT	CalPERS Retirement 06/30/2024 Payroll	07/09/24	EFT	56,846.33
64	CALPERS - RETIREMENT	CalPERS Retirement 07/15/2024 Payroll	07/22/24	EFT	58,484.71
65	CALPERS - RETIREMENT	UAL Prepayment 24/25	07/26/24	EFT	644,902.00
66	CALPERS (Def Comp)	Def Comp Disbursement 06/30/2024 Payroll	07/09/24	EFT	8,916.08
67	CALPERS (Def Comp)	Def Comp Disbursement 07/15/2024 Payroll	07/22/24	EFT	8,655.22
68	CALPERS (Health Ins)	Health Insurance 07/24,	07/03/24	EFT	181,789.53
69	CAMPORA	5.513 Gallons Propane Acct#5075516 WP WWTP	06/30/24	144904	18.58
70	CANEPa, CRAIG	Reimbursement Meal Late Hours Aero Fire - Canepa	06/30/24	144905	48.10
71	CARBON COPY INC	Copies 06/24	06/30/24	144906	174.56
72	CARDNO INC	Environmental Services, Biological/Cultural Res, CIP 11103	06/30/24	144907	5,344.26
73	CED CREDIT	Electrical Supplies - Stock	06/30/24	144908	144.01
74	CED CREDIT	Electrical Materials - WTP Fire Repair	06/30/24	144970	837.88
75	CHECK PROCESSING INC	Lock Box Processing 06/25	06/30/24	144971	1,036.89
76	CISCO FIRE SPRINKLER, INC.	Annual Fire Extinguisher Testing - District Wide	06/30/24	144972	2,000.00

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	Vendor	Description	Check Date	Check No	Amount
77	CITY OF ANGELS	Six Mile Village 06/24	06/30/24	144909	3,689.76
78	CLARK PEST CONTROL INC	Pest Control Acct#1768120 WP WWTP	07/10/24	144886	163.00
79	CLARK PEST CONTROL INC	Pest Control Acct#2120969 Wallace	07/10/24	144886	151.00
80	CLARK PEST CONTROL INC	Pest Control Acct#807360 La Contenta	07/10/24	144886	106.00
81	CLARK PEST CONTROL INC	Pest Control Acct#1505308 Hunters	06/30/24	144910	121.00
82	CLARK PEST CONTROL INC	Pest Control Acct#730179 CC WTP	06/30/24	144910	117.00
83	CLARK PEST CONTROL INC	Pest Control Acct#1365831 Arnold WWTP	06/30/24	144973	110.00
84	CLARK PEST CONTROL INC	Pest Control Acct#1297711 WP WTP	07/17/24	145002	135.00
85	CLARK PEST CONTROL INC	Pest Control Acct#13658331 Arnold WWTP	07/17/24	145002	110.00
86	CLARK PEST CONTROL INC	Pest Control Acct#190086855 FM WWTP	07/17/24	145002	110.00
87	CLARK PEST CONTROL INC	Pest Control Acct#688236 Southworth WWTP	07/17/24	145002	107.00
88	CLARK PEST CONTROL INC	Pest Control Acct#807549 JLWTP	07/17/24	145002	81.00
89	CLARK PEST CONTROL INC	Pest Control Acct#1505308 Hunters	07/25/24	145036	121.00
90	COLEMAN ENGINEERING, INC.	Engineering/Design Services Jenny Lind A-B T/L, CIP 11088	06/30/24	144912	5,439.35
91	COLEMAN, JOHN	ACWA Travel/Meal Reimbursement - Coleman	06/30/24	144911	317.90
92	COLEMAN, JOHN	ICS Training Mileage Reimbursement - Coleman	06/30/24	144911	54.40
93	COLUMBIA COMMUNICATIONS	Vehicle Cloud Service 06/24	06/30/24	144913	780.00
94	CONCRETE EQUIPMENT SERVICES INC	Repair Parts	07/17/24	145003	43.21
95	CONDOR EARTH TECHNOLOGIES INC	FY 23/24 Groundwater Monitoring - District Wide 06/24	06/30/24	145046	4,413.00
96	CONFIDENTIAL	60 Hours PTO Pay Out	07/10/24	144891	1,866.25
97	CONFIDENTIAL	Final CTO/PTO Pay Out	07/17/24	145007	5,993.02
98	CONFIDENTIAL	Final Pay	07/17/24	145007	592.35
99	CONFIDENTIAL	CTO Pay Out 58 Hours	07/17/24	145008	2,239.00
100	CONFIDENTIAL	CTO Pay Out 30 Hours	07/17/24	145014	1,289.86
101	COPPER AUTO & MARINE	Generator Repair	07/17/24	145004	11.79
102	CPPA	Power District Wide 06/24	06/30/24	144914	173,282.41
103	CPPA	Power OP HQ 06/24	06/30/24	144914	1,453.00
104	CPUD	Water Service Corp Yard 06/24	06/30/24	144915	115.14
105	CPUD	Water Service OP HQ 06/24	06/30/24	144915	365.30
106	CUES INC	Annual Granite Net Software Maintenance - 07/23/24 to 07/22/25	07/17/24	145005	3,850.28
107	CVCWA	Membership Dues 07/01/24 - 06/30/25	07/10/24	144887	2,300.00
108	CWEA	CSM1 Renewal - Burke	07/17/24	145006	106.00
109	CWEA	CSM1 Renewal - Byous	07/25/24	145037	106.00
110	D.A. WOOD CONSTRUCTION, INC.	Construction Services, Jenny Lind A-B Transmission, CIP 11088	06/30/24	144974	1,287,171.85
111	DATAPROSE	Past Due Notices 06/24	06/30/24	144975	469.17
112	DAVIDSON, JEFF	Travel 06/24 Davidson	06/30/24	144916	56.28
113	DE LAGE LANDEN FINANCIAL SRVC INC	Copier Lease 07/2024	07/31/24	EFT	294.71
114	DENISE LANDSTEDT	Grant Administration Services 06/24	06/30/24	144934	3,650.00

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	Vendor	Description	Check Date	Check No	Amount
115	DEVICH, JARED	Safety Boot Reimbursement FY 24/25- Devich	07/10/24	144888	200.00
116	DIGITAL DEPLOYMENT INC	Annual Cost for Streamline Website (FY 2024/25)	07/10/24	144889	14,280.00
117	DIGITAL DEPLOYMENT INC	Website Build Out	06/30/24	144917	2,500.00
118	DOWNEY BRAND ATTORNEYS LLP	Legal Services 31348.00000 05/24	06/30/24	144918	4,930.00
119	DOWNEY BRAND ATTORNEYS LLP	Legal Services 31348.00003 05/24	06/30/24	144918	306.00
120	DUBURG, MICHAEL	Safety Boot Reimbursement FY 24/25 - DuBurg	07/17/24	145008	165.59
121	EBBETTS PASS GAS SERVICE	Fuel EP 06/24	06/30/24	144919	1,678.55
122	EKI ENVIRONMANT & WATER INC	Water Resources Services 05/24	06/30/24	144920	1,378.52
123	ELLIS, JON	Claim Settlement 3521 Hwy 4 Avery - 06/24	06/30/24	145047	2,956.73
124	ENTERPRISE FM TRUST	Vehicle Lease Acct#441657B 07/24	07/17/24	145009	33,959.23
125	FASTENAL	Materials & Supplies - Stock	06/30/24	144976	216.28
126	FASTENAL	Materials & Supplies - Vending	06/30/24	144976	769.77
127	FASTENAL	Safety Supplies - Stock	06/30/24	144976	5,409.35
128	FASTENAL	Safety Supplies - Vending	06/30/24	144976	210.24
129	FEDERAL ENERGY REGULATORY COMM	Hydropower Annual Charges 2024 Company ID 021695 *	06/30/24	144977	360,740.31
130	FLEXIM AMERICAS CORP	Flow Meter Replacement & Cable - WPWTP Fire Damage	06/30/24	144978	17,983.00
131	FOOTHILL MATERIALS	Base Rock - IRWWTP FEMA Project *	06/30/24	144979	7,639.16
132	FOOTHILL PORTABLE TOILETS	Rental Portable Toilet 06/19-07/16 Sheep Ranch	07/25/24	145039	154.50
133	FOOTHILL PORTABLE TOILETS	Rental Portable Toilet 06/19-07/16 Wallace	07/25/24	145039	154.50
134	FOOTHILL SIERRA PEST CONTROL	Pest/Weed Control (Kiva) #28096	07/17/24	145010	1,000.00
135	FREEDOM INFORMATION TECHNOLOGY SOLUTIONS IN	Admin Services Replacement Laptop	06/30/24	144921	1,243.15
136	FREEDOM INFORMATION TECHNOLOGY SOLUTIONS IN	IT Laptop Spare	06/30/24	144921	2,109.80
137	FRY, BENTON	Safety Boot Reimbursement FY 23/24 - Frye	06/30/24	144922	200.00
138	GAMBI DISPOSAL INC.	Bio-Solids Removal - June 2024	06/30/24	144980	1,750.00
139	GENERAL PLUMBING SUPPLY CO INC	Fittings - District	06/30/24	145048	26,706.79
140	GENERAL PLUMBING SUPPLY CO INC	Gate Valve - District	06/30/24	145048	4,943.77
141	GENERAL SUPPLY COMPANY	Electrical Parts - CCWTP Ozone Project	06/30/24	144981	1,249.29
142	GHX INDUSTRIAL LLC	Kanaflex PVC Hose - V 145	06/30/24	144923	348.52
143	GLOBAL PAY	Global Payments 24728 06/2024	07/29/24	EFT	23,837.44
144	GLOBAL PAY	Global Payments 7167 06/2024	07/29/24	EFT	7,470.37
145	GRAINGER	Air Relief Valve - JLWTP	06/30/24	144924	852.37
146	GRAINGER	Tool Box -V766	06/30/24	144924	1,871.82
147	GRAINGER	Electrical Parts - Sawmill Tank, Pump Room and Chlorine Room	06/30/24	144982	321.71
148	GREER, ROY	Safety Boot Reimbursement FY 24/25 - Greer	07/10/24	144890	128.69
149	HANSON BRIDGETT LLP	Legal Services 040081.00001 05/24	06/30/24	144925	680.00
150	HANSON BRIDGETT LLP	Legal Services 040081.00001 06/24	06/30/24	144925	3,825.00
151	HANSON BRIDGETT LLP	Legal Services 040171.00001 05/24	06/30/24	144925	3,161.80
152	HANSON BRIDGETT LLP	Legal Services 040171.00001 06/24	06/30/24	144925	2,762.50

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	Vendor	Description	Check Date	Check No	Amount
153	HERD'S MACHINE & WELD SHOP	Angle Iron V747	06/30/24	144926	52.55
154	HERD'S MACHINE & WELD SHOP	Roll Plate 3/8 V767	06/30/24	144926	303.97
155	HOLT OF CALIFORNIA	Radiator - CC B Tank Aero Fire Emergency Repair - G 02	06/30/24	144983	6,760.75
156	HOLT OF CALIFORNIA	Filter, Element & Plug Kit	07/17/24	145011	200.88
157	HORNE LLP	Recapture LIHWAP Funds FY 23-24	06/30/24	145049	1,189.38
158	HUNT & SONS, INC	5 Gallons Oil SA Shop	06/30/24	144927	119.43
159	HUNT & SONS, INC	Fuel - OP HQ	07/17/24	145012	2,295.96
160	HYDROSCIENCE ENGINEERS INC	Design/Engineering for Arnold Secondary Clarifier, CIP 15095	06/30/24	144928	14,979.85
161	HYDROSCIENCE ENGINEERS INC	Design/Engineering Services for Copper Cove WW, CIP 15094	06/30/24	144984	76,159.55
162	INDUSTRIAL ELECTRICAL CO	Aerator Motor - FMWWTP	06/30/24	145050	2,398.42
163	INTERSTATE TRUCK CENTER	Belt	06/30/24	144929	11.79
164	IRON MOUNTAIN	Document Destruction 06/24	06/30/24	144930	179.07
165	JACKSON TIRE SERVICE, INC	Tires (2)	07/17/24	145013	208.12
166	JAMESVILLE OFFICE FURNITURE	Office Furniture	06/30/24	144931	4,484.12
167	JS WEST PROPANE GAS	122.9 Gallons Propane - JLTC	06/30/24	144932	407.26
168	KW EMERSON, INC	Construction Services for West Point Wilseyville, CIP 15091	06/30/24	144933	212,769.73
169	LEDGER DISPATCH	Recruitment Ad Customer Service Rep	06/30/24	144935	22.80
170	MALANAPHY, KEVIN	UB Refund 787 ST Andrews Drive	07/17/24	145015	390.32
171	Mission Square	Retiree Health 06/30/2024 Payroll	07/09/24	EFT	2,310.00
172	Mission Square	Retiree Health 07/15/2024 Payroll	07/22/24	EFT	2,310.00
173	MODESTO AIRCO GAS & GEAR	Cylinder Rental 06/24	06/30/24	144936	104.00
174	MOTHER LODE ANSWERING SERVICE	Answering Service 06/24	06/30/24	144985	991.41
175	MOUNTAIN COUNTIES WATER RESOURCES ASSOC	Membership Dues FY 24/25	07/10/24	144892	11,964.00
176	MOUNTAIN OASIS PURIFIED WATER	Water Cooler & Supplies 06/24	06/30/24	144937	217.85
177	MOZINGO CONSTRUCTION, INC.	Construction Services for CC Lift Stations 12 & 13, CIP 15080	06/30/24	144938	202,999.37
178	MOZINGO CONSTRUCTION, INC.	Construction Services for CC Lift Stations 6 & 8, CIP 15076	06/30/24	144938	390,138.97
179	MUNICIPAL MAINTENANCE EQUIP	Leader Hose - V135	06/30/24	144939	152.71
180	MUNICIPAL MAINTENANCE EQUIP	Remote Transmitter - V135	06/30/24	144939	2,671.93
181	MUTUAL OF OMAHA	Life, AD&D Acct#G000AWXB 07/24	07/10/24	144893	7,637.91
182	NOLTE ASSOCIATES INC. DBA NV5	Consultant Services for Groundwater Level and Water QLTY 06/24	06/30/24	145051	2,697.94
183	NORTHSTAR CHEMICAL	Sodium Hypochlorite - CCWTP	06/30/24	144986	2,426.00
184	NORTHSTAR CHEMICAL	Sodium Hypochlorite - JLWTP	06/30/24	144986	4,155.97
185	NORTHSTAR CHEMICAL	Sodium Hydroxide - AWWTP	07/17/24	145016	7,627.62
186	NORTHSTAR CHEMICAL	Sodium Hydroxide - CC LS 12	07/17/24	145016	1,503.22
187	NORTHSTAR CHEMICAL	Sodium Hydroxide - CC LS 40	07/17/24	145016	3,753.75
188	NORTHSTAR CHEMICAL	Sodium Hydroxide - DF VCTO	07/17/24	145016	2,646.93
189	NORTHSTAR CHEMICAL	Sodium Hypochlorite - AWWTP	07/17/24	145016	2,762.97
190	NORTHSTAR CHEMICAL	Sodium Hypochlorite - Hunters WTP	07/17/24	145016	7,260.67

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191	NORTHSTAR ENGINEERING GROUP, INC	On Site Staking Services for Jenny Lind A-B, CIP 11088	06/30/24	144940	12,965.55
192	OCCU-MED, LTD	Pre Employment Screening 06/24	06/30/24	145052	805.50
193	O'CONNELL & DEMPSEY, LLC	Legislative Lobbying Activities 05/24	06/30/24	144941	6,000.00
194	O'CONNELL & DEMPSEY, LLC	Legislative Lobbying Activities 06/24	06/30/24	144941	6,000.00
195	O'REILLY AUTO PARTS	Repair Parts V 714	06/30/24	144987	77.59
196	O'REILLY AUTO PARTS	Supplies JL A Tank	06/30/24	144987	5.89
197	P G & E	Power- CC Water Tank	07/29/24	EFT	55.88
198	P G & E	Power- District	07/29/24	EFT	2,763.03
199	P G & E	Power- George Reed Dr/OP HQ	07/29/24	EFT	29.64
200	P G & E	Power- Silver Rapids/JLTC	07/29/24	EFT	191.69
201	P G & E	Power- Silver Rapids/VS House	07/29/24	EFT	49.94
202	P G & E	Power- Wallace Spray Fields	07/29/24	EFT	24.64
203	P G & E	Power- Warmwood L/S	07/29/24	EFT	30.62
204	P G & E	Power- Woodgate L/S	07/29/24	EFT	41.84
205	PAC MACHINE CO INC.	Motor - DF VCTO	06/30/24	144942	2,714.11
206	PACE SUPPLY CORP	Fittings - Distribution	06/30/24	144943	5,869.15
207	PDC DIESEL PERFORMANCE	Repair AC - Backhoe	06/30/24	144944	106.24
208	PIKE, BRIAN	Claim Settlement 7798 Kirby Street	07/25/24	145040	98.43
209	RATTERMAN, SCOTT	Travel 06/24 - Ratterman	06/30/24	144945	75.71
210	RYAN HERCO PRODUCTS CORP.	Mag Pump - CCWWTP	06/30/24	144988	563.94
211	SAGE, THOMAS	Valley Trucker Exam Reimbursement - Sage	06/30/24	144946	100.00
212	SECADA, CINDY	Travel 06/24 - Secada	06/30/24	144947	51.86
213	SEIU LOCAL 1021	COPE 06/24 *	06/30/24	144948	40.00
214	SEIU LOCAL 1021	SEIU 06/24 *	06/30/24	144948	2,875.00
215	SENDERS MARKET INC	(20) Bags Redimix 60 lbs for Hydrants	06/30/24	144989	117.76
216	SENDERS MARKET INC	Battery Charger	06/30/24	144989	143.83
217	SENDERS MARKET INC	Blades- Utility Crew	06/30/24	144989	54.99
218	SENDERS MARKET INC	Building Repair Parts	06/30/24	144989	638.58
219	SENDERS MARKET INC	Concrete Copper Hydrants	06/30/24	144989	88.32
220	SENDERS MARKET INC	Material & Supplies- JLWTP	06/30/24	144989	23.33
221	SENDERS MARKET INC	Material & Supplies LC WWTP	06/30/24	144989	267.93
222	SENDERS MARKET INC	Material Supplies - Construction Crew	06/30/24	144989	28.91
223	SENDERS MARKET INC	Septic Tank Lids - Collections Crew	06/30/24	144989	817.18
224	SENDERS MARKET INC	Service Charge	06/30/24	144989	10.42
225	SHAPE INC	Pump Rebuild - LS 22	06/30/24	144949	22,653.15
226	SLAKEY BROS	Gaskets OP HQ	06/30/24	144950	136.26
227	SLAKEY BROS	Service Charge - Water	06/30/24	144950	15.33
228	SONORA FORD	New Battery Install - V735	06/30/24	144951	308.98

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	Vendor	Description	Check Date	Check No	Amount
229	SONORA FORD	Tail Light V762	06/30/24	145053	272.26
230	SPINK, RUTH	UB Refund 164 Bouvard St	07/17/24	145017	402.91
231	STAFFORD, AARON	Claim Settlement 2372 Arrowhead St	07/25/24	145041	170.30
232	SWRCB	WW Treatment Grade 1 Renewal - Grutzmacher	07/17/24	145018	110.00
233	SWRCB	Water D2 Exam Application - Canepa	07/17/24	145019	65.00
234	SWRCB	Water D3 Renewal - Burke	07/17/24	145019	90.00
235	T&S CONSTRUCTION CO., INC.	Construction Services CC Phase 1 & 2 Tanks, CIP 11083C	06/30/24	144990	636,093.51
236	THOMAS, RUSS	Travel 06/24 - Thomas	06/30/24	144953	239.86
237	TIFCO INDUSTRIES	Deburring Wheel - SA Shop	06/30/24	144954	143.76
238	TIFCO INDUSTRIES	Supplies - Mechanic Shop	07/25/24	145042	354.34
239	TREATS GENERAL STORE INC	Materials & Supplies SA Shop	06/30/24	144991	23.12
240	TROJAN TECHNOLOGIES C/O FIFTH THIRD BANK	UV Parts - CCWWTP	06/30/24	144955	37,360.67
241	TYLER TECHNOLOGIES, INC.	Insite Transaction Fees - 06/24	06/30/24	144992	16,574.00
242	TYLER TECHNOLOGIES, INC.	Subscription SMS & Notification Calls	06/30/24	144992	51.40
243	U.S. BANK	ACWA - Training Wyckoff	07/29/24	EFT	435.00
244	U.S. BANK	ACWA Conference - Underhill	07/29/24	EFT	240.00
245	U.S. BANK	ACWA Registration - Coleman	07/29/24	EFT	65.00
246	U.S. BANK	Alhambra 06/24	07/29/24	EFT	193.00
247	U.S. BANK	Altel - 06/24	07/29/24	EFT	1,343.68
248	U.S. BANK	Amazon Safety Tags	07/29/24	EFT	25.51
249	U.S. BANK	BOD Supplies	07/29/24	EFT	39.84
250	U.S. BANK	CA BPELSG Engineer Lic Renewal - Rincon-Ibarra	07/29/24	EFT	180.00
251	U.S. BANK	Cal Waste - 06/24	07/29/24	EFT	1,878.21
252	U.S. BANK	Cal.Net - 06/24	07/29/24	EFT	62.04
253	U.S. BANK	Calaveras County - Permit Fees	07/29/24	EFT	102.25
254	U.S. BANK	Canva - Business Cards	07/29/24	EFT	76.06
255	U.S. BANK	Canva - Subscription	07/29/24	EFT	119.90
256	U.S. BANK	Capital Assets Training - Bear & Muetterties	07/29/24	EFT	300.00
257	U.S. BANK	Comcast - 06/24	07/29/24	EFT	477.64
258	U.S. BANK	Container - OPs HQ	07/29/24	EFT	2,878.59
259	U.S. BANK	CSDA Conference Flight - Gerkenmeyer	07/29/24	EFT	529.96
260	U.S. BANK	CSDA Region 3 & 4 Event - Wyckoff	07/29/24	EFT	50.00
261	U.S. BANK	CSFMO Membership - Bear & Muetterties	07/29/24	EFT	110.00
262	U.S. BANK	CWEA E&I Membership - Devich	07/29/24	EFT	428.00
263	U.S. BANK	Door Repair - WPWWTP	07/29/24	EFT	1,199.50
264	U.S. BANK	Electrical Parts - Electricians	07/29/24	EFT	6,594.00
265	U.S. BANK	Employee Relations - Kids Day	07/29/24	EFT	1,331.48
266	U.S. BANK	Employee Relations - Kids Day Food	07/29/24	EFT	909.48

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	Vendor	Description	Check Date	Check No	Amount
267	U.S. BANK	Fence Repair JLWTP	07/29/24	EFT	424.50
268	U.S. BANK	Filter Elements- JLWTP	07/29/24	EFT	240.14
269	U.S. BANK	Fittings WP WTP	07/29/24	EFT	115.79
270	U.S. BANK	Floor Mat V767 & 764	07/29/24	EFT	540.32
271	U.S. BANK	Floor Mats - V765, V766	07/29/24	EFT	540.32
272	U.S. BANK	Flow Meter - JLWTP	07/29/24	EFT	110.03
273	U.S. BANK	HR Training - Lollar	07/29/24	EFT	39.15
274	U.S. BANK	HR Meeting - Jesus	07/29/24	EFT	35.00
275	U.S. BANK	HR Training - Lollar	07/29/24	EFT	105.85
276	U.S. BANK	IT Supplies	07/29/24	EFT	666.57
277	U.S. BANK	IT Training CBT Nuggets	07/29/24	EFT	1,160.06
278	U.S. BANK	Leadership Summit - Gerkenmeyer	07/29/24	EFT	775.00
279	U.S. BANK	Lowe's - Keys, Locks	07/29/24	EFT	168.28
280	U.S. BANK	Lunch Meeting (2) - Minkler	07/29/24	EFT	42.77
281	U.S. BANK	Mailing Board Packages	07/29/24	EFT	61.30
282	U.S. BANK	Mount & Balance Tires/ In Cab Air Filter V741 & 726	07/29/24	EFT	199.67
283	U.S. BANK	Ring Central & Conifer OP HQ	07/29/24	EFT	2,122.83
284	U.S. BANK	Senders - Wax Ring & Toilet Bulb	07/29/24	EFT	60.03
285	U.S. BANK	Silicone for Knox Boxes - Fire Dept	07/29/24	EFT	10.71
286	U.S. BANK	Spy point - Security Camera	07/29/24	EFT	99.99
287	U.S. BANK	Starlink	07/29/24	EFT	600.00
288	U.S. BANK	Starlink Internet	07/29/24	EFT	240.00
289	U.S. BANK	Supplies	07/29/24	EFT	1,607.81
290	U.S. BANK	Supplies - JLWTP	07/29/24	EFT	346.90
291	U.S. BANK	Supplies - Meeting	07/29/24	EFT	72.68
292	U.S. BANK	Supplies - WTP	07/29/24	EFT	122.47
293	U.S. BANK	Supplies OP HQ	07/29/24	EFT	1,357.80
294	U.S. BANK	Testing Reagents - JLWTP	07/29/24	EFT	568.52
295	U.S. BANK	Tow Hitches - V765,V766, V767	07/29/24	EFT	1,026.39
296	U.S. BANK	Town Hall Meeting Supplies	07/29/24	EFT	20.06
297	U.S. BANK	Underground Electronic Hole Dozer - Fire Damage WPWTP, CIP 11106	07/29/24	EFT	24.66
298	U.S. BANK	USPS - Postage	07/29/24	EFT	19.70
299	U.S. BANK	Vestis (Uniforms) - 06/24	07/29/24	EFT	3,745.70
300	U.S. BANK	Volcano - 06/24	07/29/24	EFT	599.36
301	U.S. BANK	Water Code Updates	07/29/24	EFT	13.63
302	U.S. BANK	Webhosting, M365 Lic, PDF Editor IT SIEM & RMM	07/29/24	EFT	3,066.11
303	U.S. BANK	Zoro- Shut Off Tool/ Summit - Spanner Wrench	07/29/24	EFT	272.44
304	UMPQUA BANK-ACH	Retiree Health Reimbursement 07/2024 CONFIDENTIAL	07/03/24	EFT	1,438.01

CCWD - AP DISBURSEMENTS

JULY 1-31, 2024

	Vendor	Description	Check Date	Check No	Amount
305	UMPQUA BANK-ACH	CTO Payout Bank ACH 07/01/2024 CONFIDENTIAL	07/05/24	EFT	1,961.60
306	UMPQUA BANK-ACH	CTO Payout Bank ACH 07/02/2024 CONFIDENTIAL	07/05/24	EFT	1,446.35
307	UMPQUA BANK-ACH	CTO Payout Bank ACH 07/10/2024 CONFIDENTIAL	07/10/24	EFT	1,943.39
308	UMPQUA BANK-ACH	Umpqua Bank Fees June 2024	07/22/24	EFT	599.84
309	UMPQUA BANK-ACH	CTO Payout Bank ACH 07/26/2024 CONFIDENTIAL	07/26/24	EFT	797.41
310	UNDERHILL, BERTHA	Travel 06/24 - Underhill	06/30/24	144956	128.64
311	UNION DEMOCRAT	Recruitment Ads - Cust Svc Rep & Dist Worker 06/24	06/30/24	144957	2,253.30
312	UNITED PARCEL SERVICE	Shipping Week End 06/22 Acct#9X5040	06/30/24	144958	9.90
313	UNITED PARCEL SERVICE	Shipping Week End 06/30 Acct#9X5040	06/30/24	144958	23.64
314	UNITED PARCEL SERVICE	Shipping Week End 07/06 Acct#9X5040	07/17/24	145020	25.45
315	UNITED PARCEL SERVICE	Shipping Week End 07/13 Acct#9X5040	07/25/24	145043	9.90
316	USA BLUE BOOK	Lab Supplies - AWWTP & DF VCTO	06/30/24	144993	829.83
317	USA BLUE BOOK	Lab Supplies - CCWWTP	06/30/24	144993	6,924.55
318	USA BLUE BOOK	Solenoid Valve - AWWTP	06/30/24	144993	195.14
319	USA BLUE BOOK	Lab Supplies - WPWTP	07/17/24	145021	565.58
320	UTICA WATER & POWER AUTHORITY	Slurry Line Wheeling Cost 07/24	07/17/24	145022	659.16
321	VALIC	Def Comp Disbursement 06/30/2024 Payroll	07/09/24	EFT	500.00
322	VALIC	Def Comp Disbursement 07/15/2024 Payroll	07/22/24	EFT	500.00
323	VALLEY SPRINGS FEED INC	5.5 Gallons Propane JLWTP	07/17/24	145023	22.36
324	VALLEY SPRINGS NEWS	Legal Notice Ad - Budget	06/30/24	144959	52.00
325	VALLEY SPRINGS NEWS	Recruitment Ad - Cust Svc & Dist Worker	06/30/24	144959	88.00
326	VALLEY SPRINGS NEWS	Public Notice - Stand By Fees 06/24	06/30/24	144994	117.00
327	VEOLIA WATER TECHNOLOGIES, INC.	(2) Ozone Generators, (1) Diffuser Package - CCWTP, CIP 11133	06/30/24	145054	261,529.13
328	VERIFIED FIRST, LLC	New Hire Background Investigation	06/30/24	145055	78.52
329	VOYA FINANCIAL	Def Comp Disbursement 06/30/2024 Payroll	07/09/24	EFT	1,060.00
330	VOYA FINANCIAL	Def Comp Disbursement 07/15/2024 Payroll	07/22/24	EFT	984.00
331	WECO INDUSTRIES	Unloader Valve - V736	06/30/24	144995	567.70
332	WESTERN HYDROLOGICS	Water Rights Streamgaging Services 02/24	06/30/24	144960	8,260.75
333	WESTERN HYDROLOGICS	Water Rights Streamgaging Services 05/24	06/30/24	144960	2,408.25
334	WESTERN HYDROLOGICS	Field Maintenance/Data Computation Bear Creek & White Pine 06/24	06/30/24	144996	2,184.05
335	WESTERN HYDROLOGICS	Water Rights Streamgaging Services 06/24	06/30/24	144996	5,973.25
336	WESTERN UTILITIES UNDERGROUND	Annual Membership FY 24/25	07/25/24	145044	60.00
337	WEX BANK	Fuel 06/24	07/29/24	EFT	24,112.51
338	WIENHOFF DRUG TESTING	Drug Screen 06/24	06/30/24	144961	170.00
339	WILLDAN	AD 9S4 (Arnold) Local Improvement FY 24/25 *	07/10/24	144894	1,277.33
340	WILLDAN	AD DaLee/Cassidy RAD 2021 Local Improvement FY 24/25 *	07/10/24	144894	547.71
341	WILLDAN	AD FlyIn Acres RAD 2021 Local Improvement FY 24/25 *	07/10/24	144894	773.12
342	WSP USA ENVIRONMENT & INFRASTRUCTURE INC	Local Hazard Mitigation Plan Update 02/24	06/30/24	144962	1,202.50

CCWD - AP DISBURSEMENTS

JULY 1-31, 2024

	Vendor	Description	Check Date	Check No	Amount
343	YOUNG, DAVID	Safety Boot Reimbursement FY 24/25 - Young	07/17/24	145024	197.35
344	YOUNG'S COPPER ACE HARDWARE	Materials & Supplies - CC 06/24	06/30/24	144997	541.61
					5,278,998.91

* Reimbursable Expense

RESOLUTION NO. 2024-

**A RESOLUTION OF THE BOARD OF DIRECTORS
OF THE CALAVERAS COUNTY WATER DISTRICT**

RATIFYING CLAIM SUMMARY NO. 629

WHEREAS, the Board of Directors of the CALAVERAS COUNTY WATER DISTRICT has reviewed and considered Claim Summary Number 629 at the Regular Meeting held on August 14, 2024; and

WHEREAS, Board Members have resolved questions, issues, or concerns by consultation with District staff during said meeting.

NOW, THEREFORE, BE IT RESOLVED that the CALAVERAS COUNTY WATER DISTRICT Board of Directors hereby ratifies Claim Summary Number 629 in the amount of \$5,930,371.23 for the month of July 2024.

PASSED AND ADOPTED this 14th day of August 2024 by the following vote:

AYES:

NOES:

ABSTAIN:

ABSENT:

CALAVERAS COUNTY WATER DISTRICT

Russ Thomas, President
Board of Directors

ATTEST:

Rebecca Hitchcock
Clerk to the Board

3d



A G E N D A
I T E M

3d

Agenda Item

DATE: August 14, 2024

TO: Michael Minkler, General Manager

FROM: Jeffrey Meyer, Director of Administrative Services

SUBJECT: Extend the Agreement with Richardson & Company for Auditing Services for the Fiscal Year Ending June 30, 2024

RECOMMENDED ACTION:

By Minute Entry, Extend the Agreement with Richardson & Company for Auditing Services for the Fiscal Year Ending June 30, 2024.

SUMMARY:

Richardson & Company (“Richardson”) has provided financial auditing services to the District since the Fiscal Year ending June 30, 2016. The District’s agreement with Richardson ended with the completion of the audited financial statements for the Fiscal Year ending June 30, 2023. All work completed by Richardson has been accurate and exceptionally good.

Under normal circumstances the District would circulate a Request for Proposal (“RFP”) for auditing services. However, due to the extended absence of the Director of Administrative Service and the hiring of two new accountants, staff believes that extending the agreement is in the best interest of the District to complete the audit on schedule.

Richardson provided a quote to extend the agreement to cover the audit for the Fiscal Year ending June 30, 2024 (attached). The increase from the FY 2022-23 audit is \$2,000. Staff proposes the District retain the services of Richardson for one year and send out an RFP for auditing services beginning with the Fiscal Year ending June 30, 2025. This item was presented to the Finance Committee on April 16, 2024 and they recommended that the item be brought to the full Board for approval.

FINANCIAL CONSIDERATIONS:

The additional \$2,000 for audit services is in the FY 2024-25 Operating Budget.

Attachment: Richardson & Company Auditing Services Fee Proposal for the Fiscal Year Ending June 30, 2024

	Actual Fees 2023	Proposed Increase	Proposed Fees 2024	Proposed Fees 2024 Rounded
District Financial Statements	\$ 30,125	3.50%	\$ 31,179	\$ 31,200
(Optional) Single Audit	4,700	300	5,000	5,000
(Optional Lump Sum) - State Controller Report District	775	3.50%	802.13	800
(Optional Lump Sum) - State Controller Report Finance Authority			600.00	600
	<u>\$ 35,600</u>		<u>\$ 37,582</u>	<u>\$ 37,600</u>
				\$ 2,000
				5.62%

The single audit fee has not been adequate to cover payroll so we increased that fee more than inflation. That fee would only apply if a single audit of federal grants is required. Also the State Controller's Report fee has not been adequate to prepare the 27 page Public Financing Authority State Controller Report and the District's 55 page report. When we bid the Finance Authority report did not include a page for each debt instrument and the Financing Authority was reported in a separate fund that could be used for the State Controller's Report. We now have to create a Public Financing Authority financial statement from Water Fund accounts before completing the report and have to include 7 pages of debt information at the State Controller's Office request. We added a separate fee for the Finance Authority report as a result.

4a



AGENDA
ITEM

4a

Agenda Item

DATE: August 14, 2024

TO: Michael Minkler, General Manager

FROM: Damon Wyckoff, Director of Operations

SUBJECT: Discussion regarding the Collaboration Between CCWD and Fire Protection Districts Within Our Service Areas to Maintain Fire Hydrants.

RECOMMENDED ACTION:

None. Informational Only

SUMMARY:

CCWD field staff spend a considerable effort working to improve the overall condition and operational effectiveness of the fire hydrants throughout the six separate distribution systems in Calaveras County. There are 2,265 fire hydrants throughout the service areas. Currently there are less than 30 out of service hydrants throughout CCWD Service Areas. This is an improvement over past conditions and a testament to the cooperation and teamwork of the CCWD Distribution Crews and the Utility & Construction Crews.

The reduction in the number of out of service fire hydrants is the result of focused rehabilitation and improvement efforts that occur alongside competing system priorities like service lateral repair, uni-directional flushing, and Pressure Reducing Valve (PRV) maintenance. The objective for fire hydrant maintenance is that every year the fire departments inspect, grease and static pressure test Distribution System Fire hydrants. The Fire Departments then provide a report to CCWD that describes operational deficiencies (hard to turn stems, missing caps, etc.) and inoperable hydrants found during the inspection effort. Distribution Crew Leaders then work with the Construction & Maintenance Manager to develop a plan to restore the hydrants to service.

The planning and coordination effort between the Fire Departments, the Construction/Utility Crew, and the Distribution Crews often takes time. This is for multiple reasons. CCWDs Distribution Crews are understaffed. The District, inherently runs lean. As such, hydrant rehab work requires the support of other field crews (usually the Construction or Utility) to muster the manpower to complete the hydrant repair work safely and effectively.

Most District fire hydrants do not have isolation valves (also called guard valves) on the hydrant runner (pipe from the water main to the fire hydrant). This eliminates any ability

to isolate the fire hydrant for rehab work. Instead, the installation of an isolation valve must come first, or neighboring homeowners must endure a water outage while the hydrant is being repaired. This is often the case in emergencies, as the District has little choice and must isolate the system to mitigate an emergency issue. But, when a shut down to repair a fire hydrant can impact hundreds if not thousands of people, it is best to install a valve as the first order of business. This work then provides the Distribution Crew with an improved time frame of repair for the hydrant as customers can be placed back into water while the CCWD team repairs or replaces the hydrant, without impacting customers.

System staffing, the lack of isolation valves, and the inordinate amount of “other” system work is why some hydrants remained out of service over multiple years in the past and why, in some years, the number of out of service hydrants increased rather than decreased.

Moreover, as crews struggle to keep up with day-to-day work efforts, it is challenging to maintain a strong valve exercising program and, as a result, the number of broken and/or difficult to operate valves can increase over time. In recent years CCWD Distribution Crews have focused on restoring valves to an acceptable operational condition (from routine, focused exercise or from scheduled replacement). This work has provided the District with the ability to rehabilitate and replace more out of service hydrants in recent years than in years past.

It should be highlighted that the good work our crews complete is also bolstered by the great inspection work our Fire District Partners complete on an annual basis. The Fire District’s inspection work is critical in working to ensure the District is aware of the condition of its fire protection infrastructure. This work also helps less experienced Firefighters gain an understanding of the challenges and unique aspects of our Distribution Systems. To improve that understanding, the District has provided training to firefighters educating them about our Distribution Systems and how they operate as well as how to effectively operate a fire hydrant without creating water quality issues or damaging the Distribution System. CCWD plans to continue this training into the future. It is critically effective in ensuring the integrity of our Distribution Systems.

The Fire Protection District’s help CCWD work to ensure the protection of our Customer’s Property, CCWD also works to assist the Fire Protection District’s in ensuring the cost effectiveness of that protection. This is accomplished through periodic fire protection system assessments conducted by the Insurance Services Office (ISO). The ISO calculates how well equipped a Fire protection District, or Fire Department, is prepared to protect Communities from fire. The ISO provides a score called an ISO Rating (also known as a fire score or a public protection classification) measured from 1(best) to 10 (worst). This score is then provided to Insurance providers who use it to help determine insurance rates for homeowners. The better the ISO Rating, the higher the likelihood for lower homeowner insurance rates. Four main criteria make up an ISO Rating:

- 50% - Quality of the fire department. Staffing level, training, and location of the fire house are included in this component.

- 40% - Water Supply. The number of fire hydrants, their flow rates, and how much water is available to put out fires are included in this assessment.
- 10% - The quality of the emergency communications systems (911, notification software like Everbridge, etc.)
- A bonus of 5.5% comes from community outreach, including fire prevention and safety courses.
- Any housing development more than 5 miles from the nearest fire station gets an automatic score of 10.

As you can see the water system is 40% of the overall ISO Rating. This means that the condition of CCWDs Distribution Systems plays a huge role in not only determining water quality and reliability, but also homeowners insurance costs. This fact does not escape CCWD staff in any way. As a matter of fact, ISO evaluations occur every 4 to 5 years. The District works closely with the Fire Protection Districts to assist in these evaluations and helps to improve our community's ISO Ratings.

For Example, in 2014, Ebbetts Pass Fire's ISO Rating was a 5/9Y, it is now at 2/2Y. Calaveras Consolidated's Jenny Lind System was a 5/5Y in 2023 and is now a 3/3Y. The Copper Cove System was also assessed in the early 2020's and is now a 4/4Y. These improvements are in large part to the District's Distribution Crews working closely with firefighters to make repairs to the system as necessary and to flow test hydrants as requested by our Fire Protection Partners.

To conclude, CCWDs relationship with our Fire Protection Partners remains strong. We all understand the importance of the infrastructure and work to ensure it will be ready when needed. Moreover, we know that the value of an effective, tested, well-maintained system goes beyond incident management. It carries over into our customers' budgets and that impact can remain with our communities for years. CCWD will not waver in its work within this arena. You can anticipate our cooperative work with our partners in the fire protection discipline to only improve over time as we strive to incorporate ways to improve our water systems and improve our ability to respond to and operate within emergency situations.

FINANCIAL CONSIDERATIONS:

The District Budgets \$56,625 annually to pay for the maintenance inspections of our 2,625 fire hydrants. The Capital Outlay budget for the 2025 fiscal year includes \$52,500 to replace fifteen aged and obsolete fire hydrants.

STRATEGIC PLAN INTIATIVES:

OI-04 Rehabilitate or replace aging infrastructure to increase reliability, capacity, and efficiencies.

OI-05 Develop a Health and Safety Program to promote health and safety in all that the District does to protect our community and proactively manage our risk.

4d



AGENDA
ITEM

4d

Agenda Item

DATE: August 14, 2024

TO: Michael Minkler, General Manager

FROM: Kevin Williams, Senior Civil Engineer

SUBJECT: Discussion/Action Regarding Awarding of Engineering and Design Contract for the Ebbetts Pass Sawmill Tank Replacement, CIP#11083S

RECOMMENDED ACTION:

Motion: _____/_____ adopting Resolution No. 2024 - ____ Awarding the Engineering and Design Contract for the Ebbetts Pass Sawmill Tank Replacement, CIP#11083S to Blackwater Engineering

SUMMARY:

The District issued a Request for Proposals (RFP) on June 3, 2024, for design and environmental services for the Ebbetts Pass Sawmill Tank Replacement. A copy of the RFP is attached which includes a project description and scope of work. The District would like to have the new tank design completed by March 2025, to have the Project publicly bid in May of 2025.

On the Proposal due date July 10, 2024, the District received proposals from five (5) different engineering firms including PBI, Blackwater, Schaafer & Wheeler, Domenichelli, and Coastland. Staff members including the District Engineer, Director of Operations, Construction/Maintenance Manager and Senior Engineer reviewed and evaluated the proposals individually and met to discuss the rankings and selection of the Consultant.

They were further reviewed with the following conditions:

- qualifications and experience
- content and presentation of the proposal
- approach to work/innovations
- completeness/variances in the proposed scope of work
- allocation of staff hours to each task
- cost effectiveness and value
- subconsultant support
- project schedule and ability to deliver work by bid timing goal
- team organization and focus on key project issues
- prior performance on similar projects

The recommendation to the Board is to award an engineering design contract to Blackwater Engineering according to the submitted proposal and authorize the General Manager to enter into a Professional Services Agreement with Blackwater Engineering in the amount of \$382,574 for engineering design and environmental services for the Ebbetts Pass Sawmill Tank, CIP#11083S.

FINANCIAL CONSIDERATIONS

The approved FY 24-25 CIP Budget includes \$350,000 for Ebbetts Pass Sawmill Tank Replacement, with funding from the Water Capital Renovation and Replacement Fund. This funding is sufficient for the base Project Proposal from Blackwater in the amount of \$382,574 with the consideration that \$86,616 of the total for construction assistance would not be spent until FY 25-26. The overall Project cost including construction is estimated at \$3,160,000 as the design progresses a more refined construction cost estimates will be provided.

STRATEGIC PLAN INITIATIVES:

FR-01 Develop and commit to a long-term financial strategy and framework to fund the projects identified in the Capital Improvement Plan (CIP) and other long-term obligations and needs.

OI-02 Implement preventative, predictive, and corrective maintenance plans to ensure safe and reliable operations.

OI-04 Rehabilitate or replace aging infrastructure to increase reliability, capacity, and efficiencies.

Attachments:

- 1) *Request for Proposals*
- 2) *Blackwater Proposal*
- 3) *Resolution No. 2024-__ Awarding the Engineering and Design Contract for the Ebbetts Pass Sawmill Tank Replacement, CIP#11083S to Blackwater Engineering*

REQUEST FOR PROPOSALS

FOR DESIGN AND ENGINEERING SERVICES
FOR THE EBBETTS PASS WATER SYSTEM

SAWMILL TANK REPLACEMENT PROJECT

CIP 11083S

Receipt of Proposals due before: 4:00 p.m. PST on July 10, 2024



CALAVERAS COUNTY WATER DISTRICT

120 Toma Court
San Andreas, California 95249
(209) 754-3543 • ccwd.org

June 3, 2024

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FIGURES

Request for Proposals (RFP) figures are attached at the end of the RFP. Figures are listed below.

- Figure 1 Project Location Map
- Figure 2 Project Site Location

EXHIBITS

Request for Proposals reference exhibits are attached at the end of the RFP. Reference exhibits are listed below.

- Exhibit 1 Calaveras County Assessor’s Maps – Book 25, Page 004
- Exhibit 2 District Record Drawings Existing 3.0 MG Sawmill Tank
- Exhibit 3 District Record Drawings Sawmill Tank Pump Station Improvements
- Exhibit 4 District Record Drawings Reach 3A Project Sawmill Site Improvements
- Exhibit 5 Professional Service Agreement (PSA)

I. PROJECT BACKGROUND

Calaveras County Water District (District) provides potable water treatment and conveyance service to the communities in Ebbetts Pass including Arnold located in Calaveras County. Within the Ebbetts Pass service area the District operates a 3.0-million gallon (MG) water storage tank, pump station, and associated facilities referred to as Sawmill Tank. Approximately 2,300 District customers rely on the tank's operation. Water pressure for the community of Meadowmont is maintained by the tank and associated tank pump station supplies water to the communities of Dorrington and Big Trees. Tank site is situated on APN 025-004-036, immediately east of White Pines Lake, see **Figure 1** and **Figure 2**. This property is District owned and approximately 292-acres in size. Calaveras County Assessor's Maps - Book 25, Page 004 is provided as **Exhibit 1**.

The current welded steel Sawmill Tank was constructed in 1977 replacing two redwood tanks. Tank facility improvements were subsequently than made in 2012 and 2018. These improvements consisted of a new electrical building and modifications to the tank inlet and outlet piping system. Record drawings, in chronological order, of the tank construct and improvements are provided as **Exhibit 2**, **Exhibit 3**, and **Exhibit 4**.

District operation of the existing Sawmill Tank is problematic due to multiple concerns. Tank condition is very poor, and capacity greatly exceeds normal water demand resulting in regular water quality issues from chlorinated organics. Additionally, design and operation does not permit the District to shutdown and drain the tank for a sufficient period of time to affect necessary repairs. As a result, the District is seeking design services for replacement of the Sawmill Tank.

II. PROJECT DESIGN

Design services for the proposed Sawmill Tank Replacement Project shall include the minimum design elements.

1. Design of two ANSI/AWWA D103 coated bolted carbon steel tanks each with an operating capacity of 0.5 MG. Tank interior and exterior surfaces shall be glass fused to steel per D103-9 12.4 with a clear span aluminum cover. The glass encapsulation of the steel panels shall be on all sheet edges, the tank shall be designed not to require any external belly straps. The cathodic Protection system shall include sacrificial anodes. Tank mixing systems shall be provided within the tank on common feed-fill lines to maximize circulation and water age.
2. Each tank minimum and maximum water elevations shall match to permit single or combined tank operation.
3. Both tanks shall be designed to comply with California Department of Drinking Water requirements, aka AWWA recommendations, concerning potential impact from a design seismic event including tank movement, water movement inside the tanks, and horizontal and vertical movement of inlet and outlet piping.
4. Tank foundations shall consist of concrete ring wall with an embedded wall starter sheet and concrete tank floor.

5. Replacement tanks and associated improvements shall be designed to utilize the existing pump station located at the site.
6. The design improvement shall maintain operation of the existing Sawmill Tank during construction.
7. Demolition of existing tank 3.0 MG performed upon completion and operation of the two new water storage tanks.

III. PROJECT SCHEDULE

Design and construction of the project is budgeted for Fiscal Year (FY) 2024-25 and 2025-26 with construction completed by October 2025. Due to potential weather-related conditions at the project site, construction activities are to occur beginning in May and end in September of the respective year. Therefore, based upon project budgeting and weather-related construction limitations, the District anticipates the following project schedule.

PROJECT SCHEDULE MILESTONES

Milestone	Date
<u>Design and Engineering Services Selection</u>	
Project RFP	June 3, 2024
Job Walk Appointments	June 4 thru June 28, 2024
Proposal Deadline	July 10, 2024
District Review, Selection, and Staff Recommendation	July 31, 2024
Board Approval and Contract Award (FY 2024-25)	August 14, 2024
<u>Project Design</u>	
Preliminary Design Memorandum	September 2024
Survey, Geotechnical Report, and Draft CEQA	October 2024
Final Design and Construction Documents	January 2025
<u>Project Construction</u>	
Construction Contract Bid and Award	March 2025
Conformed Drawings and Project Manual	April 2025
Project Construction	April thru October 2025
Construction Completion and As-Built Documents	November 2025

IV. PROJECT APPROACH AND SCOPE OF SERVICES

This Section describes the nature and scope of the engineering services to be provided and tasks to accomplish those services. The District expects the Consultant to work closely with District staff throughout the project by correspondence and regular meetings to accomplish their scope of work.

A. PROJECT MANAGEMENT

Consultant will ensure continuous control of the project in terms of staffing, budget, schedule and scope; promote communication within the project team and document key decisions. The Consultant is to prepare agenda, schedule and conduct periodic project meetings with District staff including meetings for review project deliverables, and one (1) presentation to the District Board of Directors or Engineering Committee.

The Consultant is to otherwise plan for a reasonable number of project meetings, field meetings and site visits to carry out each task, assure coordination of work and communication with all the various subconsultants, professionals, utilities, government agencies, and other representatives associated with the project. Online meetings via Microsoft Teams® or other online platform are encouraged in concert with periodic in-person meetings. Site visits will be required for some tasks to facilitate coordination of work, communication, clarify objectives, better define scope, identify constraints, confirm assumptions, understand site conditions, agree on requirements, etc. for the project.

It is the responsibility of the Consultant's project manager to immediately notify the District Engineer of any District directed task/assignment/request the Consultant believes is beyond contract scope of service. Approval of additional work by the District Engineer is required prior to execution of the work. Costs related to the performance of additional work will not be paid unless first approved by the District Engineer.

Deliverables: Project progress reports, meeting agendas, and Decision Log throughout length of contract.

B. SURVEY (TOPOGRAPHIC AND GRANT OF EASEMENT)

Design services are to include a topographic survey of the project site including horizontal and vertical datum controls, topographic mapping and surveying existing structures, fencing, utilities, valves, hydrants, culverts, and other items relevant to the design. Survey shall conform to the North American Datum (NAD83), California Zone 3 and North American Vertical Datum of 1988 (NAVD88).

Survey services shall also include an easement description and other necessary documents for the execution of a Grant of Easement by the District (Grantor) to the owner of APN 025-004-037, Sierra Pacific Industries (Grantee). Refer to **Exhibit 1** of parcel requiring easement.

All survey work shall be conducted under the direction of a California licensed land surveyor, or civil engineer licensed in California before January 1, 1982 (license number C33965 or below).

C. GEOTECHNICAL INVESTIGATION

Proposals shall include design and engineering services by a California licensed geotechnical engineer to prepare a project geotechnical study. Study shall include recommended methods of site excavation, allowable temporary and permanent slope design, tank foundation design, compaction requirements, and passive soil loads.

D. ENVIRONMENTAL/CEQA DOCUMENTS

The Consultant's scope of work shall include scope and level of effort to comply with California Environmental Quality Assurance (CEQA) requirements including preparation of the CEQA document and filing of the corresponding documents with the State Clearinghouse Office of Planning and Research via CEQAnet. Initial technical studies are to be completed by a qualified environmental firm. Upon completion of the initial studies, the Consultant shall substantiate either an exemption, negative declaration (ND) or mitigated negative declaration (MND). The draft CEQA document will be issued, and final version amended in response to public comment. In accordance with Assembly Bill AB52, the District may be required to notify two (2) American Indian tribes which may result in a District request for subsequent consultation.

E. STORMWATER POLLUTION PREVENTION PLAN

Consultant will develop a project specific Stormwater Pollution Prevention Plan (SWPPP) and Best Management Practices (BMP's) to comply with the Construction General Permit. The SWPPP is to be prepared by a Qualified SWPPP Developer (QSD) licensed by the California Stormwater Quality Association. The SWPPP is to be uploaded electronically by the Consultant via the State's Storm Water Monitoring and Report Tracking System (SMARTS), certified by the District, and assigned a valid WDID number by the State. The Consultant will ensure that no less than six (6) weeks before contractor's mobilization date for start of construction that final SWPPP has been uploaded to State's SMARTS database. Also, the Consultant is to prepare six (6) printed, color copies of final SWPPP document in three ring binders and distribute two copies each to the Contractor and District staff.

F. PRELIMINARY DESIGN REPORT

The Consultant shall prepare a preliminary design report with recommendation and conclusions concerning the proposed project design. The report shall address the following:

1. Recommendations regarding proposed tank location and design.
2. Estimated construction probable construction cost.
3. Review of RFP project design requirements and recommendations concerning methods for reducing costs and/or alternative improvement solutions.
4. Recommend construction phasing to permit operation of existing Sawmill Tank and pump station during construction.
5. Preliminary hydraulic calculations, as required.

6. Design criteria and preliminary equipment and material selection.
7. Preliminary scaled design concept drawings.

If the District has significant comments, questions, or changes regarding the report, the Consultant shall prepare a revised report in response.

Deliverables: Preliminary design report and attendance of one (1) design report review meeting. A revised report will be prepared, if required.

G. PROJECT DESIGN

Drawings. The Consultant shall provide all necessary civil, mechanical, and process drawings for execution of project construction. This includes standard drawings such as: cover sheet, index of drawings, vicinity and location map, general notes, project notes, standard details, description of symbols, and abbreviations.

The 100 percent drawings shall represent the final project design. The Consultant shall anticipate revisions to the 100 percent drawing based upon final District comments prior to production of the Bid-Ready set.

Deliverables: Fifty (50) percent, 90 percent 100 percent, and Bid-Ready drawings for incorporation with Project Manual. Drawing submittals shall be furnished to the District in Adobe® Acrobat™ Public Document Format (Adobe pdf) file format for reproduction as both 11”x17” (ANSI C) and 22”x34” (ANSI D) paper size. Bid-Ready drawings shall be furnished in Autodesk® AutoCAD™ format.

Project Manual. The Consultant shall prepare a project manual including front end document, technical specifications, and appendices. The manual’s front-end documents shall be based on the 2018 edition of the *Engineers Joint Contract Documents Committee Standards* (EJCDC®). A copy of the standards will be furnished to the Consultant by the District. The Consultant shall edit the EJCDC® documents adding any project specific and State of California contract requirements.

Consultant shall provide a bid schedule, detailed descriptions for each bid item, alternative bid items, if any, and description of sequence of work. The technical specifications shall be based upon the Consultant’s standards, or if applicable, adapted from District standards. Project Manual appendices shall include copies of encroachment permits, stormwater pollution prevention plan (SWPPP), environmental/CEQA documents and mitigation measures, geotechnical report, and other such reports.

Deliverables: Ninety (90) percent 100 percent, and Bid-Ready Project Manual.

H. CONSTRUCTION ASSISTANCE

Construction Bid Services, Addendum, and Conformed Documents. The District shall advertise and conduct the public bid. Distribution of project manual and drawings to

bidders and plan holder rooms will be electronic. All correspondence with potential project bidders will be solely conducted by the District including issuing all project addendum and responds to bidder Requests for Information (RFI).

The Consultant shall attend pre-bid job walk and as requested the Consultant shall assist the District prepare addendum and answer RFIs. Addendum may be the result of errors in preparing bid ready drawings and project manual or result of bidders' questions and comments. Upon award of construction contract and but prior to subsequent notice to proceed, the Consultant shall furnish the confirmed contract documents.

Construction Engineering. Consultant scope of services during construction shall include review of project shop drawings and submittals, answer of construction RFIs, assistance with engineering aspects of potential construction contract change orders, site and construction meeting upon request.

Record Drawings. The Consultant shall furnish record drawings and deliver them in AutoCAD™ 2018 format. Record drawings shall be based upon the contractor and District inspector marked-up drawings.

I. BASIS OF COMPENSATION

The Consultant shall be required to enter into the Professional Services Agreement (PSA) provided as **Exhibit 5**. Agreement to the PSA contract terms and conditions, including adjustment in hourly rates, per diem or incidental costs, is required for the term of the contract. Acknowledgement to the PSA contract terms shall be included in a cover letter.

V. ORGANIZATION AND CONTENT OF PROPOSAL

A. SUBMITTAL INSTRUCTIONS

Proposals shall be submitted electronically to Calaveras County Water District no later than 4:00 p.m., July 10, 2024. The Proposal shall assemble as a single Adobe® pdf file. Paginate proposal for two-sided printing at the District office. Paper size limited to 8-¹/₂"x11" (ANSI B) with figures, drawing, etc. no greater than 11"x17" (ANSI C).

Proposals attached to email are limited to 35.0 megabytes in size. Proposal delivery using a file "cloud" sharing site, or similar, is acceptable provided the District receives a HTTP or FTP link and download instructions. The District will notify the Consultant upon receipt and successful download. No hard "printed" copy of the proposal is required.

Email proposal, or link for file download to the attention of:

Kevin Williams, P.E.
Senior Civil Engineer
kevinw@ccwd.org
office: (209) 754-3184

B. ORGANIZATION AND CONTENT

Contents of proposal shall be organized in the sections listed in the table below.

PROPOSAL ORGANIZATION

Section	Content	Page Length
Cover Letter	Statement of interest and qualifications including agreement to PSA requirements.	1 to 2
A	Project Overview	1 to 3
B	Understanding and Approach	1 to 4
C	Team Organization	1 to 2
D	Project Schedule	1 to 2
E	Representative Project Experience	1 to 5
F	Labor Estimate and Fee Estimate	1 to 2
G	Project Team Resumes	as required

Cover Letter. Cover letter shall include both a state of interest and statement of qualification. Acknowledgement and acceptance of the terms and requirements of the District Professional Service Agreement shall be included.

Project Overview. Provide a narrative description of the project based on the scope of services and proposed schedule presented in this RFP. The District will assess your understanding of all aspects of the project based on the overview.

Understanding and Approach. Provide a detailed description of the proposed approach to the project as described in the RFP. The description shall include details to implement the tasks described in the scope of service and any recommended revisions to the list of tasks. The approach should recognize, address, and provide for resolution of all aspects of the project.

Team Organization. The proposed consultant team shall be identified including project manager, and project engineer. Key tasks and the associated personnel shall be identified. The percentage of time devoted to this project for these key personnel shall be stated and guaranteed. A consultant team organization diagram shall be included.

The geographic location of the firm and key personnel shall be identified. Any proposed subcontractors shall be identified; tasks assigned, and experience included similarly to the firm's own project personnel. The successful Consultant should be comfortable working in a structured team setting with District Staff.

Project Schedule. A project schedule for the project shall be submitted with the proposal. All major outputs and meetings shall be included in the schedule. Time shall be allocated for District review, typically three weeks for each deliverable.

Representative Project Experience. Provide a summary of experience of similar projects that the firm and the proposed team have completed. The description of each project should include the year(s) during which the work was performed and a description of process design components. The firm's role in the project should also be described (pre-design, design construction management, etc.). Include the name, title, and phone number of the primary contact person at each facility or project location listed.

Staff Labor and Fee Estimate. Provide a staff estimate of time for each task to permit the District to determine the level of detail and the number of management, engineering, technical, drafting and support personnel hours envisioned for each task. Estimates of hours for each staff classification shall be provided for each task. Associated fee schedule for each staff classification and task shall be included.

Project Team Resumes. A resume of key team members shall be included. Each resume should include a description of projects in related areas. At minimum, resumes of the Consultant's project manager and those of the engineering staff shall be included.

VI. EVALUATION AND SELECTION CRITERIA

Consultant proposals will be evaluated by District staff members including the District Engineer, Director of Operations, Operations Manager, General Manager, and Senior Engineer. Proposals will be evaluated by each reviewer with each proposal receiving a weighted score. Each evaluator's weighted score will be tabulated and the firm with the highest combined score will be selected and recommended to the District Board. If two or more proposals are similarly ranked, and no clear decision can be made, the District will request interviews before final selection.

PROPOSAL EVALUATION WEIGHTED CRITERIA TABLE.

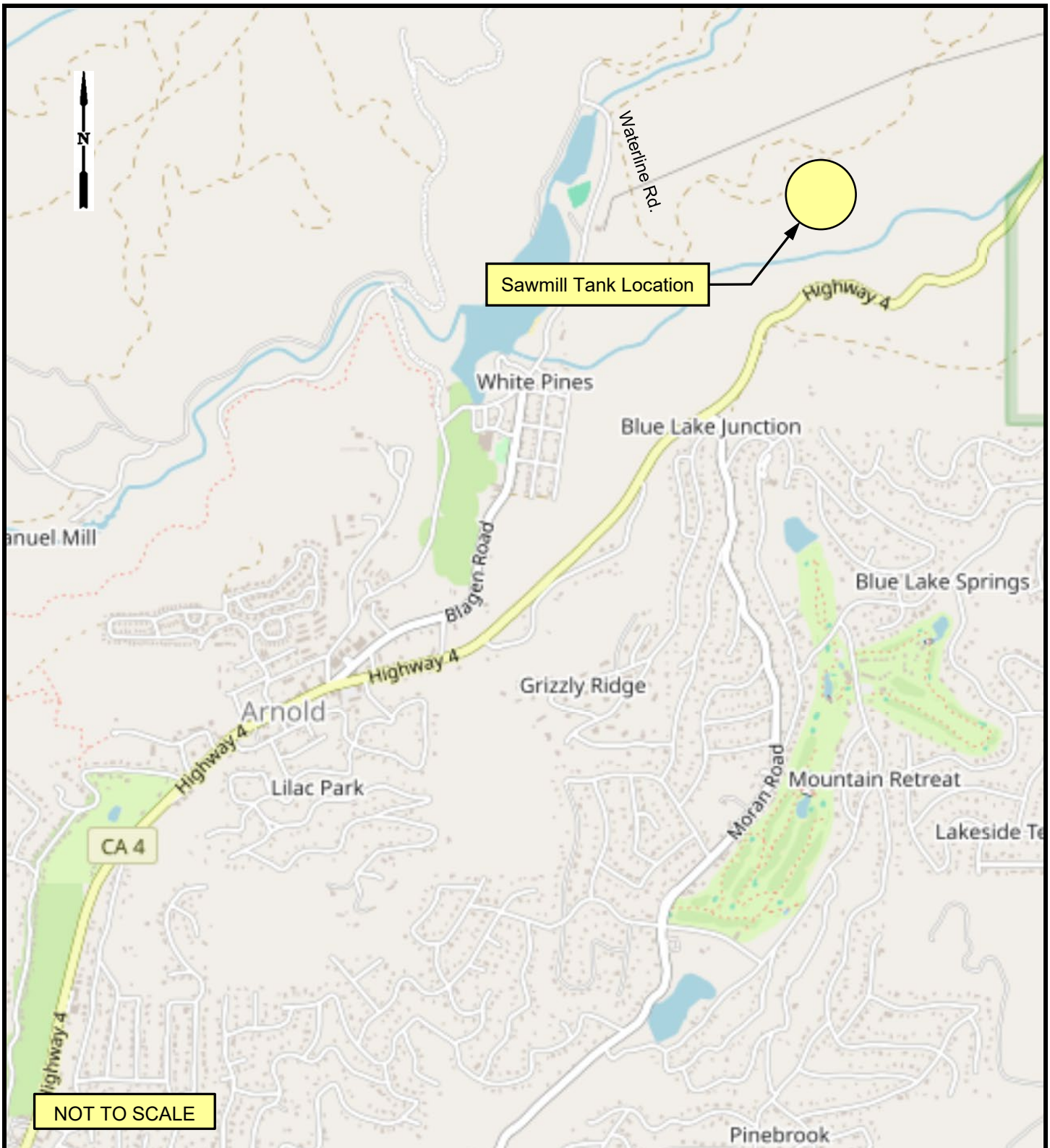
Criteria	Evaluator's Score (0 to 5)	Score Weight (Multiplier)	Evaluator's Weighted Score
Project Understanding and Approach		5 (25%)	
Project Management		3 (15%)	
Project Team and Staff Qualifications		4 (20%)	
Related Project Experience		3 (15%)	
Schedule and Production Capability		5 (25%)	

Maximum weighted score = 100.

*** END OF RFP ***

FIGURE 1

PROJECT LOCATION MAP
SAWMILL TANK REPLACEMENT PROJECT

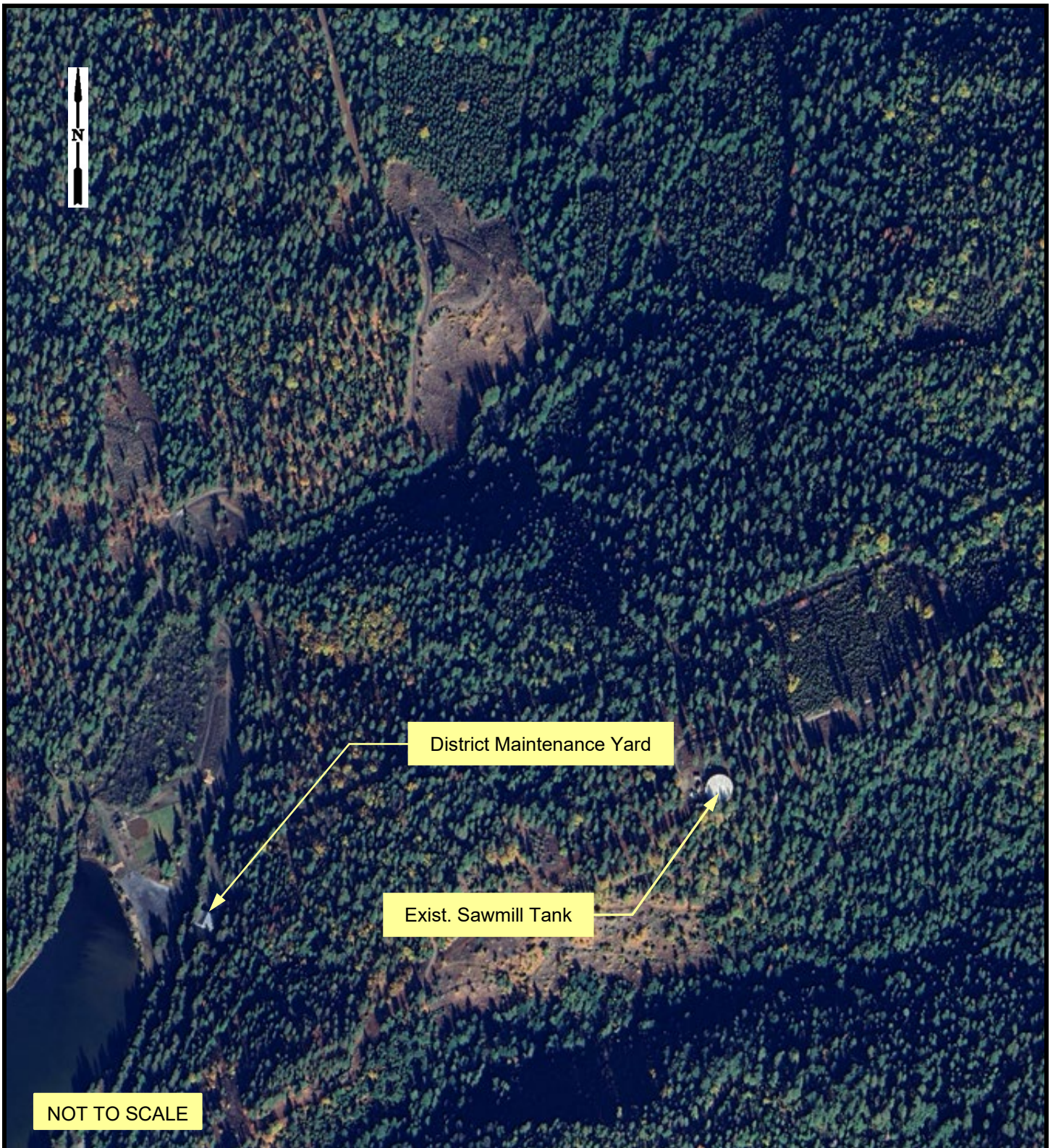


PROJECT LOCATION MAP
Sawmill Tank Replacement Project
Calaveras County Water District / Request for Proposals
May 2024

FIGURE 1

FIGURE 2

**PROJECT SITE LOCATION
SAWMILL TANK REPLACEMENT PROJECT**



PROJECT SITE LOCATION
Sawmill Tank Replacement Project
Calaveras County Water District / Request for Proposals
May 2024

FIGURE 2

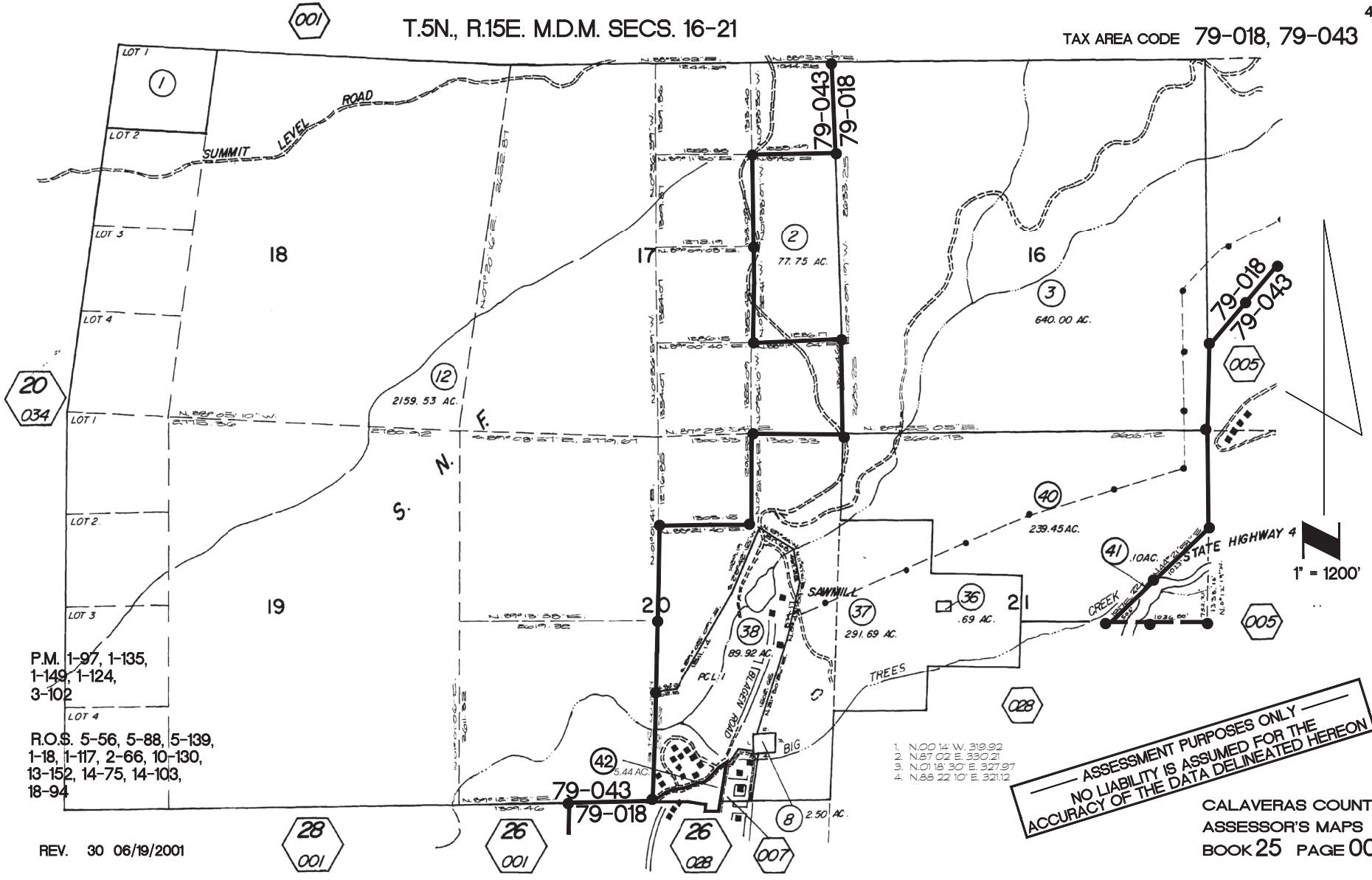
EXHIBIT 1

CALAVERAS COUNTY
ASSESSOR'S MAPS

BOOK 25, PAGE 004

T.5N., R.15E. M.D.M. SECS. 16-21

TAX AREA CODE 79-018, 79-043



P.M. 1-97, 1-135,
 1-149, 1-124,
 3-102

R.O.S. 5-56, 5-88, 5-139,
 1-18, 1-117, 2-66, 10-130,
 13-152, 14-75, 14-103,
 18-94

REV. 30 06/19/2001

- 1. N00 14' W. 319.92
- 2. N87 02' E. 330.21
- 3. N01 18' 30\" E. 327.97
- 4. N88 22' 10\" E. 321.12

ASSESSMENT PURPOSES ONLY
 NO LIABILITY IS ASSUMED FOR THE
 ACCURACY OF THE DATA DELINEATED HEREON

CALAVERAS COUNTY
 ASSESSOR'S MAPS
 BOOK 25 PAGE 004

EXHIBIT 2

DISTRICT RECORD DRAWINGS
EXISTING 3.0 MG SAWMILL TANK

(50 PERCENT SCALE)

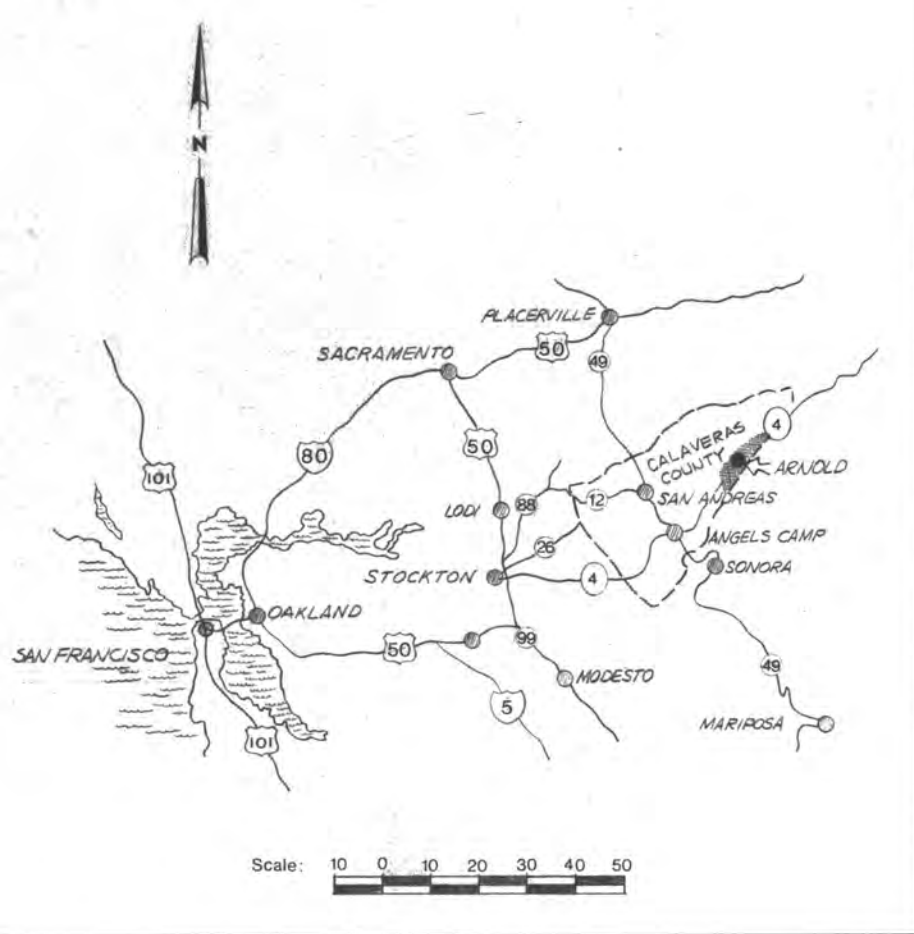
CALAVERAS COUNTY WATER DISTRICT

CONTRACT DRAWINGS FOR

EBBETTS PASS STORAGE FACILITIES

EDA PROJECT NO

07-01-01862



LOCATION MAP

BOARD OF DIRECTORS

Kenneth R Mitchell President
John D Tuttle Vice President
Richard Queirolo
David J Silveira
Vern Stewart

Submitted:

FJ Fahlen RCE 20069
Project Engineer, Dewante & Stowell

Approved:

Steve Felte
Manager



CALAVERAS COUNTY WATER DISTRICT
EBBETTS PASS STORAGE FACILITIES

TITLE AND LOCATION MAP

DEWANTE AND STOWELL
SANITARY AND CIVIL ENGINEERS — SACRAMENTO, CALIFORNIA

DRAWN: R.R.R. SUBMITTED: F.J. Fahlen SHEET NO.

ABBREVIATIONS

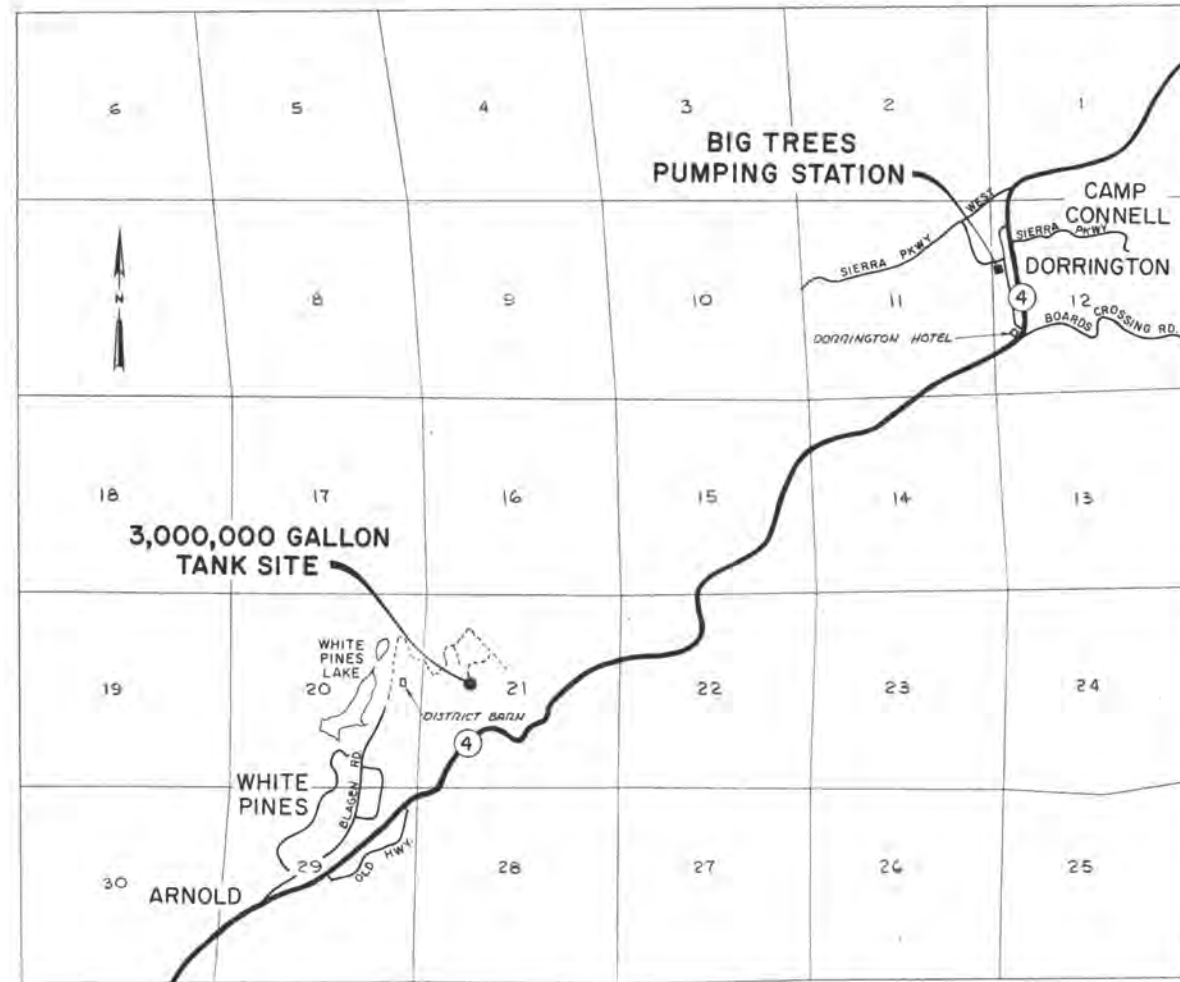
A.C.	ASBESTOS CEMENT PIPE	I.P.	IRON PIPE
B.F.	BLIND FLANGE	M.H.	MANHOLE
B.V.	BUTTERFLY VALVE	N.T.S.	NOT TO SCALE
CL.	CLEAR	O.C.	ON CENTER
CL ₂	CHLORINE	P.M.S.	PLANT MIX SURFACE (ASPHALTIC CONCRETE)
C.M.P.	CORRUGATED METAL PIPE	P.R.V.	PRESSURE REGULATING VALVE
D.C.I.	DUCTILE CAST IRON PIPE	P.S.	PUMP STATION
E.F.	EACH FACE	P.V.C.	POLYVINYL CHLORIDE
ELL.	ELBOW	R	RADIUS
E.W.	EACH WAY	R&S	REMOVE AND SAVE
F.C.A.	FLEXIBLE COUPLING ADAPTOR	S.T.P.	SEWAGE TREATMENT PLANT
FLG.	FLANGE	TYP.	TYPICAL
G.S.	GALVANIZED STEEL	V.C.P.	VITRIFIED CLAY PIPE
H.B.	HOSE BIBB	W.S.	WELDED STEEL PIPE
C.L.C.S.	CEMENT LINED & COATED STEEL PIPE	B.S.	BLACK STEEL PIPE

NOTES

1. Unless otherwise shown, all water lines shall have 36" of cover.
2. The location of existing lines is approximate.
3. Black Steel Pipe (B.S.), Welded Steel Pipe (W.S.), Ductile Cast Iron Pipe (D.C.I.) and Cement Lined and Coated Steel Pipe (C.L.C.S.) may be used interchangeably.
4. Contractor shall refer to all related drawings and to the manufacturers' shop drawings for complete details of a given equipment item.

PIPE FITTINGS

	GATE OR GLOBE VALVE
	CHECK VALVE
	SOLENOID VALVE
	PRESSURE REGULATING VALVE
	PLUG VALVE
	ANGLE VALVE
	UNION
	REDUCER
	STRAINER
	PRESSURE OR VACUUM GAUGE
	HOSE BIBB
	FIRE HYDRANT
	BUTTERFLY VALVE



VICINITY MAP

NO SCALE

INDEX TO SHEETS

- | | |
|--|--|
| 1. TITLE AND LOCATION MAP | 7. BIG TREES PUMPING STATION SITE PLAN |
| 2. INDEX, GENERAL NOTES, VICINITY MAP AND ABBREVIATIONS. | 8. BIG TREES PUMPING STATION MECHANICAL PLAN, SECTIONS & DETAIL |
| 3. 3,000,000 GALLON TANK SITE PLAN | 9. BIG TREES PUMPING STATION ARCHITECTURAL & STRUCTURAL |
| 4. 3,000,000 GALLON TANK SECTION & DETAILS | 10. BIG TREES PUMPING STATION ARCHITECTURAL & STRUCTURAL DETAILS |
| 5. 3,000,000 GALLON TANK SECTION & DETAILS | 11. BIG TREES PUMPING STATION ELECTRICAL |
| 6. 3,000,000 GALLON TANK EXISTING REDWOOD TANKS | 12. TELEMETRY FACILITIES |



EDA PROJECT NR 07-01-01862

CALAVERAS COUNTY WATER DISTRICT
 EBBETTS PASS STORAGE FACILITY
 INDEX, GENERAL NOTES,
 VICINITY MAP AND
 ABBREVIATIONS

DEWANTE AND STOWELL
 SANITARY AND CIVIL ENGINEERS — SACRAMENTO, CALIF.

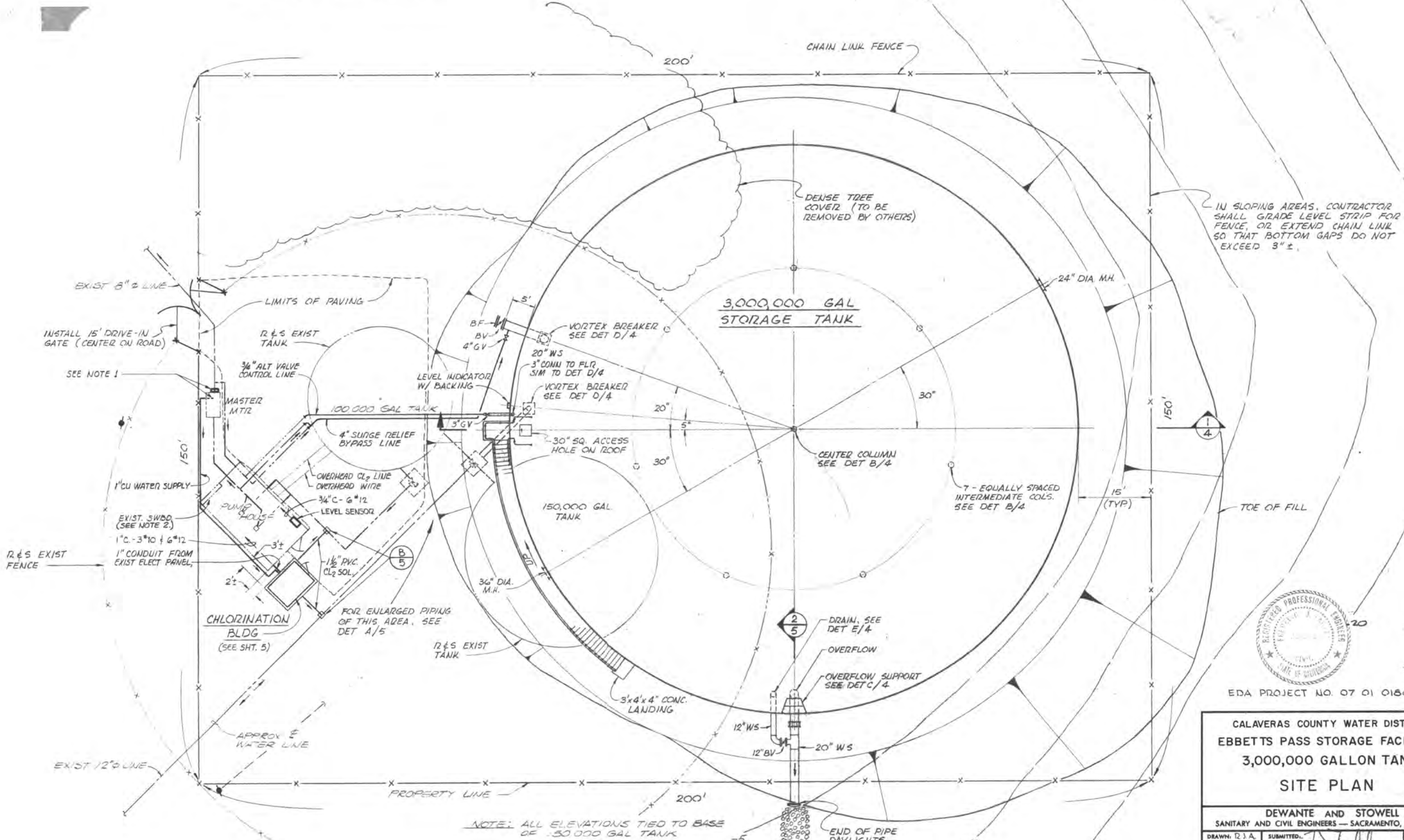
DRAWN: C.C.C. SUBMITTED: [Signature]
 CHECKED: E.J.E.



SCALE: 1" = 10'

NOTES:

1. INSTALL 12" x 20" METER BOX OVER EXPOSED 2" LINE. CONNECT 1" WATER SUPPLY LINE WITH GATE VALVE TO EXIST. 2" G.S. LINE BELOW EXIST. AIR RELIEF VALVE INSIDE METER VAULT.
2. REPLACE EXIST. STATION POWER TRANSFORMER AND PANEL INSIDE PUMP HOUSE AS DESCRIBED IN PARAGRAPH 6.29(c) OF SPECS.
3. TREES, BUT NOT STUMPS, WILL BE REMOVED BY OTHERS PRIOR TO CONSTRUCTION.



IN SLOPING AREAS, CONTRACTOR SHALL GRADE LEVEL STRIP FOR FENCE, OR EXTEND CHAIN LINK SO THAT BOTTOM GAPS DO NOT EXCEED 3" ±.

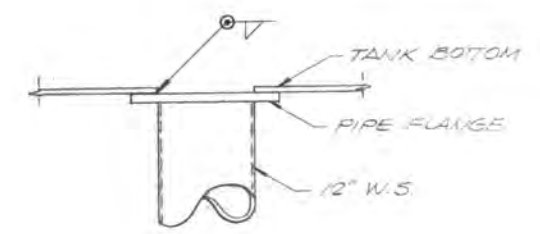
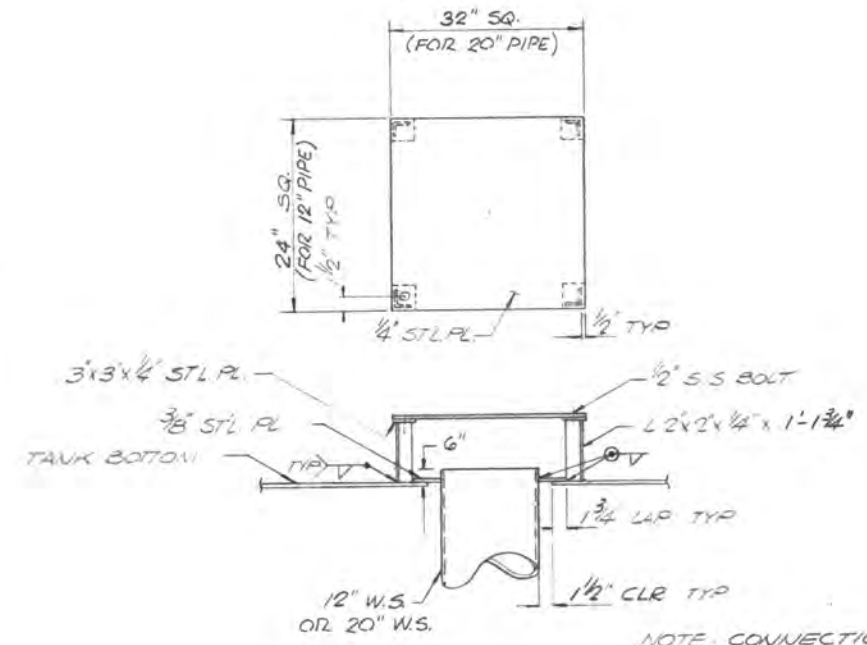
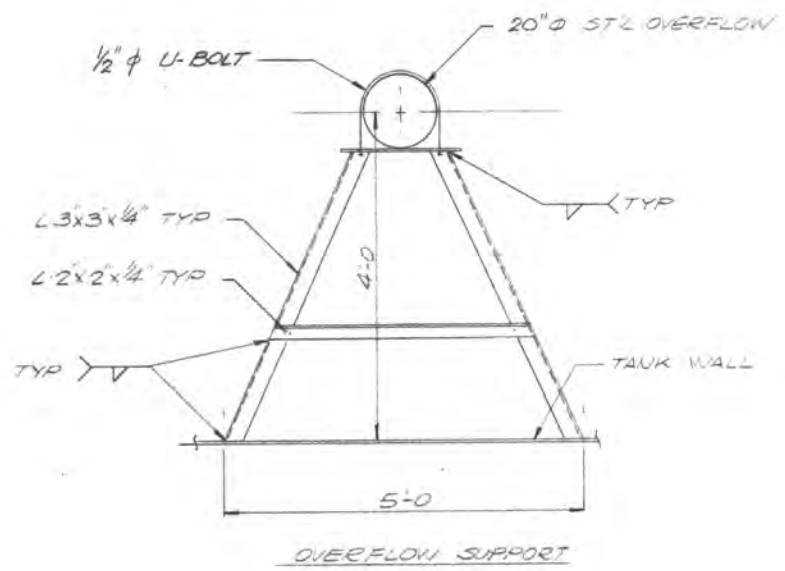
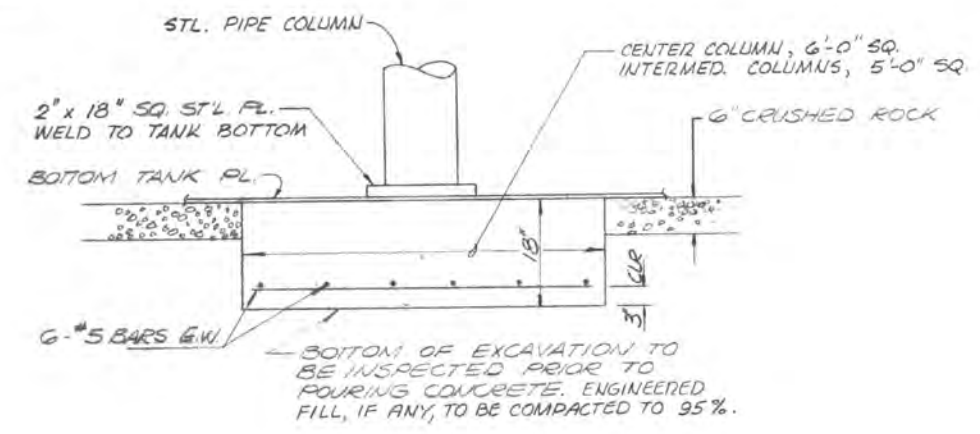
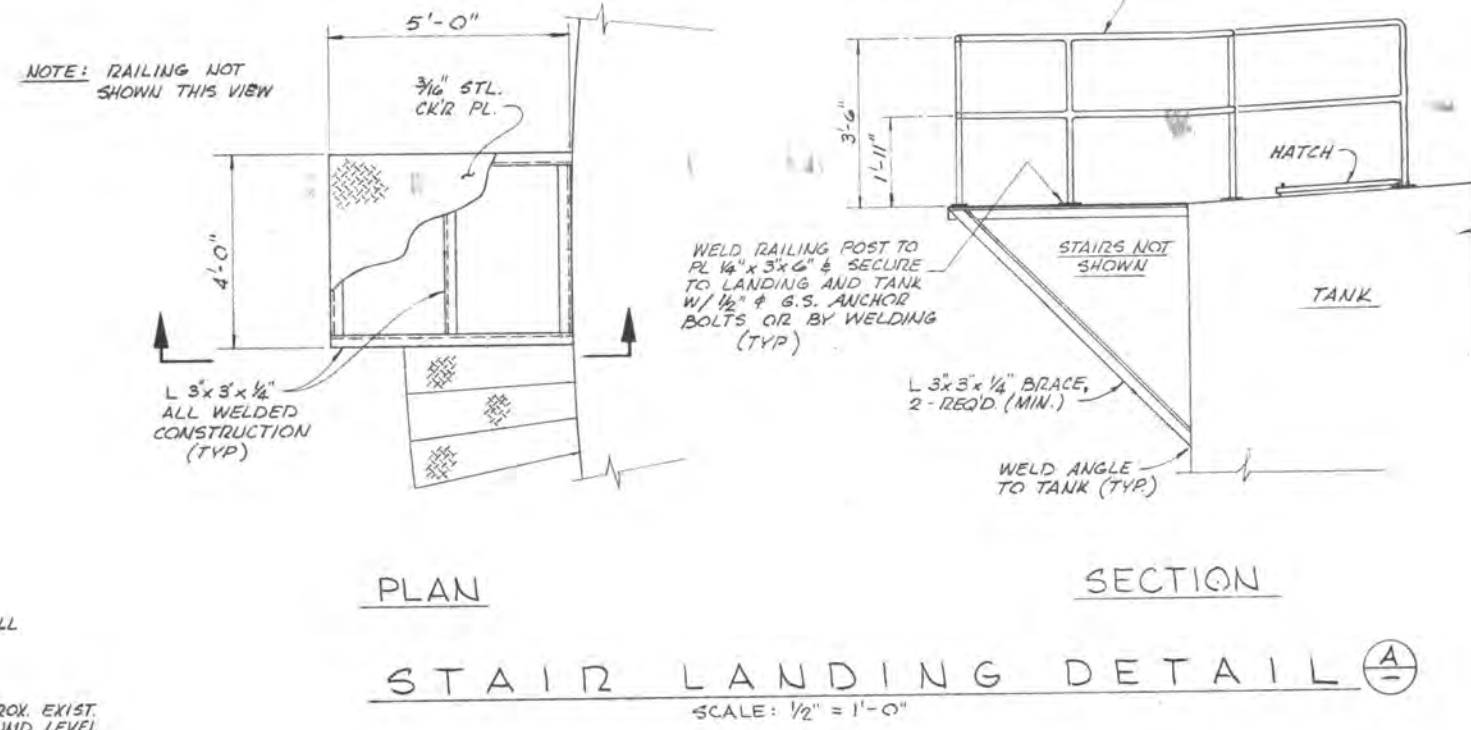
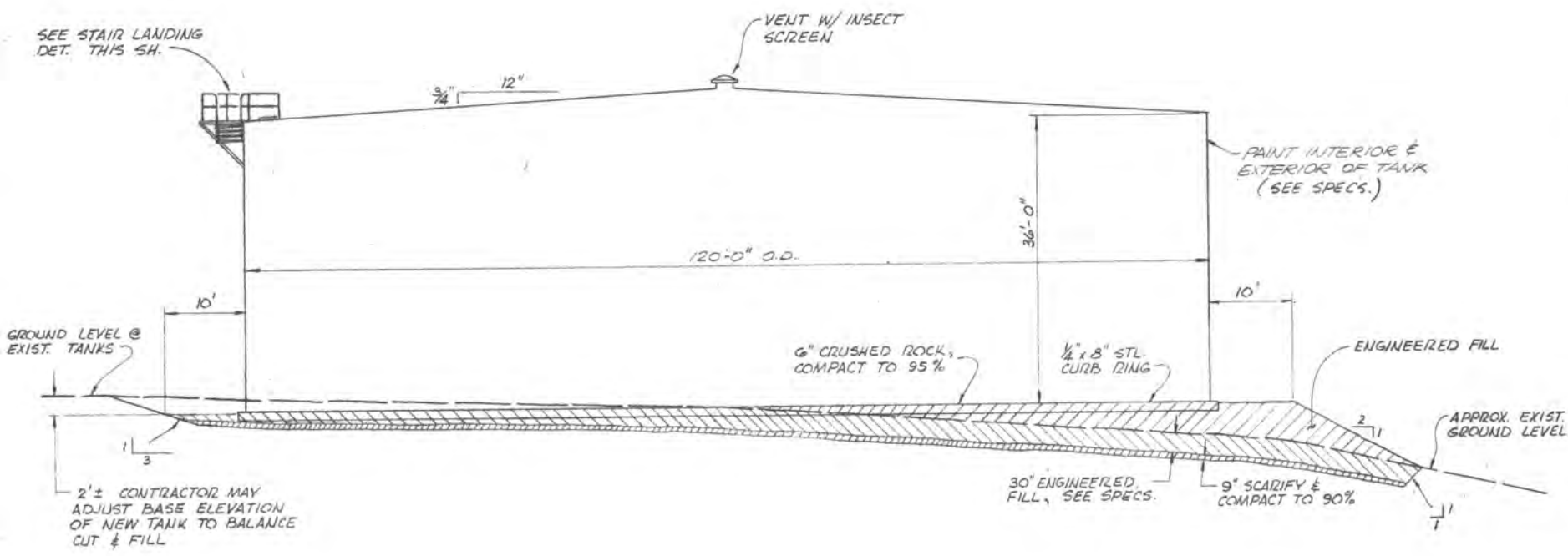


EDA PROJECT NO. 07 01 0186

CALAVERAS COUNTY WATER DISTRICT
 EBBETTS PASS STORAGE FACILITY
 3,000,000 GALLON TANK
 SITE PLAN

DEWANTE AND STOWELL
 SANITARY AND CIVIL ENGINEERS — SACRAMENTO, CA
 DRAWN: D.J.A. SUBMITTED: [Signature]

NOTE: ALL ELEVATIONS TIED TO BASE OF 50,000 GAL TANK



NOTE: CONNECTION TO FLOOR SIMILAR ALL PIPING EXCEPT DRAIN LINE.

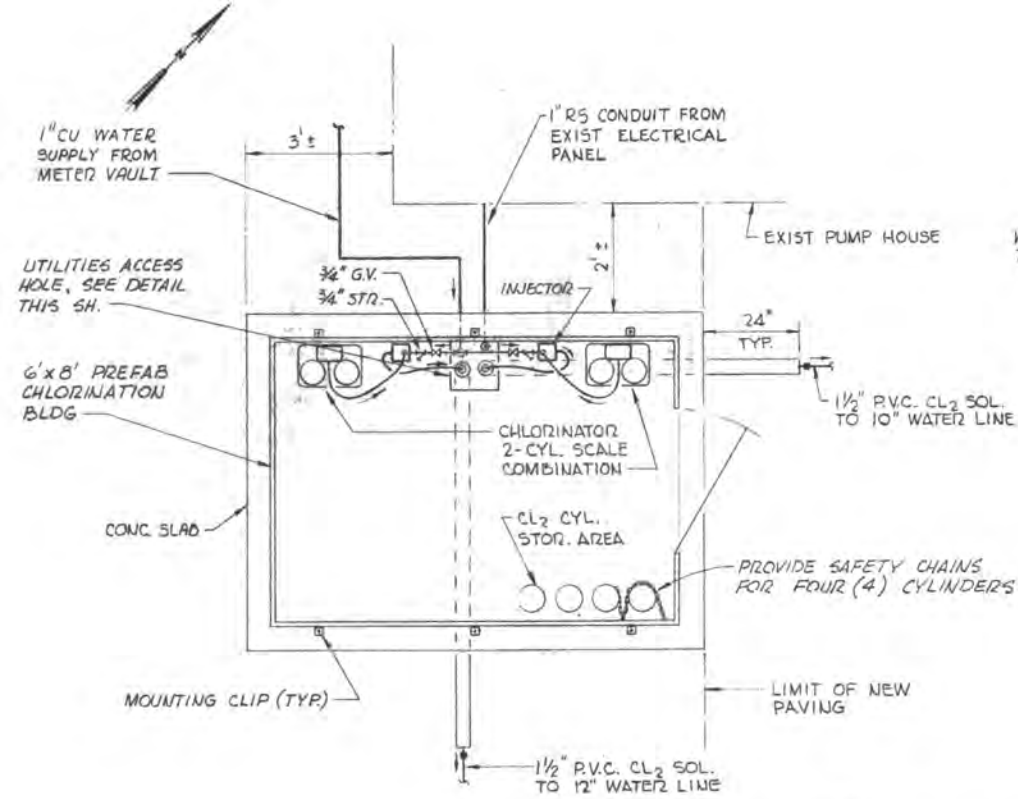


EDA PROJECT NO. 07 01 01862

CALAVERAS COUNTY WATER DISTRICT
EBBETTS PASS STORAGE FACILITIES
3,000,000 GALLON TANK
SECTION AND DETAILS

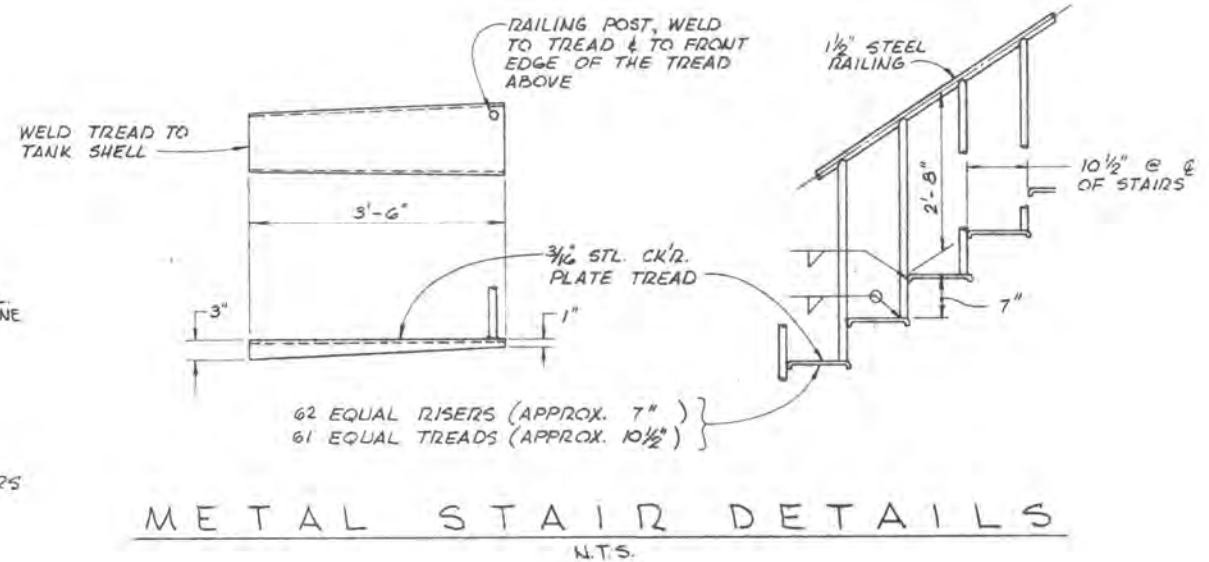
DEWANTE AND STOWELL
SANITARY AND CIVIL ENGINEERS - SACRAMENTO, CALIFORNIA

DRAWN: D.J.A. CHECKED: E.L.F. SUBMITTED: FS Fullen

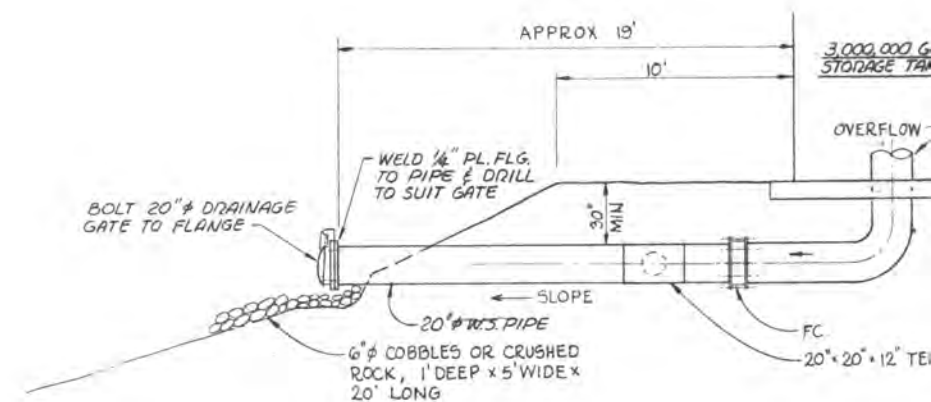


PLAN

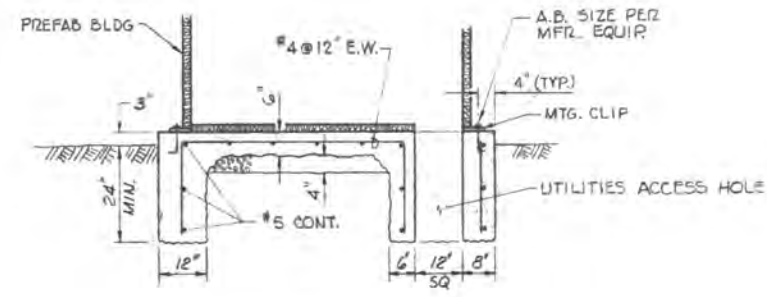
NOTE: PROVIDE SELF CONTAINED BREATHING APPARATUS WITH CHLORINATION FACILITIES, AIR TANK TO HAVE 30 MINUTE SUPPLY. W & T 457153 OR EQUAL.



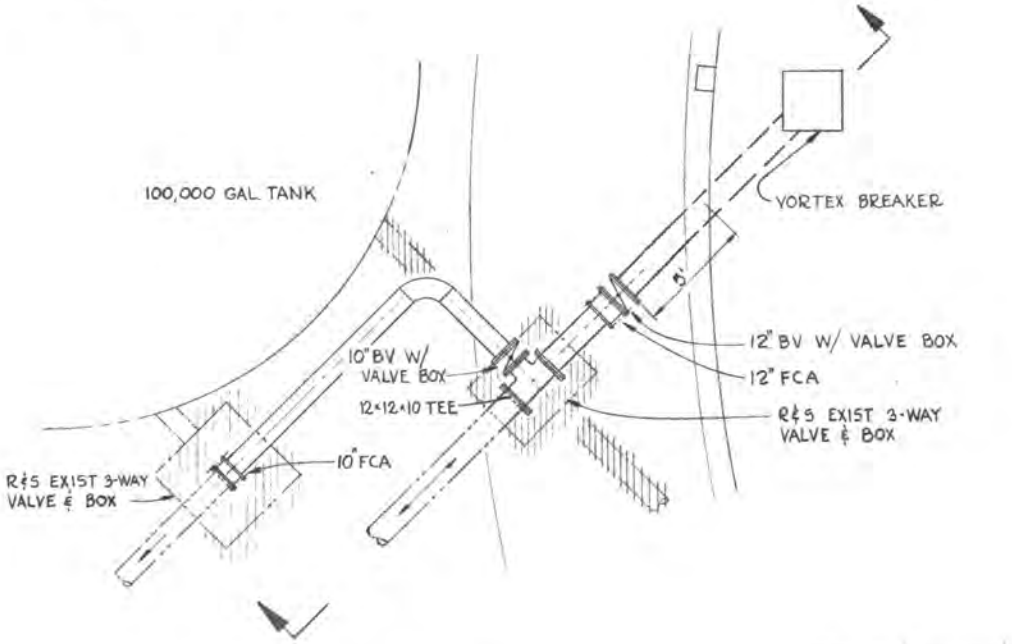
METAL STAIR DETAILS
N.T.S.



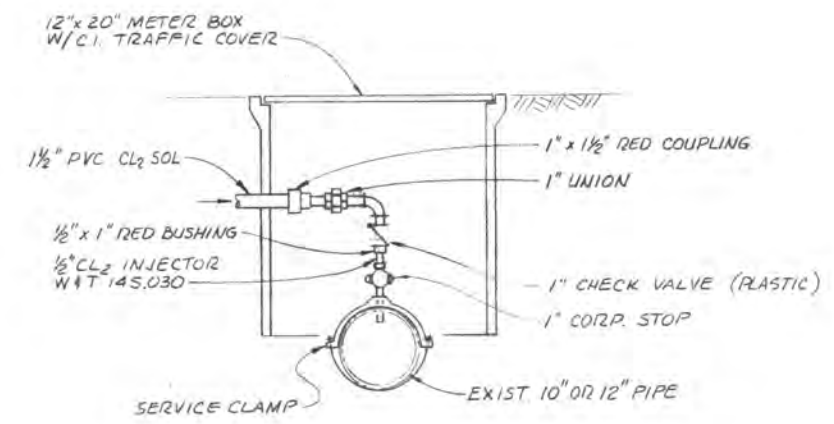
SECTION 2/3
SCALE: 1/4" = 1'-0"



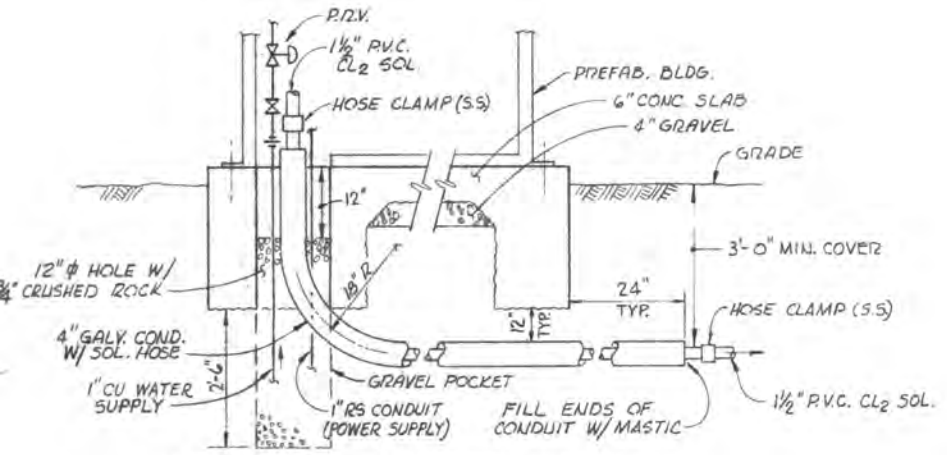
SECTION



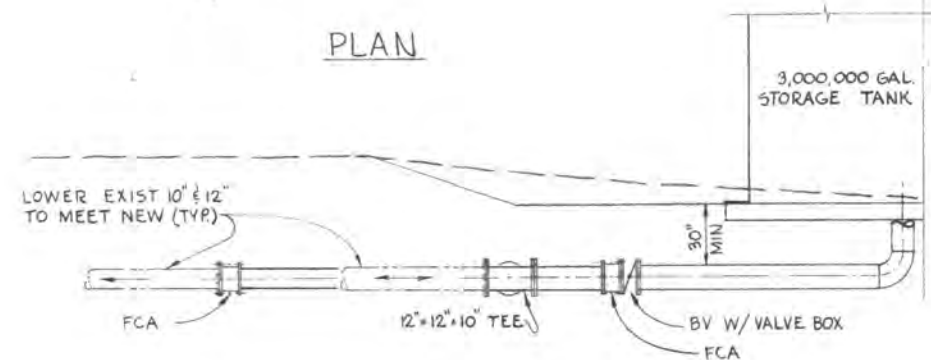
PLAN



CL₂ INJECTOR B/3
N.T.S.



UTILITIES ACCESS HOLE



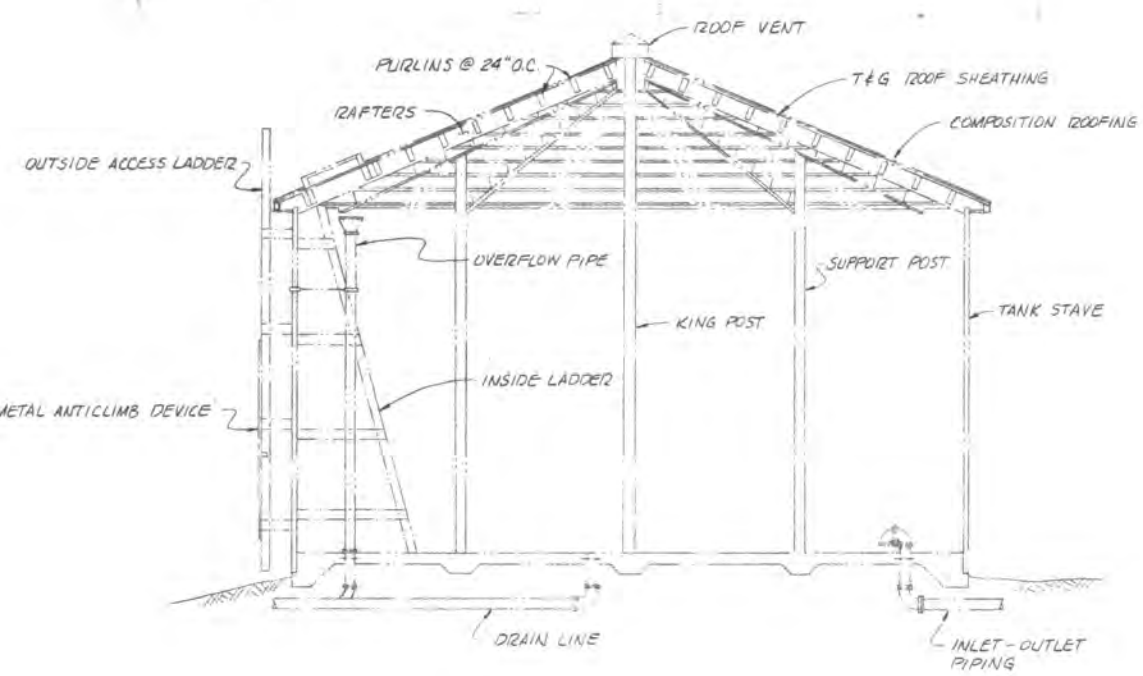
SECTION

PIPE DETAIL A

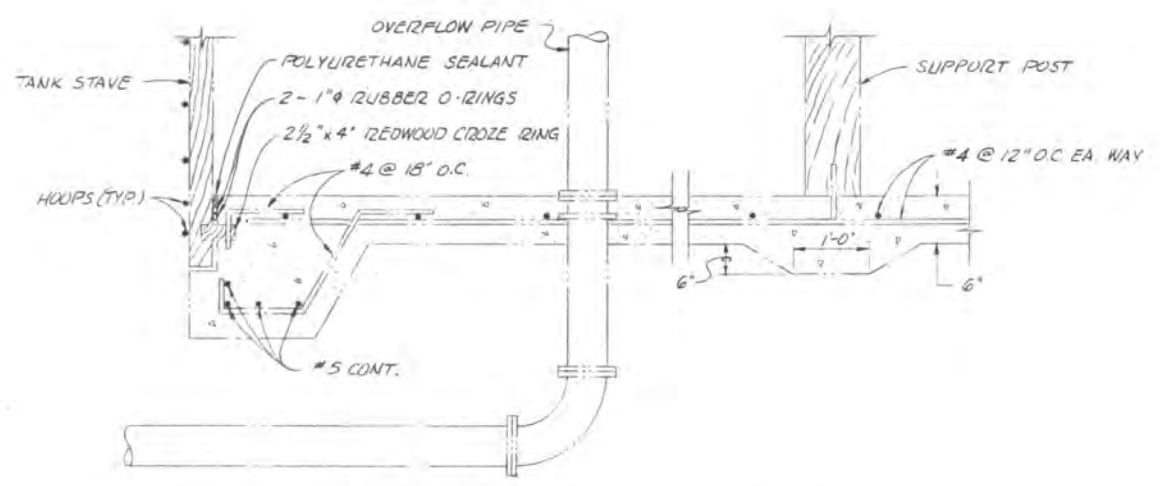
CHLORINATION BLDG. DETAIL



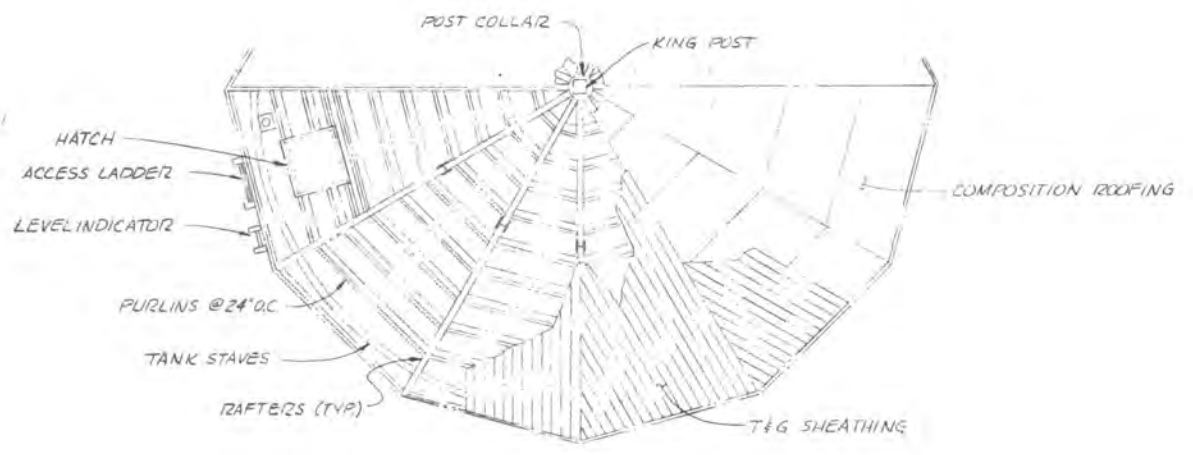
EDA PROJECT NO. 07 01 01862
 CALAVERAS COUNTY WATER DISTRICT
 EBETTS PASS STORAGE FACILITIES
 3,000,000 GALLON TANK
 SECTIONS & DETAILS
 DEWANTE AND STOWELL
 SANITARY AND CIVIL ENGINEERS - SACRAMENTO, CALIFORNIA
 DRAWN: R.J.A. SUBMITTED: 7/27/01 SHEET



TANK SECTION
N.T.S.



FOUNDATION DETAIL
N.T.S.



HIP CONE ROOF
STRUCTURE
N.T.S.

NOTES:

1. THE DETAILS SHOWN ON THIS SHEET ARE NOT A GUARANTEE OF THE CONDITIONS TO BE ENCOUNTERED, BUT RATHER A GENERAL INDICATION OF THE WORK REQUIRED TO REMOVE AND SALVAGE THE TWO EXISTING TANKS.
2. THE 150,000 GALLON TANK WILL BE REMOVED FIRST. THE 100,000 GALLON TANK WILL NOT BE REMOVED UNTIL THE 3,000,000 GALLON STEEL TANK HAS BEEN TESTED.
3. THE CONTRACTOR SHOULD MAKE NO EFFORT TO SAVE SUCH ITEMS AS THE CONCRETE FOUNDATIONS OR COMPOSITION ROOFING. ANY WOOD THAT HAS OBVIOUSLY DETERIORATED, NEED NOT BE SAVED. ITEMS NOT TO BE SAVED WILL BECOME THE PROPERTY OF THE CONTRACTOR, AND SHALL BE DISPOSED OF OFF THE SITE IN AN APPROVED LOCATION AT THE CONTRACTOR'S EXPENSE.
4. ITEMS TO BE SAVED INCLUDE T&G ROOF SHEATHING, PURLINS, RAFTERS, KING AND SUPPORT POSTS, STAVES, INSIDE AND OUTSIDE LADDERS, HOOPS, AND PIPING. THESE ITEMS SHALL BE DISASSEMBLED BY SKILLED WORKMEN USING REASONABLE CARE, AND TRANSPORTED TO THE DISTRICT BARN ADJACENT TO WHITE PINES LAKE FOR STORAGE.
5. WORK MUST BE COORDINATED WITH THE DISTRICT SO THAT PHOTOGRAPHS MAY BE TAKEN OF BOTH TANKS DURING DISASSEMBLY FOR USE IN FUTURE ERECTION.

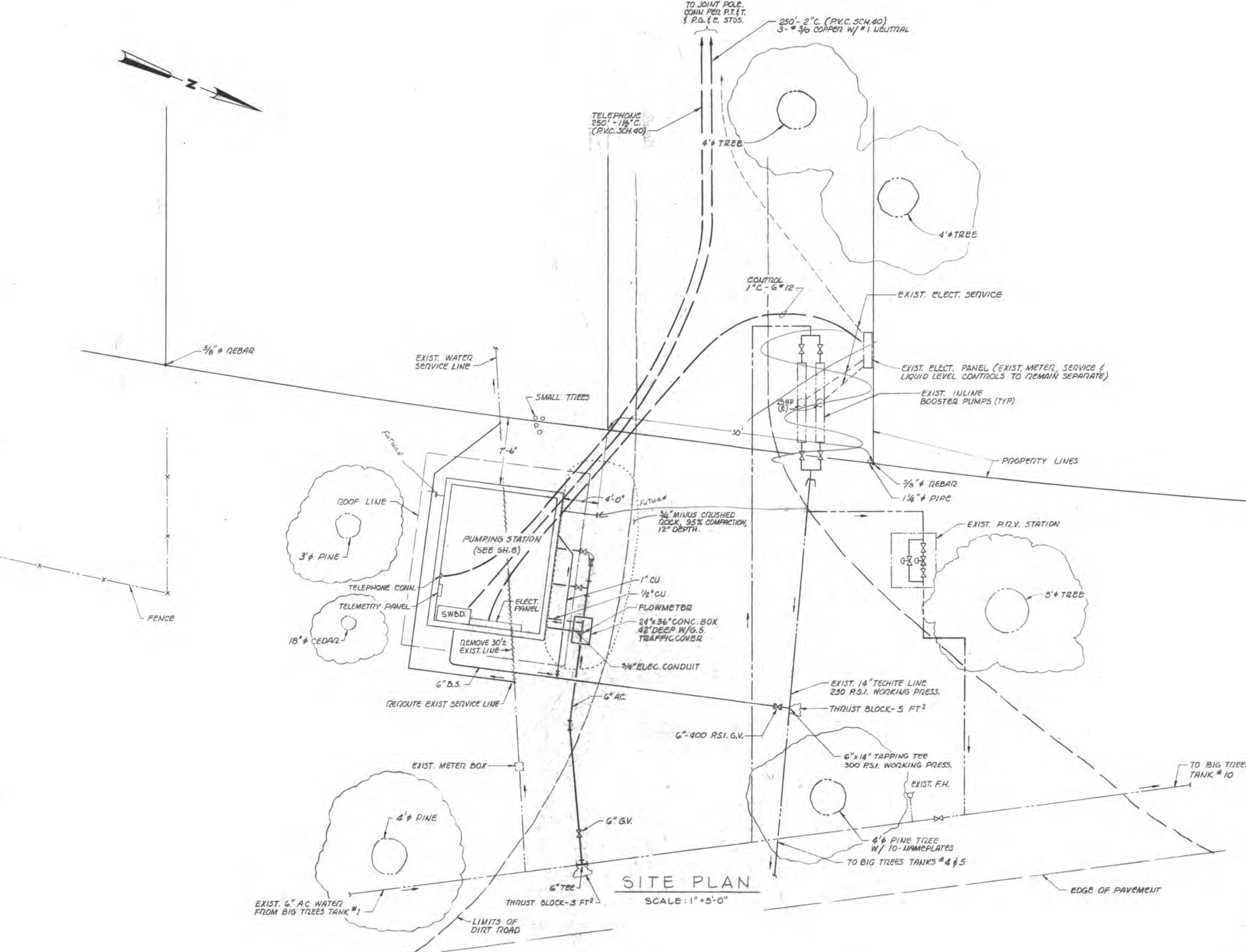


EDA PROJECT NO. 07 01 01862

CALAVERAS COUNTY WATER DISTRICT
EBBETTS PASS STORAGE FACILITIES
3,000,000 GALLON TANK
EXISTING REDWOOD TANKS

DEWANTE AND STOWELL
SANITARY AND CIVIL ENGINEERS — SACRAMENTO, CALIFORNIA

DRAWN: RES. SUBMITTED: [Signature] SHEET

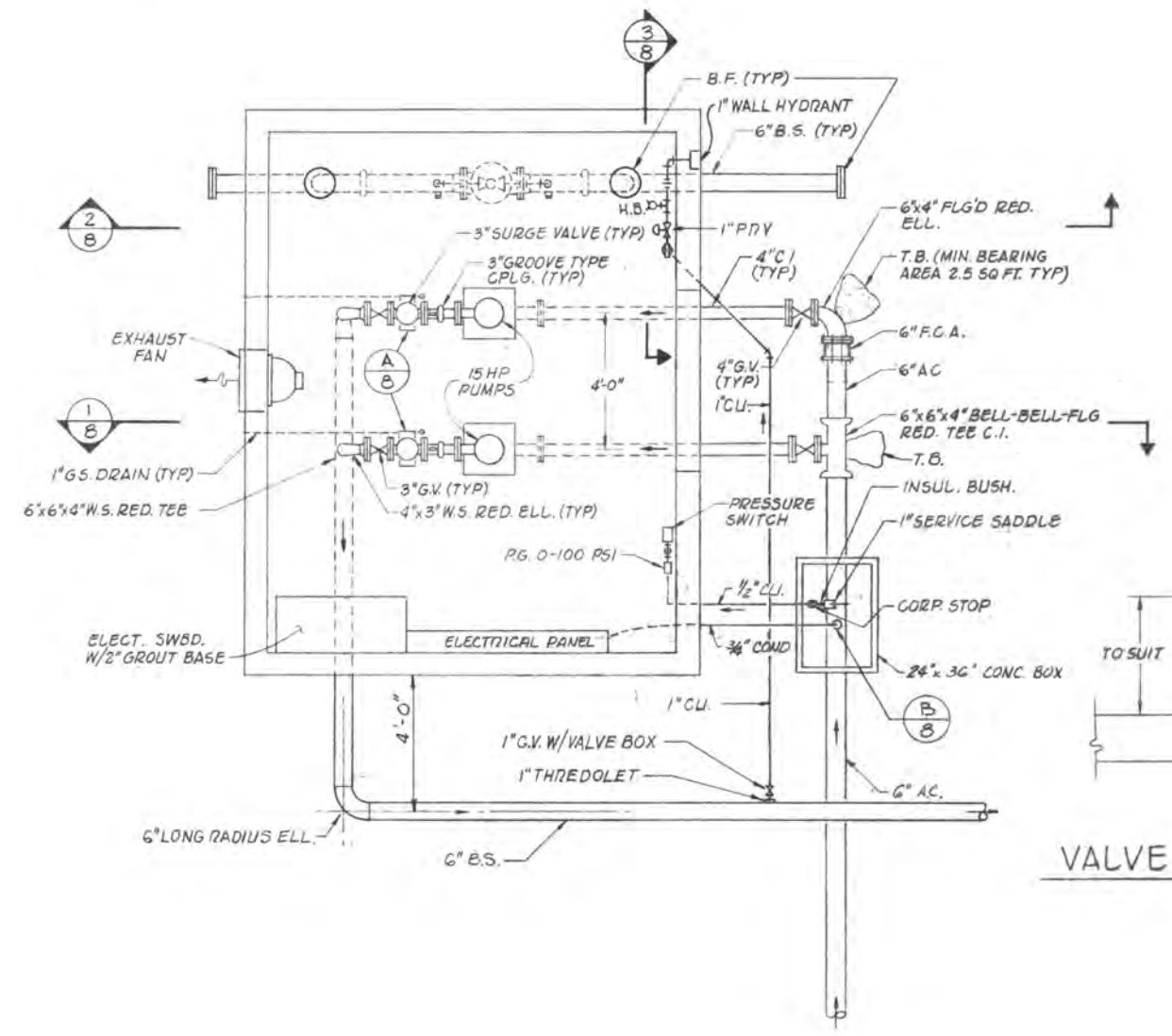


SITE PLAN
SCALE: 1" = 5'-0"

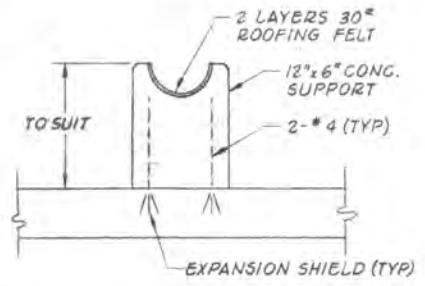


EDA PROJECT NO 07 01 01862
 CALAVERAS COUNTY WATER DISTRICT
 EBBETTS PASS STORAGE FACILITIES
 BIG TREES PUMPING STATION
SITE PLAN

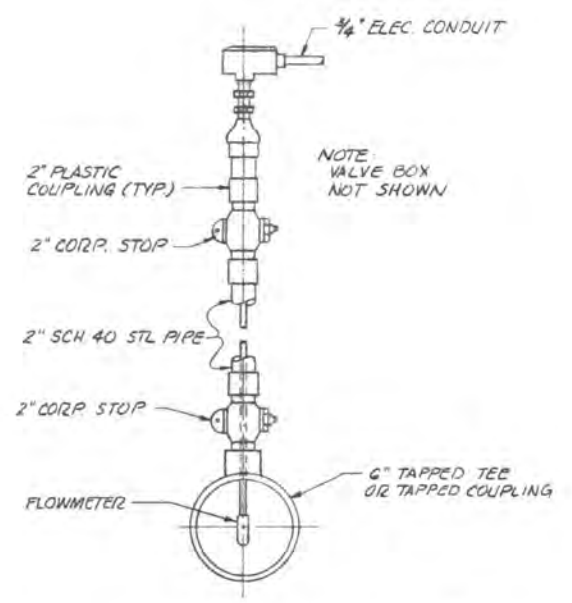
DEWANTE AND STOWELL
 SANITARY AND CIVIL ENGINEERS — SACRAMENTO, CALIFORNIA
 DRAWN: E. R. Z. SUBMITTED: [Signature] SHEET: [Number]



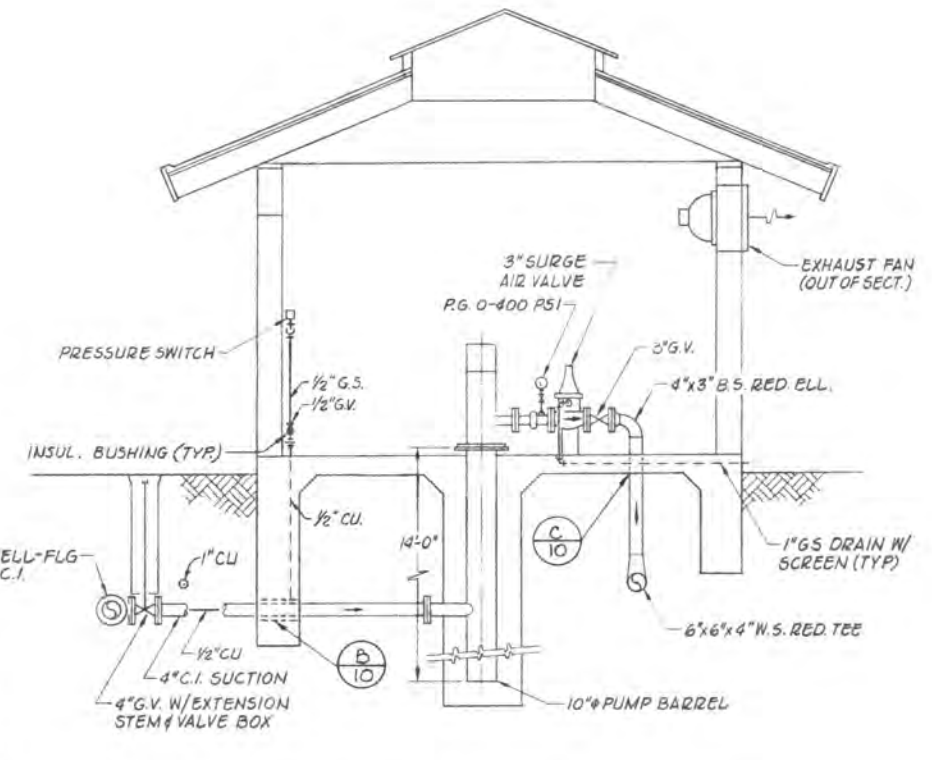
PLAN
SCALE: 3/8" = 1'-0"



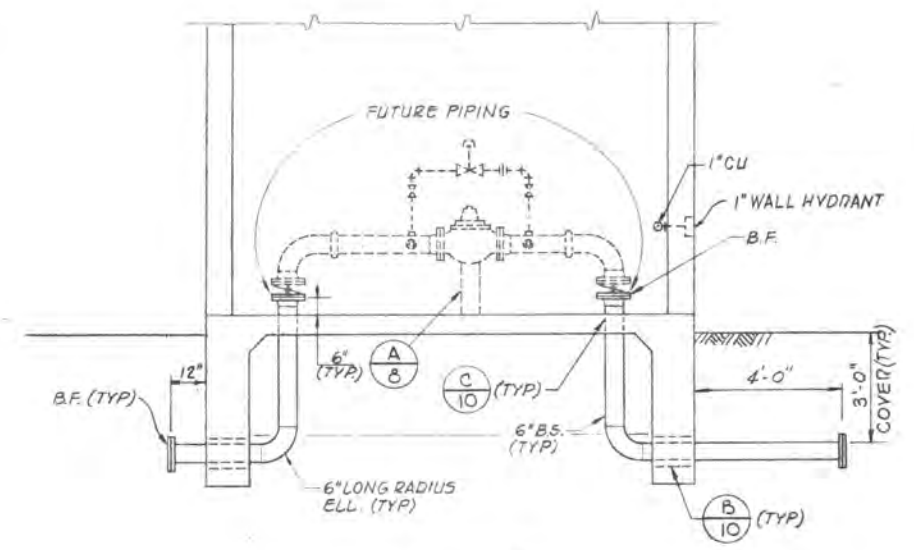
VALVE SUPPORT A/B
N.T.S.



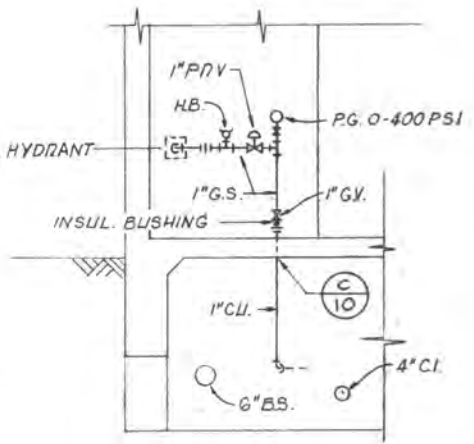
FLOWMETER DETAIL B/B
N.T.S.



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



SECTION 2/8
SCALE: 3/8" = 1'-0"



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

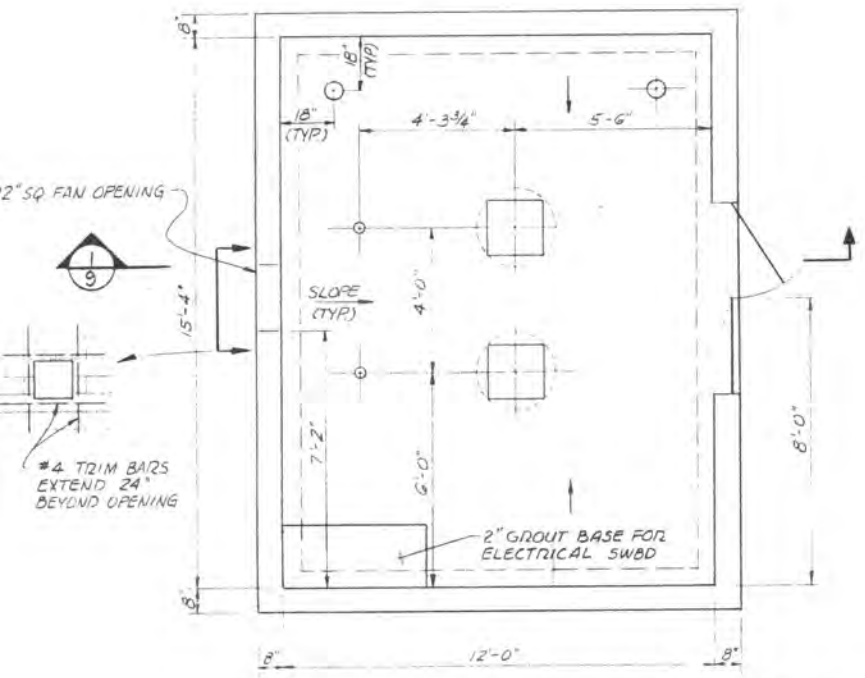
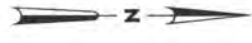


EDA PROJECT NO 07 01 01862

CALAVERAS COUNTY WATER DISTRICT
EBBETTS PASS STORAGE FACILITIES
BIG TREES PUMPING STATION
**MECHANICAL PLAN,
SECTIONS & DETAIL**

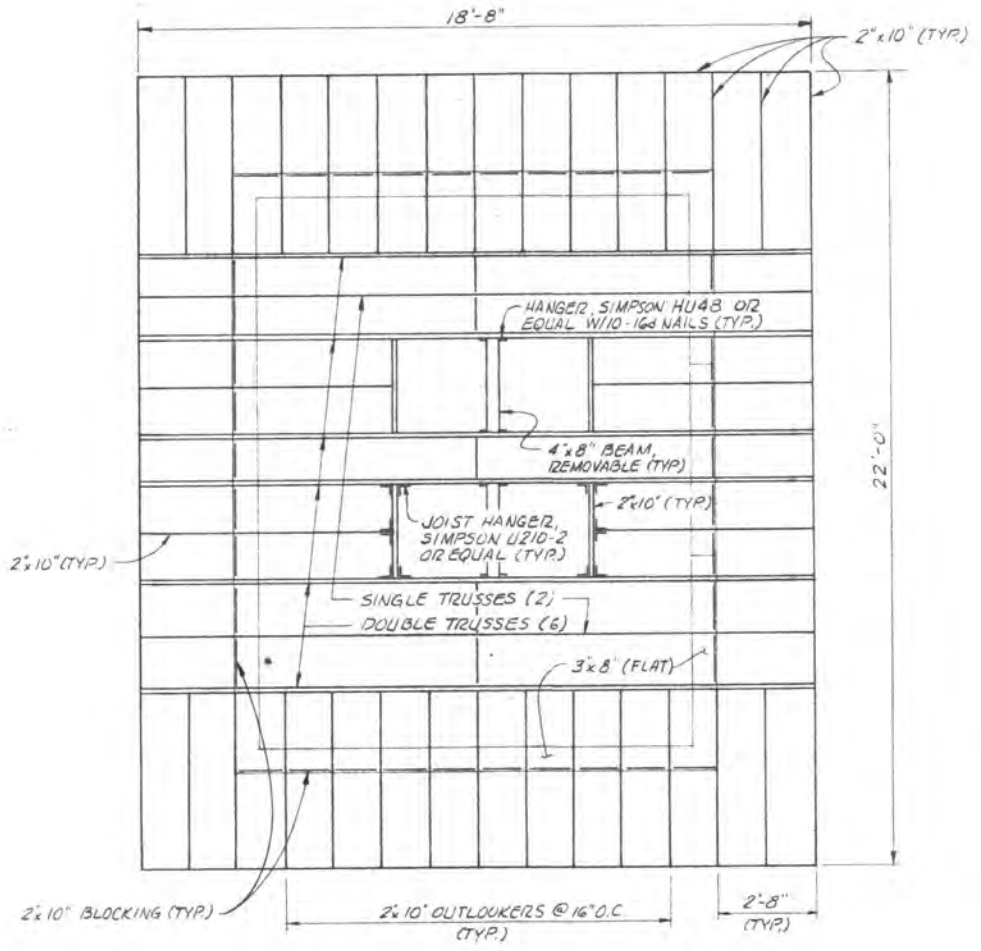
DEWANTE AND STOWELL
SANITARY AND CIVIL ENGINEERS - SACRAMENTO, CALIFORNIA

DRAWN: R.R.R. SUBMITTED: SHEET: 1

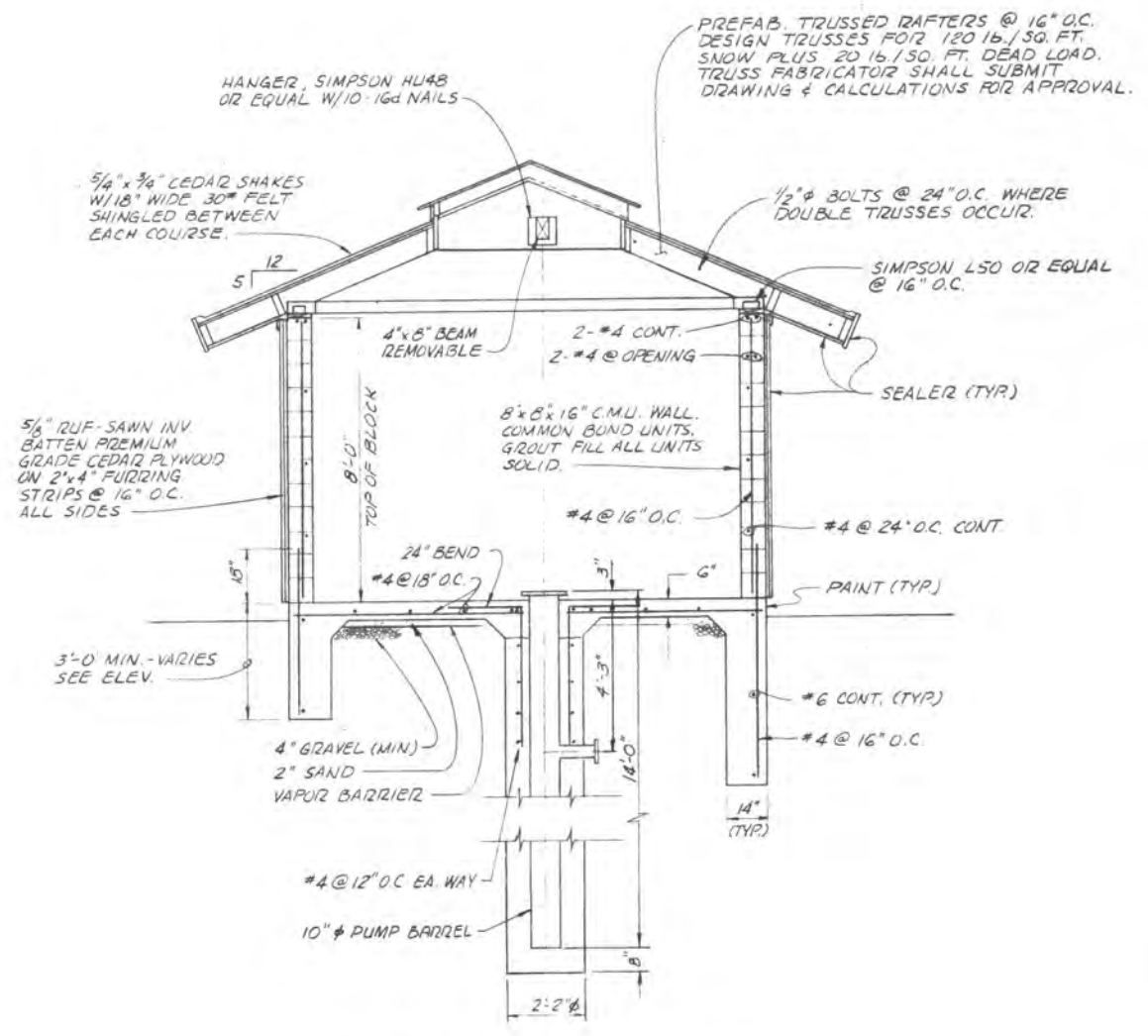


NOTE: FLOOR MUST SLOPE TO DOOR OPENING FOR DRAINAGE

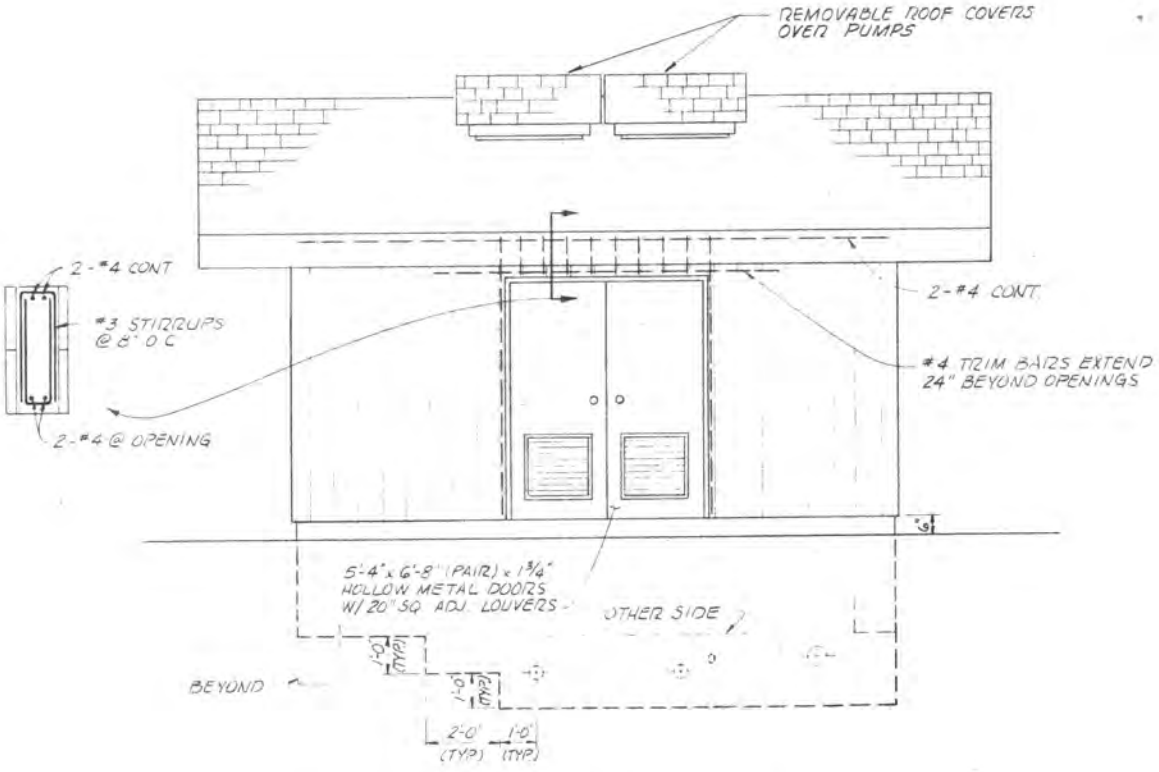
FLOOR PLAN
SCALE: 3/8" = 1'-0"



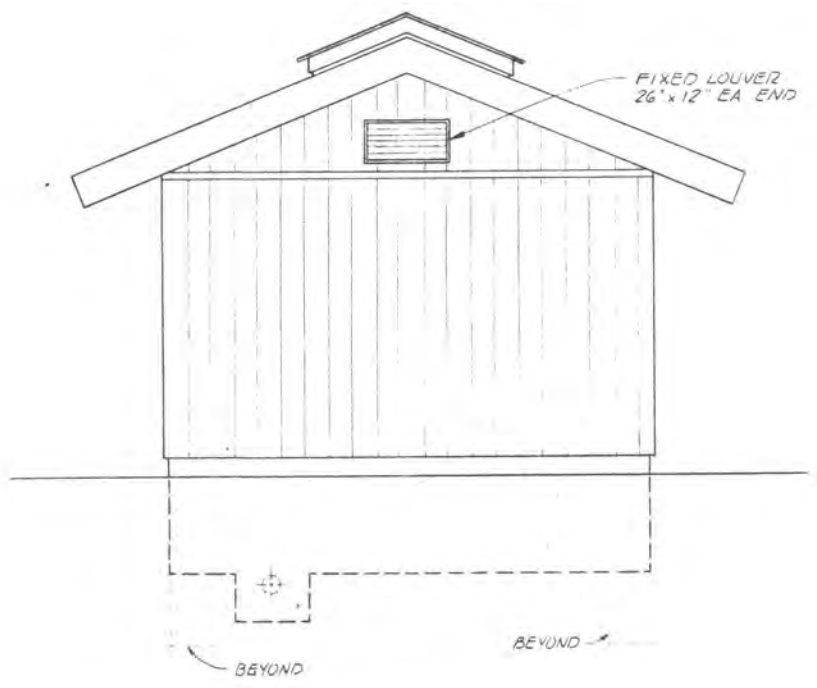
ROOF DETAIL
SCALE: 3/8" = 1'-0"



SECTION 1/9
SCALE: 3/8" = 1'-0"



NORTH ELEVATION
SCALE: 3/8" = 1'-0"



EAST ELEVATION
SCALE: 3/8" = 1'-0"

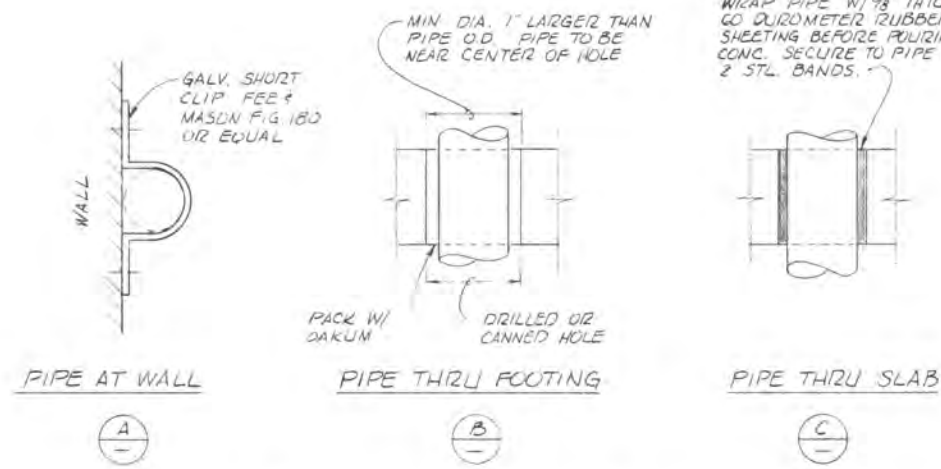


EDA PROJECT NO. 07 01 01862

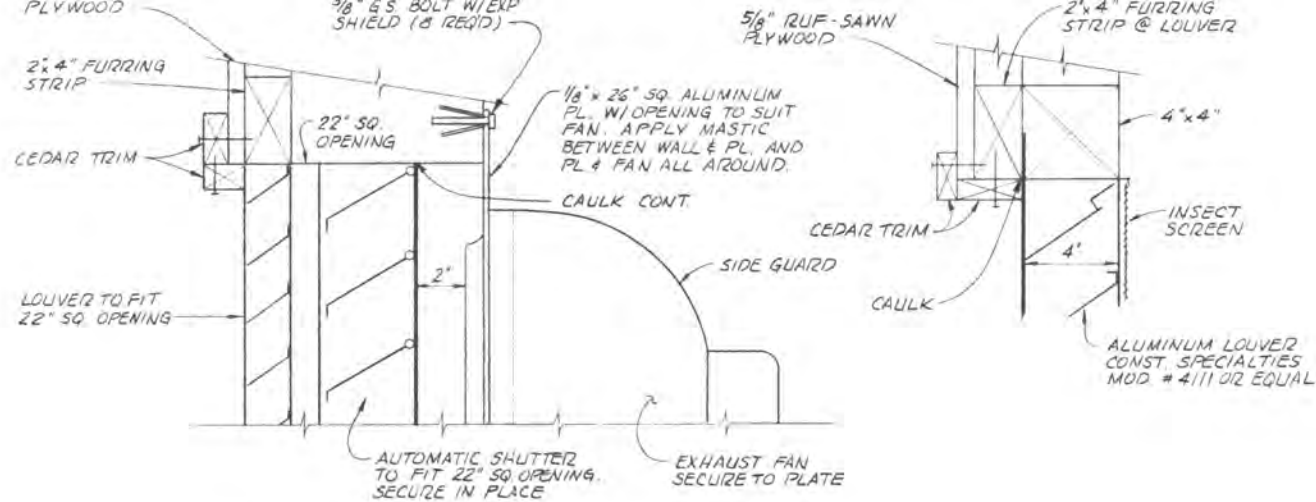
CALAVERAS COUNTY WATER DISTRICT
EBBETTS PASS STORAGE FACILITIES
BIG TREES PUMPING STATION

ARCHITECTURAL & STRUCTURAL

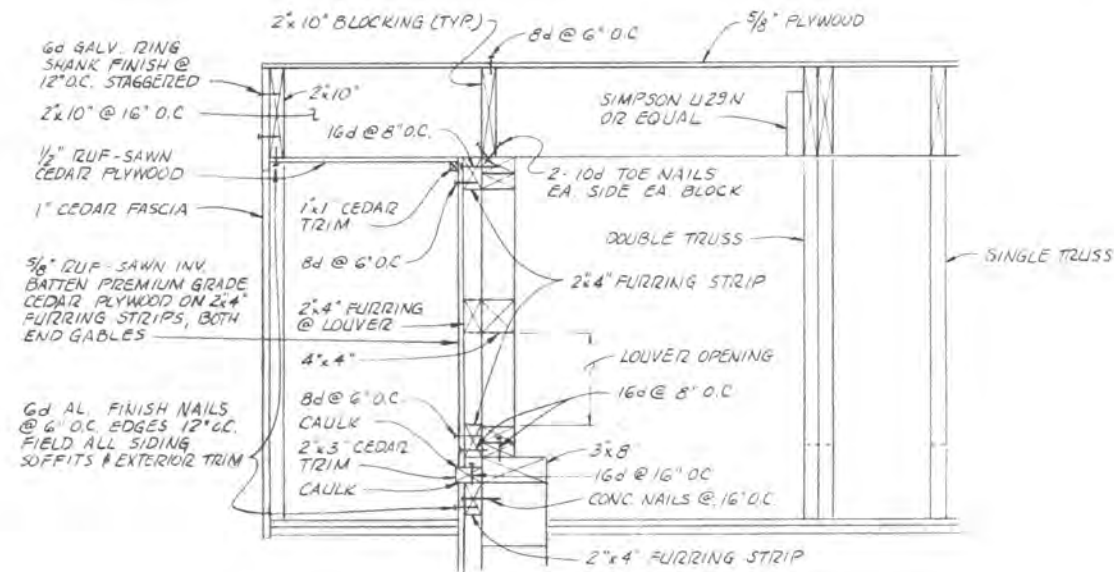
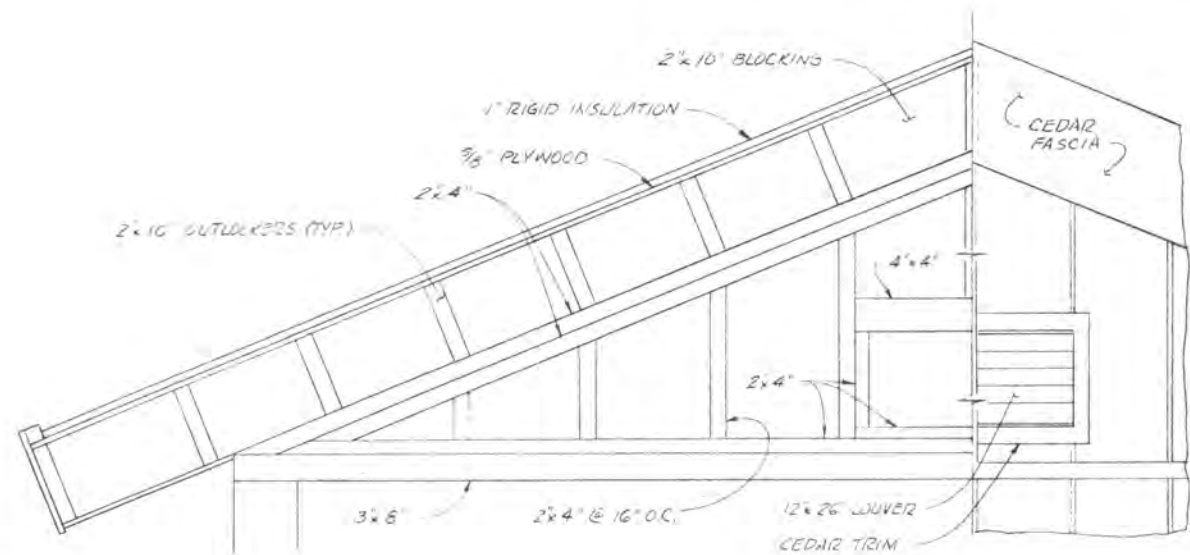
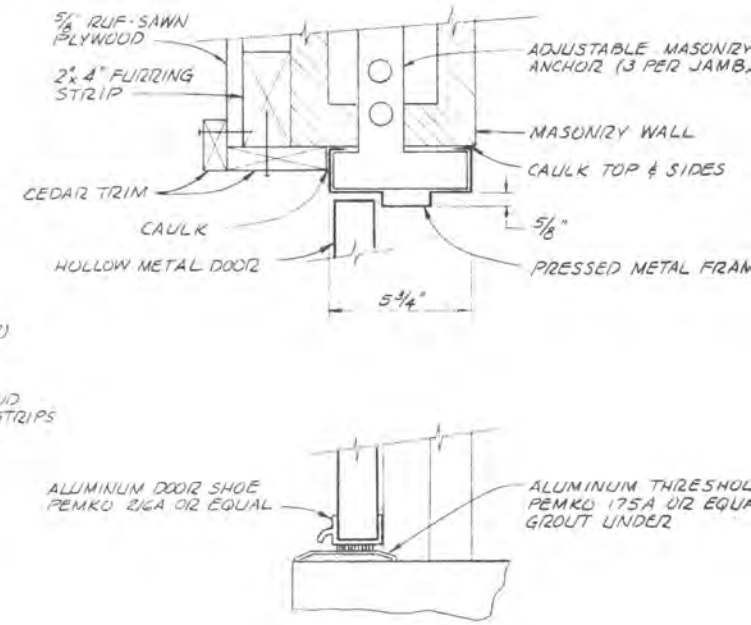
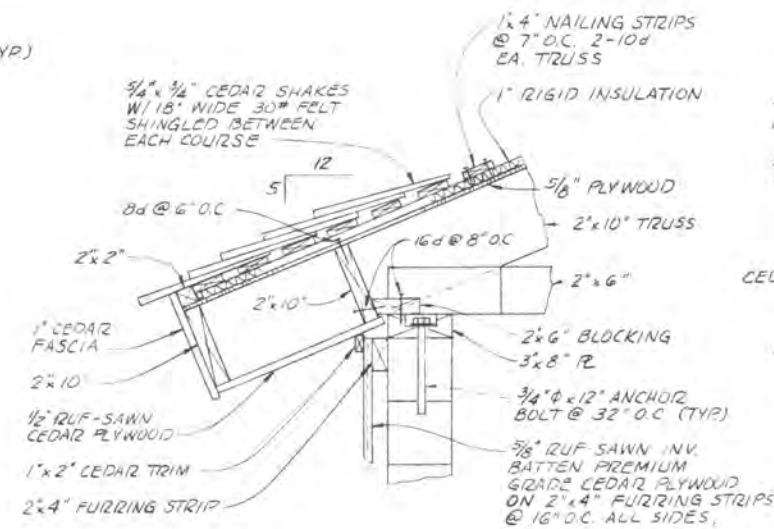
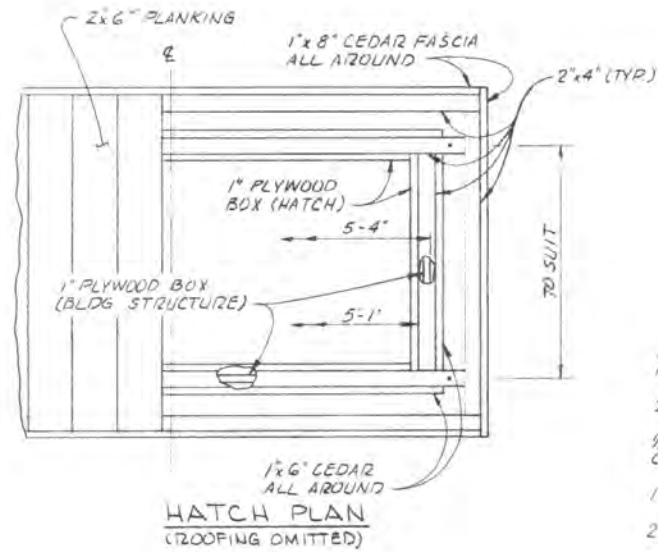
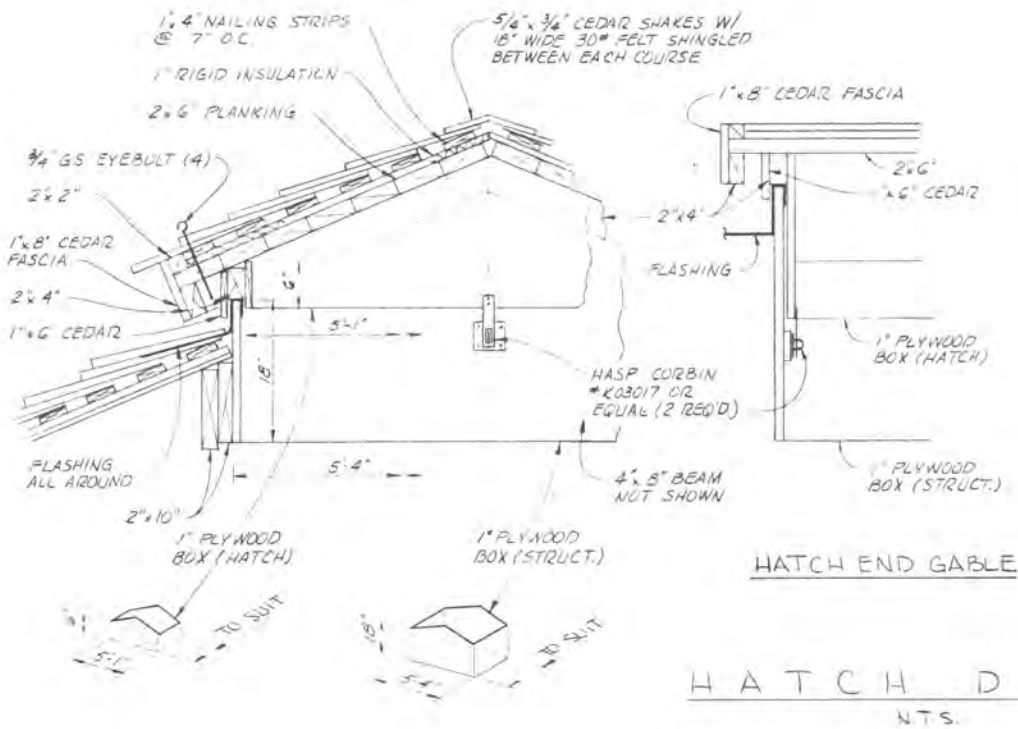
DEWANTE AND STOWELL
SANITARY AND CIVIL ENGINEERS - SACRAMENTO, CALIFORNIA
DRAWN: WES SUBMITTED: [Signature] SHEET NO.



PIPING DETAILS
N.T.S.



FAN & LOUVER DETAILS
N.T.S.



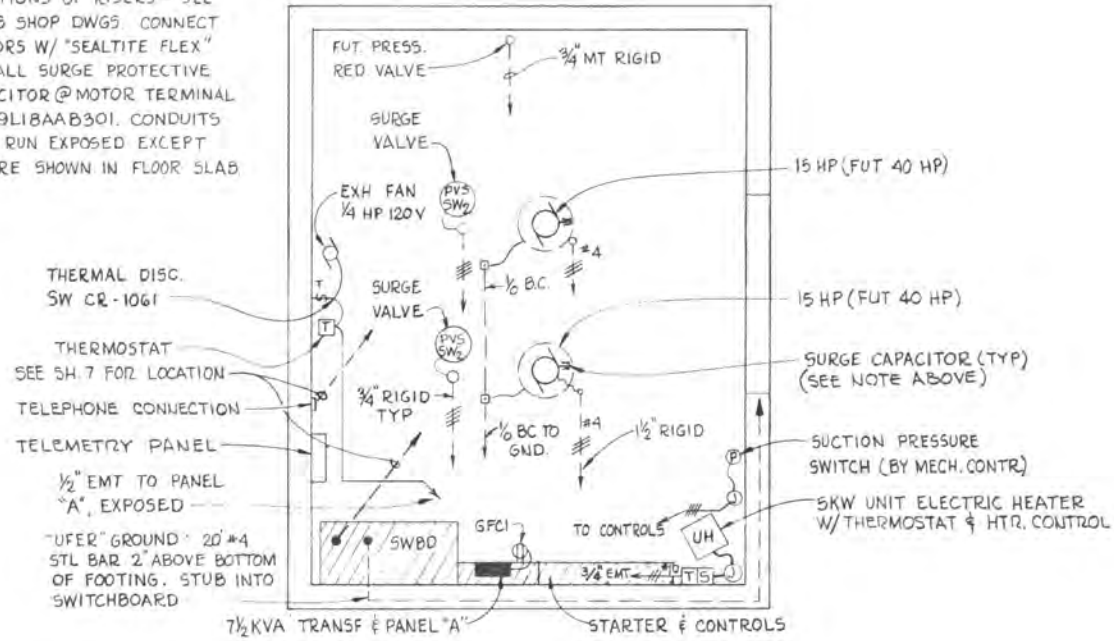
EDA PROJECT NO. 07 01 01

CALAVERAS COUNTY WATER DISTRICT
EBBETTS PASS STORAGE FACILITY
BIG TREES PUMPING STATION
ARCHITECTURAL AND STRUCTURAL DETAILS

DEWANTE AND STOWELL
SANITARY AND CIVIL ENGINEERS - SACRAMENTO, CA

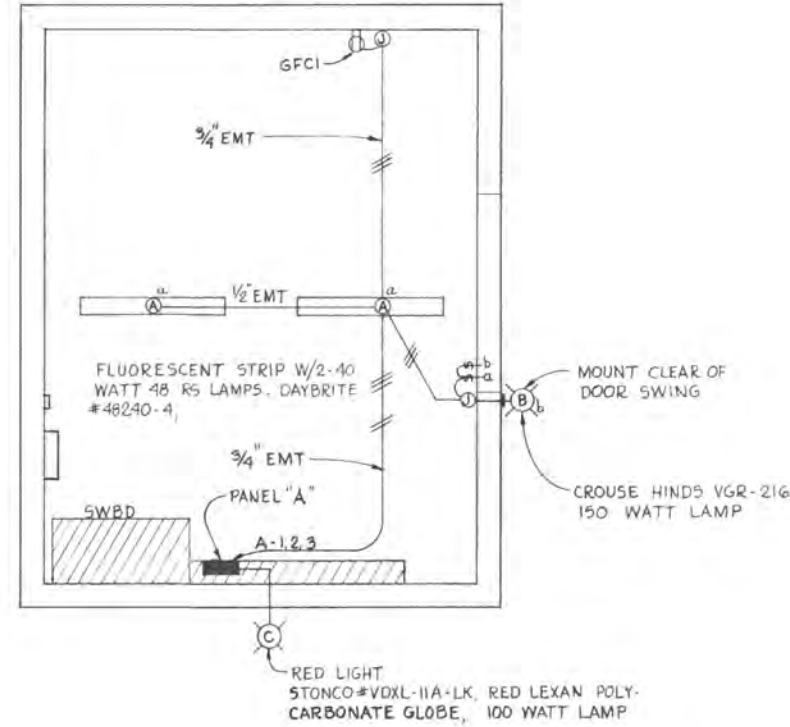
DRAWN: RES
CHECKED: F.J.F.
SUBMITTED:
APPROVED: [Signature]

NOTE: CAP STUBS W/PIPE
CPLG. & PLUG FLUSH W/
FINISHED FLOOR. VERIFY
LOCATIONS OF RISERS - SEE
MFR'S SHOP DWGS. CONNECT
MOTORS W/ "SEALTITE FLEX"
INSTALL SURGE PROTECTIVE
CAPACITOR @ MOTOR TERMINAL
GE#9L1BAAB301. CONDUITS
MAY RUN EXPOSED EXCEPT
WHERE SHOWN IN FLOOR SLAB



POWER PLAN

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



LIGHTING PLAN

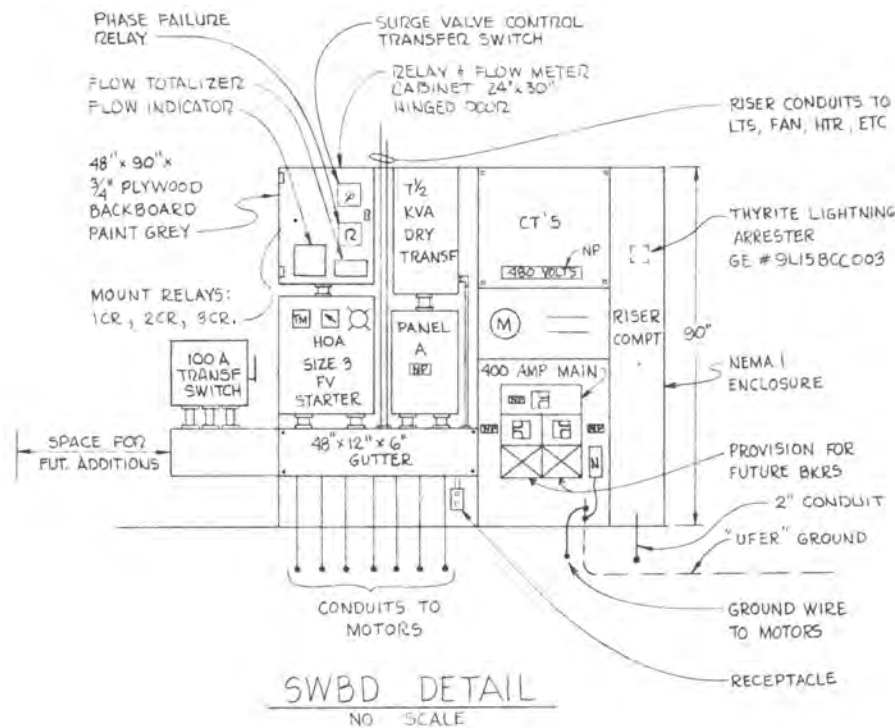
SCALE: 3/8" = 1'-0"

SYMBOLS

[Symbol]	LIGHT OUTLET
[Symbol]	PILOT LIGHT, PUSH TO TEST TYPE
[Symbol]	RECEPTACLE (G.F.C.I.)
[Symbol]	WALL SWITCH
[Symbol]	GROUND PLATE (FLUSH) OZ TYPE QG
[Symbol]	THERMOSTAT
[Symbol]	JUNCTION BOX
[Symbol]	CONTROL POWER TRANSFORMER
[Symbol]	PULL OUT FUSE
[Symbol]	ELAPSED TIME METER
[Symbol]	EMPTY; BC BARE COPPER
[Symbol]	CONDUIT RUN ON WALL OR CEILING
[Symbol]	CONDUIT RUN UNDER FLOOR OR UNDERGROUND
[Symbol]	DENOTES NO. OF #12 WIRES; NO MARKS = 1/2" C-2#12
[Symbol]	CONDUIT RUN DIRECT TO DESTINATION
[Symbol]	RELAY: EAGLE #BRI-8-A6-00 0-10MIN. ADJ. T.D.
[Symbol]	2CR " : SQUARE D #8501 W/2NO & INC CONTACT
[Symbol]	3CR " : EAGLE #BRI-3-A6-00 0-15MIN. ADJ. T.D.
[Symbol]	FLUSH STUB

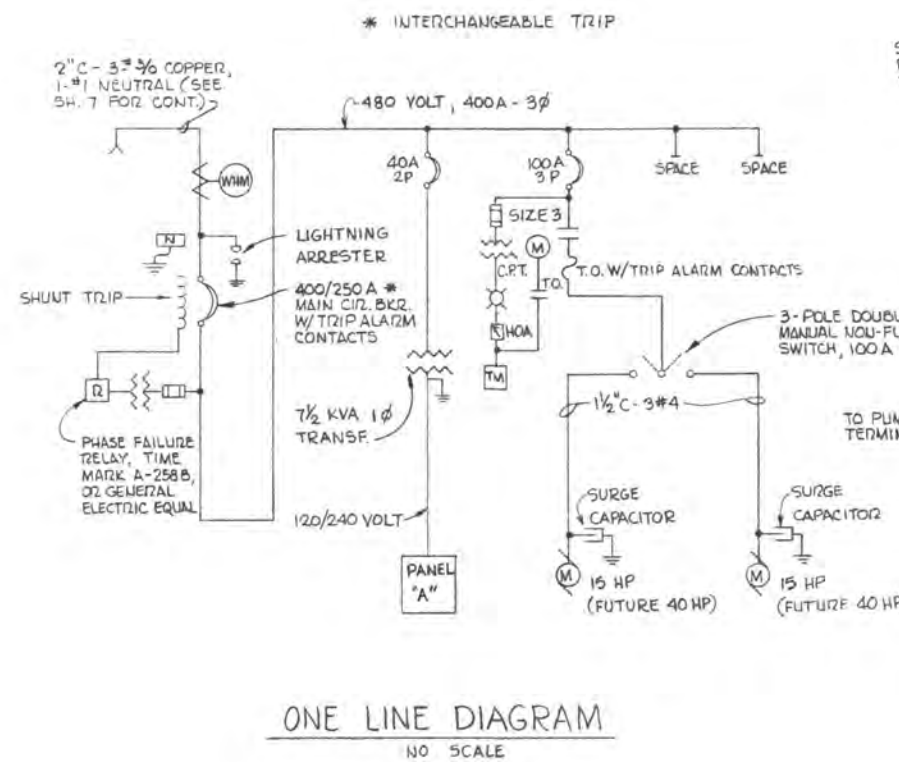
PANEL "A" 1Ø-3W-100A-120/220V

LOAD	WATTS	C.B. SIZE	NO.	Y	NO.	C.B. SIZE	WATTS	LOAD
LIGHTING	600	20/1	1	2	20/1			FLOW METER
CONV RECEPT	200		3	4		500		EXH FAN
SPARE			5	6				CONTROLS
			7	8				TELEMETRY POWER
			9	10				LIQ. LEVEL CONTROL POWER
ELEC. U. H.	5000	30/2	11	12				SPACE
			13	14				SPACE
				15				MAIN BREAKER



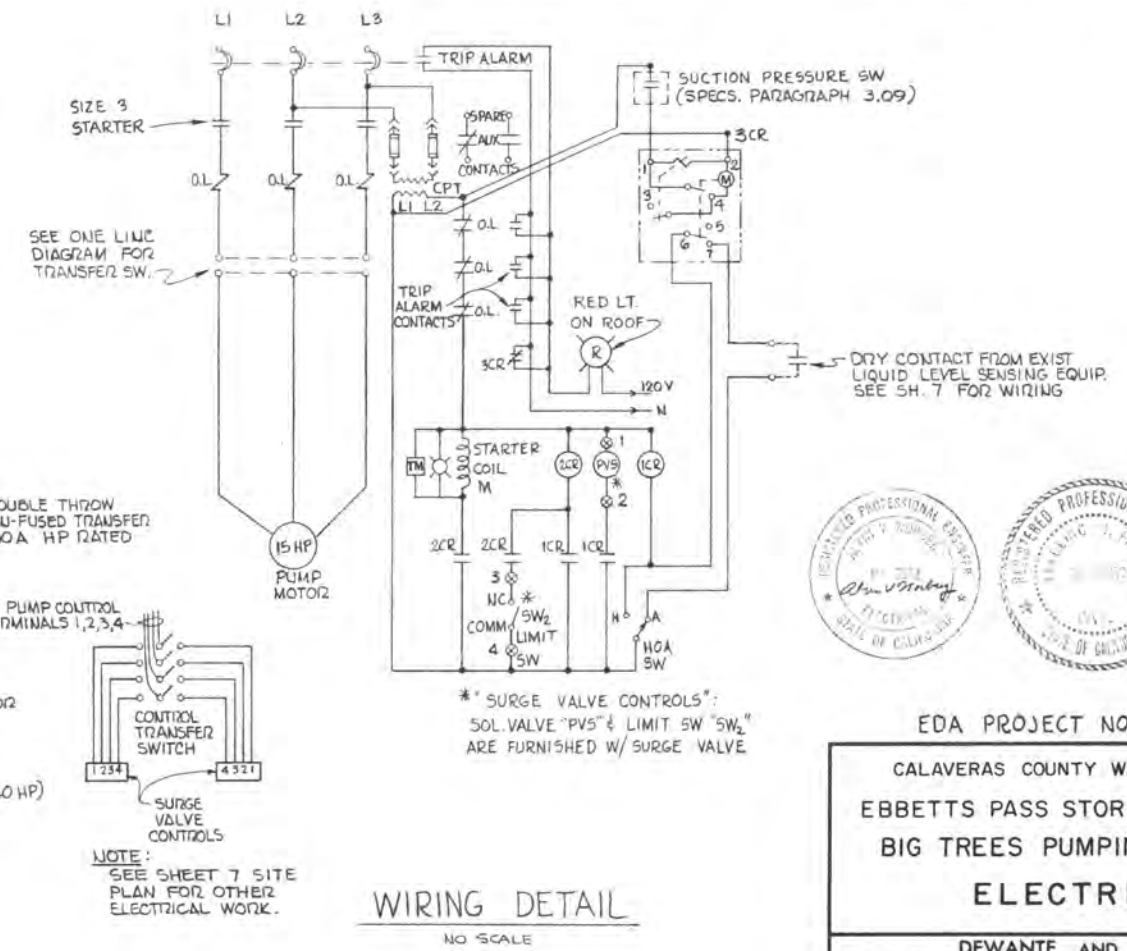
SWBD DETAIL

NO SCALE



ONE LINE DIAGRAM

NO SCALE

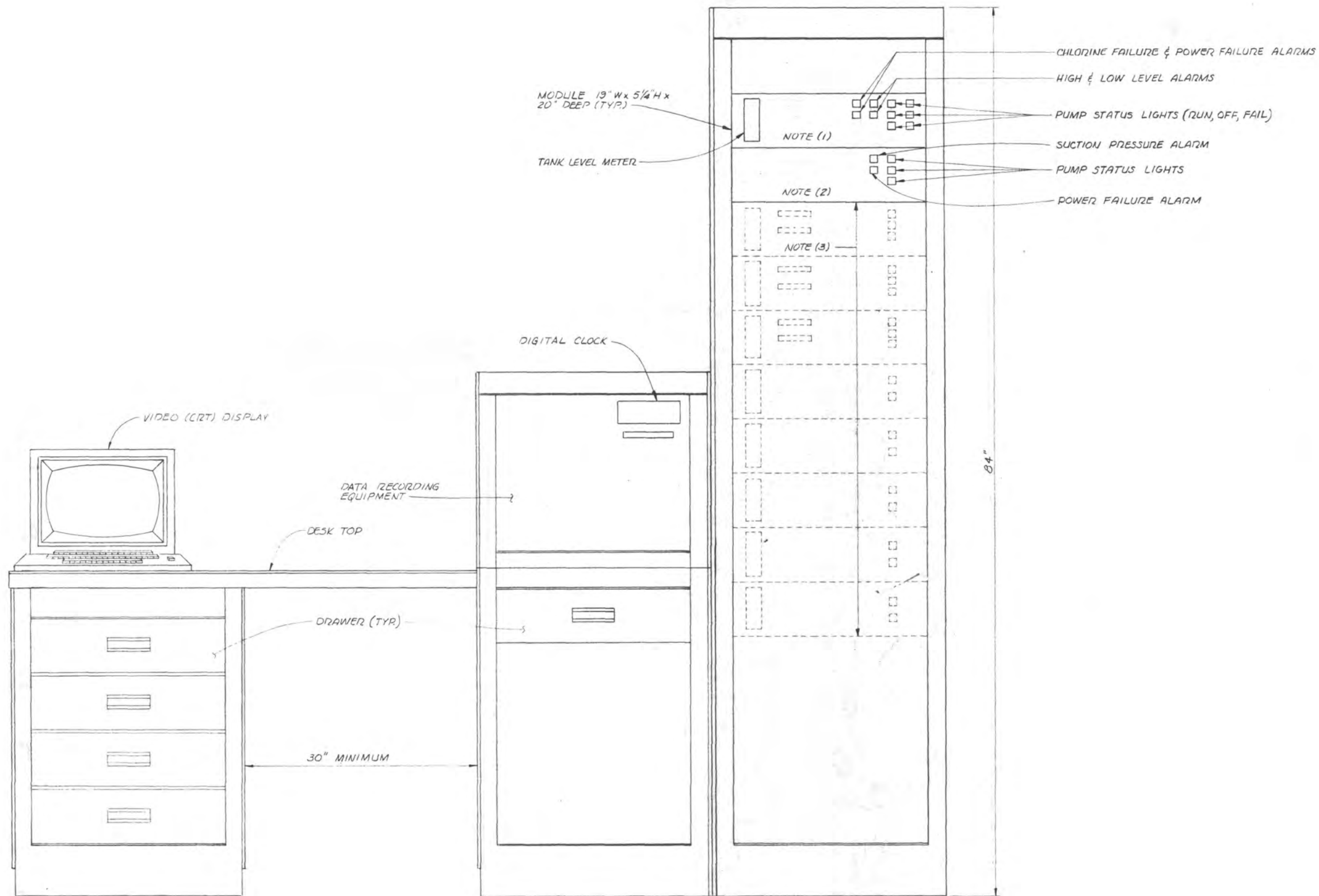


WIRING DETAIL

NO SCALE



EDA PROJECT NO 07 01 01
CALAVERAS COUNTY WATER DISTRICT
EBBETTS PASS STORAGE FACILITY
BIG TREES PUMPING STATION
ELECTRICAL
DEWANTE AND STOWELL
SANITARY AND CIVIL ENGINEERS - SACRAMENTO, CA
DRAWN: JAT
CHECKED: F.J.F.
SUBMITTED: T.S. Stowell



NOTES:

1. 3,000,000 GAL TANK SITE MODULE
2. BIG TREES PUMPING STATION MODULE
3. FUTURE MODULES
4. DIMENSIONS & EQUIPMENT ARRANGEMENT ARE APPROXIMATE. TELEMETRY EQUIPMENT SUPPLIER MAY VARY TO ACCOMMODATE THE SPECIFIC EQUIPMENT BEING SUPPLIED.



MASTER TERMINAL
N.T.S.

EDA PROJECT NO 07 01 01865

CALAVERAS COUNTY WATER DISTRICT
EBBETTS PASS STORAGE FACILITY

TELEMETRY FACILITIES

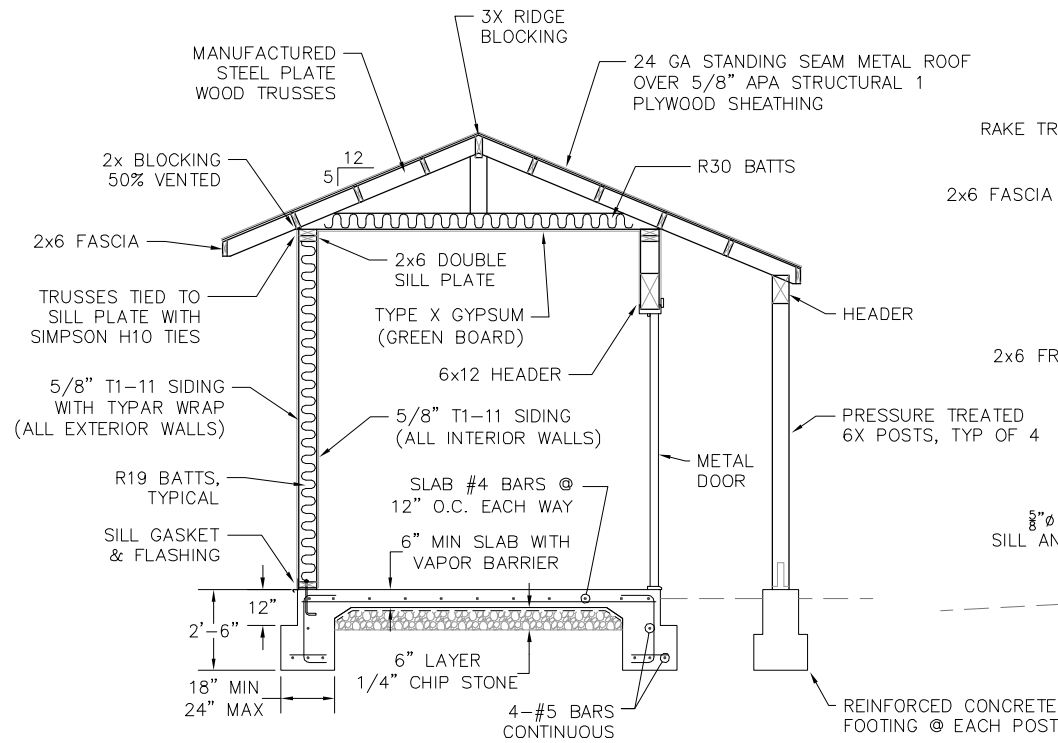
DEWANTE AND STOWELL
SANITARY AND CIVIL ENGINEERS — SACRAMENTO, CALIFORNIA

DRAWN: R.E.S. SUBMITTED: [Signature]
CHECKED: F.J.F.

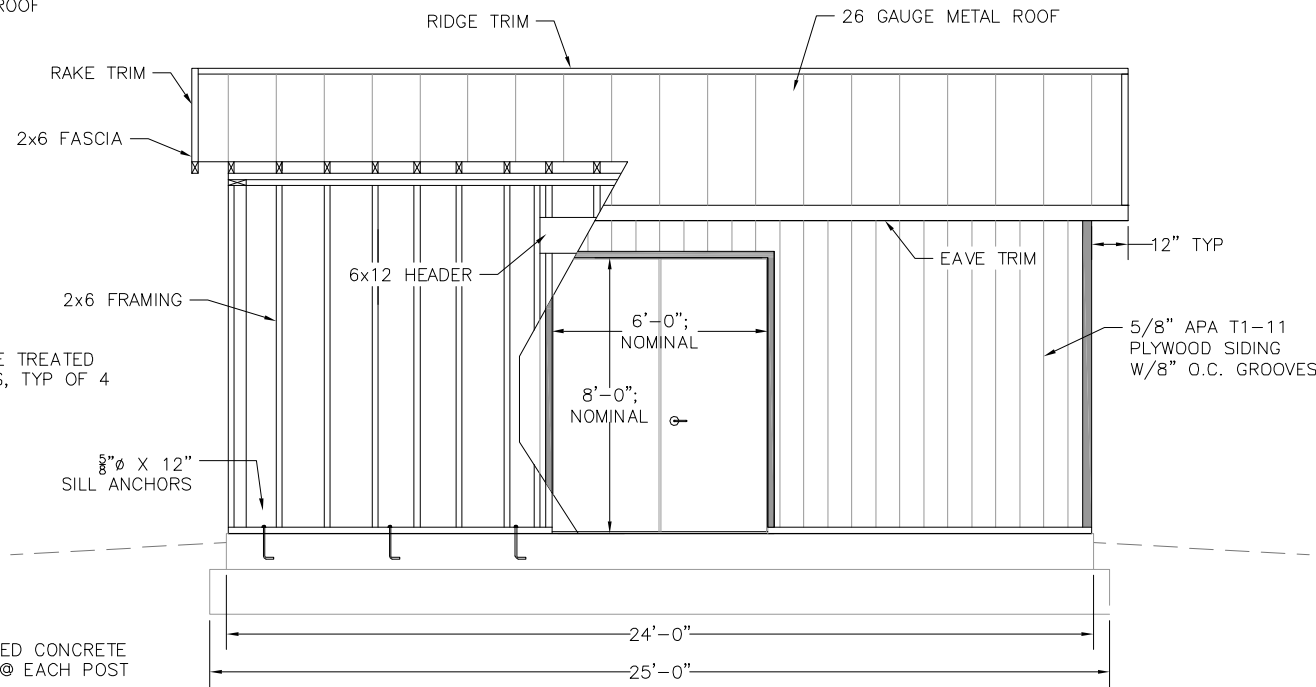
EXHIBIT 3

DISTRICT RECORD DRAWINGS
SAWMILL TANK
PUMP STATION IMPROVEMENTS

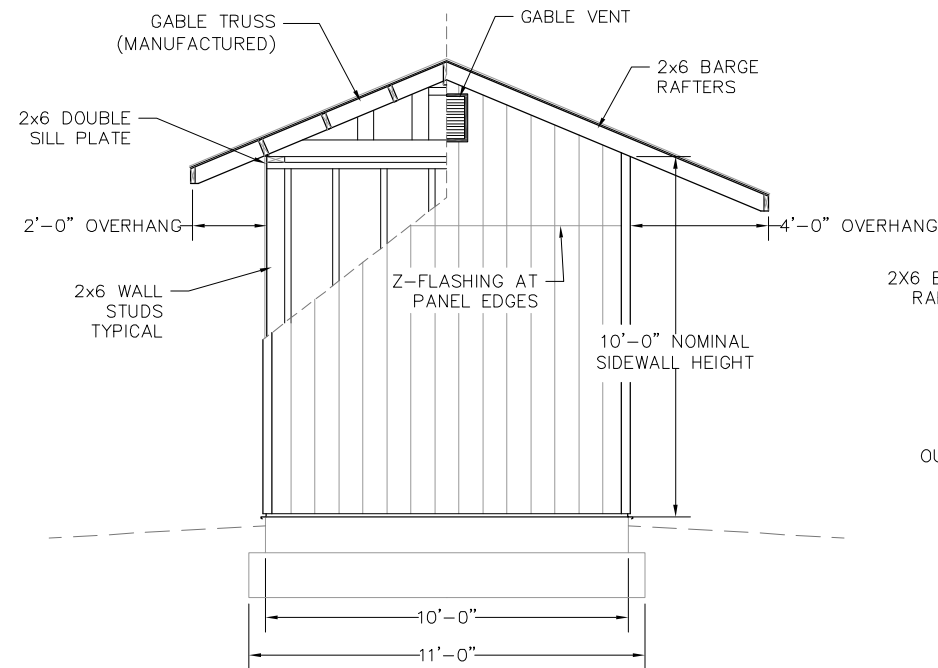
(50 PERCENT SCALE)



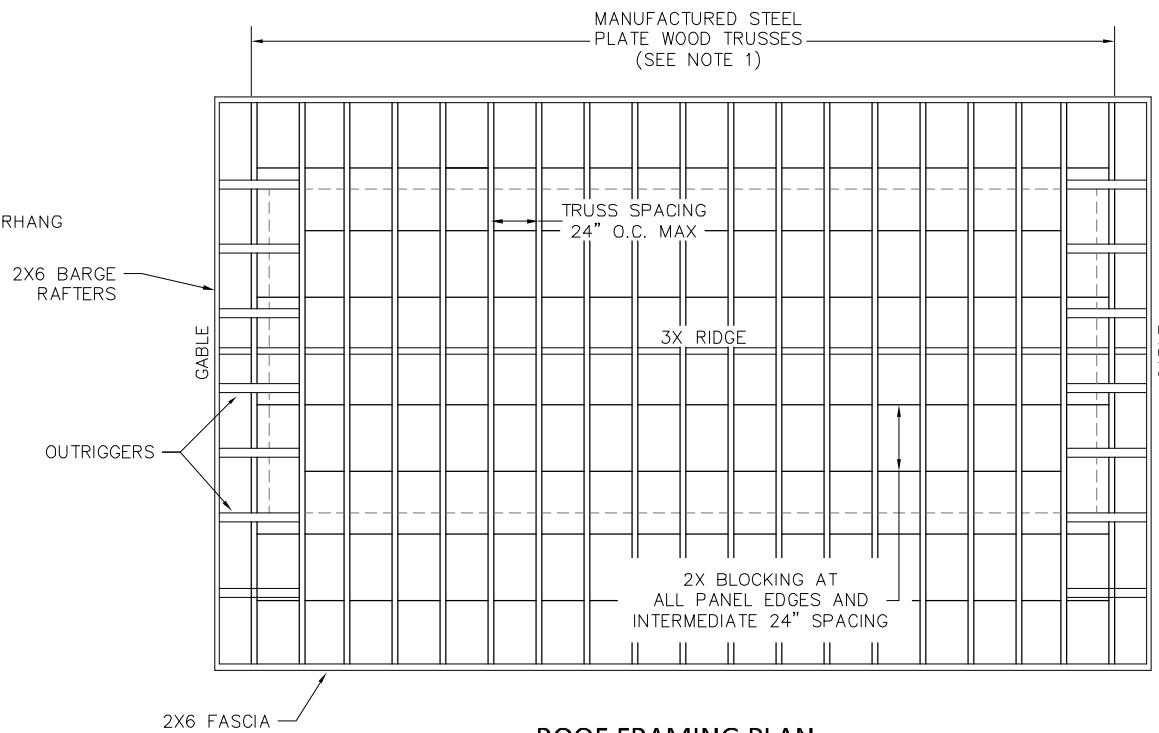
BUILDING SECTION
SCALE: 3/16" = 1'



FRONT ELEVATION
SCALE: 3/16" = 1'



SIDE ELEVATION
SCALE: 3/16" = 1'



ROOF FRAMING PLAN
SCALE: 3/16" = 1'

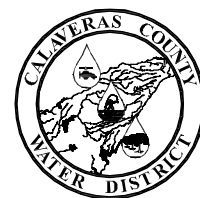
NOTES:

- PROVIDE MANUFACTURED STEEL PLATE WOOD TRUSSES AT MAXIMUM 24" O.C. SPACING WITH NO.1 STRUCTURAL DOUGLAS FIR DESIGNED WITH 2X6 TOP AND BOTTOM CORDS ACCORDING TO ANSI/TPH-2007 FOR THE FOLLOWING LOADS:
TOP CORD DEAD LOAD 20-LBS/SF
TOP CORD LIVE LOAD 110-LBS/SF (SNOW LOAD)
DURATION OF LOAD FACTOR 1.15 (2-MONTHS OF SNOW LOAD)
BOTTOM CORD DEAD LOAD 20-LBS/SF
- ROOF SHEATHING SHALL BE MINIMUM 5/8" APA RATED 4% STRUCTURAL 1 PLYWOOD SHEATHING (EXPOSURE 1) PLACED WITH LONG AXIS (STRENGTH AXIS) PERPENDICULAR TO THE ROOF TRUSSES; EDGE AND INTERMEDIATE NAIL @ 6" O.C. WITH 8D COMMON NAILS AT FRAMING; COVER WITH GRACE ICE & WATER SHIELD SELF-ADHERED UNDERLAYMENT INSTALL ACCORDING TO MANUFACTURER'S INSTRUCTIONS WITH 4" SIDE AND 6" END LAPS.
- EXTERIOR WALLS SHALL BE FULLY WRAPPED WITH TYPAR HOUSE WRAP AND THEN COVERED WITH 5/8" T1-11 FIR SIDING WITH 8" GROOVES. HORIZONTAL SIDING JOINTS SHALL BE MINIMIZED BY USING 4X10 PANELS OR 4X8 PANELS WITH HORIZONTAL Z-FLASHING LOCATED NOT LESS THAN 8-FT HIGH ON WALLS.
- COVER CEILING WITH ONE LAYER 5/8" TYPE X MOISTURE RESISTANT GYPSUM DRYWALL; FILL AND TAPE JOINTS, APPLY COMPOUND TO SCREW HEADS AND SAND/FINISH CEILING SMOOTH. COVER INTERIOR WALLS WITH 5/8" T1-11 PLYWOOD SIDING.
- PRIME ALL EXPOSED WOOD AND SIDING AND INTERIOR DRYWALL WITH KILZ PREMIUM 100% ACRYLIC INTERIOR/EXTERIOR PRIMER; PAINT CEILING AND INTERIOR WALLS WITH TWO COATS 100% ACRYLIC INTERIOR FLAT ENAMEL (KELLY MOORE ACRY-PLEX 655); PAINT EXTERIOR WOOD, METAL DOORS AND FRAMES WITH TWO COATS 100% ACRYLIC LOW SHEEN EXTERIOR PAINT (KELLY MOORE ACRY-SHIELD 1245).
- METAL ROOF SHALL BE AEP SPAN SPAN-LOK OR MBCI LOK-SEAM 24-GAUGE GALVALUME SUBSTRATE PANELS STRIATED 16" WIDE WITH 2" RIBS AND INTEGRAL BATTEN; ALL FASTENERS, CLIPS (UL90), TRIM, GUTTERS, DOWNSPOUTS, FLASHING AND OTHER COMPONENTS TO BE SUPPLIED BY THE SAME MANUFACTURER AS PANELS; SUBMIT COLOR CHOICES FOR KYNAR 500 OR EQUAL FINISH; INSTALL ROOF SYSTEM ACCORDING TO MANUFACTURER'S INSTRUCTIONS AND UL METHODS #343 OR #414.
- CONCRETE SHALL CONFORM TO SECTION 90 OF STATE STANDARD SPECIFICATIONS FOR CLASS 2 CONCRETE WITH 590#/CY TYPE-II PORTLAND CEMENT AND 15% BY WEIGHT (90#/CY) CEMENT CONTENT SUBSTITUTED WITH POZZOLANIC FLY ASH; CONCRETE SHALL HAVE 1" MAX COMBINED AGGREGATE GRADING, MAX 0.5 W/C RATIO, 2"-4" SLUMP, 4%±1% ENTRAINED AIR AND MINIMUM 3000-PSI COMPRESSIVE STRENGTH AT 28-DAYS; DELIVER AND PLACE READY-MIX WITHIN 90-MINUTES (BEFORE 300 REVOLUTIONS) AFTER FIRST ADDING WATER; CONSOLIDATE USING A MECHANICAL VIBRATOR, SCREED/TROWEL AND FINISH SURFACE WITH LIGHT BROOM FINISH. REBAR SHALL BE ASTM A615, GRADE 60. APPLY BONDING COMPOUND TO ALL COLD JOINTS.
- PROVIDE STEELCRAFT BF18 18-GA DOORS (STEEL STIFFENED CORE, FIBERGLASS INSULATION, TOP AND BOTTOM CAPS AND EPOXY FILLED SEAMS) WITH STEELCRAFT MU16 16-GA FRAMES; DOORS AND FRAMES SHALL BE GALVANNEALED, FACTORY PRIMED AND SHOP PAINTED; PROVIDE STANDARD FACTORY REINFORCEMENTS FOR EXIT DEVICES, CLOSERS AND FLUSH BOLTS; DOORS SHALL BE RIGHT HAND REVERSE BEVEL (RHRB) OPENING OUTWARD WITH ACTIVE LEAF AND LOCK ON RIGHT HAND SIDE AND WELDED ASTRAGAL WITH FLUSH BOLT PREPARATIONS ON INACTIVE LEAF.
- PROVIDE PEMKO THRESHOLDS (PEMKO CT-14/1), SWEEPES (PEMKO 368_N), WEATHERSTRIPPING (PEMKO 290_PK) AND ASTRAGAL SEALS (PEMKO S771).
- VON DUPRIN SERIES 22 EXIT DEVICES (ANSI A156.3 GRADE 1) WITH ALUMINUM FINISH AND KNOB AND ESCUTCHEON TRIM; VERTICAL ROD EXIT DEVICE ON ACTIVE LEAF (WITH RG27 GUARD) AND MANUAL FLUSH BOLTS (IVES FB458) ON INACTIVE LEAF; PROVIDE LCN 4020 CLOSERS (ANSI A156.4 GRADE-1) WITH CAST-IRON CYLINDER ON ALL ACTIVE DOORS; HAGER BB1191 FULL MORTISE FIVE KNUCKLE BALL BEARING STANDARD WEIGHT STAINLESS STEEL HINGES (ANSI-A5112) WITH NON-REMOVABLE PINS.
- CONTRACTOR SHALL COORDINATE INSTALLATIONS BY SUBCONTRACTORS TO PREVENT CONFLICTS BETWEEN PLACEMENT OF ELECTRICAL CONDUITS AND SUBSEQUENT PLACEMENT OF REINFORCING STEEL; A MINIMUM 2-INCH CLEARANCE SHALL BE PROVIDED BETWEEN CONDUITS (INCLUDING CONDUIT SUPPORTS) AND PLANNED LOCATIONS OF ADJACENT REINFORCING STEEL; DURING INSTALLATION OF CONDUITS, THE SUBCONTRACTOR SHALL ALLOW MINIMUM 4-INCH GAPS AT THE PLANNED LOCATIONS OF SLAB REINFORCING BARS (EVERY 16-INCHES ON-CENTER).

REV.	DESCRIPTION:	DATE:

PROJECT MANAGER:
ENGINEER: C. PALMER
CHECKED:
DRAWN BY: C. PALMER

**ELECTRICAL BUILDING
ELEVATION / SECTION / PLAN**



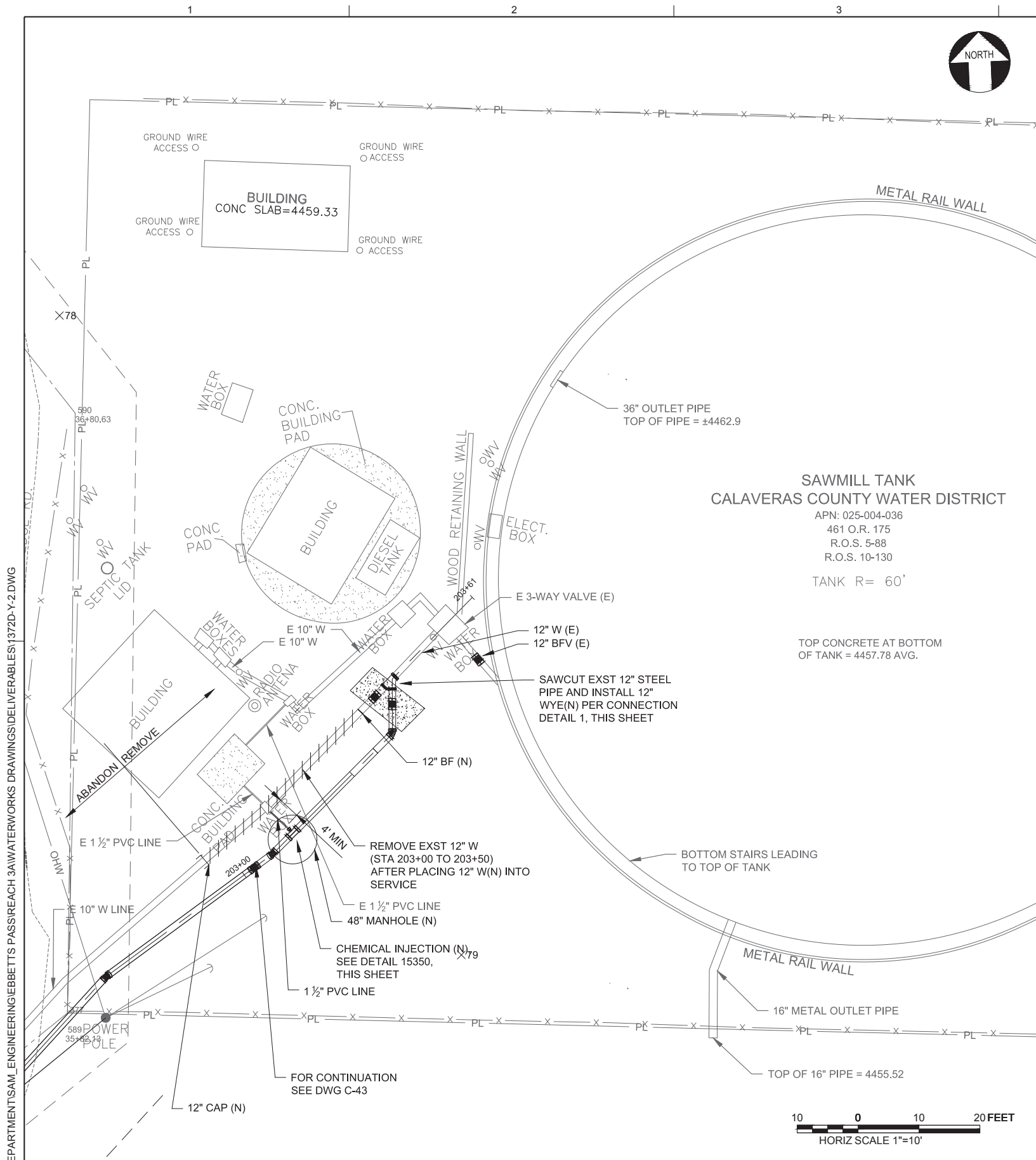
CALAVERAS COUNTY
WATER DISTRICT
423 EAST SAINT CHARLES STREET
P.O. BOX 846
SAN ANDREAS, CA 95249
PHONE: (209) 754-3543 FAX: (209) 754-1069

PROJECT: SAWMILL PUMP STATION IMPROVEMENTS		
DATE: MAY 18, 2012	PROJECT NO: -	SHEET NO. 1
SCALE: AS NOTED	FILE NAME: -	

EXHIBIT 4

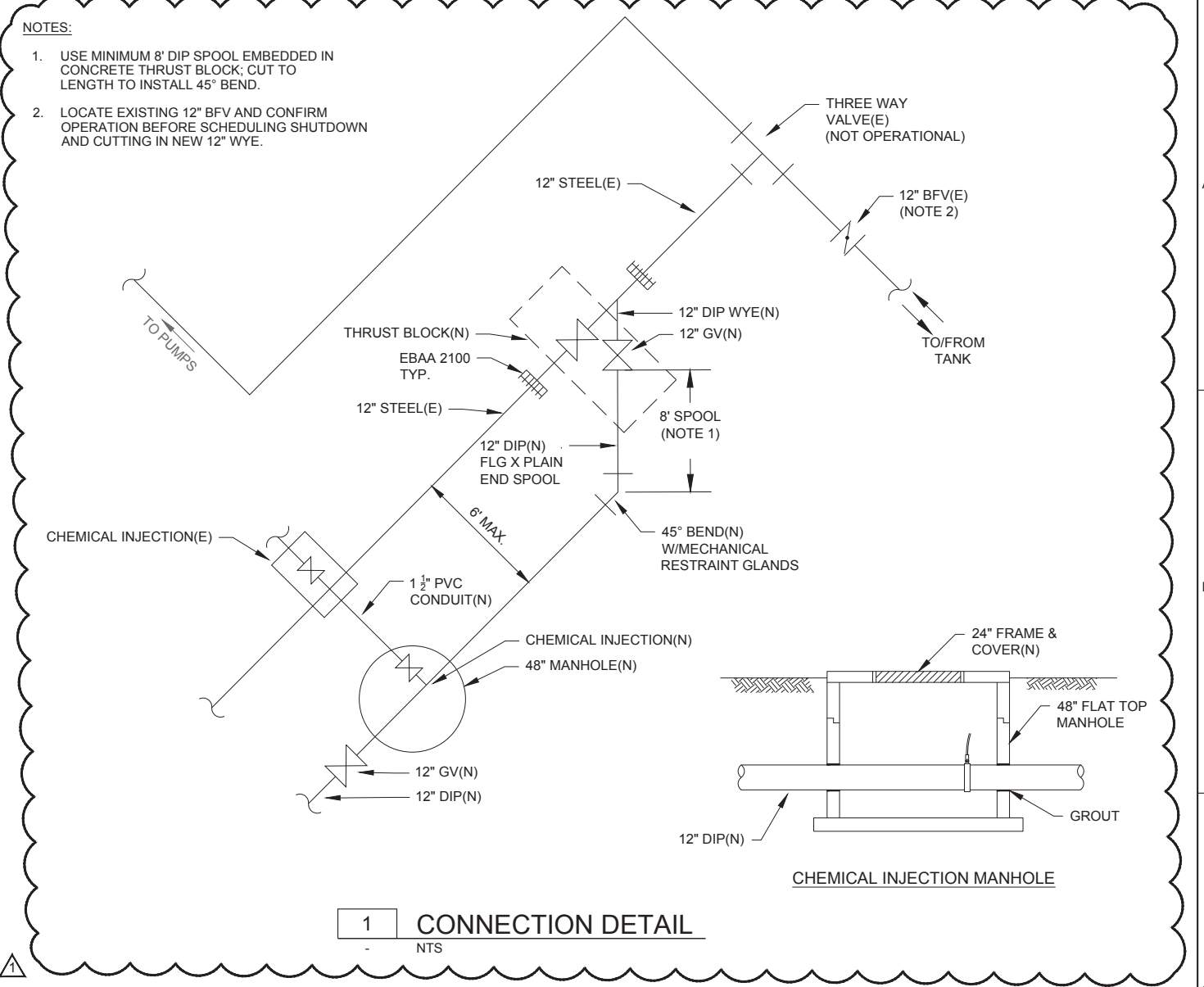
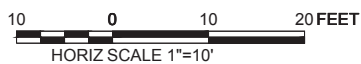
DISTRICT RECORD DRAWINGS
REACH 3A PROJECT
SAWMILL TANK SITE IMPROVEMENTS

(50 PERCENT SCALE)

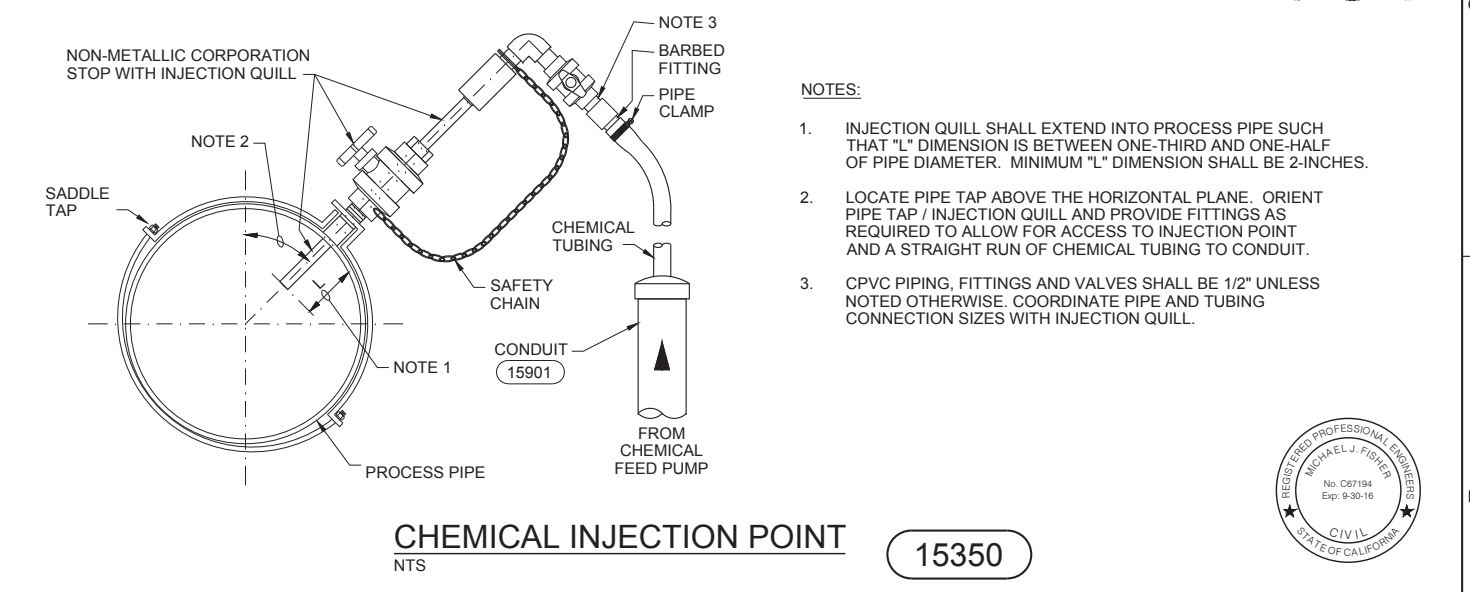


SAWMILL TANK
CALAVERAS COUNTY WATER DISTRICT
 APN: 025-004-036
 461 O.R. 175
 R.O.S. 5-88
 R.O.S. 10-130
 TANK R= 60'

TOP CONCRETE AT BOTTOM OF TANK = 4457.78 AVG.



1 CONNECTION DETAIL
 NTS



CHEMICAL INJECTION POINT
 NTS

15350

6/20/16	ADDENDUM 3	CRP	DESIGN K ALACON
			DRAWN P WEBSTER
			CHECKED M FISHER
			APPROVED M FISHER
NO.	DATE	REVISION	BY

BENCH MARK	ELEV. 3845.47
DESCRIPTION	
5/8" REBAR & CAP IN A PARKING ISLAND IN THE PARKING LOT OF MEADOWMONT SHOPPING CENTER.	



CALAVERAS COUNTY WATER DISTRICT
 EBBETTS PASS WATER SYSTEM
 REACH 3A PIPELINE PROJECT

YARD PIPING
SAWMILL TANK SITE

DATE	OCT 2015
PROJECT NUMBER	13-072
DRAWING NUMBER	Y-2
SHEET	56 - 62

EXHIBIT 5

**CALAVERAS COUNTY WATER DISTRICT
PROFESSIONAL SERVICE AGREEMENT (PSA)**

**Professional Services Agreement
with
Calaveras County Water District
120 Toma Court
San Andreas, CA 95249
Telephone 209-754-3543 Fax 209-754-1120**

The terms on subsequent pages are incorporated in this document and will constitute a part of the agreement between the parties when signed.

To: Consultant

Phone:

Fax:

Date:

**Agreement No.
Purchase Order No.**

The undersigned Consultant offers to furnish the following: (scope of work)

Contract Price: Not to exceed \$ _____, as shown in Attachment A.

Completion Date:

For Technical Direction by Calaveras County Water District: Kevin Williams, P.E., Senior Civil Engineer, 120 Toma Court, San Andreas, CA 95249, kevinw@ccwd.org or phone (209) 419-3979, or designee.

For Direction by Consultant:

Accepted: Calaveras County Water District

Consultant:

By: _____
Michael Minkler
General Manager

By: _____
Name
Title

Date: _____, 2024

Date: _____, 2024

Consultant agrees with Calaveras County Water District that:

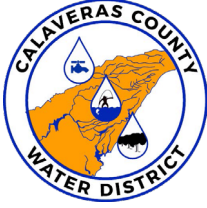
- a. Hold-Harmless. When the law establishes a professional standard of care for the Consultant's services, to the fullest extent permitted by law, Consultant will indemnify and hold harmless Calaveras County Water District, its directors, officers, employees, and authorized volunteers from all claims and demands of all persons to the extent caused by the Consultant's negligence, recklessness, or willful misconduct in the performance (or actual or alleged non-performance) of the work under this agreement. Consultant shall defend itself against any and all liabilities, claims, losses, damages, and costs arising out of Consultant's negligent performance or non-performance of the work hereunder and shall not tender such claims to Calaveras County Water District nor to its directors, officers, employees, or authorized volunteers, for defense or indemnity.
- b. Indemnification. Other than in the performance of professional services, to the fullest extent permitted by law, Consultant will defend, indemnify and hold harmless Calaveras County Water District, its directors, officers, employees and authorized volunteers from all claims and demands of all persons arising out the negligent or reckless performance of the work or furnishing of materials; including but not limited to, claims by the Consultant or Consultant's employees for damages to persons or property except to the extent caused by the negligence or willful misconduct or active negligence of Calaveras County Water District, its directors, officers, employees, or authorized volunteers.
- c. Workers Compensation. By his/her signature hereunder, Consultant certifies that he/she is aware of the provisions of Section 3700 of the California Labor Code which requires every employer to be insured against liability for workers' compensation or to undertake self-insurance in accordance with the provisions of that code, and that Consultant will comply with such provisions before commencing the performance of the professional services under this agreement. Consultant and sub-Consultants will keep workers' compensation insurance for their employees in effect during all work covered by this agreement. A sole proprietor exempt from the requirements to provide such coverage, with no employees or using no sub consultants, shall so certify on the form provided by the District.
- d. Professional Liability. Consultant will file with Calaveras County Water District, before beginning professional services, a certificate of insurance satisfactory to the Calaveras County Water District evidencing professional liability coverage of not less than \$1,000,000 per claim and annual aggregate, requiring 30 days' notice of cancellation (10 days for non-payment of premium) to Calaveras County Water District. Coverage is to be placed with a carrier with an A.M. Best rating of no less than A-: VII, or equivalent, or as otherwise approved by Calaveras County Water District. The retroactive date (if any) is to be no later than the effective date of this agreement. Consultant shall maintain such coverage continuously for a period of at least three years after the completion of the contract work. Consultant shall purchase a one-year extended reporting period i) if the retroactive date is advanced past the effective date of this Agreement; ii) if the policy is canceled or not renewed; or iii) if the policy is replaced by another claims-made policy with a retroactive date subsequent to the effective date of this Agreement. In the event that the Consultant employs other consultants (sub-consultants) as part of the work covered by this agreement, it shall be the Consultant's responsibility to require and confirm that each sub-consultant meets the minimum insurance requirements specified above.

- e. General Liability. Consultant will file with Calaveras County Water District, before beginning professional services, certificates of insurance satisfactory to Calaveras County Water District evidencing general liability coverage of not less than \$1,000,000 per occurrence (\$2,000,000 general and products-completed operations aggregate (if used)) for bodily injury, personal injury and property damage; auto liability of at least \$1,000,000 for bodily injury and property damage each accident limit; workers' compensation (statutory limits) and employer's liability (\$1,000,000) (if applicable); requiring 30 days (10 days for non-payment of premium) notice of cancellation to Calaveras County Water District. The general liability coverage is to state or be endorsed to state "such insurance shall be primary, and any insurance, self-insurance or other coverage maintained by Calaveras County Water District, its directors, officers, employees, or authorized volunteers shall not contribute to it". The general liability coverage shall give Calaveras County Water District, its directors, officers, employees, and authorized volunteers additional insured status using ISO endorsement CG2010, CG2033, or equivalent. Coverage is to be placed with a carrier with an A.M. Best rating of no less than A- :VII, or equivalent, or as otherwise approved by Calaveras County Water District. In the event that the Consultant employs other consultants (sub-consultants) as part of the work covered by this agreement, it shall be the Consultant's responsibility to require and confirm that each sub-consultant meets the minimum insurance requirements specified above.
 - f. Insurance Notification. If any of the required coverages expire during the term of this agreement, the Consultant shall deliver the renewal certificate(s) including the general liability additional insured endorsement to Calaveras County Water District at least ten (10) days prior to the expiration date.
 - g. Direction/Orders. Consultant shall not accept direction or orders from any person other than the General Manager or the person(s) whose name(s) is (are) inserted on Page 1 as "other authorized representative(s)," subject to the limitations of paragraph "Changes", below. An Amendment to this Agreement will be issued in writing, incorporating Consultant's scope and mutually agreed-upon price and estimated schedule for completion. A fully executed Revised Purchase Order incorporating the additional/changed scope and price, shall also be issued, with a copy provided to Consultant.
 - h. Invoices. Consultant shall submit to the District monthly invoices for time and expenses subject to the contract limitation. Invoices shall reference the Purchase Order and project number shown on the purchase order form. Each invoice shall also include the total invoiced and paid to date, and the remainder outstanding. Invoices received without this information shall be returned to Consultant unpaid, for revision and re-submittal. Invoices shall be submitted to:
- Calaveras County Water District
120 Toma Court
San Andreas, CA 95249
- i. Payment. Payment, unless otherwise specified, is to be 30 days after receipt of an invoice deemed acceptable in accordance with paragraph h., above, by Calaveras County Water District and its acceptance in meeting the criteria of this Agreement.

- j. Permits. Permits required by governmental authorities will be obtained at Consultant's expense, and Consultant will comply with applicable local, state, and federal regulations and statutes including Cal/OSHA requirements.
- k. Changes. Any change in the scope of the professional services to be done, method of performance, nature of materials or price thereof, or to any other matter materially affecting the performance or nature of the professional services will not be paid for or accepted unless such change, addition or deletion is approved in advance, in writing by an Agreement Amendment executed by the General Manager of Calaveras County Water District.
- l. Progress of Work. Consultant shall perform the professional services promptly, diligently and in such manner and sequence as to assure the timely completion of other work dependent thereon and to permit completion of the professional services in a manner to ensure the work is completed on or before the Completion Date set forth above ("Schedule Requirements"). In this regard, Consultant shall at all times furnish and have available such sufficient and satisfactory equipment, materials, supplies and workers to perform the professional services in a prompt and timely manner in accordance with the timelines of this Agreement. In the event Consultant fails to perform the professional services in accordance with the Schedule Requirements, Consultant, at its own expense, shall provide additional equipment, work force, overtime or additional shifts so as to meet and maintain the Schedule Requirements. Consultant will pay all expenses and damages incurred by Owner resulting from the failure of Consultant to meet the Schedule Requirements, or abide by Owner's instructions with regard to the Schedule Requirements, to Owner upon demand.
- m. Assignment. Consultant shall not assign, delegate, sublet, or transfer any interest in or duty under this Agreement without the express prior written consent of the Calaveras County Water District.
- n. Termination. District may terminate this Agreement with ten (10) days prior written notice to Consultant and identifying the Consultant's final work date. In the case of such termination Consultant shall provide the Calaveras County Water District a final invoice for work performed and expenses incurred prior to termination within 30 calendar days following the final work date provided in the notice of termination. No additional invoices will be accepted, nor charges paid by the Calaveras County Water District after this 30-day final invoicing period.
- o. Products. All work products resulting from this Agreement, including documents and reports, drawings, models, specifications, computer drawings and other electronic expression, and the like that may be drafted, assembled, compiled, or obtained by Consultant during the performance of assigned tasks, and delivered to the Calaveras County Water District as Consultant's work product shall be the property of the Calaveras County Water District for its exclusive use. Except as may be distributed in its original form, any modification or other reuse of such work product for purposes other than those intended by this Agreement shall be at the Calaveras County Water District's sole risk and without liability to Consultant.
- p. Provided Information. Calaveras County Water District shall furnish the Consultant with associated drawings (plan and section) of associated equipment and/or infrastructure as necessary.

- q. Third Parties. The services to be performed by Consultant are intended solely for the benefit of the Calaveras County Water District. No person or entity not a signatory to this Agreement shall be entitled to rely on the Consultant's performance of its services hereunder, and no right to assert a claim against the Consultant by assignment of indemnity rights or otherwise shall accrue to a third party as a result of this Agreement or the performance of the Consultant's services hereunder. Notwithstanding the foregoing Consultant understands and agrees that Calaveras County Water District will be submitting the report to various State and/or Federal agencies for their review. Consultant agrees that the agencies receiving the report may and will rely on its accuracy. Moreover, this section in no way impairs Calaveras County Water District's rights to indemnity from Consultant as provided in this agreement, including any claims by third parties.
- r. Access to Records. Consultant shall provide access to the Federal grantor agency, the Comptroller General of the United States, or any of their duly authorized representatives to any books, documents, papers, and records of the contractor which are directly pertinent to that specific contract for the purpose of making audit, examination, excerpts, and transcriptions.
- s. Record Retention. Consultant shall retain all required records for three years after the Calaveras County Water District makes final payments and all other pending matters are closed.
- t. Modification. No waiver, amendment or modification of any term, provision, condition or covenant of this Agreement shall be effective unless set forth in writing, signed by the Parties hereto, and which specifically identifies such waiver, amendment or modification. Such waiver, amendment or modification shall be effective only to the extent identified in such writing.
- u. Independent Contractor Relationship. Consultant is and shall be an independent contractor of the District. Neither Consultant nor Consultant's employees shall be deemed to be employees or agents of the District. Nothing in this Agreement is intended to establish a partnership, joint venture, or agency relationship between the parties, and neither Consultant nor Consultant's employees are authorized to bind the District or make any representations on its behalf in any matter.
- v. Electronic Signatures. All parties agree to conduct this transaction electronically and use scanned or electronic signatures in accepting and conveying this agreement electronically by email or other electronic means, and therefore both parties acknowledge this agreement is accorded legal effect and binding on both parties.

* * *



**Design and Engineering Services for the
Ebbetts Pass Water System**

Sawmill Tank Replacement Project

CIP 11083S

July 10, 2024



July 10, 2024

Kevin Williams, P.E.
Senior Civil Engineer
Calaveras County Water District
kevinw@ccwd.org

(via Email)

Re: Request for Proposals (RFP) for Sawmill Tank Replacement Project

Dear Mr. Williams,

Black Water Consulting Engineers, Inc. (Black Water) has thoroughly reviewed the requirements set forth in the RFP for the Sawmill Tank Replacement Project (Project). We are confident that our team's expertise, background, and understanding uniquely position us to deliver the professional engineering services required for this project, including a basis of design report, design, CEQA compliance, and engineering support during bidding and construction phases. We acknowledge and accept Calaveras County Water District's (CCWD) Professional Services Agreement terms.

Since 2012, Black Water has been dedicated to partnering with utilities across Northern California, offering specialized consulting services in water and wastewater engineering. We believe that fostering strong partnerships with our clients leads to numerous benefits, including efficient communication to swiftly address design challenges and the ability to leverage our extensive knowledge and regulatory relationships. Black Water is well-equipped with the necessary resources to handle projects of this scope and complexity.

Aja Verburg, our Principal-in-Charge, has the authority to bind the firm and will oversee the contract with over 21 years of experience. As the founder and president of Black Water, I will ensure the delivery of our highest quality service through technical oversight. We have strong relationships with our subconsultants who will provide survey, CEQA, and geotechnical services for this project. Black Water's approach to all projects includes assigning expert engineers and designers to the appropriate tasks, doing what we do best.

Black Water appreciates the opportunity to submit this proposal and we look forward to collaborating with CCWD should Black Water be selected for this work. For any questions or additional information, please do not hesitate to contact me at 209.322.1817 or jeff@blackwater-eng.com.

Sincerely,



Jeff Black, P.E.
President

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Project Overview

The Sawmill Tank Replacement Project is a critical infrastructure initiative undertaken by the Calaveras County Water District (CCWD) to address water storage and quality issues within the Ebbetts Pass Water System. The existing Sawmill Tank, a 3.0-million gallon (MG) welded steel water storage facility constructed in 1977, is in poor condition and poses several operational challenges. These issues include water quality degradation due to capacity exceeding demand, leading to the formation of chlorinated organics, and limitations in performing necessary repairs due to the tank's design and operational constraints.

Project Scope and Objectives

The project's primary objective is to replace the current Sawmill Tank with two new ANSI/AWWA D103 coated bolted carbon steel tanks, each with a capacity of 0.5 MG. These tanks will be designed to meet the following criteria:

1. **Compliance with Regulatory Standards:** The new tanks will adhere to California Department of Drinking Water requirements and AWWA recommendations, ensuring resilience against seismic events and maintaining operational integrity.
2. **Enhanced Water Quality:** The design will incorporate tank mixing systems to maximize water circulation and reduce water age, thereby improving water quality.
3. **Operational Continuity:** The replacement process will be phased to maintain the operation of the existing tank and pump station during construction, ensuring continuous water supply to the 2,300 customers in the Ebbetts Pass area.
4. **Site-Specific Requirements:** The tanks will be designed to utilize the existing pump station and be situated on the District-owned property near White Pines Lake, with specific attention to the site's topographic and geotechnical conditions.

Incorporation of Pre-Proposal Site Visit Notes

During a pre-proposal site visit conducted on June 19, 2024, several key points were noted and will be incorporated into the project scope:

1. **Water Age and Mixing:** The current oversized tank contributes to significant water age issues. The new tanks will feature internal mixing systems to address this problem.
2. **Separate Inlet/Outlet Lines:** Separate inlet and outlet lines are preferred for the new tanks to enhance mixing and quality.
3. **Concrete Floors:** The new tanks will have concrete floors with embedded walls for enhanced structural integrity.
4. **Manual Valving:** Manual valving between the new tanks is acceptable and will be included in the design.
5. **Paving Around Tanks:** Paving around the new tanks will be incorporated to facilitate snow plowing in winter.
6. **Controls and Conduits:** The new tanks will use the same controls as the existing tank, necessitating new conduits and transducers.
7. **Pressure Gauges:** Due to frequent failures of site gauges, pressure gauges that convert to water elevations will be considered.
8. **Chlorination System:** The existing chlorination system will remain unchanged.
9. **Spiral Staircases:** To accommodate snow and ice conditions, spiral staircases will be included in the new tanks.
10. **CEQA Documentation:** In 2014, an Initial Study and Mitigated Negative Declaration (ISMND) was prepared for the Reach 3A Pipeline Replacement Project, which replaced the 12-inch pipeline connecting the Sawmill tank to the Ebbetts Pass water system. An ISMND is anticipated to satisfy the CEQA requirements for the Sawmill Tank Replacement Project.

Project Approach and Deliverables

The project approach includes a comprehensive set of services covering project management, surveying, geotechnical investigation, environmental compliance, preliminary and detailed design, and construction assistance. Key components include:

1. **Project Management:** Continuous oversight to ensure adherence to budget, schedule, and scope, coupled with regular communication with District staff and stakeholders.
2. **Survey and Geotechnical Investigation:** Detailed topographic survey and geotechnical study to inform design decisions and ensure structural stability.
3. **Environmental Compliance:** Preparing and filing CEQA documents, addressing public comments, and ensuring compliance with environmental regulations.
4. **Design Services:** Development of detailed civil, mechanical, and process drawings, along with a project manual that includes technical specifications and bid documents.
5. **Construction Assistance:** Support during the bidding process, response to RFIs, review of shop drawings, and provision of record drawings post-construction.

Project Schedule

The project is scheduled over two fiscal years (2024-25 and 2025-26) with key milestones as follows:

- Preliminary Design Completion: September 2024
- Final Design and Construction Documents: January 2025
- Construction Phase: April to October 2025
- Project Completion: November 2025

Page 13 of our proposal provides a more detailed project schedule proposed by Black Water.

The Sawmill Tank Replacement Project represents a vital investment in the sustainability and reliability of the Ebbetts Pass Water System. By addressing the deficiencies of the current tank and incorporating modern design standards, feedback from District operations staff, and site visits, the project aims to ensure a safe, reliable, and high-quality water supply for the community it serves. Black Water looks forward to playing a crucial role in delivering this project through meticulous planning, robust design, and effective project management.

Understanding and Approach

Black Water's approach to the Sawmill Tank Replacement Project will ensure a seamless transition from the old tank to the new tanks while maintaining continuous water service and addressing all project requirements and challenges. The proposed schedule outlined in the RFP is aggressive and Black Water has considered this for our proposal's development. The following detailed approach outlines the implementation of tasks described in the scope of services, incorporating recommended revisions and recognizing all project aspects.

1. Project Management

Objective: Ensure continuous control of staffing, resources, schedule, budget, and effective communication throughout the duration of the project.

- **Project Team Establishment:** Assemble a dedicated project team led by an experienced project manager responsible for staffing, budgeting, scheduling, and scope management.
- **Communication Plan:** Establish open and regular communication channels with District staff, subconsultants, and stakeholders through scheduled meetings, email updates, and progress reports.
- **Periodic Meetings:** Conduct regular project meetings, both online and in-person, to review deliverables, address issues, and make key decisions. Utilize platforms like Microsoft Teams for online meetings.
- **Decision Log:** Maintain a detailed decision log documenting all key decisions, ensuring traceability and accountability.

2. Survey (Topographic and Grant of Easement)

Objective: Conduct a comprehensive topographic survey to inform the design and ensure accurate easement documentation.

- **Survey Execution:** Engage a licensed land surveyor to perform a detailed topographic survey, including mapping existing structures, utilities, and relevant features. Ensure conformance to NAD83 and NAVD88 standards.
- **Easement Description:** Prepare an accurate easement description and necessary documents for execution of a Grant of Easement to Sierra Pacific Industries, ensuring clear legal boundaries and permissions.

3. Geotechnical Investigation

Objective: Assess soil and site conditions to inform foundation design and ensure structural stability.

- **Geotechnical Study:** Collaborate with a licensed geotechnical engineer to conduct a thorough geotechnical investigation, including soil testing and analysis.
- **Recommendations:** Provide recommendations for site excavation, slope design, tank foundation design, compaction requirements, and passive soil loads. Ensure compliance with relevant regulations and standards.

4. Environmental/CEQA Documents

Objective: Ensure compliance with CEQA requirements and address environmental impacts.

- **Initial Technical Studies:** Engage a qualified environmental firm to perform necessary technical studies and prepare the CEQA document.
- **Public Comments:** Address public comments and revise the CEQA document as needed. Utilize previous CEQA documentation from the Reach 3 project as a reference.
- **Submission:** File the CEQA document with the State Clearinghouse Office of Planning and Research via CEQAnet.

5. Stormwater Pollution Prevention Plan (SWPPP)

Objective: Develop a project-specific SWPPP to manage stormwater and prevent pollution during construction.

- SWPPP Development: Engage a Qualified SWPPP Developer (QSD) to create a comprehensive SWPPP, incorporating Best Management Practices (BMPs).
- SMARTS Upload: Ensure the SWPPP is electronically uploaded to the State's Storm Water Monitoring and Report Tracking System (SMARTS) and distribute printed copies to the Contractor and District staff.

6. Preliminary Design Report

Objective: Provide a detailed preliminary design report outlining objectives, constraints, recommendations, and project design elements.

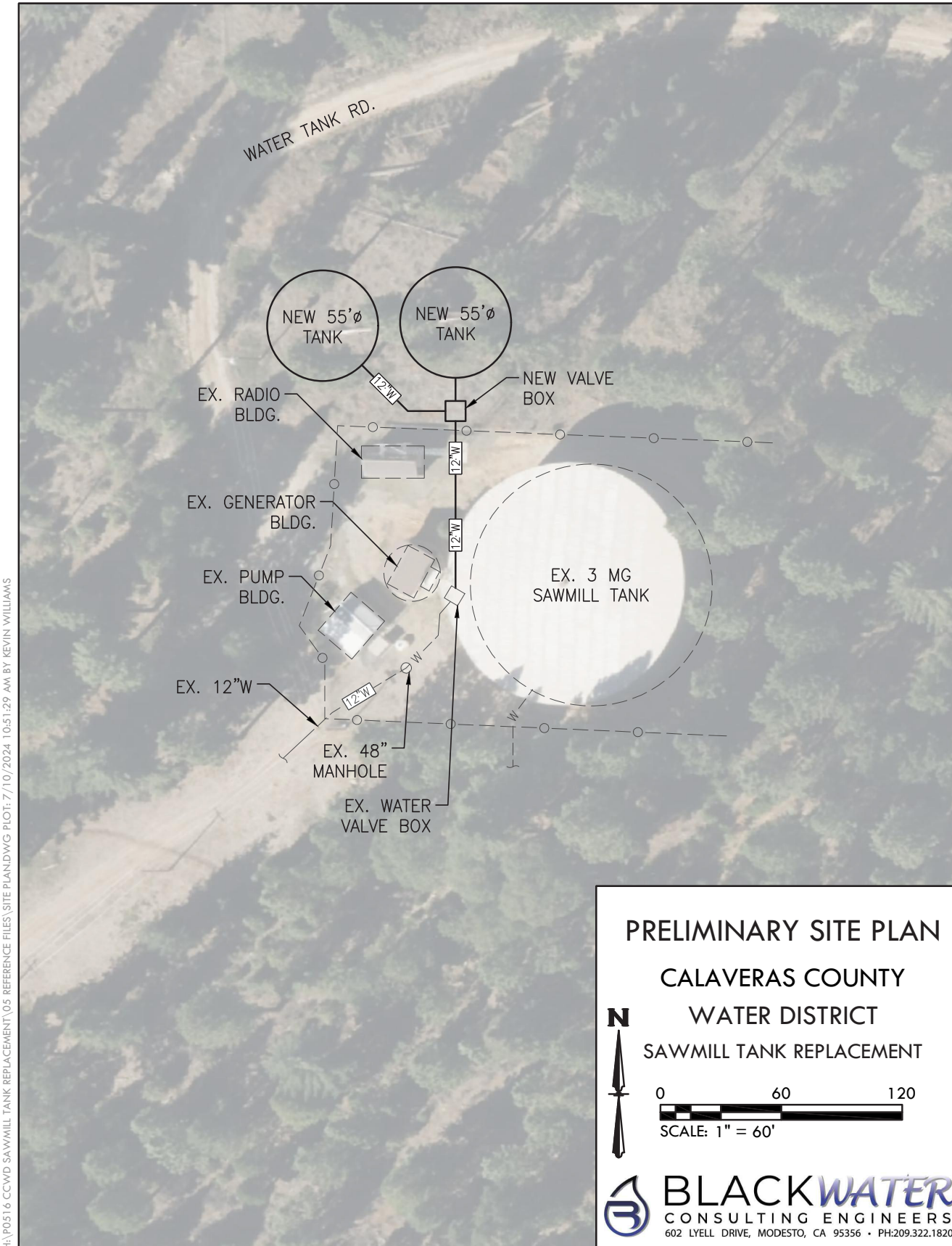
- Tank Location and Design: Recommend optimal locations and designs for the new tanks, considering site conditions and operational requirements.
- Cost Estimation: Provide an estimated construction cost and suggest methods for cost reduction and alternative improvement solutions.
- Construction Phasing: Propose construction phasing plans to maintain the operation of the existing tank and pump station during the project.
- Hydraulic Calculations: Perform preliminary hydraulic calculations to support design decisions.
- Concept Drawings: Include preliminary design concept drawings to visualize the proposed improvements.

7. Project Design

Objective: Develop detailed design documents to guide construction.

- Civil, Mechanical, and Process Drawings: Prepare comprehensive drawings, including standard details, project notes, and symbols.
- Project Manual: Create a project manual incorporating front-end documents, technical specifications, and appendices, following the Engineers Joint Contract Documents Committee Standards (EJCDC®).

Deliverables: Black Water will submit drawings at 50, 90, and 100 percent and bid-ready drawings for incorporation into the project manual. Project manual submittals include 90, 100, and bid-ready documents.



H:\P0516 CCWD SAWMILL TANK REPLACEMENT\05 REFERENCE FILES\SITE PLANDWG PLOT: 7/10/2024 10:51:29 AM BY KEVIN WILLIAMS

Preliminary Design Considerations for the Sawmill Tank Replacement Project

The preliminary design considerations for the Sawmill Tank Replacement Project emphasize constructing two identical 500,000-gallon tanks that are AWWA D103 bolted steel, glass-lined, and coated. The design focuses on optimizing the height-to-diameter ratio to minimize earthwork and retainage, thus reducing overall construction costs and material usage. By optimizing this ratio, the project aims to make efficient use of steel and ensure the cost-effectiveness of the clear span aluminum covers required for each tank. Additionally, the tanks' height will be minimized to enhance seismic performance and improve safety, addressing the area's earthquake risks, and ensuring structural stability.

Model Diameter	Sheets	Exact Diameter (feet)	Capacity Per Foot (gallons)	Max Water Depth (ft)		Freeboard									
				AWWA Design		GF=1		Cont=U		U					
				A	B	1	2	3	4	5	6	7	8	9	10
11	4	11.19	735	65.1	65.1	4	7	10	14	17	20	24	27	30	34
Height						5.51	10.09	14.68	19.26	23.84	28.43	33.01	37.59	42.17	46.76
14	5	13.98	1,149	138.4	138.4	6	11	16	22	27	32	37	43	48	53
Height						5.51	10.09	14.68	19.26	23.84	28.43	33.01	37.59	42.17	46.76
17	6	16.78	1,655	138.4	138.4	9	16	24	31	39	47	54	62	69	77
Height						5.51	10.09	14.68	19.26	23.84	28.43	33.01	37.59	42.17	46.76
20	7	19.58	2,252	138.4	138.4	12	22	33	43	53	64	74	84	94	105
Height						5.51	10.09	14.68	19.26	23.84	28.43	33.01	37.59	42.17	46.76
22	8	22.37	2,942	138.4	138.4	16	29	43	56	70	83	97	110	124	137
Height						5.51	10.09	14.68	19.26	23.84	28.43	33.01	37.59	42.17	46.76
25	9	25.17	3,724	123.2	138.4	20	37	54	71	88	105	122	139	157	174
Height						5.51	10.09	14.68	19.26	23.84	28.43	33.01	37.59	42.17	46.76
28	10	27.97	4,597	110.9	138.4	25	46	67	88	109	130	151	172	193	214
Height						5.51	10.09	14.68	19.26	23.84	28.43	33.01	37.59	42.17	46.76
31	11	30.77	5,563	100.8	134.6	30	56	81	107	132	158	183	209	234	260
Height						5.51	10.09	14.68	19.26	23.84	28.43	33.01	37.59	42.17	46.76
34	12	33.56	6,620	92.4	123.2	36	66	97	127	157	188	218	248	279	309
Height						5.51	10.09	14.68	19.26	23.84	28.43	33.01	37.59	42.17	46.76
36	13	36.36	7,770	85.3	113.9	42	78	114	149	185	220	256	292	327	363
Height						5.51	10.09	14.68	19.26	23.84	28.43	33.01	37.59	42.17	46.76
39	14	39.16	9,011	79.2	105.7	49	90	132	173	214	256	297	338	380	421
Height						5.51	10.09	14.68	19.26	23.84	28.43	33.01	37.59	42.17	46.76
42	15	41.96	10,345	73.9	98.7	57	104	151	199	246	294	341	388	436	483
Height						5.51	10.09	14.68	19.26	23.84	28.43	33.01	37.59	42.17	46.76
45	16	44.75	11,770	69.3	92.5	64	118	172	226	280	334	388	442	496	550
Height						5.51	10.09	14.68	19.26	23.84	28.43	33.01	37.59	42.17	46.76
48	17	47.55	13,287	65.2	87.1	73	134	195	255	316	377	438	499	560	621
Height						5.51	10.09	14.68	19.26	23.84	28.43	33.01	37.59	42.17	46.76
50	18	50.35	14,896	61.6	82.2	82	150	218	286	355	423	491	559	628	696
Height						5.51	10.09	14.68	19.26	23.84	28.43	33.01	37.59	42.17	46.76
53	19	53.15	16,598	58.3	77.9	91	167	243	319	395	471	547	623	700	776
Height						5.51	10.09	14.68	19.26	23.84	28.43	33.01	37.59	42.17	46.76
56	20	55.95	18,391	55.4	74.0	101	185	269	354	438	522	607	691	775	859
Height						5.51	10.09	14.68	19.26	23.84	28.43	33.01	37.59	42.17	46.76
59	21	58.74	20,276	52.8	70.5	111	204	297	390	483	576	669	762	855	948
Height						5.51	10.09	14.68	19.26	23.84	28.43	33.01	37.59	42.17	46.76
62	22	61.54	22,253	50.4	67.3	122	224	326	428	530	632	734	836	938	1040
Height						5.51	10.09	14.68	19.26	23.84	28.43	33.01	37.59	42.17	46.76

Further considerations include maintaining water quality and operational efficiency.

- The tanks will feature internal mixing systems to mitigate the water age issues present in the existing tank. Separate inlet and outlet lines will be included to enhance water flow and quality.
- Concrete floors with embedded walls will ensure robust structural support.
- Manual valving between the tanks will provide operational flexibility.
- The design will also accommodate operational and safety requirements, including the use of pressure gauges that convert to water elevations to address District-observed site gauge failures, and spiral staircases for safe access during winter conditions.

Environmental compliance will be managed through the preparation and filing of the CEQA document, leveraging previous documentation from the Reach 3 project to streamline the process. This comprehensive approach ensures the new tanks will provide a reliable, high-quality water supply while adhering to all regulatory and environmental standards.

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8. Construction Assistance

Objective: Provide support during the construction phase to ensure successful project completion.

- **Bid Services:** Assist in the preparation of addenda and responses to RFIs during the bidding process. Attend pre-bid job walks.
- **Shop Drawings and RFIs:** Review project shop drawings, respond to construction RFIs, and provide assistance with potential change orders.
- **Record Drawings:** Furnish record drawings in AutoCAD format based on marked-up drawings from the contractor and District inspector.

9. Basis of Compensation

Objective: Ensure transparent and fair compensation for services rendered.

- **Professional Services Agreement (PSA):** Review and agree to the terms of the PSA, including adjustments in hourly rates and incidental costs.

Design Clarifications and Revisions to the Scope of Services

Based on the site visit notes and further analysis, the following clarifications and revisions are noted:

1. **Separate Inlet/Outlet Lines:** Incorporate separate inlet and outlet lines for the new tanks to improve water flow and quality.
2. **Concrete Floors:** Ensure the design specifies concrete floors with embedded walls for enhanced durability.
3. **Manual Valving:** Include manual valving between the new tanks to facilitate operational flexibility.
4. **Paving Around Tanks:** Plan for paving around the tanks to facilitate snow plowing and maintenance.
5. **Pressure Gauges:** Use pressure gauges that convert to water elevations to address the issue of failing site gauges.
6. **Spiral Staircases:** Design spiral staircases for the new tanks to accommodate snow and ice conditions.

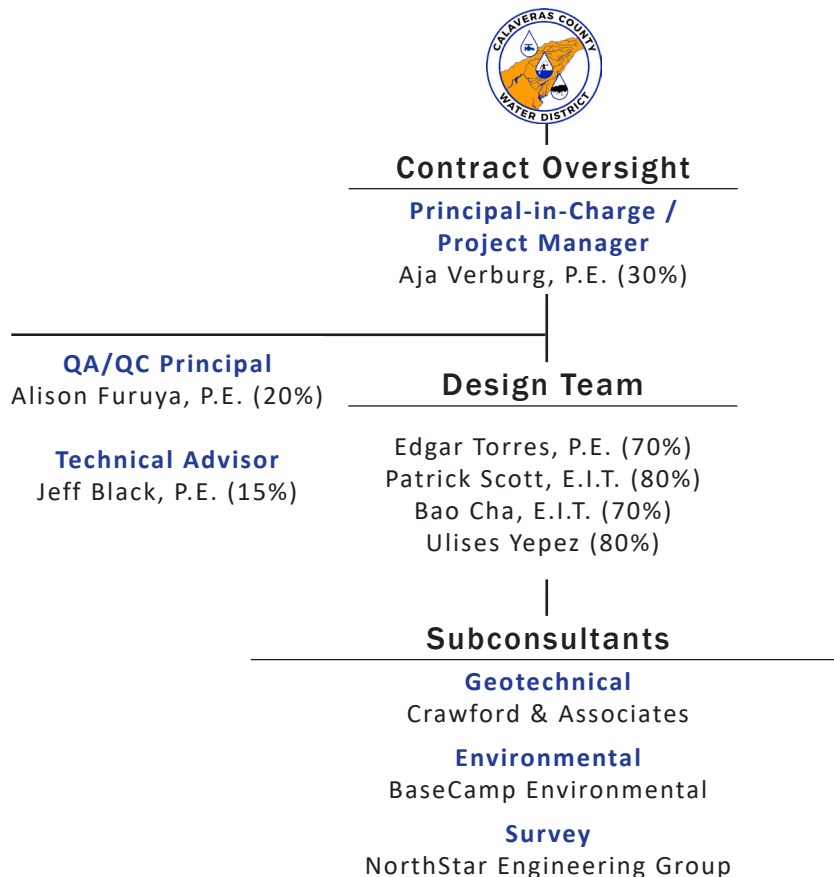
Conclusion

This proposed approach ensures a thorough and methodical execution of the Sawmill Tank Replacement Project, addressing all aspects of the project from initial surveys and environmental compliance to detailed design and construction assistance. By incorporating the latest site visit insights and adhering to industry standards, Black Water aims to deliver a high-quality, reliable water storage solution for the Calaveras County Water District and its customers.

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Team Organization

The organization chart shows the key professional staff at Black Water and their percentage of time dedicated and guaranteed to the CCWD Sawmill Tank Replacement Project. Our team of experienced professionals endeavor to stay current in all aspects of water and wastewater projects, from planning through construction. Black Water staff meets weekly to review and schedule our workload so that we can be most responsive to our client’s needs. We are appropriately staffed to take on projects of these type and size. Black Water's dedicated assigned key professional staff are located out of the Modesto, CA office.



Our organization and structure lends itself to teaming with other experts in complimentary fields. In addition to our in-house professionals, we have also included strategic partners that expand our services in the field of geotechnical engineering, and environmental and surveying services. Black Water values our long standing relationships with these partners and believes that our history of working together brings added value and efficiency to our projects and clients. Resumes for the key members of our team are included at the end of this proposal.

About our Subconsultants

Crawford & Associates, Inc. (Crawford), established in 2012, is a registered small business geotechnical engineering firm (Certification ID: 1744908) that specializes in large-scale public works projects. Crawford has provided geotechnical engineering services on hundreds of water and wastewater projects including reservoirs, tanks, pipelines, water mains, roadways, storm drain, recycled water, sanitary sewer lift stations, water well pump stations, drainage basins, buildings, and water/wastewater treatment facilities. Their staff has experience working with various state and federal agencies including Cities, Counties, Water Boards, USACE, DF&G, RWQCB, DSOD, NMFS, NOAA Fisheries, and US Fish & Wildlife Services.

BaseCamp Environmental (BaseCamp) is a small Central Valley consulting firm that specializes in environmental planning and completing environmental impact assessments under CEQA and NEPA. BaseCamp is dedicated to high-quality product, processing and client communication and is informed by a wealth of diverse project experience in dynamic and challenging circumstances throughout northern California.

BaseCamp's Principal Charlie Simpson and staff have completed hundreds of EIRs, EISs, and a range of other environmental products for flood protection and other water projects; major land development and transportation projects; residential, commercial, industrial developments; mining, recreation/resort, energy projects; street, widening and bridge replacement; and communication systems.

NorthStar Engineering Group (NorthStar) was founded in 2002 and employs a staff of 51 full time professionals under the direction of five working principals. NorthStar is a California corporation and a California Registered Small Business, which performs all services out of one office located in downtown Modesto. NorthStar is a full services local firm which provides civil engineering, land planning, and land surveying. NorthStar has been providing professional land surveying services since its inception. Their team members include California registered land surveyors and technicians who are experienced at performing boundary, topographic, and construction surveys. They specialize in identifying and resolving issues before they turn into problems that can cause project delays. NorthStar's surveying services include, but are not limited to, right-of-way surveys, topographic surveys and mapping, construction staking, boundary surveys, legal descriptions and plats, final maps, parcel maps, ALTA surveys, technical support, cross-training of agency staff, record of surveys, monumentation, and aerial control surveys.

Project Schedule

Task	Task Activity	Duration	Months																	
			2024	2025	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	Project Management																			
	Kick-Off Meeting	1 d		◆																
	Agency Coordination	9 w		■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
	Progress Reports, Decision Log, and Schedule Updates	Project Duration		■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
	Budget and Invoicing	Project Duration		■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
2	Background Research and Field Investigations																			
	Information Collection and Review	4 w		■	■	■	■													
	Site Visit	3 d		◆	◆			◆												
	Utility Research and Coordination	8 w		■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
	Topographic Survey	4 w		■	■	■	■													
	Geotechnical Investigation and Report	8 w		■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
3	CEQA and SWPPP																			
	Prepare IS/MND	9 w				■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
	Prepare Stormwater Runoff Control Plan	4 w					■	■	■	■										
4	Project Design Report																			
	Draft Report	3 w		■	■	■														
	Final Report	3 w		■	■	■														
5	Project Design																			
	50% Plans and Cost Estimate	7 w		■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
	90% Plans, Specifications, and Cost Estimate	9 w		■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
	100% Plans, Specifications, and Cost Estimate	5 w						■	■	■	■	■	■	■	■	■	■	■	■	■
	Final Plans, Specifications, and Cost Estimate for Construction (Bid-Ready Set)	2 w							■	■	■	■	■	■	■	■	■	■	■	■
6	Construction Assistance																			
	Pre-Bid Job Walk and site meetings	6 w								■	■	■	■	■	■	■	■	■	■	■
	Prepare Addendums	4 w									■	■	■	■	■	■	■	■	■	■
	Engineering Services During Construction (RFIs, Change Orders, Submittal Reviews)	38 w									■	■	■	■	■	■	■	■	■	■
	Record Drawings	4 w																	■	■

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Representative Project Experience

About Black Water Consulting Engineers

Black Water Consulting Engineers (Black Water) is a Central California firm, with offices in Modesto and Fresno, that provides professional engineering services in water, wastewater, drainage, and construction management. The company was formed in 2012 and is comprised of talented professionals who endeavor to maintain an outstanding reputation for delivering responsive service, technical expertise, and value to our clients.

Our firm is staffed with experts in the fields of planning and design of water supply, treatment, and distribution systems; wastewater collection, conveyance, and treatment works; storm water analysis and drainage facilities and construction management. We continually participate in the evaluation, design, and review of water and wastewater infrastructure projects and technologies in order to maintain a sound knowledge base of current design standards and construction methods. We have a solid track record in identifying and securing project financing, regulatory compliance, permitting, and reporting requirements for the water and wastewater industries. A list of our firm’s capabilities and services is provided in the table below.

Firm Capabilities

Water	Wastewater
<ul style="list-style-type: none">• Storage Tank Design• Pumping and Booster Station Design• Pipeline Design• Hydraulic Modeling of Distribution Systems• Demand Analysis• Well Design• Water Treatment Design• Water Master Planning• Technical Report Preparation• Water Rate Studies• Financing Evaluations• Regulatory Compliance• System Permitting• Urban Water Management Plans• Construction Management	<ul style="list-style-type: none">• Pump Station and Force Main Design• Pipeline Rehabilitation• Collection System Evaluation and Design• Collection System Modeling• Inverted Siphon Design• Sewer Master Planning and Asset Management• Sewer and Storm System Rate Studies• Wastewater Treatment and Process Design• Corrosion and Odor Control• Sanitary Sewer Management Plans• Regulatory Compliance and Permitting• Wastewater Recycling and Reuse• Financing Alternatives• Compliance Reporting• Trenchless Construction• Construction Management
Stormwater	
<ul style="list-style-type: none">• Pump Station Design• Hydrologic Modeling• Capital Project Planning• Condition Assessment• Detention and Retention Facilities	<ul style="list-style-type: none">• Storm Drainage Analysis and Master Planning• Open Channel and Culvert Design• NPDES Compliance• Rate Studies• Low Impact Development (LID)

Whether responding to existing challenges, evaluating opportunities to improve performance, or seeking to reduce future liabilities, our clients benefit from our unique blend of technical and scientific skills, strategic insight, and practical experience.

Similar Projects

Black Water provides a complete range of services in the field of water and wastewater engineering. Our team of engineers and technical staff possess a wealth of experience drawn from a variety of projects. With creativity and commitment, we draw upon that experience and combine it with understanding of the latest methods, standards, and technologies to develop innovative and sustainable solutions for our clients and the communities they serve. *It is our commitment to ensure that all work products are completed and delivered to the City on-time and within budget.* The following demonstrate our team's experience with similar projects.

River Bluff Reservoir and Pumping Facility, City of Ceres (Ceres, CA)

Reference: Samir Royal – Interim Public Works Director
E: samir.royal@ci.ceres.ca.us | P: 209.538.5732

Completion: 2018 - Ongoing
(Post-Construction)

Black Water provided design services including civil design modifications for an existing City well (Well 28), connections to the future surface water delivery and distribution systems, design of pumping facilities, and a new water storage tank. The new facility provides domestic water and fire flow to the City of Ceres. The current Ceres distribution system is dependent on groundwater as a sole source and supply. The reservoir and pumping facility will allow integration of treated surface water provided by the Stanislaus Regional Water Authority (SRWA) Water Treatment Plant (WTP). SRWA treated-surface water will supplement existing Ceres water supply systems. Black Water also provided construction support services including RFI and submittal reviews.



- » Design
- » Engineering Services During Construction (ESDC)

Mountain Creek School Water Tank Replacement - DWSRF, Pioneer Union School District (Somerset, CA)

Reference: Kelly Howard – Chief Business Officer
E: khoward@pioneerusd.org | P: 530.620.3556

Completion: 2015 - 2019

The existing 20,000-gallon Redwood Storage Tank was cited for a positive bacteriological test in the past and was at risk for future reoccurrence. The wooden tank leaked consistently due to the age of the structure. The reliability and safety of the existing tank did not comply with waterworks standards and had made it no longer practical to maintain. Black Water secured state funding and was retained for engineering services for the replacement of the Redwood Tank with a steel tank of the same size and in the same location. The tank site was retrofitted with a booster station, control panels, and a disinfection system.



- » Predesign
- » Design
- » ESDC

Reynolds Ranch Water Storage Tank Project, City of Lodi (Lodi, CA)

Reference: Lyman Chang - City Engineer/Deputy Public Works Director
E: lchang@lodi.gov | P: 209.333.6800 ext. 2665

Completion: 2017 - 2020



The project was comprised of installing a one million-gallon welded steel storage tank and booster pump station with four pumps of a rated capacity of 1,375 gpm each. These improvements, constructed adjacent to the City's existing Well 23 site, provide the water supply and pressure for domestic and fire protection demands for the Reynolds Ranch development. The new storage tank and pump station connects to the existing distribution system downstream of the existing well. The project also included on-site post-construction stormwater treatment, a new pump station building, hypochlorite treatment system, and site hardscape improvements.

- » Design
- » ESDC

Colony Oak School Water Well Improvements, Ripon Unified School District (Ripon, CA)

Reference: Dr. Ziggy Robeson - Superintendent
E: zrobeson@sjcoe.net | P: 209.599.2131

Completion: 2016 - 2018

Black Water prepared the plans and specifications for a replacement well site at the school to accommodate their campus expansion. Engineering services included design of the new production well, new variable speed well pump, well discharge piping, a hydropneumatic pressure tank, an 86,000 gallon bolted steel fire storage tank, and electrical service and controls. Black Water also provided engineering services during construction and secured a permit amendment from the regulatory agency for the new well source and system.



- » Design
- » ESDC

Natural Disaster Water Storage Mitigation Project, Mariposa County (Mariposa County, CA)

Reference: Matt Hesperheide - County Engineer
E: mhespenheide@mariposacounty.org | P: 209.966.5356

Completion: 2023 - Ongoing
(Design)

Black Water is preparing the construction documents including engineering plans and specifications for three 250,000-gallon potable water storage tanks located at Hornitos, Red Cloud Park, and Woodland Park in Mariposa County. Each site will include well improvements, emergency generators, automatic electrical transfer switch gear and associated booster pumping equipment to support a fire hydrant. Bidding support and engineering services during construction will also be provided.



- » Design
- » ESDC

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Staff Labor and Fee Estimate



CALAVERAS COUNTY WATER DISTRICT
SAWMILL TANK REPLACEMENT PROJECT
level of effort - staff time
Fee Schedule

Billing Rates \$/hr		288	262	228	184	155	113	Subconsultants				Totals			
TASK	Task Activity	Principal	Project Manager	Associate Engineer	Assistant Engineer	Design / Drafting	QA/QC/ Admin.	Black Water Total Hours	Black Water Fee	NorthStar (Survey)	Crawford (Geotech)	Base Camp (CEQA)	SWPPP	Subconsultants Total Fees	Total Fee ³
1	Project Management														
	Kick-Off Meeting	4	4	4	4			16	\$3,848					\$0	\$3,848
	Agency Coordination	2	8	8	24		8	50	\$9,816					\$0	\$9,816
	Progress Reports, Decision Log, and Schedule Updates	4	20	20	6		12	62	\$13,412					\$0	\$13,412
	Budget and Invoicing	4	30				30	64	\$12,402					\$0	\$12,402
	Total Task 1	14	62	32	34	0	50	192	\$39,478	\$0	\$0	\$0	\$0	\$0	\$39,478
2	Background Research and Field Investigations														
	Information Collection and Review	2	8	8	24			42	\$8,912					\$0	\$8,912
	Site Visit (Assume 3)	4	10	15	15			44	\$9,952					\$0	\$9,952
	Utility Research and Coordination		2	4	4	4		14	\$2,792					\$0	\$2,792
	Topographic Survey		2	4		6		12	\$2,366	\$12,540				\$12,540	\$16,160
	Geotechnical Investigation and Report	1	2	4	2			9	\$2,092		\$30,597			\$30,597	\$35,749
	Total Task 2	7	24	35	45	10	0	121	\$26,114	\$12,540	\$30,597	\$0	\$0	\$43,137	\$73,565
3	CEQA and SWPPP														
	Prepare and File Notice of Exemption (NOE) - See Note 2		2	2	4		2	10	\$1,942			\$6,500		\$6,500	\$9,092
	Prepare Stormwater Runoff Control Plan		1	2	2	2	1	8	\$1,509				\$15,400	\$15,400	\$18,449
	Total Task 3	0	3	4	6	2	3	18	\$3,451	\$0	\$0	\$6,500	\$15,400	\$21,900	\$27,541
4	Preliminary Design Report														
	Draft Report	4	16	24	40	80	8	172	\$31,480					\$0	\$31,480
	Final Report	2	8	12	24	16	2	64	\$12,530					\$0	\$12,530
	Total Task 4	6	24	36	64	96	10	236	\$44,010	\$0	\$0	\$0	\$0	\$0	\$44,010
5	Project Design														
	50% Plans and Cost Estimate	2	12	24	60	32	8	138	\$26,096					\$0	\$26,096
	90% Plans, Specifications, and Cost Estimate	4	16	48	80	160	24	332	\$58,520					\$0	\$58,520
	100% Plans, Specifications, and Cost Estimate	2	8	16	16	40	4	86	\$15,916					\$0	\$15,916
	Final Plans, Specifications, and Cost Estimate for Construction (Bid-Ready Set)	2	8	12	12	12	12	58	\$10,832					\$0	\$10,832
	Total Task 5	10	44	100	168	244	48	614	\$111,364	\$0	\$0	\$0	\$0	\$0	\$111,364
	SUB-TOTAL	37	157	207	317	352	111	1181	\$224,417	\$12,540	\$30,597	\$6,500	\$15,400	\$65,037	\$295,958
6	Construction Assistance														
	Pre-Bid Job Walk and Site Meetings (Assume 4)	6	9	9	9			33	\$7,794					\$0	\$7,794
	Project Management and Administration (9 Months per RFP)	18	40		9		18	85	\$19,354					\$0	\$19,354
	Prepare Addendums (Assume 4)	2	8	12	24	24	4	74	\$13,996					\$0	\$13,996
	RFI's / Change Orders (Assume 10)	2	8	40	20			70	\$15,472					\$0	\$15,472
	Submittal Reviews (Assume 50)	4	16	32	48			100	\$21,472					\$0	\$21,472
	Record Drawings		8		8	32		48	\$8,528					\$0	\$8,528
	Total Task 6	32	89	93	118	56	22	410	\$86,616	\$0	\$0	\$0	\$0	\$0	\$86,616
	TOTALS	69	246	300	435	408	133	1,591	311,033	\$12,540	\$30,597	\$6,500	\$15,400	\$65,037	\$382,574
															TOTAL FEE \$382,574

Notes:

1. All scope items and associated fees are based on the best approximation we can make given the current level of information we have.
2. If the project requires preparation of an Initial Study and Mitigated Negative Declaration, add \$25,000.
3. Subconsultant work is charged at cost plus 10 percent.

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Resumes

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education

B.S., Civil Engineering, California Polytechnic State University, San Luis Obispo

years with Black Water

10

years with others

11

registrations

*Professional Engineer:
Arizona #72561
California #73020
Nevada #028296*

affiliations

*Modesto Engineers Club,
Past President*

Aja Verburg has 21 years of experience in public infrastructure and water/wastewater project management and design. Ms. Verburg has a strong understanding of delivering projects from a public agency’s perspective. She is experienced with all aspects of project management, which includes application for funding, public outreach, preliminary engineering, environmental approval, right-of-way acquisition, utility coordination, permitting, project approval and design, and project advertisement, for federal, state, and locally-funded projects. This broad range of experience is a benefit to clients, as her approach for each project is to act as an extension of the agency staff and deliver the most cost efficient and innovative design, on schedule, from the planning stage through construction, to serve the client and public. Throughout her career she has served as a project manager and engineering designer for various public and private water and wastewater projects. Ms. Verburg also has extensive experience using Geographical Information System (GIS) software and Innowyze InfoWater and InfoSewer hydraulic network modeling software.

Project Experience

Water Engineering

Colony Oak School Water Well Improvements, Ripon Unified School District - Ripon, CA. Project Manager. Provided engineering services for the replacement and construction of a new water well, storage tank, and pumping facilities at the Colony Oak School.

Mountain Creek School Water Tank Replacement - DWSRF, Pioneer Union School District - Somerset, CA. Project Engineer. Provided SRF application assistance and engineering services for the replacement of the Redwood Tank with a steel tank of the same size and in the same location. The tank site will be retrofitted with a booster station, control panels, and a disinfection system.

Node 1 Water Treatment Facility - Santa Lucia, CA. Project Engineer. Design and construction of Pureflow Water Treatment Facility to treat well water at the existing Node 1 site. Design included the installation of a backwash supply horizontal split-case pump to supply water from the

existing tank to the proposed filters, installation of equalization storage to accommodate backwash from filters, installation of submersible pump in equalization storage tank to discharge backwash to existing ponds via a connection to existing gravity drain line.

Northwest Reservoir and Pump Station Upgrades, City of Stockton - Westlake, CA. Project Engineer. Design of 3.34-mg storage tank at the existing water storage tank site, upgrade of existing pump station, and installation of new back-up generator.

Water System Improvements - DWSRF, Sierra Park Water Company - Tuolumne County, CA. Project Manager. Provided funding application services and detailed design services for improvements to the Sierra Park Water System. Improvements include construction of a water treatment plant, SCADA upgrades, replacement of existing groundwater well pump and well head discharge piping, installation of tank level monitoring and associated ancillary improvements for the purposes of treating groundwater to comply with water quality standards. Currently providing bidding assistance for the construction of the project.

Santa Nella/Volta Water Quality Improvement Project - DWSRF, Santa Nella County Water District - Merced County, CA. Principal-in-Charge / Project Manager. The project involves improvements to the water supply facilities of SNCWD and Volta Community Services District and consolidation of the two systems. Improvements include a new well, trunk lines delivering water to the distribution systems, water storage, blending, and pumping facilities, and distribution improvements to the VCSD system. Coordinated efforts with client and subconsultants, and reviewed permit and application submittal.

Potrero Water Treatment Preliminary Design, Santa Lucia Preserve Community Services District - Carmel, CA. Project Manager. The CSD manages a public water system that will ultimately serve 300 homes and various commercial users including a golf clubhouse, restaurants, equestrian center, and community support structures. Black Water is preparing the preliminary design of the proposed improvements to the existing infrastructure which will improve water supply to a pressure zone serving approximately 33 homes by adding two new water supply wells, treatment equipment for the removal of iron and manganese, and booster pumps to supply treated water to the distribution system.

Regional Surface Water Supply Project, Stanislaus Regional Water Authority - Stanislaus County, CA. Project Manager. This project will provide a new surface water supply to the cities of Turlock and Ceres, CA and consists of the design and construction of a new regional water treatment plant, raw water pump station, raw water transmission main, finished water transmission mains, replacement bridge, and all appurtenant and related facilities. Black Water is a subconsultant to Jacobs and is responsible for the preliminary and final design documents for the Ceres Finished Water Transmission Main and the appurtenances from the water treatment plant to the Ceres terminal tank facility.

Well 1A Improvements - DWSRF, City of Escalon - CA. Project Manager. Funding assistance and the design for the new Well 1A, site improvements to connect the new well to the existing site infrastructure, and demolition of on-site inactive granular activated carbon treatment filters and existing well.

Surface Water Treatment Plant Improvements, Santa Nella County Water District - Santa Nella, CA. Principal-in-Charge/Project Manager. Evaluating the existing surface water treatment plant to identify system deficiencies and recommend improvements for the SWTP to meet state and federal requirements. The project will upgrade antiquated equipment and add needed infrastructure at the existing SWTP to provide the District with a dependable and efficient means of treatment to provide surface water to the community in drought conditions.

Water Supply for the Parkway and Parkway South Developments, Santa Nella County Water District - Santa Nella, CA. Project Manager. Evaluated options for water system improvements to provide reliable supply and service within SNCWD, and in particular, the Parkway and Parkway South developments.

Curtis Creek Elementary School Water System Consolidation Project - DWSRF, Curtis Creek Elementary School District - Sonora, CA. Project Manager. Secured planning funding through the SWRCB DWSRF program for the consolidation of Curtis Creek Elementary School's water system with the Tuolumne Utilities District (TUD) water system to address system deficiencies that include inadequate source and storage capacity and no emergency fire protection. Completed engineering report and preliminary design for approximately 6,000 feet of distribution water main. Completed and submitted construction package for SWRCB DWSRF program funding for the project.

Well #14, City of Patterson - CA. Project Manager. The project includes well and infrastructure design, including the installation of a new well and pump station, pressure tank, metering, chemical system, well head piping, building construction for controls, storage, and equipment, site access/driveway, landscaping with irrigation, site drainage and well system drain to waste, site perimeter walls, associated piping, and electrical service and controls.

Hydraulic Network Analyses - Diablo Grande, CA. Design Engineer. Hydraulic network analyses of the water distribution system that includes three pressure zones, two storage tanks, and water booster pumping stations.

**education**

M.S., Civil and Environmental Engineering, University of California, Berkeley

B.S., Environmental Engineering Science, Massachusetts Institute of Technology

years with Black Water

11

years with others

17

registrations

*Professional Engineer:
California #58943*

trainings

National Association of Sewer Service Companies Pipeline Assessment Certification Program/Lateral Assessment Certification Program, and Manhole Assessment Certification Program

affiliations

California Water Environment Association (CWEA)

Alison Furuya has 28 years of experience, specializing in water and wastewater. Ms. Furuya has been involved in projects from the planning stage through to construction, and operation and maintenance. Her range of projects and experience is a benefit to clients by providing perspective in how to plan and design better projects. Ms. Furuya has served as the project engineer or project manager for studies, master plans, and designs of pump stations, pipelines, and treatment plant improvements.

Project Experience**Water Engineering**

Water Infrastructure Improvements Preliminary Design Report and Phasing Plan - Fresno County, CA. Project Engineer. Prepared a preliminary design report for the design of water infrastructure improvements including a potable water storage tank, booster pumping station, and piping improvements to serve proposed facilities at a rancheria. Report included the development of design criteria, preliminary site and building layouts, HMI/SCADA information, a design and construction schedule, and phasing plan to ensure uninterrupted water service during construction and commissioning of improvements.

Water System Condition Assessment, Sierra Park Water Company - Tuolumne County, CA. QA/QC. This project involved a water system condition assessment that identified any existing supply, storage, and distribution system deficiencies and compliance issues. Responsible for reviewing the draft report.

Water Filtration Plant and Distribution Infrastructure Project, City of Coalinga - CA. QA/QC. Evaluated and prioritized capital repair projects for the 12-MGD water filtration plant. Improvements included rehabilitation of flocculation and sedimentation basins 1 and 2; improvements to filters 1, 2, and 4; rehabilitation of the sludge drying beds and plant return water piping; and improvements to the wash-water system.

Water Treatment for Manganese, Housing Authority of the County of San Joaquin - Thornton, CA. Project Manager. Completed a feasibility study evaluating alternatives for reducing manganese from the water supply to two housing developments.

Farming D Water Treatment Plant Improvements Feasibility Study, Plow & Till company - Five Points, CA. Project Manager. Prepared a feasibility report identifying improvements and costs to enhance the reliability and compliance of the water treatment plant facilities supporting the Farming D operation.

Water Treatment Plant Improvements - DWSRF, City of Angels - Angels Camp, CA. Project Engineer. Providing engineering services for improvements to the filtration, disinfection, backwash, and other processes at the WTP.

CDBG Water Main Replacement Project, Tuolumne Utilities District - Tuolumne City, CA. QA/QC. The project consists of the design of approximately 2,500 linear feet of 8-inch and 3,200 linear feet of 10-inch water main including fire hydrants, water services, and appurtenances. Provided quality control review on the preliminary design plans.

Enviroplex Water System Improvements, Enviroplex, Inc. - San Joaquin County, CA. Project Manager. Provided analyses, design, and permitting of the water treatment system to remove/reduce arsenic at the Enviroplex facility.

Century Mobile Home Park Consolidation with the City of Stockton - DWSRF, Century Mobile Home Park - Stockton, CA. Project Engineer. Construction of a new water pipe, including installation of fire hydrants, valves, asphalt and concrete replacement, and connection of the existing water distribution system.

Industrial Discharge Water Balance Study - Modesto, CA. Project Engineer. Prepared a water balance study for an industrial facility to address local agency requirements and develop an appropriate capacity allocation level for the facility.

Wykoff Booster Pump Station Expansion Preliminary Design Report - Vacaville, CA. Project Engineer for the preparation of a preliminary design report for a 150 horsepower booster pump station located in a residential neighborhood. The report included an evaluation of six site layout alternatives to ensure that impacts to neighbors were minimized and staff operation and maintenance requirements were met.

Wykoff Booster Pump Station Expansion Design - Vacaville, CA. Project Engineer. Assisted in the design of a potable water booster pump station to meet fire flow requirements. Design included a building with residential features to minimize neighborhood impacts, re-routing of residential utilities, and extensive site grading.

Turner Academy Water Treatment Upgrades, Lodi Unified School District - Lodi, CA. Project Engineer. Prepared a revised flow schematic for the Turner Academy Water Treatment Plant.

Cuesta Heights On-site and Off-Site Booster Pump Station Preliminary Design - Tuolumne County, CA. Project Engineer for the design of on-site and off-site booster pump stations to serve a proposed development. Work included coordination with the Tuolumne Utilities District, developer, and PG&E (for electrical service).

Water Treatment Plant Preliminary Design Report - Fresno County, CA. Project Engineer. Prepared a preliminary design report to establish the basis for a water treatment plant to satisfy projected water demands and increase water supply reliability for a rancheria. The report included a review of regulatory requirements, historical water quality data, development of design criteria, researching applicable technologies, development of a site plan and hydraulic profile, description of treatment plant components, a project implementation schedule, and discussion of potential construction sequencing issues.

2020 Urban Water Management Plan, City of Ceres - CA. Project Engineer. The Ceres water service area encompasses about 9.4 square miles and serves a population of about 48,430 people through 13 active wells. Black Water updated their urban water management plan since its last preparation in 2015 to update the understanding of past, current, and future water conditions and management.

2020 Urban Water Management Plan, City of Merced - CA. Project Engineer. Black Water updated the urban water management plan since its last preparation in 2015 to update the understanding of past, current, and future water conditions and management.

SB610 Report, Mossdale Landing South - Lathrop, CA. Project Engineer. Prepared a Water Supply Assessment Report for a proposed residential development in the City of Lathrop.

Peer Review for Municipal Well No. 8 and Appurtenances - Livingston, CA. Project Engineer. Reviewed plans, specifications, and cost estimate for addition of a nitrate removal system which was added to a municipal well.


education

M.S., Civil Engineering, University of Utah

B.S., Civil/Environmental Engineering, Utah State University

years with Black Water

11

years with others

21

registrations

*Professional Engineer:
 California #66645
 Montana #72039
 Texas #136672*

affiliations

*Water Environment Federation (WEF)
 California Water Environment Association (CWEA)
 American Society of Civil Engineers (ASCE)*

Jeff Black has over 30 years of experience in public water and wastewater systems. Mr. Black's thorough understanding of the construction and operation of hydraulic systems is a valuable benefit to his clients and the operators of these facilities. Throughout his career, he has actively participated in planning, design, permitting, and construction oversight of various public and private water, wastewater, and water resources projects, pipe lines, pump stations, and treatment works. He is proficient in all aspects of project management, design, water and wastewater engineering, and system modeling.

Project Experience
Water Engineering

Mountain Creek School Water Tank Replacement - DWSRF, Pioneer Union School District - Somerset, CA. Project Manager. Provided engineering services for the replacement of the Redwood Tank with a steel tank of the same size and in the same location. The tank site will be retrofitted with a booster station, control panels, and a disinfection system.

Ceres River Bluff Reservoir and Pumping Facility, City of Ceres - CA. Project Manager. This project includes civil design modifications for an existing City well, connections to the future surface water delivery and distribution systems, design of pumping facilities, and a new water storage tank.

Reynolds Ranch Water Storage Tank Project, City of Lodi - CA. Principal-in-Charge. The project is comprised of installing a one million-gallon water storage tank and booster pump station adjacent to the City's Well 23 site.

Thornton Water System and Storage Facility Project, San Joaquin County - Thornton, CA. Managed the design and permitting for a new water storage tank and a booster pumping station to improve operating pressure and provide fire flow to the town of Thornton. Provided permitting and agency coordination, project management during engineering, assistance during the advertising and bidding phase, and engineering services during construction.

Industrial Tank 13 and Booster Pumping Station - Modesto, CA. Project Manager for the preliminary and final design of a 4.0-mg pre-stressed concrete reservoir and 12-mgd booster pumping station. The preliminary design included a life-cycle cost analysis of various tank materials and construction methods. The facility includes a pump station control building, piping and connections to the City distribution system, disinfection equipment, surge control, and standby power facilities.

Cedar Pines Tank and Booster Pumping Station, Twain Harte Community Services District - Twain Harte, CA. Project Manager. Conducted an evaluation of system storage, flow, and available pressure for the Cedar Pines tank and booster pump station. The analysis included a hydraulic model of the existing system and calculations for three alternatives to replace and/or improve the existing facilities. The alternatives analyzed included provisions for a hydro-pneumatic tank, variable frequency drive motors, and fire pumps. A technical memorandum with calculations, details, and recommendations was provided to and approved by the District.

Galas Water Improvements - Modesto, CA. Engineering design and specifications for a new domestic well, a 2.5-mgd water booster station, and 1.4 mg of water storage to serve the City of Modesto. Design included site work, pump station, reservoirs, disinfection system, and appurtenant piping and site work for connection to a treatment system for the removal of nitrates and manganese.

Water Distribution and Storage System - Diablo Grande, CA. Prepared the water master plan, hydraulic model, and engineering design of the water distribution system that includes three pressure zones, two storage tanks, and water booster pumping stations.

Potable Water System Upgrades, Sierra Park Water Company - Tuolumne County, CA. Principal-in-Charge. Funding application services and detailed design services for improvements to the Sierra Park Water System.

Colorado Water Main Project, City of Modesto - CA. Project Manager. Provided engineering, design, bid assistance, and engineering services during construction for a new water main line in Colorado Avenue. The water main provides water service to the lots fronting Colorado Avenue and connects to existing water mains along the alignment.

North Stockton Pipeline Sodium Hypochlorite Injection System, City of Stockton - CA. Project Manager. This project consists of the construction of a new sodium hypochlorite injection system to raise the residual chlorine levels to 2.5 ppm in the existing City of Stockton distribution line at the North Stockton Pipeline Ammonia Facility (NSPAF) site.

OID Parks Irrigation Project, City of Oakdale - CA. Project Manager. This project consists of engineering design services for the diversion, pumping, and conveyance facilities used to provide Oakdale Irrigation District water to the City park irrigation system.

Water System Condition Assessment, Sierra Park Water Company - Tuolumne County, CA. Principal-in-Charge. This project involved completing a water system condition assessment that identified any existing supply, storage, and distribution system deficiencies and compliance issues.

Curtis Creek Elementary School Water System Consolidation Project - DWSRF, Curtis Creek Elementary School District - Sonora, CA. Principal-in-Charge. Secured planning funding through the SWRCB DWSRF program for the consolidation of Curtis Creek Elementary School's water system with the Tuolumne Utilities District water system to address system deficiencies that include inadequate source and storage capacity and no emergency fire protection. Completed engineering report and preliminary design for approximately 6,000 feet of distribution water main. Completed and submitted construction package for DWSRF program funding for the project.

2017 Water Treatment Upgrades, City of Angels - Angels Camp, CA. Project Manager. Providing engineering services for improvements to the filtration, disinfection, backwash, and other processes at the WTP.

Consolidation Feasibility Study, Muller Mutual Water Company - Tuolumne, CA. Principal-in-Charge. Muller Mutual Water Company currently purchases water for the Muller and Mira Monte subdivisions through a master meter from Tuolumne Utilities District. Black Water was contracted to complete a feasibility study evaluating consolidation with the District to include preparation of plans, specifications, environmental documents, water service agreement, and cost estimate for the necessary improvements to consolidate the system.

Well 1A Improvements - DWSRF, City of Escalon - CA. Principal-in-Charge. Funding assistance and the design for the new Well 1A, site improvements to connect the new well to the existing site infrastructure, and demolition of on-site inactive granular activated carbon treatment filters and existing well.

Well #14, City of Patterson - CA. Principal-in-Charge. The project includes well and infrastructure design, including the installation of a new well and pump station, pressure tank, metering, chemical system, well head piping, building construction for controls, storage, and equipment, site access/driveway, landscaping with irrigation, site drainage and well system drain to waste, site perimeter walls, associated piping, and electrical service and controls.


education

B.S., Civil and Environmental Engineering, University of California - Davis

years with Black Water

1

years with others

5

registrations

*Professional Engineer:
California #94930*

affiliations

Modesto Engineers Club

Edgar Torres has six years of engineering experience of various public and private design projects. He is proficient in utilizing AutoCAD for a diverse range of projects, including dry/wet utilities, drainage systems, erosion control, striping, typography, demolition, and grading. Mr. Torres has a strong background in the design and preparation of drawings, technical specifications, and cost estimates for municipal projects, specifically with water, sewer, and storm drain systems. He has a proven track record of consistently delivering high-quality work and preparing detailed technical reports that offer expertise and recommendations. With four years of experience working for a public agency, Mr. Torres has a thorough understanding of local, state, and federal regulatory requirements and guidelines governing engineering projects. Excelling in project management, Mr. Torres oversees projects from inception to completion while ensuring adherence to timelines, budgets, and regulatory requirements.

Project Experience
Water Engineering

Water System Improvements - DWSRF, Sierra Park Water Company - Tuolumne County, CA. Project Engineer. Provided detailed design services for improvements to the Sierra Park Water System. Improvements include construction of a water treatment plant, SCADA upgrades, replacement of existing groundwater well pump and well head discharge piping, installation of tank level monitoring and associated ancillary improvements for the purposes of treating groundwater to comply with water quality standards. Currently providing bidding assistance for the construction of the project.

Water System Improvements - Phase I, New Auberry Water Association - Auberry, CA. Project Engineer. Providing engineering services for the construction design package to include contract documents, plans, and technical specifications for project improvements to the existing water system. Improvements include replacing transmission pipelines, upgrading well pumps, increasing water storage volume, and assisting with CEQA studies and reports.

Cressey Elementary School Water System Improvements - DWSRF, Cressey School - Cressey, CA. Project Engineer. The school water system consists of two wells, one steel pressure tank, and a distribution system. The groundwater source for Well No. 1 reported high levels of TCP. Black Water prepared a feasibility study evaluating alternatives to mitigate the impact of TCP contamination on the water system and health of the school's service population. Responsible for the preparation of the plans and specifications for the project.

Residential Water Meter Improvement Project - DWSRF, Santa Nella County Water District - Santa Nella, CA. Project Engineer. The project consists of the installation of approximately 192 water meters, 335 radio transceivers, and 335 meter box lids on existing residential service connections to remotely record water usage. Responsible for the preparation of the bid documents and provided bid support services for the District.

Paradise-Grimes-Ohio Area Strengthen and Replace Water Mains, City of Modesto - CA. Project Engineer. This project involves the replacement of approximately 19,350-LF of aging water distribution pipes with new water mains in a primarily rural residential area with numerous agricultural parcels fronting the project alignments. Responsibilities include preparation of design documents, including the plans, specifications, and estimates.

Muller Mutual Water Company Consolidation with Tuolumne Utility District - DWSRF, Tuolumne Utility District - Tuolumne, CA. Project Engineer. Evaluated the feasibility of consolidation with TUD. Engineering services included assistance with funding applications and preparation of plans, specifications, environmental documents, water service agreement, and cost estimate for the necessary improvements to consolidate the system.

Colonial Heights Maintenance District Water Main Replacement - Ph I, County of San Joaquin - Stockton, CA. Project Engineer. Preparation of plans, specifications, and engineer's estimate for the replacement of approximately 20,500 LF of water mains ranging from 4- to 8-inches in diameter. Provided a review of the client's hydraulic model analysis water study to confirm the recommended water system improvements were sufficient to meet water demands and fire flow, and to determine any areas of concern related to water age.

Sutter Neighborhood Strengthen and Replace Water Mains Project, City of Modesto - CA. Project Engineer. Design engineering services for the replacement of existing water mains and valve boxes with the installation of new water lines, meter boxes, and services lines for residences of the Sutter Avenue neighborhood. Engineering services during construction responsibilities include RFI review and design changes to Roselawn Ave.


education

*B.S., Environmental Engineering,
San Diego State University*

years with Black Water

4

years with others

3

registrations

*Engineer-in-Training:
California #155879*

affiliations

*Engineers Without Borders
(Professional Chapter)
Modesto Engineers Club*

Patrick Scott has over seven years of experience aiding in the design of various public and private water and wastewater projects, from the planning stages to construction. His experience includes providing application assistance for state revolving funded projects and coordination with local, state, and federal agencies. Mr. Scott's field work experience includes water sampling, measuring water surface elevation for static and pumping wells, and flow meter readings. He is proficient in AutoCAD, Civil 3D, Microsoft Excel, ArcGIS, and QGIS.

Project Experience
Water Engineering

Mountain Creek School Water Tank Replacement - DWSRF, Pioneer Union School District - Somerset, CA. Assistant Engineer. Provided engineering services for the replacement of the Redwood Tank with a steel tank of the same size and in the same location. The tank site will be retrofitted with a booster station, control panels, and a disinfection system. Assisted with the completion and submission of the funding application. Additionally, assisted with the preparation of the planset.

Colony Oak School Water Well Improvements, Ripon Unified School District - Ripon, CA. Assistant Engineer. Provided engineering services for the replacement and construction of a new water well, storage tank, and pumping facilities at the Colony Oak School.

Morada Acres Maintenance District Water System Rehabilitation Project, County of San Joaquin - CA. Assistant Engineer. Preparation of plans, specifications, and engineer's estimate for the removal and replacement of a 3,100-gallon hydropneumatic tank.

Santa Nella/Volta Water Quality Improvement Project - DWSRF, Santa Nella County Water District - Merced County, CA. Assistant Engineer. The project involves improvements to the water supply facilities of SNCWD and Volta Community Services District and consolidation of the two systems. Improvements include a new well, trunk lines delivering water to the distribution systems, water storage, blending, and pumping facilities, and distribution improvements to the VCSD system. Coordinated efforts with client and subconsultants, and reviewed permit and application submittal.

Curtis Creek Elementary School Water System Consolidation Project - DWSRF, Curtis Creek Elementary School District - Sonora, CA. Assistant Engineer. Secured planning funding through the SWRCB DWSRF program for the consolidation of the school's water system with the Tuolumne Utilities District (TUD) water system to address system deficiencies that include inadequate source and storage capacity and no emergency fire protection. The project included an engineering report and preliminary design for approximately 6,000 feet of distribution water main. Completed and submitted construction package for SWRCB DWSRF program funding for the project.

Water Filtration Plant and Distribution Infrastructure Project, City of Coalinga - CA. Assistant Engineer. Evaluated and prioritized capital repair projects for the 12-MGD water filtration plant. Improvements included rehabilitation of flocculation and sedimentation basins 1 and 2; improvements to filters 1, 2, and 4; rehabilitation of the sludge drying beds and plant return water piping; and improvements to the wash-water system.

Water Treatment Plant Improvements - DWSRF, City of Angels - Angels Camp, CA. Assistant Engineer. Providing engineering services for improvements to the filtration, disinfection, backwash, and other processes at the WTP.

RMHE Water System Feasibility Study - DWSRF, Riverview Mobile Home Estates - Stanislaus County, CA. Assistant Engineer. Prepared a feasibility study for Prop 1 funding assistance to analyze and correct water quality deficiencies at the Riverview Mobile Estates water system.

Surface Water Treatment Plant Improvements, Santa Nella County Water District - Santa Nella, CA. Assistant Engineer. Evaluating the existing surface water treatment plant to identify system deficiencies and recommend improvements for the SWTP to meet state and federal requirements. The project will upgrade antiquated equipment and add needed infrastructure at the existing SWTP to provide the District with a dependable and efficient means of treatment to provide surface water to the community in drought conditions. Assisted with the preparation of the funding application.

Surface Water Reliability and Water Treatment Plant Modernization - DWSRF, Lake Don Pedro Community Services District - La Grange, CA. Assistant Engineer. This project consists of engineering services to identify improvement projects to address the surface water reliability issues related to aging infrastructure. Project includes preparation of an engineering report and Water Shortage Contingency Plan and development of 30% plans, specifications, and estimate for submittal for the DWSRF construction funding application. Responsible for the preparation of the engineering report.

Colonial Heights Maintenance District Water Main Replacement, County of San Joaquin - CA. Assistant Engineer. Design of new water main pipeline to replace the existing distribution system to within the existing street limits or accessible County right-of-way. New service laterals from the new water mains will be equipped with water meters and connected to the existing residential services. The existing water main will be abandoned in place. The project's funding sources include California Department of Water Resources and American Rescue Plan Act. Responsible for the preparation of the plans and specifications.

Pike Ranch Mutual Water Company Drinking Water Planning Project - DWSRF, Self-Help - Madera County, CA. Assistant Engineer. The water system exceeded state-mandated levels for uranium for over a decade. The project consists of the preparation of an engineering report, Technical Package for the DWSRF Construction Funding Application, and the final plans and specifications for the recommended project identified in the engineering report. The engineering report provides an alternative analysis evaluation and identifies a recommended project to address water quality compliance issues.

MD 42 Still Meadow Drinking Water Project - DWSRF, Self-Help - Madera County, CA. Assistant Engineer. The Still Meadow water system has tested above state-mandated levels for arsenic and uranium. The project consists of the preparation of an engineering report, Technical Package for the DWSRF Construction Funding Application, and the final plans and specifications for the recommended project identified in the engineering report. The engineering report provides an alternative analysis evaluation and identifies a recommended project to address water quality compliance issues.

Farming D Water Treatment Plant Improvements Feasibility Study, Plow & Till company - Five Points, CA. Assistant Engineer. Prepared a feasibility report identifying improvements and costs to enhance the reliability and compliance of the water treatment plant facilities supporting the Farming D operation.

Shadybrook Well Site, Twain Harte Community Services District - Twain Harte, CA. Assistant Engineer. Design and preparation of plans and specifications for the new Shadybrook well site and 1,100 feet of new water main to connect to the existing distribution system. Well site improvements included a new well building to house piping, valves, controls, and mechanical equipment for the new well head. Responsibilities included the development of the planset.

Potable Water System Upgrades, Sierra Park Water Company - Tuolumne County, CA. Assistant Engineer. Provided funding application services and detailed design services for improvements to the water system.


education

M.S., Civil Engineering, University of the Pacific

B.S., Civil Engineering, University of the Pacific

years with Black Water

7

years with others

0

registrations

*Engineer-in-Training:
California #157507*

affiliations

Order of the Engineer

Bao Cha has over seven years of experience in civil engineering specializing on water and wastewater systems. Prior to joining Black Water Consulting Engineers, she completed an internship at a wastewater treatment plant. During her time at the wastewater agency, she worked on various projects which involved providing recycled water to the community and updating the recycled water system. At Black Water, Ms. Cha has been involved in a wide variety of water and wastewater projects assisting in analyses, report production, hydraulic models, and application processes for securing state revolving funds.

Project Experience
Water Engineering

Reynolds Ranch Water Storage Tank Project, City of Lodi - CA. Assistant Engineer. The project is comprised of installing a one million-gallon water storage tank and booster pump station adjacent to the City's Well 23 site. Responsible for preparing the cost estimate.

Valley Gateway Travel Center, PM Design Group - Madera County, CA. Assistant Engineer. Designed a new domestic well, water storage tank, and septic tank/leach field for the Valley Gateway Travel Center.

Curtis Creek Elementary School Water System Consolidation Project - DWSRF, Curtis Creek Elementary School District - Sonora, CA. Assistant Engineer. Secured planning funding through the SWRCB DWSRF program for the consolidation of Curtis Creek Elementary School's water system with the Tuolumne Utilities District (TUD) water system to address system deficiencies that include inadequate source and storage capacity and no emergency fire protection. Completed engineering report and preliminary design for approximately 6,000 feet of distribution water main. Completed and submitted construction package for SWRCB DWSRF program funding for the project.

Oakdale Water Master Plan, City of Oakdale - CA. Assistant Engineer. Preparing the water master plan to evaluate the existing water supply, treatment, distribution, and storage systems to ensure that the City has adequate facilities to support future growth, goals, and policies.

Water Master Plan, Santa Nella County Water District - Santa Nella, CA. Assistant Engineer. Assisted with the preparation of a water master plan to evaluate the existing water supply, treatment distribution and storage systems to ensure that SNCWD has adequate facilities to support future growth, goals, and policies. The water master plan will provide design guidelines for water infrastructure to serve future developments and guidelines for future policy documents.

Potable Water System Upgrades, Sierra Park Water Company - Tuolumne County, CA. Assistant Engineer. Provided funding application services and detailed design services for improvements to the water system.

Water Quality Hydraulic Model, City of Ceres - CA. Assistant Engineer. Engineering services for water system hydraulic modeling to integrate surface water supply into the existing City water model.

Well 1A Improvements - DWSRF, City of Escalon - CA. Assistant Engineer. Funding assistance and the design for the new Well 1A, site improvements to connect the new well to the existing site infrastructure, and demolition of on-site inactive granular activated carbon treatment filters and existing well. Assisted with the construction funding application.

Mobile Home Park Water Distribution System Improvements - DWSRF, Santa Nella County Water District - Santa Nella, CA. Assistant Engineer. The project consists of the design for of approximately 12,000 ft of existing 4-inch through 8-inch water main to replace existing distribution system and install 350 new service laterals with remote-read water meters to existing residences and businesses. Secured funding for the District for planning, design and construction of the project through the SWRCB DWSRF program. Provided bidding and advertisement services for the construction project. Reviewed California fire flow requirements for commercial buildings.

Water Main Consolidation Improvements Project - DWSRF, Keyes Community Services District - Keyes, CA. Assistant Engineer. The project consists of the design of approximately 13,000 ft of 8-inch, 10-inch and 12-inch water distribution main to extend service to out of service boundary mobile home parks with non-compliant water systems with the Keyes CSD water system. The project included abandonment of 4 existing water and two (2) bore and jack crossings at irrigation facilities. Secured funding for the District for planning, design and construction of the project through the SWRCB DWSRF program. Assisted with the jack and bore design and provided plan review. Provided bidding and advertisement and construction management and inspection services for construction of the project.

Colonial Heights Maintenance District Water Main Replacement - Ph I, County of San Joaquin - Stockton, CA. Assistant Engineer. This project consists of the preparation of plans, specifications, and engineer's estimate for the replacement of approximately 20,500 LF of water mains ranging from 4- to 8-inches in diameter. Provided a review of the client's hydraulic model analysis water study to confirm the recommended water system improvements were sufficient to meet water demands and fire flow, and to determine any areas of concern related to water age.

Water System Permitting Project, Lange Twins Family Winery and Vineyards - Acampo, CA. Assistant Engineer. Completed the required documents and coordinated with the San Joaquin County Environmental Health Department to obtain a permit to operate a non-transient, non-community public water system. Responsible for the GIS exhibits.

Water System Evaluation and Recommendations - DWSRF, City of Escalon - CA. Assistant Engineer. Evaluated the performance of the City's water system, specifically at the Well #1 site, and provided recommendations for supply and capacity improvements.

Water Meter Improvement Project - DWSRF, Westley Community Services District - Westley, CA. Assistant Engineer. Provided SRF application assistance for the installation of water meters on all service connections within the district. Also prepared the plans and specifications for the construction of the project.

Water System Improvements for Domestic Water System at the Westley Migrant Center, Housing Authority of the County of Stanislaus - Westley, CA. Assistant Engineer. Provided engineering design services for construction of the recommended improvements to refurbish Well #2 and the installation of a new pump and motor at Well #2. Assisted with the preparation of the technical memorandum.

Mountain House Well Replacement - DWSRF, Mountain House Elementary School District - Byron, CA. Assistant Engineer. Assisted with the submission of an application package to secure funding for a new well. Responsibilities included assisting with the filing of the Notice of Exemption and the Interim Emergency Drinking Water Application submission.

On-Call Water Analyses, City of Tracy - CA. Assistant Engineer. Conducted various analyses to verify the condition and capacity of the existing water system to serve planned development and connections to the water system. Responsibilities included developing hydraulic models and preparing the technical memoranda.



education

*B.S., Earth System Science,
University of California - Merced*

years with Black Water

2

years with others

0

affiliations

Modesto Engineers Club

Ulises Yepez is a graduate from the University of California - Merced where he received his Bachelor’s in Environmental Science. During his studies, he worked as a research assistant where he assisted in conducting water cost analyses of 30 water districts in Kern County, CA. Mr. Yepez gained a solid understanding of CEQA related documents, and state and local guidelines and protocols for environmental-related concerns through his internship at a water district in the southern San Francisco Bay Area. Since joining Black Water, he has gained extensive construction related experience including project inspection, RFI and submittal reviews, managing budgets, interpreting design drawings, materials organization, and coordinating with multiple teams. He is proficient in collecting, organizing, and analyzing data and familiar using GIS.

Project Experience

Water Engineering

Ceres River Bluff Reservoir and Pumping Facility, City of Ceres - CA. Engineer Technician. This project includes civil design modifications for an existing City well, connections to the future surface water delivery and distribution systems, design of pumping facilities, and a new water storage tank. Assisting with submittal reviews during the construction phase.

Dunlap Leadership Academy Water Supply Upgrade and Consolidation Project - DWSRF, Kings Canyon Unified School District - Dunlap, CA. Engineer Technician. Preparation of contract and construction documents for the installation of 3,000 LF of 4-inch drinking waterlines and 890 LF of 6-inch irrigation waterlines by open trench construction, a new 25,000 gallon bolted steel water storage tank, new 10,000 gallon and 7,000 gallon

HDPE water storage tanks, well site pump station and blending station, booster pump stations, new 5,000 gallon hydropneumatic tank, two 2,000 gallon hydropneumatic tanks, and installation of power, control instrumentation and lighting. Responsible for logging in submittals during the construction phase.

Surface Water Treatment Plant Improvements, Santa Nella County Water District - Santa Nella, CA. Engineer Technician. Evaluating the existing surface water treatment plant to identify system deficiencies and recommend improvements for the SWTP to meet state and federal requirements. The project will upgrade antiquated equipment and add needed infrastructure at the existing SWTP to provide the District with a dependable and efficient means of treatment to provide surface water to the community in drought conditions.

Residential Water Meter Improvement Project - DWSRF, Santa Nella County Water District - Santa Nella, CA. Engineer Technician / Construction Inspection. The project consists of the installation of approximately 192 water meters, 335 radio transceivers, and 335 meter box lids on existing residential service connections to remotely record water usage. Responsibilities included design assistance, submittal review during construction, preparation of the project completion report, and conducted final inspection.

Well #14, City of Patterson - CA. Engineer Technician. The project includes well and infrastructure design, including the installation of a new well and pump station, pressure tank, metering, chemical system, well head piping, building construction for controls, storage, and equipment, site access/driveway, landscaping with irrigation, site drainage and well system drain to waste, site perimeter walls, associated piping, and electrical service and controls. Provided permitting assistance for the water supply permit amendment.

Colorado Water Main Project, City of Modesto - CA. Engineer Technician. Project consists of engineering, design, bid assistance, and engineering services during construction for a new water main line in Colorado Avenue. The water main provides water service to the lots fronting Colorado Avenue and connects to existing water mains along the alignment. Assisted with the engineering services during construction including submittal reviews.

On-Call Water Analyses, City of Tracy - CA. Engineer Technician. Conducted various analyses to verify the condition and capacity of the existing water system to serve planned development and connections to the water system. Responsibilities included assistance with developing hydraulic models and assisting with the technical memoranda.

Cressey Elementary School Water System Improvements, Cressey School - Cressey, CA. Engineer Technician. The school water system consists of two wells, one steel pressure tank, and a distribution system. The groundwater source for Well No. 1 reported high levels of TCP. Black Water prepared a feasibility study evaluating alternatives to mitigate the impact of TCP contamination on the water system and health of the school's service population. Provided permitting assistance.

Riverdale Park Tract Community Services District Water System Improvements Evaluation, Self-Help Enterprises - Modesto, CA. Engineer Technician. Evaluation of immediate/emergency improvements to address existing water system deficiencies including a leaking storage tank, inoperable valves, and no redundant water source. Assisted with the preparation of the technical memorandum identifying urgent drinking water needs.

Wastewater Engineering

Thornton Wastewater Improvements Project-CWSRF, Housing Authority of the County of San Joaquin - Thornton, CA. Construction Inspector. Black Water was retained to complete the planning and design for the Thornton Wastewater Improvements Project. The project involves closure of the existing Thornton WWTF and construction of a pump station and 2.3-mile force main. Responsibilities include providing engineering services during construction and assisting with the construction inspection.

Oakdale Wastewater River Crossing Project, City of Oakdale - CA. Construction Inspector. The project consisted of preliminary and final design documents for the replacement of the existing 18-inch sewer crossing over the Stanislaus River with a multi-barrel siphon located below the River. Responsibilities include construction observation of the project during the construction phase.

Collection System - CWSRF, Tuolumne City Sanitary District - Tuolumne, CA. Engineer Technician. Black Water provided improvement design documents for construction of the replacement of aging pipes and manholes of the District's sewer system. Responsible for reviewing submittals during the construction phase of the project.

Wastewater Treatment Plant Upgrade, City of Escalon - CA. Engineer Technician. Validating a preliminary design for a combined domestic and industrial wastewater treatment process to construct improvements to address deficiencies and upgrade the existing plant to produce recycled water. Assisted with the planset details and drawings.

Oakdale Wastewater Capital Improvement Plan Update, City of Oakdale - CA. Engineer Technician. Preparation of an update to the Wastewater Capital Improvement Plan to be used in the Capital Facilities Fee Nexus Study. Additionally, assisting in the assessment of the feasibility of implementing a recycled water disposal strategy. Assisting with the development of GIS figures.



Benjamin D. Crawford, PE, GE

Principal Geotechnical Engineer



Ben Crawford is the Founder and President of Crawford & Associates, Inc. He has managed complex projects including bridges, roadways, pavement rehabilitation, water and wastewater, parks, and trails. Ben's experience includes providing geotechnical recommendations for water, wastewater, wells, basins, storm drainage, and pipeline projects, including associated ancillary structures, foundations, and pavement/flatwork. Previous projects include reinforced concrete pipelines, large-diameter pipelines, work within wetlands and waterways, open-cut and trenchless pipelines, and projects within areas of high seismicity.

EDUCATION

B.S. Civil Engineering,
California Polytechnic
State University, San Luis
Obispo, 2002

REGISTRATIONS

Civil Engineer, CA #68457
Geotechnical Engineer,
CA #2861

ORGANIZATIONS

- Geoprofessional Business Association
- American Public Works Association
- Modesto Engineers Club
- American Council of Engineering Companies
- County Engineers Association of California

EXPERIENCE

At Crawford: 11 years
Total: 22 years

LOCATION

Sacramento, CA

REPRESENTATIVE PROJECTS

Ione Water Treatment Plant, Amador Water Agency, CA

Principal Geotechnical Engineer. Completed a Preliminary Geotechnical Memorandum to evaluate and provide geotechnical alternatives to stabilize and expand the WTP. The current site has limited space for an expansion, as well as settlement concerns that have resulted in pavement undulations and cracking, concrete cracking, a sheared bracket, and uneven water level within the clarifier. Recommendations include establishing benchmarks and annual monitoring of clarifier and filters, repairing system leaks, and improving loose soil for long-term site use. Expansion options would utilize retaining walls and would require top-down constructed walls due to soil conditions. Anticipated wall heights of 10-13 ft would provide 15-20 ft of additional lateral distance.

City of Ukiah WTP Backwash Basin Rehabilitation, Ukiah, CA

Upgrades to the wastewater treatment facility include constructing a new lined basin, installation of a wet well, and electrical equipment supported on a mat foundation. Ben was Principal and oversaw preparation of a Geotechnical Memorandum. Crawford staff drilled, logged, and tested four exploratory borings and completed two Dynamic Cone Penetrometer tests to develop a summary of subsurface conditions. Key Geotechnical considerations include groundwater near the base of the basin excavation which may cause difficult construction conditions, presence of soft deleterious materials within the basin, and the presence of saturated soils. Provided recommendations for both concrete liner and plastic liner systems; we well mat foundations; ground & subgrade preparation; overexcavation to remove soft sediments; fill placement and compaction minimums; embankment benching; and foundation design parameters.

Well 17 Project for Linda County Water District, Marysville, CA

Principal Geotechnical Engineer: provided foundation recommendations for structures at two sites. The Well 17 site includes a below ground sump station, mist eliminator structure, and chemical & electrical control facility supported on concrete mat foundations; 25-foot diameter steel backwash tank on a shallow perimeter ring foundation; and ancillary structures/tanks including brine and fuel tanks, generator, pressurized filters, and transformer supported on shallow spread footings/concrete mat foundations. The Storage Tank Site includes an approx. 1-million-gallon, 100-foot diameter steel storage tank on perimeter ring foundations, interior column spread footings, a booster pump station supported on a concrete basin/vault, and booster pump ancillary piping and equipment. The project will also include approximate 1,000 linear feet of open cut water pipeline connecting the Well 17 and Storage Tank Site. Used SETTLE 3D Version 3.0 software to evaluate immediate and consolidation settlement for both the storage basin tank and pump station. Grading, pavement, and utility trench recommendations were also provided.

San Andreas WWTP Improvements, Calaveras County, CA

Ben was Principal in charge of a Geotechnical Report for the project, which presented a summary of surface/subsurface conditions and conclusions. Improvements included new aeration basins, multiple below ground pump stations, sludge drying beds, administration building, and clarifiers. Also prepared a Preliminary Geotechnical Report for the planning of three potential new reservoirs at the WWTP site and a baseline report for the construction of approximately 2 miles of outfall pipe. The additional storage capacity will be achieved through excavating soil/rock from the land immediately east of existing Pond D. The Crawford team reviewed existing geotechnical reports; geologic maps; performed seismic refraction lines; observed, logged, and sampled exploratory test pits; performed laboratory testing on test pit samples; and performed engineering analysis. Provided recommendations for excavation and pond slopes.



Amando Castro, PE

Senior Engineer

Amando Castro is a graduate of Sacramento State University with a degree in Civil Engineering. As a Senior Engineer, he is responsible for writing reports, reviewing site documentation, overseeing staff during field observation for soil borings, pavement coring, and test pits; and managing field investigations. This field investigation experience includes logging and sampling boreholes/test pits, seismic refraction, down-hole permeability, CPT and geologic mapping/reconnaissance. Amando's experience includes water and wastewater projects, transportation, storm damage, pavement and roadways, and construction observation and materials testing.

EDUCATION

B.S. Civil Engineering,
California State University,
Sacramento, 2019

REGISTRATIONS

- Civil Engineer, CA #94561
- APNGA Nuclear Gauge Safety & U.S. DOT Hazmat Certification

EXPERIENCE

At Crawford: 6 years

Total: 6 years

LOCATION

Sacramento, CA

REPRESENTATIVE PROJECTS

Jenny Lind Water System Tank A-B Transmission Pipeline, Calaveras County, CA

Project Engineer for a Geotechnical Report for ~22,000-lf of either Ductile Iron or PVC pipeline constructed using open trench construction. The report includes a review of site geology, a field exploration program with 10 exploratory test borings and seismic refraction study, results of laboratory testing, and seismic design parameters. Key geotechnical considerations associated with design and construction of this project include the excavatability of the dense residual soil and decomposed underlying rock. Estimated the Modulus of Soil Reaction Values and calculated thrust restraint.

City of Angels WWTP Upgrade Clear Well Removal, Angels Camp, CA

Project Engineer for a Geotechnical Report to provide recommendations for the removal of existing structures and site preparations. The project includes a new 5-ft diameter tank, incline plate clarifiers, effluent tank, sludge tank, and press feed pumps, all supported on concrete pad foundations. Performed a field exploration and laboratory testing program and reviewed site seismicity to develop conclusions. Recommendations included removal and processing of on-site soil to reduce differential settlement, grading, fill placement, and compaction.

Ukiah Recycled Water Pipeline: Phase 4 Design Project, Ukiah, CA

The project includes construction of a new recycled water system pipeline to serve agricultural and urban irrigation and frost protection throughout the city. Phase 4 will tie into existing pipeline at the City Water Treatment Plant and will include a 1 MG concrete reservoir tank, pump station, trenchless crossings under Highway 101 and a railroad crossing, and a pedestrian bridge. The pipeline will run approximately 20,000 linear feet with diameters ranging from 4"-18". As Project Engineer, Amando logged 24 exploratory test borings for the open-cut and trenchless portions of the pipeline alignment; measured existing pavement sections; summarized soil conditions and groundwater locations; performed laboratory testing; and reviewed site seismicity. Provided recommendations for the tank and pump station foundations; site grading; open-cut and trenchless pipeline; and pavement sections.

Reservation and Blanco Road Trenchless Crossing, Monterey County, CA

Project Engineer completed a Geotechnical Investigation for the design of 30,000 lineal feet of recycled water distribution pipelines for irrigation purposes. The project will be installed using traditional open cut methods with the exception of the Reservation and Blanco Road intersection which will be installed via trenchless methods to minimize impacts to traffic. The trenchless project will include the installation of about 430 lineal feet of recycled water line approximately 10 to 15 feet below existing grade. Prepared a Geotechnical Report which included subsurface exploration, laboratory testing and analysis, and provided geotechnical recommendations for placement of the trenchless steel casing, pit bottom support, and pit thrust wall design.

Arden Pump Station Assessment and Remediation, Sacramento, CA

Project Engineer for a Final Geotechnical Report for a temporary bypass pump will be installed adjacent to an existing pump station at the Sacramento Regional County Sanitation District's (Regional San) Arden location. In order to install the temporary bypass pump, an excavation and retaining wall up to 12 ft tall will be required. Significant historical improvements have occurred in the vicinity of the proposed temporary bypass pump location likely during installation of the existing pump station and associated piping. Key Geotechnical considerations for the project include the presence of historical fill of varying quality and existing underground utilities. Provided excavation and fill recommendations for the bypass pump slab and minimum footing dimensions for the retaining wall.

Charles R. Simpson
Principal, BaseCamp Environmental, Inc.

SPECIALTIES: Multi-disciplinary environmental planning, permitting, and impact assessment projects; innovative approaches to regulatory compliance; technical proficiency in several disciplines

EDUCATION: B.S., Resource Planning and Interpretation, 1974, California State Polytechnic University, Humboldt, Arcata, California. Continuing education in selected environmental and land use planning subjects

EXPERIENCE: 48 YEARS

Mr. Simpson's expertise is in environmental review and environmental planning associated with land, transportation, infrastructure and resource planning and development. He investigates and strategizes acquisition of required permits and approvals; he authors and manages complex environmental analyses; he formulates approval findings and decision documents; and he develops environmental and urban planning policy language and documentation.

Mr. Simpson is experienced in scoping, organization and management of multi-disciplinary environmental impact analyses, predominantly under the California Environmental Quality Act (CEQA). Mr. Simpson also has extensive experience in preparing National Environmental Policy Act (NEPA) environmental documents for local agency road widening and bridge projects under Caltrans leadership, and for water, energy and recreational development on federal lands. Mr. Simpson conducts environmental review processes and provides decision support for numerous cities, counties and other California local agencies as well as lead federal agencies including the USDA Forest Service, USDA Rural Development, USDI Bureau of Land Management, USDI Bureau of Indian Affairs, US Department of Housing and Urban Development. He has extensive experience with water supply, water quality and wastewater programs and improvement projects for school and other special districts.

Mr. Simpson's environmental planning experience is gained in a range of rural, natural resource and urban landscapes, including environmentally sensitive areas and their respective resources. His project experience includes industrial development, roads and bridges, energy generation, electrical transmission and telecommunications, water resource development, mining, waste disposal, liquids, gas and power transportation, resorts and recreational facilities, and urban development and infrastructure, including several water, wastewater and storm drainage projects for Central Valley cities.

Mr. Simpson is intimately familiar with the operations, needs and concerns of California local agencies and staff. He has overseen the preparation and processing of more than 200 CEQA review documents for the City of Stockton as Lead Agency. Mr. Simpson has staffed and continues to consult to California cities and counties on development and environmental review matters. He has been engaged to provide CEQA and NEPA training to the Stockton Municipal Utilities and Public Works departments as well as to several Stanislaus departments. Mr. Simpson contributes to comprehensive plans, specific plans and plan elements; he has administered current planning, coastal planning, and economic development programs; and he has participated in the preparation of redevelopment plans.

RELATED STOCKTON AREA PROJECT EXPERIENCE

- Mormon Slough Sewer Rehabilitation, CEQA Documentation (ISMND)
- Stockton Point (SouthPointe) High Density Residential and Commercial Project, CEQA Documentation (ISMND)
- Stockton Veterans CBOC Project, Off-site Utility Trunk Lines EIR
- Mariposa Industrial Park Annexation and Development EIR

KENT HYSELL

CHIEF FINANCIAL OFFICER / DIRECTOR OF SURVEY



Kent Hysell is a Principal with NorthStar Engineering Group, Inc. and is responsible for making sure proficiency is provided in every project that he manages.

Mr. Hysell has over 40 years of experience in Land Surveying and his thorough understanding of a project, starting with the boundary and topographic survey, through design, and during construction is a valuable benefit to his clients. Throughout his career he has actively participated in surveying, design, project management, and construction oversight of various public and private projects. He is proficient in all aspects of field surveys, office mapping, and survey calculations. Mr. Hysell started his career in surveying in 1983. He specializes in various public works and private development projects overseeing tasks which include office calculations, research, control surveys, GPS surveys, boundary surveys, construction staking, and management of construction projects. commercial, retail, and industrial developments, airport runways and taxiways, airfield parking aprons, highway interchanges, highway reconstruction, highway bridges, prisons, water and wastewater treatment plants, dams, power plants, railroad systems, and several schools. Mr. Hysell's surveying expertise was developed in the Modesto office of Thompson-Hysell Engineers between 1983 and 2007. Mr. Hysell orchestrated a survey department having up to twelve survey crews and eight office surveyors at one time. Mr. Hysell also acted as the principal in charge of survey geomatics and helped grow the office to a 100-man firm prior to his departure in 2007.

EDUCATION

California State University, Stanislaus

YEARS EXPERIENCE

- 40 Years
- Years with Firm - 14

SPECIALIZATION

- Commercial Projects
- Industrial Projects
- School Projects
- Residential Projects
- Apartment Projects

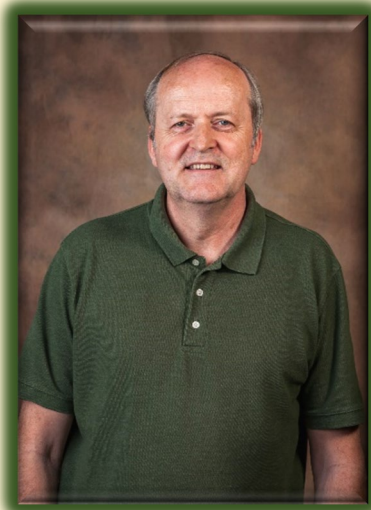
CERTIFICATIONS

Professional Land Surveyor

- California # LS6953

RIEN GROENEWOUD

LAND SURVEYOR, CFED



Rien Groenewoud is a licensed Land Surveyor and CFED and is responsible for making sure proficiency and accuracy is provided in the projects he provides Land Surveying Services on.

Mr. Groenewoud has worked in the Land Surveying industry for more than 40 years, of which the first 10 years were spent with the Cadastral Office of the Dutch Government in Rotterdam, and has extensive experience preparing Record of Surveys, Parcel Maps, Subdivision Maps, ALTA's, and legal descriptions. Mr. Groenewoud's experience covers all areas of the development industry, being it residential, commercial (including wind farms and solar farms) or public agency projects (including projects for CalTrans and N.R.C.S./C.W.A.). The wide variety of projects that Mr. Groenewoud has worked on allows him to have a unique understanding on what would be the most efficient way to approach a project and finish it successfully.

EDUCATION

- C.T.O. Apeldoorn, The Netherlands

YEARS EXPERIENCE

- 40 Years
- Years with Firm - 9

SPECIALIZATION

- Commercial Projects
- Industrial Projects
- School Projects
- Residential Projects
- Apartment Projects

CERTIFICATIONS

Professional Land Surveyor

- California # 6946
- Federal # CFED1267

RESOLUTION NO. 2024-
A RESOLUTION OF THE BOARD OF DIRECTORS
OF THE CALAVERAS COUNTY WATER DISTRICT
APPROVING/AUTHORIZING DESIGN CONTRACT FOR EBBETS PASS SAWMILL
TANK REPLACEMENT

WHEREAS, the District has identified a need to Improvements to the existing Sawmill Tank due poor conditions, and operational/water quality issues due to the capacity of the tank greatly exceeding the normal water demand, and

WHEREAS, upon issuing a Request for Proposal (RFP) on June 3, 2024, for engineering and environmental design services for the subject project and conducting job walk of the project area with numerous prospective consulting firms interested in submitting proposals, the District received five (5) proposals as of the due date of July 10, 2024, and

WHEREAS, the Engineering and Operations staff reviewed all proposals considering various criteria such as qualifications and experience, content and presentation of the proposal and approach to work, completeness/variances in the proposed scope of work, allocation of staff hours to each task, general sense of cost effectiveness and value, subconsultant scope and fees, potential scheduling issues and ability to deliver work within allowed timeframe, team organization and focus on key project issues, and prior performance on other District projects. Among the proposals staff recommends the award of the contract for engineering and design services to Blackwater Consulting Engineers, and

WHEREAS, the total project cost is estimated to be \$3.16 million. Funding for the design phase of the project is included in the FY 2024-25 Water CIP Budget.

BE IT RESOLVED, the CALAVERAS COUNTY WATER DISTRICT Board of Directors hereby approves the Proposal submitted by Blackwater, for Engineering Services for, Ebbetts Pass Sawmill Tank Replacement Project and authorizes the General Manager to execute said agreement not to exceed \$382,574 as proposed in the attached Proposal.

PASSED AND ADOPTED this 14th day of August, 2024 by the following vote:

AYES:
NOES:
ABSTAIN:
ABSENT:

CALAVERAS COUNTY WATER DISTRICT

Russ Thomas, President
Board of Directors

ATTEST:

Rebecca Hitchcock, Clerk to the Board

4e



AGENDA
ITEM

4e

Agenda Item

DATE: August 14, 2024

TO: Michael Minkler, General Manager

FROM: Jeffrey Meyer, Director of Administrative Services

SUBJECT: Discussion / Action regarding Applications and Financial Requests with the USDA Rural Development for the Arnold Wastewater Treatment Facility Improvements Project.

RECOMMENDED ACTION:

Motion: ____ / ____ to adopt Resolution 2024 - ____ Designating the General Manager and Director of Administrative Services as Authorized Representatives to Execute all Applications and Financial Requests with the State USDA Rural Development for the Arnold Wastewater Treatment Facility Improvements Project.

SUMMARY:

In May 2024 the District was informed by the California State Water Resources Control Board that the Clean Water State Revolving Funds (CWSRF) program had substantial funding reductions and funds were no longer available for the Arnold Wastewater Treatment Plant Improvement Project. This critical project is essentially shovel ready at 100% design. Staff reached out to the United States Department of Agriculture Rural Development (USDA RD) about loan and possible grant funding for the project.

USDA RD provides low-cost loans and possible grant funds to local agencies. The District utilized USDA funding for the Reach 3a and AMI/AMR Meter Replacement projects. If awarded, the funding is expected to consist primarily of a loan with the possibility of a grant component.

Funds for Fiscal Year 2024 have been exhausted and the District will be submitting its application for Fiscal Year 2025. The USDA online application process requires the District's Board of Directors to designate the General Manager and Director of Administrative Services as authorized agents to certify and submit grant applications and all other forms of necessary assurances.

FINANCIAL CONSIDERATIONS:

The total amount of assistance requested from USDA RD for the Arnold Wastewater Treatment Plant improvements is \$8,591,430.

Attachments: *Resolution No. 2024-_____ Designating the Designating the General Manager and Director of Administrative Services as Authorized Representatives to Execute all Applications and Financial Requests with the United States Department of Agriculture Rural Development for the Arnold Wastewater Treatment Facility Improvements Project*

RESOLUTION NO. 2024 -

**A RESOLUTION OF THE BOARD OF DIRECTORS OF THE
CALAVERAS COUNTY WATER DISTRICT**

**AUTHORIZING THE DESIGNATION OF APPLICANT'S AGENT FOR THE UNITED
STATES DEPARTMENT OF AGRICULTURE – RURAL DEVELOPMENT**

WHEREAS, the Calaveras County Water District (District) desires to submit applications for grants or loans from the United States Department of Agriculture - Rural Development (USDA - RD) for Arnold Wastewater Treatment Plant Improvements; and

WHEREAS, certain requirements are necessary to move forward with an application; including the designation of authorized signatories or "designated agents" for the District; and

WHEREAS, the District desires to be more efficient through the submission of grant applications and supporting documentation for the maintenance of existing grants.

NOW, THEREFORE BE IT RESOLVED, that the Board of Directors does hereby authorize the General Manager and Director of Administrative Services to act as "Designated Agents" to execute documents, certify, supply necessary information, submit applications, and otherwise engage with the USDA-RD regarding the application for, or maintenance of USDA-RD funded grants or loan programs on behalf of the Calaveras County Water District.

PASSED AND ADOPTED this 14th of August 2024 by the following vote:

AYES:

NOES:

ABSTAIN:

ABSENT:

CALAVERAS COUNTY WATER DISTRICT

Russ Thomas, President
Board of Directors

ATTEST:

Rebecca Hitchcock
Clerk to the Board

5 a

A G E N D A
I T E M

5 a

Agenda Item

DATE: August 14, 2024
TO: Michael Minkler, General Manager
FROM: Damon Wyckoff, Director of Operations
RE: Report on the July 2024 Operations Department

RECOMMENDED ACTION:

Report on the Operations Departments Report for Districts 1 through 5.

SUMMARY:

Attached is the monthly Operations Department Report for July 2024. The report will review the operational status and work completed by departmental administration and each of the five Districts. The report will cover the following:

- Administration
- Water treatment plants
- Wastewater treatment plants
- Distribution
- Collections
- Construction
- Electrical
- Mechanical

Staff will be present to report to the Board of Directors and will be available for questions.

FINANCIAL CONSIDERATIONS:

None.

STRATEGIC PLAN INITIATIVES:

OI-01 Ensure our infrastructure is operated and maintained to fully realize its expected life span.

OI-02 Implement preventative, predictive, and corrective maintenance plans to ensure safe and reliable operations.

EO-10 Value the workforce that enables us to deliver on the Strategic Plan goals and objectives and upholds the District's core values.

Attachment: July 2024 Operations Department Reports for Districts 1 through 5

Operations Departments Report

July 1st thru July 31st, 2024

Director of Operations:

1. On-going coordination and management of multiple District Operations projects and work efforts.
2. Presented CCWDs Journey to AMI at an American Water Works Association Seminar at Palomar Junior College in San Marcos.
3. Provided a presentation related to CCWDs work with the Fire Districts to maintain District Fire Hydrants.
4. Conducted an Aero Fire Debrief with CCWD Staff. Reviewed what went right, and where we can improve.
5. Site visits to multiple in-construction District projects.
6. Continued to work with District Staff and the consultant to ensure the effective implementation of the AMI Project.
7. Participated in Meetings with CV Developers RE: the sewer force main alignment
8. Participated in multiple onsite project progress meetings.
9. Participated in the kickoff meeting for the design of the Huckleberry Lift Station Rehabilitation Project.
10. On-going work with KW Emerson related to the Shop building fire at the West Point WTP.
11. On-going CARB related work with the CARBs Clean Fleets Infrastructure TRIG, MCWRA, and ACWA.
12. On-going work with Staff and the District's Consultant to glean any additional operational options to improve Disinfection Byproduct reduction in the Ebbetts Pass Service Area. Working now to request the State lift the order.
13. On-going work with the Mobile MMS Team to optimize work orders, service requests, the District Dashboard, and Regulatory Compliance requirements.
14. Worked with the Mobile MMS Team to facilitate their completion of a plan for the District's Lead Service Line Inventory. The Plan was accepted by the State and CCWD will now proceed with the inventory.

Administrative Technician:

1. Maintained Field Calendar
2. Received/Tracked All USA North Line 811 Locates – Handled Associated Calls – 442 Received District Wide
3. Facilitated with Employee Reimbursements
4. Facilitated with Employee Certification – Applications, Exams, Renewals, Trainings, Resources
5. Field Training Course Ordering/Registrations/Travel Arrangements
6. Process Operations Purchase Order Batches
7. On Call Reminders, Transfers, Logs
8. Electronic Lab Report Filing
9. Organizing and Archiving Operations Department Documents
10. Safety Tailgate Meetings: Create, Track, & Archive
11. Attended Various Meetings
12. Permit Renewals
13. 2024 CERS Program Work Efforts
14. 2024 Backflow Program Work Efforts
15. Cross Connection Survey Work Efforts
16. Miscellaneous Administrative Functions

Plant Operations Manager:

1. Completed the review and acceptance of the monthly and quarterly State Water Reports for all the Districts Water Systems and submitted them to the State
2. Completed the monthly, quarterly, and semiannual Wastewater Reports for all the Districts Wastewater Systems and submitted them to the State.
3. Continued to work very closely with the operator in West Point to ensure that all system needs are met.
4. Continued to work closely with our Operators in Copperopolis water, wastewater, and reclaim plants.
5. On-going work associated with PO's and ordering supplies for different District facilities and projects
6. Continued work efforts on annual backflow testing
7. Ongoing work efforts associated with the Ebbetts Pass HAA5 violation for purposes of public notification and data collection. Working to request the Compliance Order be lifted. We have not exceeded the Maximum Contaminant Level (MCL) for HAA5s since the initial Compliance Order was issued.
8. Completed the SAFER Clearinghouse monthly reporting with our Water Resources Specialist.
9. Ongoing work efforts related to the District's Cross Connection Control Surveys with the Operations Admin Tech.
10. Accompanied County staff throughout the District for our hazardous materials site inspections pertaining to the California Environmental Reporting System (CERS). On-going work related to the annual reporting as well.
11. Accompanied County staff throughout the District for our generator inspections pertaining to requirements of the air quality board.
12. Participated in dam inspections with the State's Division of Safety of Dams (DSOD). Copper Cove, La Contenta, West Point, and White Pines.

July 2024 Water Production

- a. Copper Cove – 56.71 MG
- b. Ebbetts Pass – 42.02 MG
- c. Jenny Lind – 74.84 MG
- d. Sheep Ranch – 0.443 MG
- e. Wallace – 2.55MG
- f. West Point – 5.23 MG

Construction and Maintenance Manager:

1. Staff meetings.
2. Board meetings.
3. Weekly Copper Cove tanks project meeting.
4. Copper Lift Station and force main relocation project weekly meetings.
5. West Point/Wilseyville Consolidation on-site project meeting.
6. Attended Employee Wellness Committee meetings.
7. Attended the Jenny Lind A to B Transmission Pipeline Project Meetings.
8. Attended the Huckleberry Lift Station Rehabilitation Project kick-off meeting.
9. Met with Badger Daylighting in Copperopolis to discuss a potholing plan for the C-Tank Transmission Pipeline Project.
10. Participated in on-going meetings with CV Developers RE: the alignment of the sewer force main from Town Square to the CCWD sewer system.
11. Attended the PG&E summer of 2024 Data Portal training webinar.
12. Reviewed applications for the temporary Distribution Worker position to support eh Jenny Lind A to B transmission pipeline project.
13. Participated in the American Waterworks Association's Journey To AMI workshop at Palomar City College in San Marcos.
14. On-going meetings with LGI Homes to discuss sewer force main and lift station options for Vista Del Lago West.
15. Worked with Staff and Websoft Developers in the implementation planning of the District's upcoming Lead Service Line inventory.

16. Updated interview questions for Distribution Worker positions.
17. Submitted Right of Way notifications to Calaveras County Public Works for leak repair efforts.
18. Site visits to Nowach Ct in Arnold to look at cross country water line and customers construction plans/layout.
19. Coordinated with staff and Customer Service regarding shutdown notifications for Dunn Road pressure test.
20. Coordination with staff to complete meter reads for billing.
21. Multiple field/site visits.
22. Multiple phone calls to customers to discuss issues/concerns.
23. Review and approve timecards.

Purchasing Agent:

1. Worked on inventory of new warehouse.
2. Completed invoicing for purchased material.
3. Met with various reps and received quotes for various items for purchase.
4. Ordered parts, tools, materials, and equipment for all departments.
5. Coordinated servicing of District Vehicles for Field Staff.
6. Reconciled Credit Cards for Field Staff.
7. Worked with new facilities maintenance worker on work order completion.
8. Worked on hydrant and valve order for hydrant replacements in La Contenta and other areas.
9. Worked on motor replacement for Forest Meadows wastewater
10. Worked on pump maintenance for Upper and Lower Cross-Country Lift Station pumps
11. Worked on purchase request and inventory transfers in Mobile MMS.
12. Delivered supplies, materials, and parts.
13. Worked on end of the year invoicing.
14. Worked on recall orders for leased vehicles.
15. Worked on capital outlay purchases for this year's fiscal.
16. Worked on hydrant repair costs and repair kits.
17. Worked on the purchase of safety supplies.
18. Re-organized the warehouse.
19. Worked on an inventory stock replenishment order.
20. Worked on quotes and purchase of Rotork actuators for Vallecito.

Water Treatment Plants:

Copper Cove Water Treatment Plant:

1. Operations as usual
2. B Tank/Clearwell rehabilitation and replacement project continues.
3. Electricians completed for the Ozone unit installations.

Hunter's (Ebbett's Pass) Water Treatment Plant:

1. Operations as normal
2. Collections Crew Cleaned out the Backwash Pond
3. Monthly White Pines Dam Inspection Completed

Jenny Lind Water Treatment Plant:

1. Operations as usual

Sheep Ranch Water Treatment Plant:

1. Operations normal for the Month.

Wallace Lake Estates Well System:

1. Operations as usual

West Point Water Treatment Plant:

1. Operations as Usual.
2. The second filter is online and operating.

Wastewater Treatment Plants:

Arnold Wastewater Treatment Plant:

1. Operations as usual
2. Tested sand filter drying bed while the belt press was down for an emergency repair
3. Repaired irrigation leaks in fields #5 and #6.
4. Weekly hypo cleaning of the clarifier to control algae growth.
5. Weed-ate and cleaned the grounds.

Copper Cove Wastewater Treatment Plant:

1. Normal Operations

Copper Cove Wastewater Reclamation Plant:

1. The facility is online.
2. Worked with the mechanics to troubleshoot and repair pond 6 pumps.

Country House Wastewater Facility:

1. Operations as usual

Forest Meadows Wastewater Treatment Plant:

1. Operations as usual
2. Pulled aerator in the #6 position in Pond 2 and placed at position #1 in Pond 1 for better aeration. Put a smaller aerator in the #6 position in Pond 2.
3. Fixed broken poly transfer pump air hose.
4. Repaired the water tank supply line on the Belt Press.
5. Fixed a broken fitting on the eye-wash station.
6. On-going work with the Forest Meadows Golf Course to reduce algae in the Pond.
7. Sprayed for weeds around the ponds.

Indian Rock Vineyards Wastewater Facility:

1. Operations as usual
2. Need to determine how to provide water service to the facilities to improve system and basket cleaning.

La Contenta Wastewater Treatment Plant:

1. Operations as usual

Mountain Retreat / Sequoia Woods Wastewater Facility:

1. Operations as usual

Six Mile Wastewater Collection System:

1. Monthly reads taken and report submitted to the City of Angels Camp

Southworth Wastewater Treatment Plant:

1. Operations as usual

Vallecito / Douglas Flat Wastewater Treatment Plant:

1. Operations as usual
2. Still dealing with cows daily. Working to keep them off CCWD property.
3. Ongoing replacement of broken irrigation heads (Cows).

4. Diffuser 2 failing, limping by until we can replace Bettis with Rotork actuators (per Kubota) now diffuser 1 failing. Got replacement Rotork coming to get electricians and mechanics cranes to do both diffusers at the same time.

West Point Wastewater Treatment Plant:

1. Operations as usual
2. Consolidation project in full swing.

Wilseyville Wastewater Facility:

1. Operations as usual

Distribution:

Copperopolis Distribution System:

SERVICE LINE WORK

1. 394 Sunrise
2. 515 Indian Hill
3. 930 Foothill
4. 1788 Choctaw
5. 1642 Mono
6. 3606 Signal Hill
7. 3594 Signal Hill
8. 990 Morado
9. 794 Sequoia
10. 140 Poker Flat
11. 48 Copper Cove

MAIN LINE WORK

None during this time

Additional Work

1. 6 Valves Turned
2. Service Requests
3. Flushed 26,252 gallons.
4. USA's
5. Provided flagging for the District's paving sub-contractor to facilitate the final pave effort in a tough spot on Copper Cove Drive.

Ebbett's Pass Distribution System:

SERVICE LINE WORK

1. 1" Poly Buckthorn Dr. Forest Meadows
2. 1" Poly Canyon Ridge Ct. Forest Meadows
3. 1" Poly Sandalwood Dr. Forest Meadows
4. 1" Poly Sandalwood Dr. Forest Meadows
5. 1" Poly Bird Dog Circle Avery
6. 1" Flared Blue Poly At Corp Fairway Dr. Arnold
7. 1" Poly Lakemont Dr. Arnold (Kurtis W. On Call Repair)
8. ¾" Copper Comanche Ct. Arnold (PG&E Project)
9. ¾" Blue Poly Cheyenne Way B.T.V.

MAIN LINE WORK

1. None during this time.

Additional Work

1. Service Requests 12 Received 12 Resolved

2. Work Orders 3 Created 3 Resolved 1 Outstanding
3. USA Tickets 173 Received 173 Resolved
 - a. 49 Renew
 - b. 102 Normal
 - c. 8 Rush
 - d. 14 Emergency
4. PRV S
 - a. 8 PRV Stations Inspected
 - b. 1 PRV /CRD Repairs
5. Valves Exercised – 11
6. Ongoing system optimization adjustments and investigations in Big Trees #4 and Big trees #6 Zones.
7. Routine system maintenance and improvements
8. 2 ARV repairs. Replaced Cracked 1-inch ARV near the Big Trees State Park Tank and Repaired broken 1-inch ARV and leaking galvanized nipple on the feed line to the State Park.
9. 2nd time recently -after hours emergency response and investigation of MM #2 tank Flume Ct. low system pressure- tank not filling properly. ****this tank has no telemetry or level indicator alarms and we have no way of knowing if a problem exists until customers notify us of an issue. **** adjusted fill line PRV and altitude valve settings to compensate for irregularities.
10. Ongoing system optimization adjustments and investigations in Big Trees #4 & Big Trees #6 zones only thing working for Big Trees 6 residual issues is having drain open to cycle water. attempted to install auto flusher on tank drain for more controlled flushing but there is not enough psi to open diaphragm on flusher.
11. Routine system maintenance and improvements- Construction Crew raised and concreted 5 g5 boxes in Arnold.
12. Ongoing documenting and photo logging of PRV stations- Collin from Cla-Val spent a day logging and training us in link2valves software.
13. Logging pressure readings into MMS mapping.
14. Ongoing potholing and locating to verify infrastructure locations and GIS updates to improve incorrect district mapping** need to GPS locate entire distance from sawmill tank to Dorrington- we have no records showing multiple hydrants, valves, ARV's, and other infrastructure from this project that was only completed in the late 1990's I believe???
15. Installed air conditioner at the White Pines Barn - a free unit someone was giving away.
16. Provided updated system psi info to root cause consultants.
17. Increased tank levels at Larkspur and MM #2 tanks altitude valves for increased summer usage.
18. Participated in a USA North 811 survey and phone interview.
19. Used Sentryx to help troubleshoot and determine if customer landscape irrigation was cause of hard-to-find leak in Forest Meadows.
20. Construction Crew cleared and graded access to a leak in hard-to-reach area between Waterline rd. and Big Trees State Park.
21. Daily/ monthly vehicle inspection logs
22. Multiple USA locates and field meets associated with PG&E's underground project.
23. Field meets with the Director of Ops, the C&M Manager, and the Senior Engineer at Nowach Ct. in Big trees Village for property line easement issue.

Jenny Lind Distribution System:

SERVICE LINE WORK

1. 9105 Redman
2. 6905 Baldwin
3. 7021 Jenny Lind Rd
4. 2008 Vista Del Lago
5. 4380 Dunn
6. 8269 Sparrowk
7. 8370 Hautly

8. 6272 Cane
9. 3538 Antonovich
10. 5981 Davidson Ct
11. 8476 Stinson View
12. 5571 Baldwin
13. 2129 Partridge
14. 3258 Didier
15. 8175 O'Reilly
16. 8535 O'Reilly
17. 4988 Baldwin
18. 5549 Baldwin
19. 6242 Thornicroft
20. 2565 Danaher
21. 6901 Conner
22. 7265 Baldwin
23. 7231 Baldwin
24. 4294 Dunn
25. 7445 Westhill
26. 8713 Stinson View
27. 8789 Montero
28. 6198 Baldwin
29. 8424 O'Reilly
30. 8171 Hedgpeth
31. 8195 Siegle
32. 8150 Westhill
33. 7557 Baldwin
34. 4090 Hartvickson
35. 5816 Baldwin
36. 4325 Bartelink

MAIN LINE WORK

1. None during this time.

ADDITIONAL WORK

1. Vehicle Inspections
2. Month end reads for hydrant meters, fill stations, raw water and Lancha Plana
3. Lower end flushing for water quality
4. Tank and pump station checks
5. Line locates
6. Work orders for pressure problems, meter installations, leak checks etc.
7. Scheduled GapVax to be dropped off for a couple of days at San Andreas mechanic shop to get some work done on it.
8. Greased GapVax and cleaned water and vacuum filters.
9. Met with the C&M Manager on Dunn Rd to discuss next steps on finding and repairing long standing leak in that area.
10. Meeting regarding A to B project and where it stands
11. Meter reads for billing in the Jenny Lind area that did not automatically read through Sentryx
12. Meter reads for billing in the West Point area that did not automatically read through Sentryx
13. Interviews for the temporary distribution worker in the Jenny Lind area
14. Spent many hours over several days looking for and potholing for a service line on Friedman to be able to install a temporary meter. Could not find this service so we will be installing a new one the first week of August
15. Replaced CRD on mainline PRV at Goggin and Redman as it was not functioning properly
16. Pending service leaks to be repaired = 14
17. 2-inch Bluebell main line leaks pending repair - 4

West Point Distribution System:

SERVICE LINE WORK

1. 3" clay valve @ Willseyville pump station
2. 1" cur stop @ 130 Main Street
3. 1" wrap around @ 562 Barney Way
4. 1" wrap around @ 701 Barney way

MAIN LINE WORK

None during this period

ADDITIONAL WORK

1. Greased Pumps
2. Found and dug up valve on Iris Way
3. Set new boxes @73 A&B Main St (got ran over) installed new Nodes
4. Set new boxes @ 130 &145 Mian St (got ran over)
5. Installed 4" Ballard @ 130 & 145 Main St to prevent meter boxes getting ran over again
6. Commissioned meters and nodes with ethe help of Mike D
7. USA's throughout distribution system
8. Weekly tank checks
9. Weekly flow meter checks
10. Weekly lift station checks
11. Installed new Knox Boxes in a permanent place at WTP and at WWTP Fire Dept approved
12. Covered in Copper- helped pump LS on Lakeshore and did USAs

Electrical:

1. Troubleshoot pump #1 at the base of the dam of pond 6 at Copper Cove WWTP, pump won't run, starter was bad, only passed 40 volts through the contacts, wired pump 1 to the starter for pump #2 that was pulled for replacement, pump #1 works properly now.
2. Replaced 1 motor and some thermostats for the exhaust fans at the Sawmill pump station.
3. Used remote SCADA access to add new employees to the SCADA systems districtwide
4. Replaced a failed 96030 PLC CPU with a new 96020 CPU and reconfigured the program to accept the new CPU at Southworth WWTP.
5. Replaced a failed HydroRanger 200 transmitter for backwash pond 2A at Jenny Lind WTP after the analog output failed on the previous unit.
6. Troubleshoot and repaired the generator running at the Copper Cove raw water pump station, generator breaker was tripped, performed meter calibration in the automatic transfer switch and tested.
7. Troubleshoot pump #2 on and off problem at the Larkspur pump station, replaced microswitch, Cla-val was mechanically malfunctioning, notified mechanical crew
8. Used remote SCADA access to change a phone number in the SCADA systems districtwide after an employee received a new phone number.
9. Removed old Copper Cove WTP Ozone generator #2, installed new ozone generator and anchored it down.
10. Used remote SCADA access to work on a radio communications problem at Copper Cove lift station #7, added a time delay to the telemetry alarm.
11. Troubleshoot and repaired a Larkspur generator running problem, the main breaker had failed, purchased a refurbished unit and installed it.
12. Hooked up electrical to the new Cla-val for pump #1 at Larkspur pump station.
13. After hours troubleshoot of a radio communication failure at Copper Cove lift station #7, replaced ViPR radio and ethernet cables with new.
14. After hours emergency troubleshoot of all the Copper Cove WWTP aerators, tripped all the overloads due to a low PG&E voltage situation, had PG&E come out to adjust the regulators, (hot and busy weekend in Copperopolis draws down the voltage and we are at the end of the line at Copper Cove headworks).
15. After-hours emergency troubleshoot and repair of the Copper Cove lift station #16 generator running, power came back on, transfer switch transferred back to PG&E, initiated a pump call to test function of the wet well controls and pumps
16. Re-attached a ground clamp at a house on Kirby street in Valley Springs and closed the associated work order.

17. Troubleshoot a radio communication failure again at Copper Cove lift station #7, replaced network switch and reflashed the control program to the PLC.
18. Troubleshoot and repaired pump #1 and #3 turning on and off repeatedly at Lower Cross Country lift station, suspected rag was stuck momentarily in the ARV at that location
19. Troubleshoot and repaired a power fail alarm at Upper Cross Country lift station, tested generator and automatic transfer switch, they were good, performed meter calibration of the transfer switch
20. Repaired the auto dialer at Upper Cross Country lift station, the location greeting was recorded in the wrong area, recorded a new alarm notification and location greeting
21. Installed the last exhaust fan motor at Sawmill pump station, all fans and thermostats are now operational
22. Troubleshoot a diffuser on the MBR system at Vallecito WWTP, repaired the magnetic brake, ordered a new one for spare.
23. Performed numerous electrical system locates in the Copper Cove service area.
24. Checked the Copper Cove C-2 tank level trends, now smooth and proper after previous site visit and work.
25. Checked the Copper Cove lift station #7 telemetry communication trend, comm has been great, no more failures.
26. Added delays to more Copper Cove headworks alarms per the CPO to prevent erroneous alarm notifications.
27. Troubleshoot and repaired a radio communication failure at Copper Cove B-Tank, the PG&E secondary wire had ultimately exploded 15' in the conduit. PG&E sent a crew to pull in a new secondary. I replaced a failed 500vA UPS and blown control fuses to restore telemetry and pump functions.
28. Replaced a failed voltage selector switch with a new unit in the portable tow behind Kohler 60kw generator.
29. Ran pond 6 pumps backwards again at the request of the Copper Cove WWTP operators as an attempt to unplug the grizzly intake, additionally we helped the distribution crew to install a tap saddle so a hydrant can be used next time instead of running the pumps backward.
30. Replaced the motor starter for pump #1 at Copper Cove WWTP pond 6 with a new unit.
31. Repaired 500vA UPS I removed from the Copper Cove B-Tank pump station control panel. Installed new battery, charged unit and put it into truck #740 for future installation.
32. Added a new employee to M2web remote SCADA access system.
33. Replaced failed main battery in the Kohler 60kw tow behind generator
34. Programmed 20 vehicle voice radios with the newest program so they are ready to install in new trucks
35. Ran power and control conduits to the new ozone generators at Copper Cove WTP.
36. Troubleshoot a power fail alarm at Lower Cross-Country lift station, upon arrival, PG&E power back on and lift station working properly.
37. Researched a new voltage selector switch for the tow behind Kohler 20kw generator.
38. Inspected contractor's electrical work for the new Copper Cove lift station 15 project, had contractor install malleable condulets per our specs.
39. Helped the I.T department re-aim network antennas with the bucket truck at West Point WWTP.
40. Calibrated the High and High-High pressure switches on filter #3 at Jenny Lind WTP.
41. Pulled in the shunt trip control wires into the new ozone generator UPS at Copper Cove WTP.
42. Troubleshoot and repaired the pond 6 pumps control panel at Copper Cove WWTP after starter chatter was reported.
43. Met with a tech from Toshiba for training and warranty startup of the new ozone generator UPS at Copper Cove WTP.
44. Changed the totalizer on the filter #2 influent flow meter to KGals per the plant operator.
45. Used remote SCADA access to fix the alarm database after it crashed at the Hunter's WTP
46. Troubleshoot a diffuser malfunction at the Vallecito WWTP MBR system, we determined an operational error was made in the SCADA system.
47. Troubleshoot the exhaust fan in the Vallecito WWTP restroom, motor had failed, ordered a new one.
48. Troubleshoot a PG&E power fail at Meadowmont pump station, we determined that PG&E had the power off for system maintenance.
49. Performed a meter calibration in the automatic transfer switch at the Meadowmont pump station.
50. Troubleshoot a Vallecito lift station pump #1 failure, we determined that the old vertical turbine pump was seized, we alerted the collections supervisor.
51. We were notified that the room housing the new ozone generator UPS at Copper Cove WTP gets too hot to keep the warranty valid, we reached out to Angels heating and air to get a quote on a new split unit HVAC system.

52. Performed an assessment of the Forest Meadows golf course pond panel to see how much power is available for the installation of an aeration system to prevent odor complaints and/or an algae bloom
53. Added an hour meter to the Wilseyville pressure station fire pump control panel at the request of the distribution operator to help narrow down the location of water theft in the West Point area.
54. Emergency replacement of a failed level transducer in the Jenny Lind WTPs A-Tank after the old unit malfunctioned
55. Replaced failed 750vA UPS at Copper Cove lift station 44 after being notified by the collections crew that the old unit had failed
56. Replaced the battery in the AED at the Jenny Lind TC after the low battery alarm sounded
57. Troubleshoot and repaired a telemetry radio communication failure at Pond 4 in the Copper Cove WWTP after a power outage.
58. Troubleshoot and repaired the unit heater at the Mokelumne River pump station in West Point.
59. Serviced the wall unit HVAC system at Huckleberry lift station, cleaned filter and set the thermostat correctly.
60. Oiled the doorknob and striker at Huckleberry lift station to restore proper functionality
61. Troubleshoot the auger motor on the Arnold WWTP belt press after the operator noticed the motor kept tripping, problem was a mechanically bound auger.
62. Replaced failed exhaust fan motor in the restroom at Vallecito WWTP.
63. Troubleshoot and repaired the new motor starter for pump #1 of the pond 6 pumps at the Copper Cove WWTP, replaced failed auxiliary contacts on the starter.
64. After hours emergency troubleshoot and repair of the headworks generator not running during a power outage at the Copper Cove WWTP, jump started and transferred, mechanical staff replaced failed batteries in the generator.
65. After hours emergency troubleshoot and repair of the effluent pumps not running at the Copper Cove WTP after a power outage, reset faults in the VFDs.
66. After hours emergency troubleshoot and repair of the pumps not running at the B-Tank pump station in Copperopolis after a power outage, reset the soft starter to clear faults.
67. Troubleshoot and repaired erroneous alarm buttons on the SCADA 1 machine main screen at La Contenta WWTP, used remote SCADA access to make the repair.
68. Pulled power and control wire to the ozone generators at Copper Cove WTP, made terminations.
69. Used remote SCADA to check the mechanical staff call out order at the Copper Cove WTP per a request from the mechanical supervisor.

Collections:

1. Monthly SSO online reporting completed
2. Weekly lift station inspections completed
3. Monthly Vehicle inspections completed
4. Continued checking USA's district wide
5. Monthly dry can inspections completed
6. Checked grease traps in Copper.
7. Called to 89 Mill creek circle. Septic tank sanitary T was plugged up.
8. Checked grease traps in La Contenta and West Point.
9. Checked grease traps in Arnold.
10. Worked on USA for underground electric on Hartvickson.
11. Pumped and cleaned back wash ponds at Jenny Lind WTP.
12. Pulled pump 1 at LS 2 in Copper and de-ragged it.
13. Wrapped up Copper grease traps due to vehicles blocking access.
14. MME camera demo at main office.
15. Called out to 433 Paseo Verde due odor complaint. No issues found other than excessive heat.
16. Pumped and cleaned Mill Woods Lift Station.
17. Called out to upper and Lower Cross Country LS's due to power issues and floats failures at Lower Cross-Country LS.
18. Pumped and cleaned West Point LS.
19. Remarkd USA for underground electric in Hartvickson and Grouse.
20. Started checking septic tanks in Mill Woods.
21. Assisted Mazingo with tie in at LS 18.

22. Continued checking septic tanks in Mill Woods.
23. Called to 9054 Cliff Ct. septic alarm. Replaced pump and low-level float.
24. Continued septic tank inspections in Mill Woods.
25. Pumped and cleaned the new wet well at Lift Station 18 after tie in.
26. Called to 2663 Pine Dr. customers pump had gone out.
27. Called out to Lift Station 6 due to Mozingo's bypass pump failure and auto dialer not responding.
28. Repaired broken effluent line at 1290 Skunk ranch road septic system.
29. Worked with Mozingo on clean up and getting LS 6 back up and running.
30. Called to 101 Mill Creek Circle. Septic backup into house. Customer has issues on their side.
31. Pumped and cleaned Lift Station's 1&2 in Arnold. Yearly maintenance.
32. Picked up rebuilt pump for Upper Cross-Country LS.
33. Continued pumping septic tanks in Vallecito.
34. Continued septic tanks in Vallecito.
35. Pumped back wash pond at Hunters WTP.
36. Called out to 649 Sugar Bush manhole in easement was spilling due to roots and rags.
37. Flushed main line below fire department in West Point.
38. Greased all pump bearings that require it. (Yearly maintenance)
39. Pulled and cleaned pumps at Lift Station 14 in Copper.
40. Called to 216 Quail Creek Terrance due to plumber snaking rock into CCWD line. Had to hydro flush the main line to clear debris and blockage.

Construction:

1. Supported all Distribution Crews on leak repair efforts District-wide.
2. Supported the Collections Crew with the completion of work efforts District-wide.
3. Completed the rehabilitation of the road to our Indian Rock Wastewater Treatment Plants. FEMA funded.
4. Raised G-5 valve boxes for the Ebbetts Pass Distribution Crew
5. Fixed a hydraulic leak on the Bobcat Skid Steer.
6. Washed and greased equipment and the Kenworth in Vallecito.
7. Met with the C&M Manager and the property owner at the Slurry line to discuss the installation of the customer's new meter.
8. Delivered the equipment trailer to the San Andreas Shop for repair.
9. Worked with the Ebbetts Pass Distribution Crew on the ARV repairs on Waterline Road for the State Park.
10. Began cleaning the sludge out of Pond 4 in Copperopolis
11. Moved equipment to and from the Shop and different service areas to facilitate work tasks.

Mechanical:

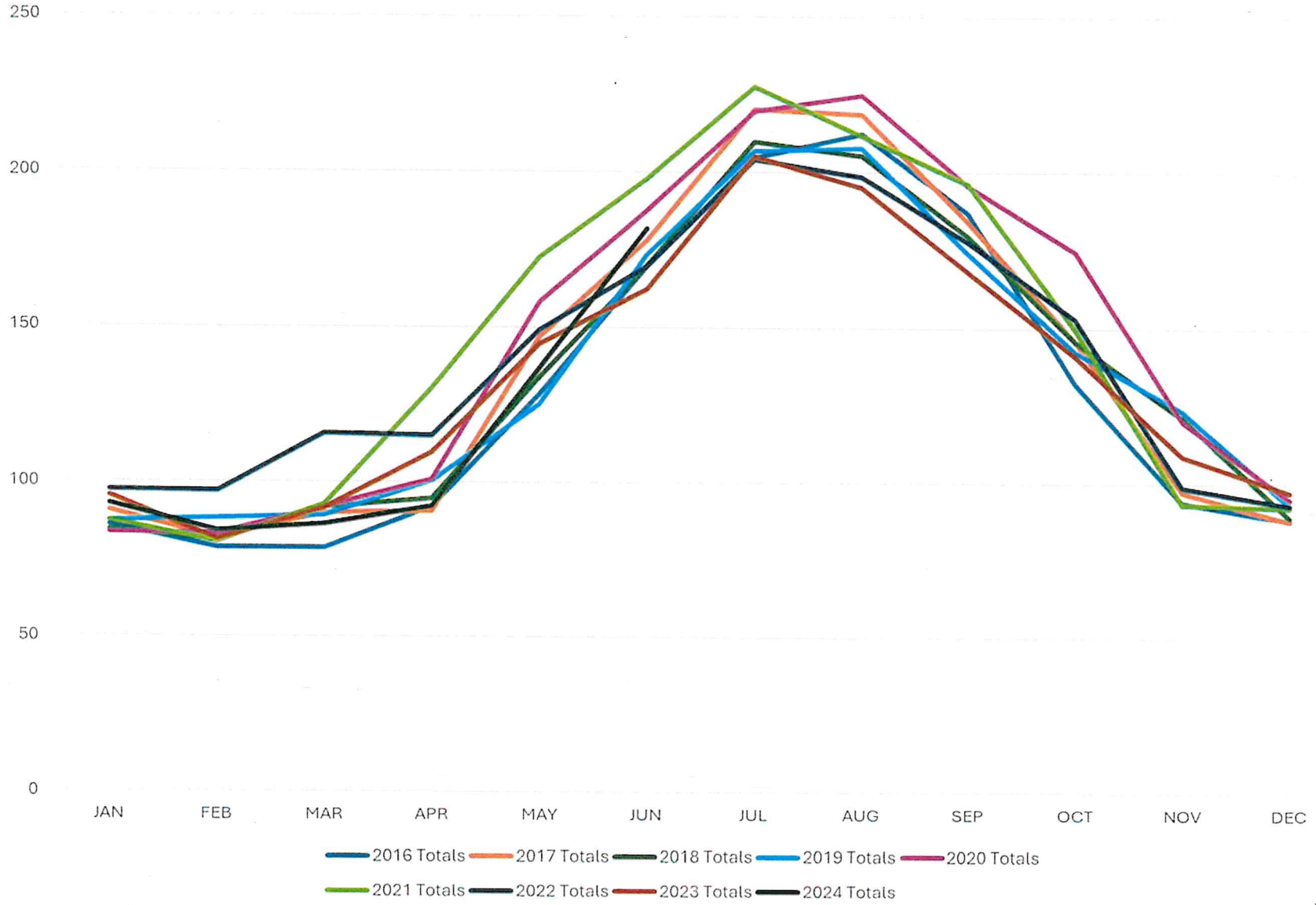
1. District-wide generator checks.
2. Diagnosed Pond 6 return pump station pump 1 fail to start at the Copper WWTP – electrical problem in the starter.
3. Replaced a bad mechanical seal on pump 2 and rebuilt the pump at the Copper Cove WWTPs Pond 6 return pump station.
4. Used one of our truck cranes to install a rebuilt aerator in Pond 4 at the Copper Cove WWTP.
5. Replaced the radiator in the B Tank Pump Station generator in Copperopolis.
6. Replaced a failed cla-val at the Larkspur treated water Pump Station in Forest Meadows.
7. Diagnosed a steering malfunction on the small pumper truck. Found fluid dirty. Replaced fluid and filter and placed back in service.
8. Installed a new fuel injection pump, cooling pack, and front engine cover on backhoe B-04.
9. Diagnosed Veh 592 (2011 F350) engine and air bag lights on in the dash. Replaced the clock spring in the steering wheel and the MAP sensor in the engine. Placed back in service.
10. Worked with IT to place the CnC plasma table back into service.

11. Serviced Veh 538 (2012 F350) and diagnosed the engine light in the dash. Replaced back-pressure sensor and the crank case filter. Also replacing the DEF tank header and pump for emission faults.
12. Veh 126 (2004 VacCon) Replaced the rear tank lid's hydraulic ram, replaced the brake pedal's air valve, replaced the leaking cab air bags, and leaking rear brake line.
13. Completed 90-day BIT inspection on Veh 736 (International GapVax). Also replaced the rear hub seal, backup alarm, high – pressure water system control valve, and rear tires. Fixed the windshield washer nozzle and reset the rear tank to truck seal for the rear tank.
14. Mounted and balanced tires on Veh's 739, 728, 733, and 131 ('20 Ford Ranger, '19 F-350, '19 Ford Ranger, and '06 Chevy Silverado respectively).
15. Re-wired Veh 612 (2005 F350) to pull new vac trailer to West Point.

Utility:

1. Continued service line replacements along Baldwin Road in Jenny Lind.
2. Assisted the La Contenta Crew with leak repairs.
3. Moved a Service impacted by storm drain outfall on Mono Court in Copperopolis.
4. Received training on the new Vac-Trailer.
5. Assisted Copper crew with leak repair and backfill/finish grade efforts in Poker Flat

Water Production District Wide Million Gallons



Active Service Request This Month

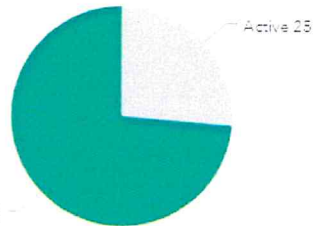
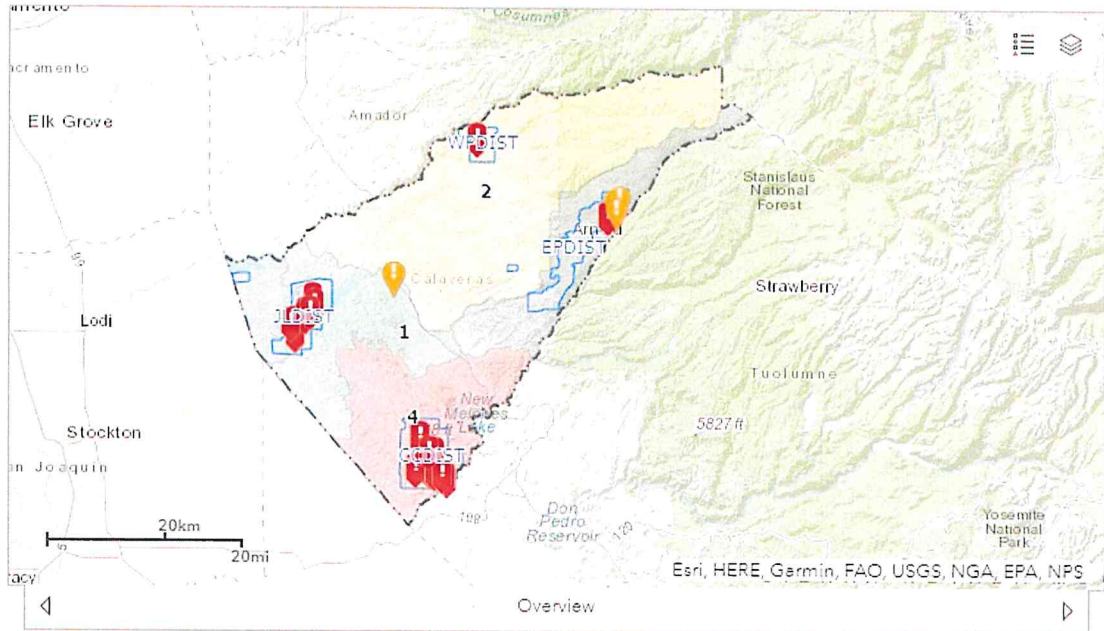
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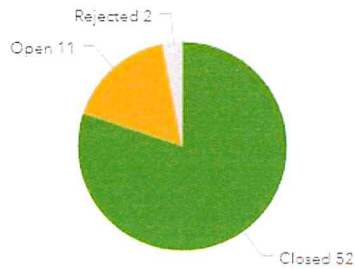
Open Work Orders This Month

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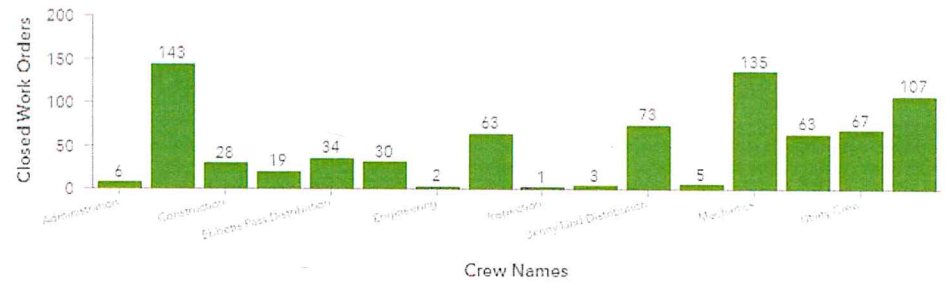
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Service Request: Totals by Month

Service Requests By Category This Year

Leak Check By Month

Work Orders This Year by Crew

Open Work Orders This Month By Crew

Work Orders This Year by Type

Active Service Request This Month

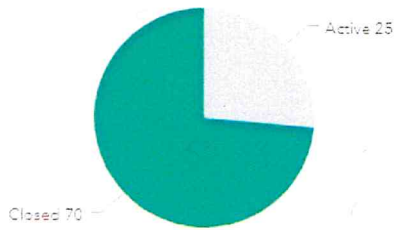
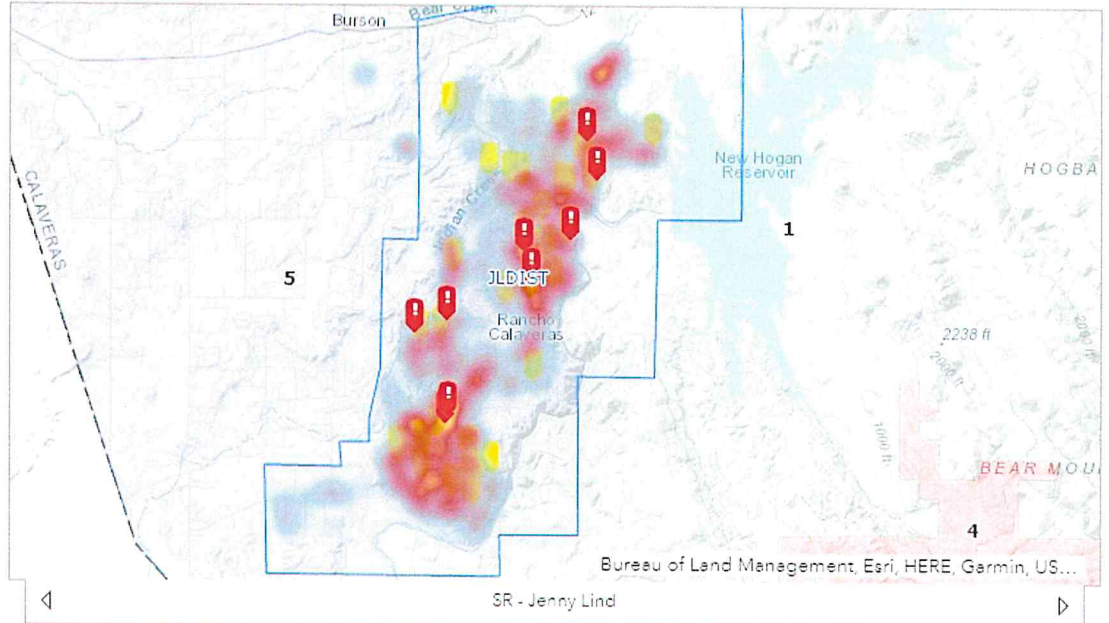
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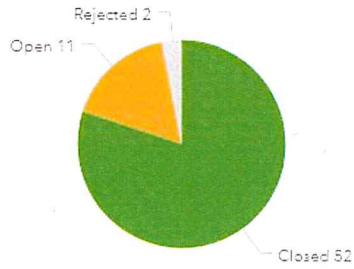
Open Work Orders This Month

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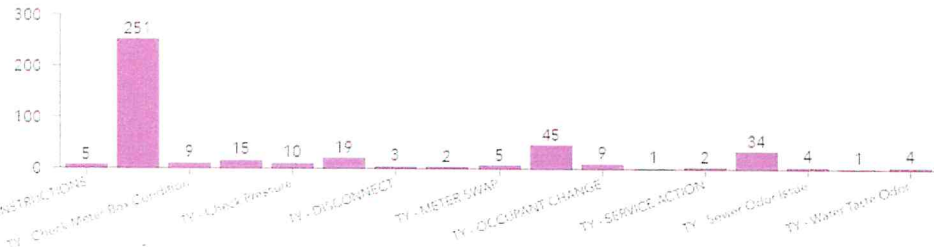
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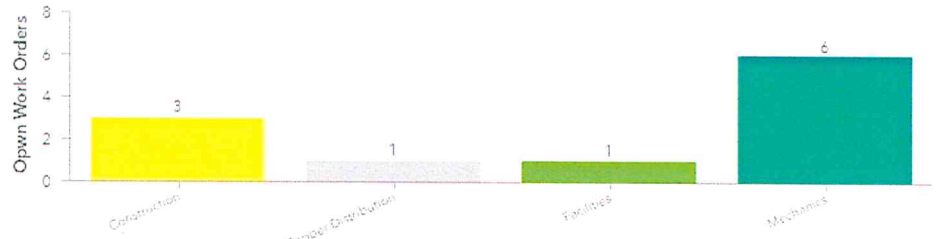


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Service Requests by Category This Year

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Open Work Orders This Month By Crew

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Service Request Totals by Month

Service Requests By Category This Year

Leak Check By Month

Work Orders This Year by Crew

Open Work Orders This Month By Crew

Work Orders This Year by Type

Active Service Request This Month

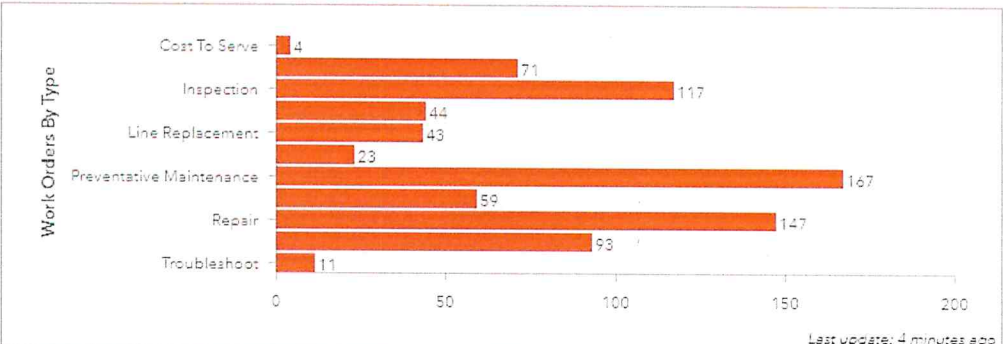
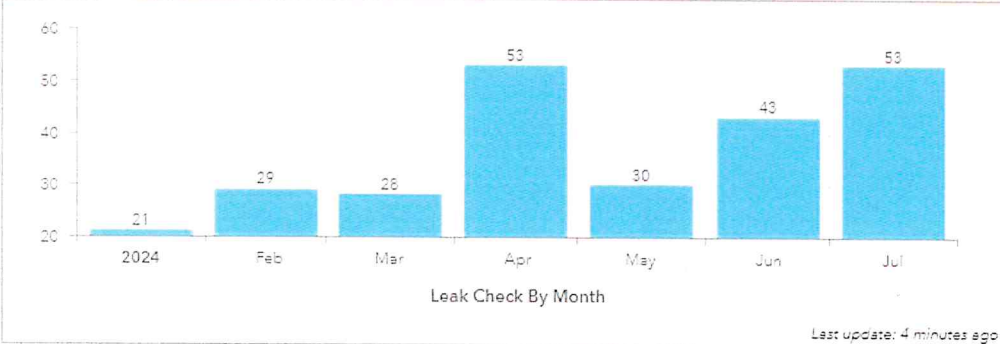
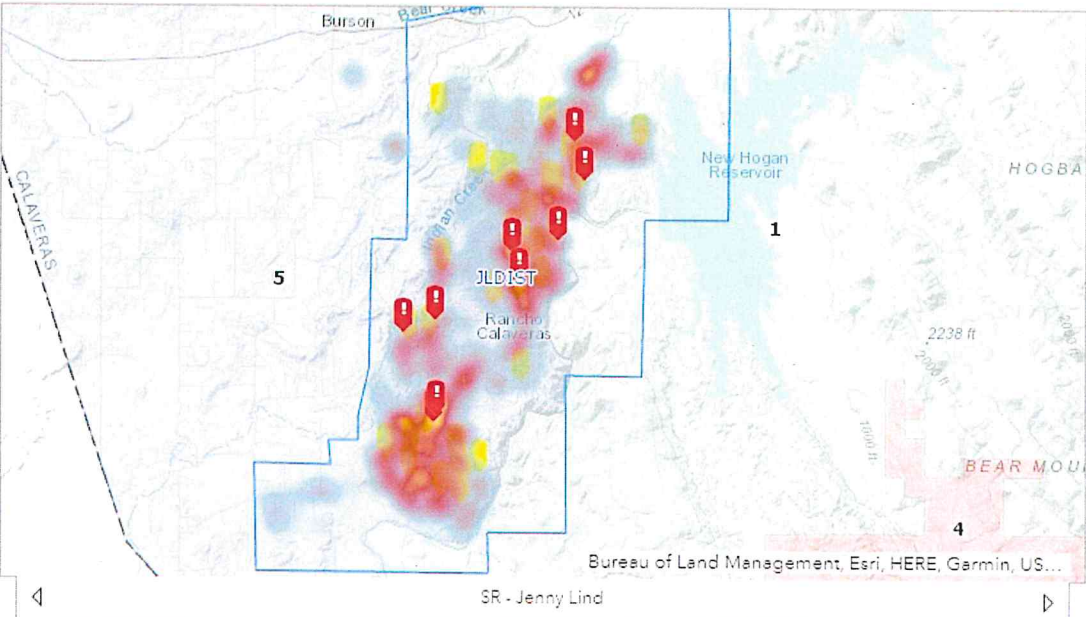
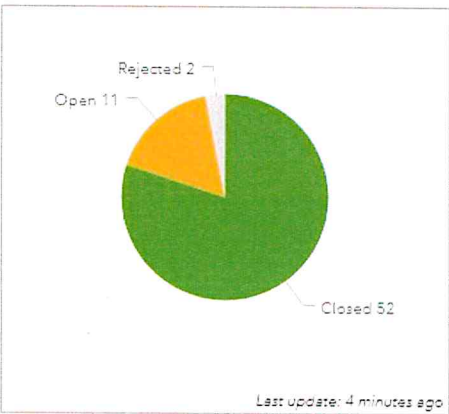
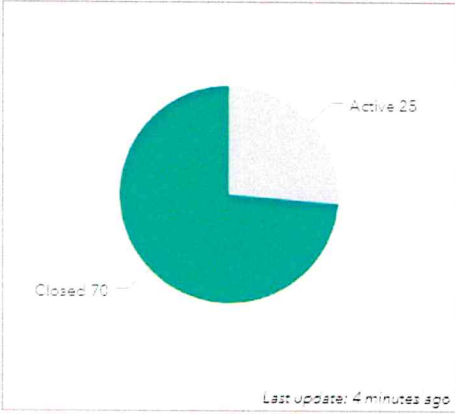
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Open Work Orders This Month

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Service Request Totals by Month

Service Requests By Category This Year

Leak Check By Month

Work Orders This Year by Crew

Open Work Orders This Month By Crew

Work Orders This Year by Type

Active Service Request This Month

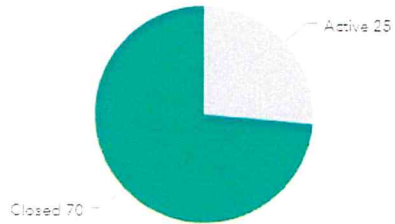
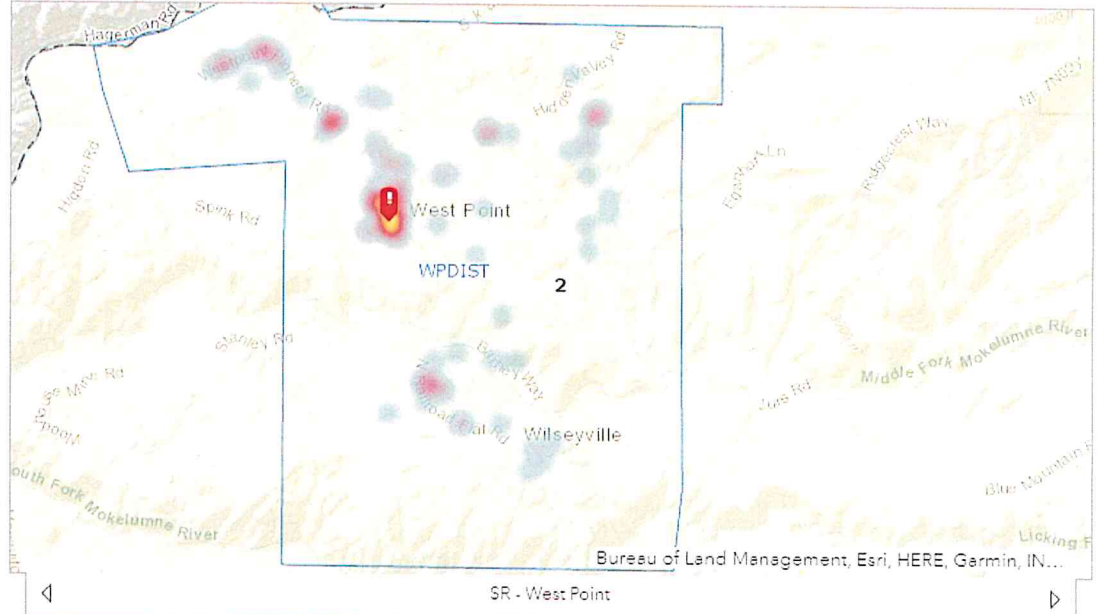
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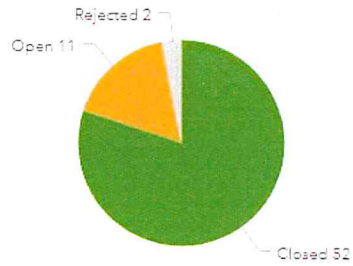
Open Work Orders This Month

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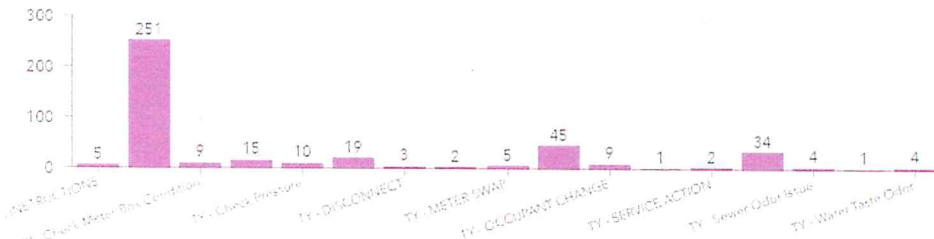
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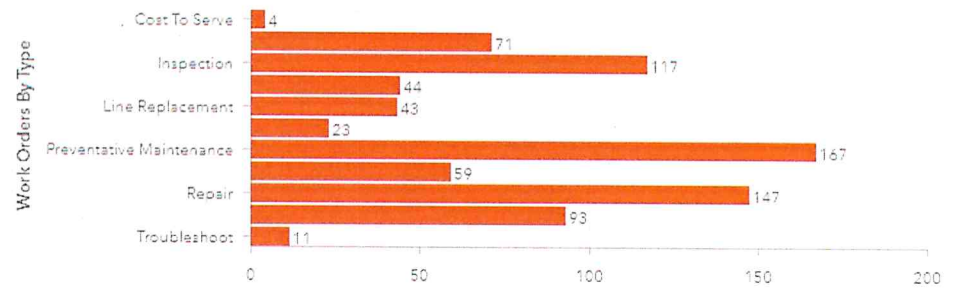


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Service Requests by Category This Year

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Work Orders This Year by Crew

Open Work Orders This Month By Crew

Work Orders This Year by Type

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Service Request Totals by Month

Service Requests By Category This Year

Leak Check By Month

Active Service Request This Month

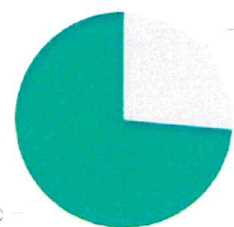
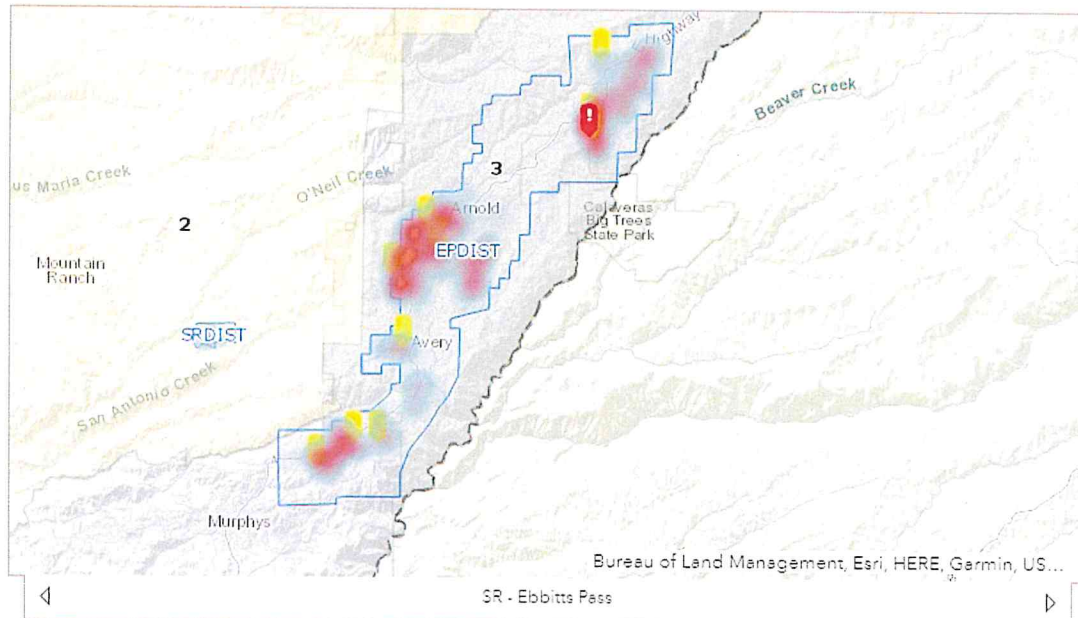
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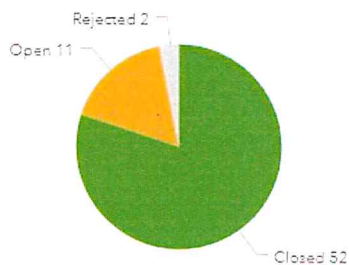
Open Work Orders This Month

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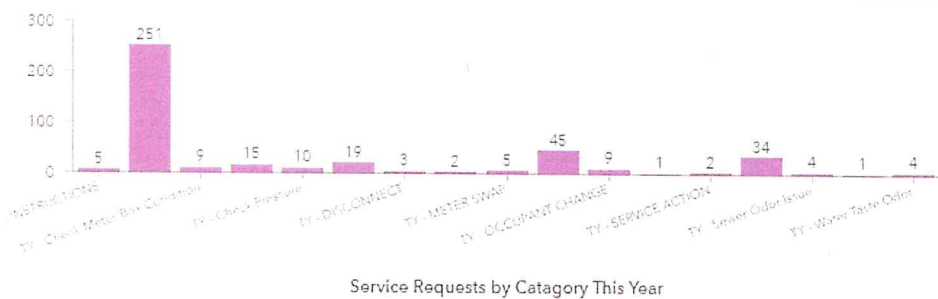
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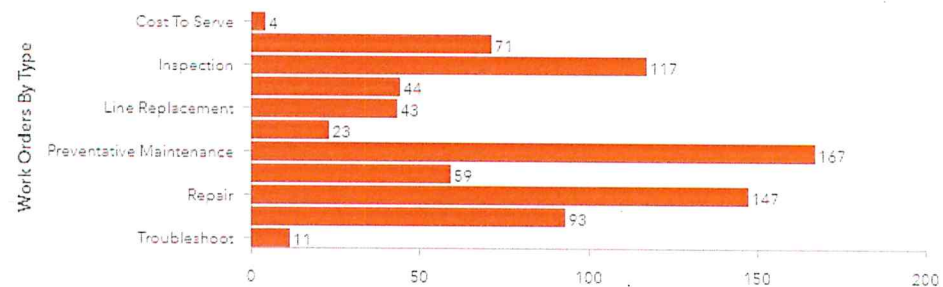


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Service Requests by Category This Year

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Work Orders This Year by Crew

Open Work Orders This Month By Crew

Work Orders This Year by Type

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Service Request Totals by Month

Service Requests By Category This Year

Leak Check By Month

Active Service Request This Month

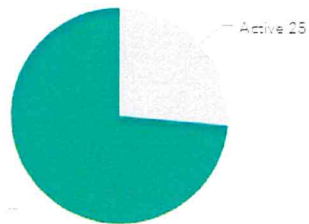
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Open Work Orders This Month

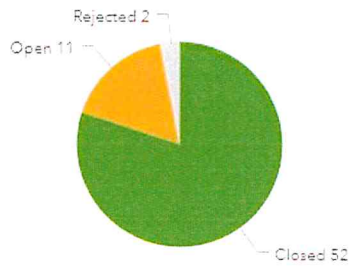
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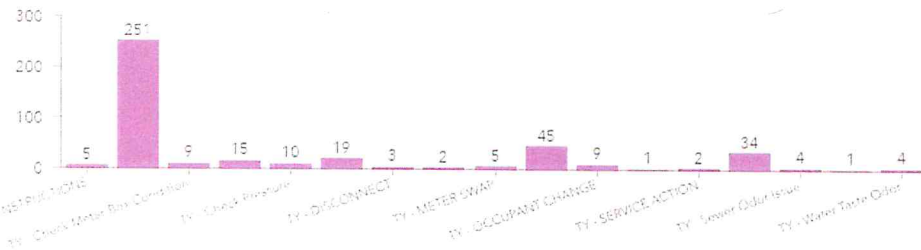
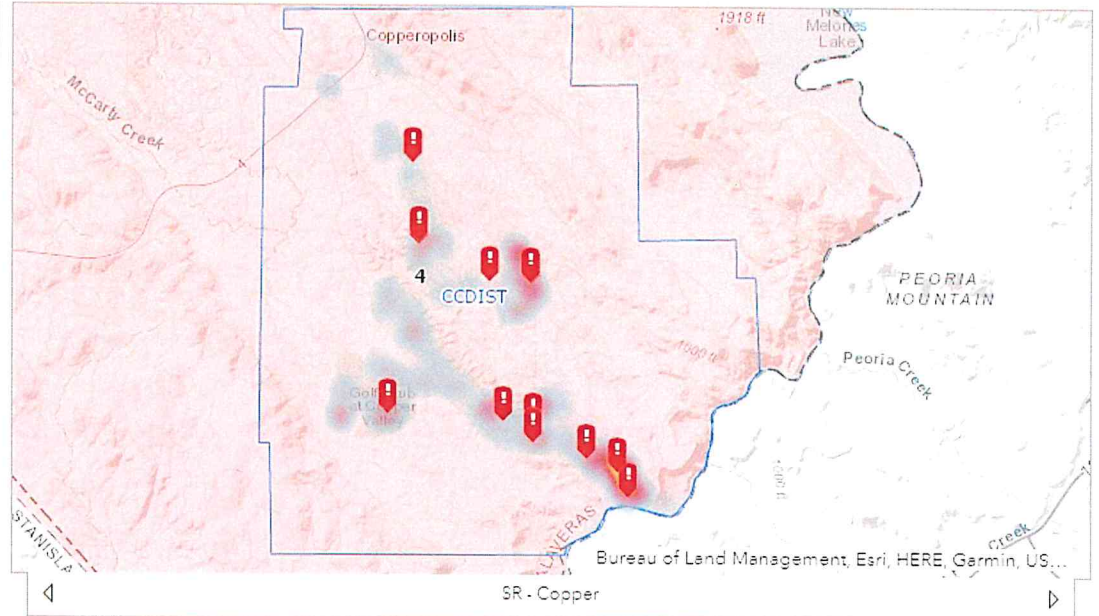


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Open 11

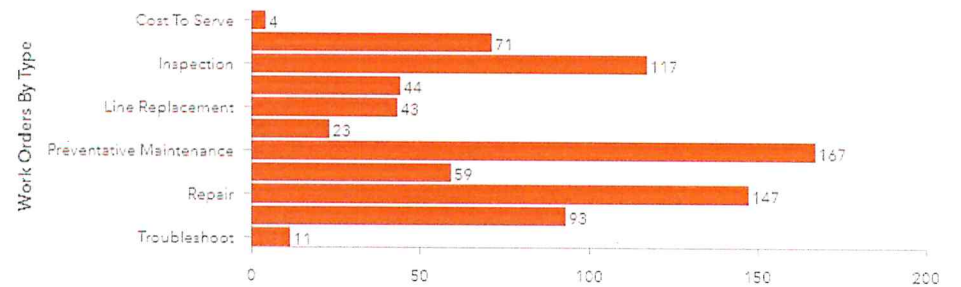
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Service Requests by Category This Year

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Work Orders This Year by Crew

Open Work Orders This Month By Crew

Work Orders This Year by Type

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Service Request Totals by Month

Service Requests By Category This Year

Leak Check By Month

Active Service Request This Month

25

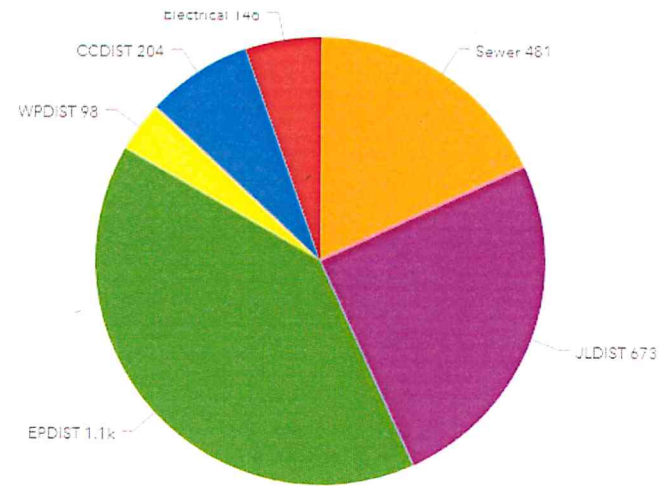
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Open Work Orders This Month

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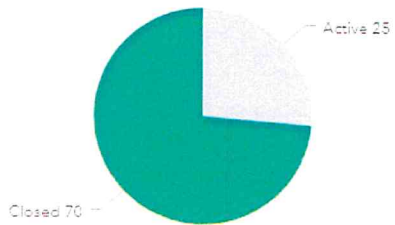
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USA Tickets This Year By Group

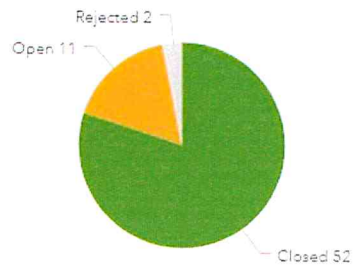


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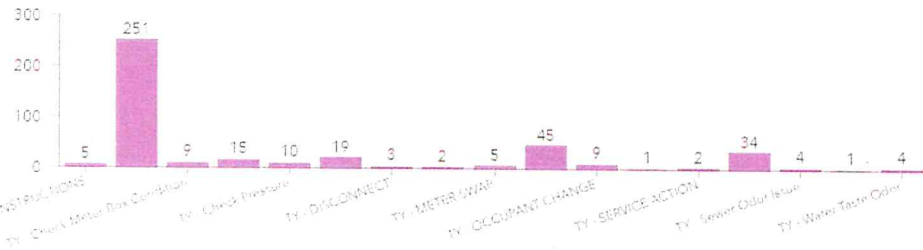
USA Tickets



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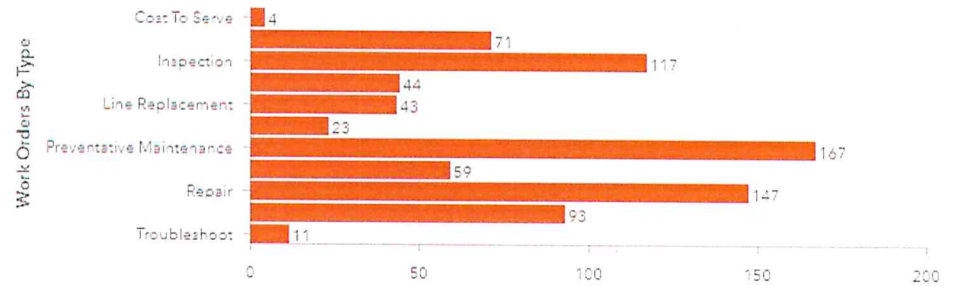


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Service Requests by Category This Year

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Last update: 10 minutes ago

Service Request Totals by Month

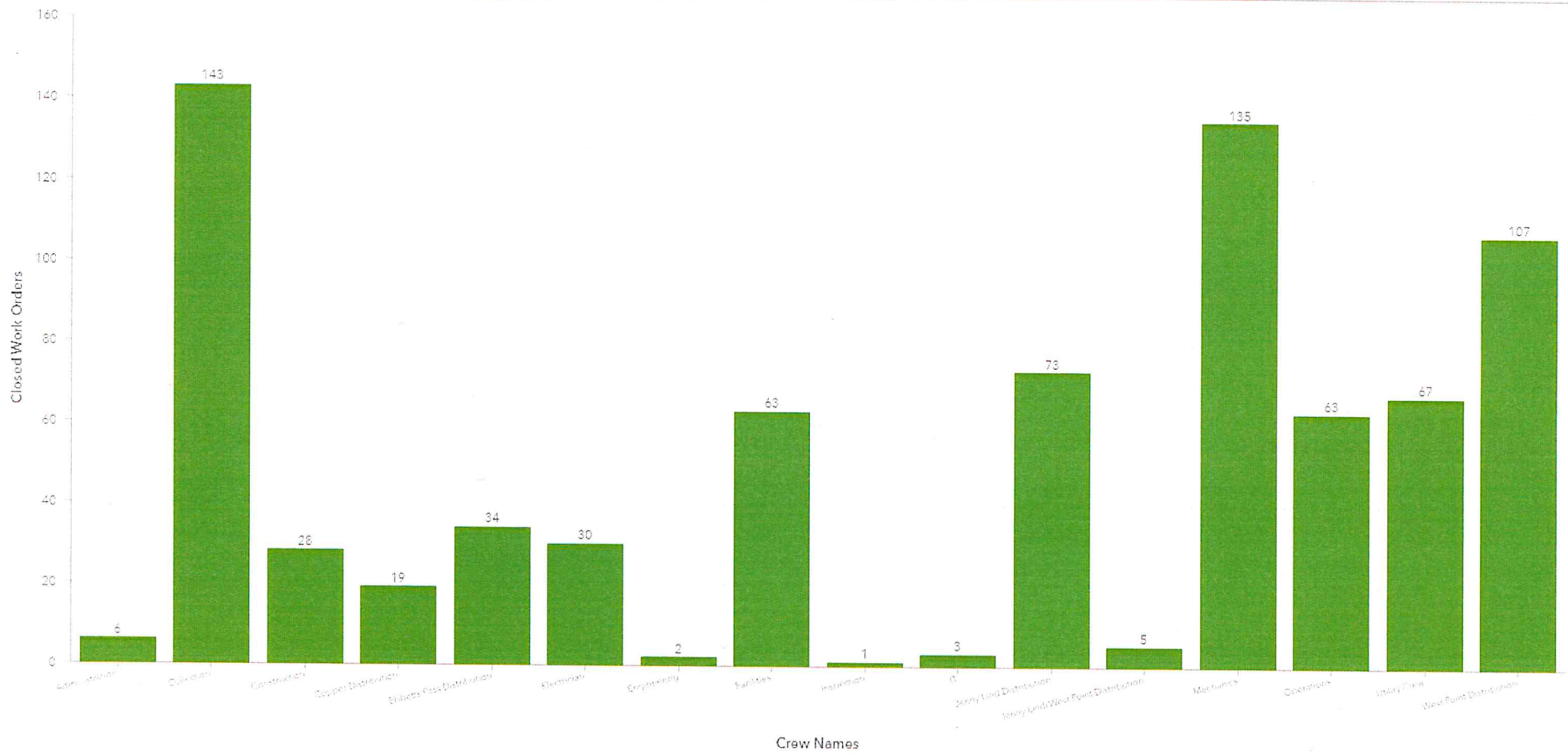
Service Requests By Category This Year

Leak Check By Month

Work Orders This Year by Crew

Open Work Orders This Month By Crew

Work Orders This Year by Type

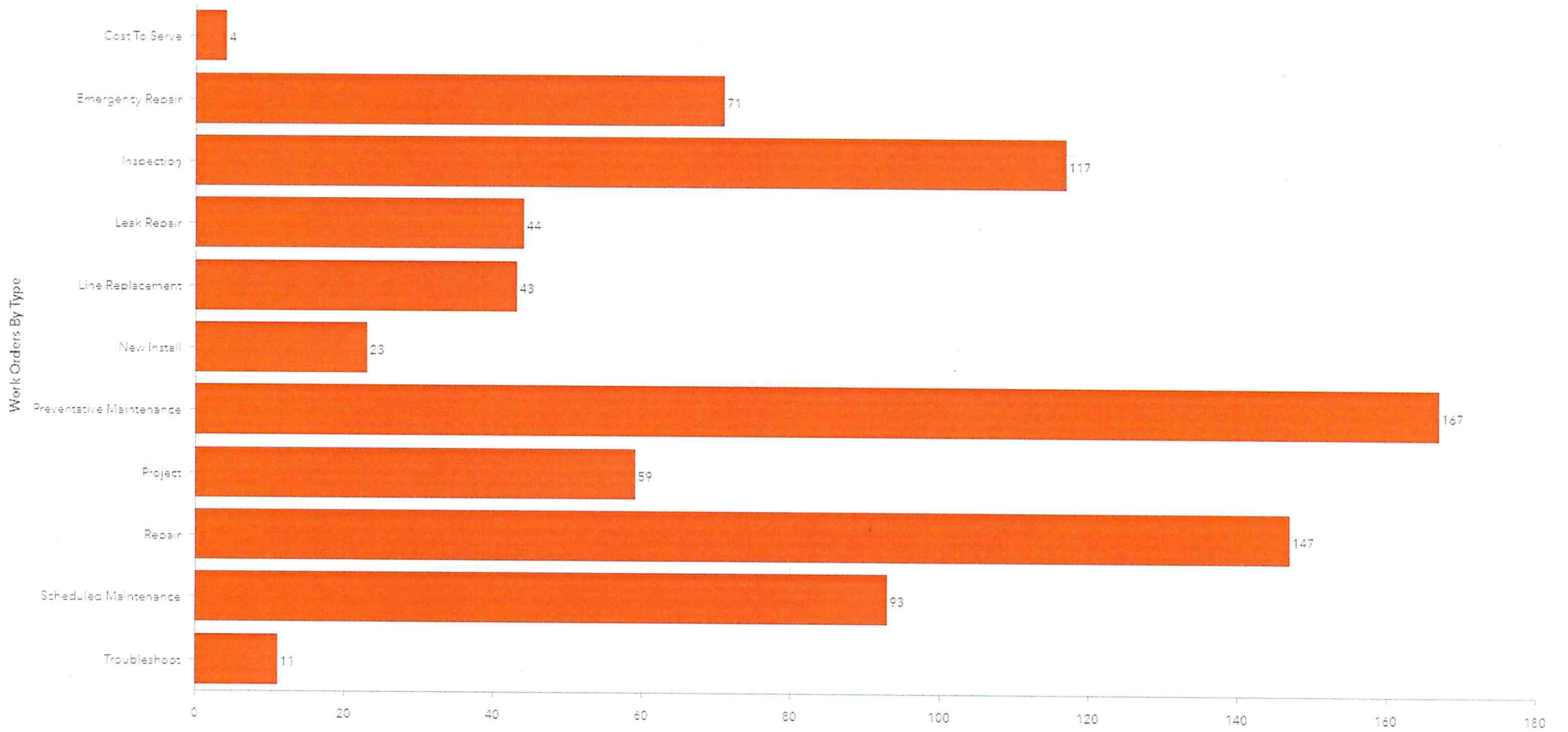


Work Orders This Year by Crew

Open Work Orders This Month By Crew

Work Orders This Year by Type

Last update: 12 minutes ago

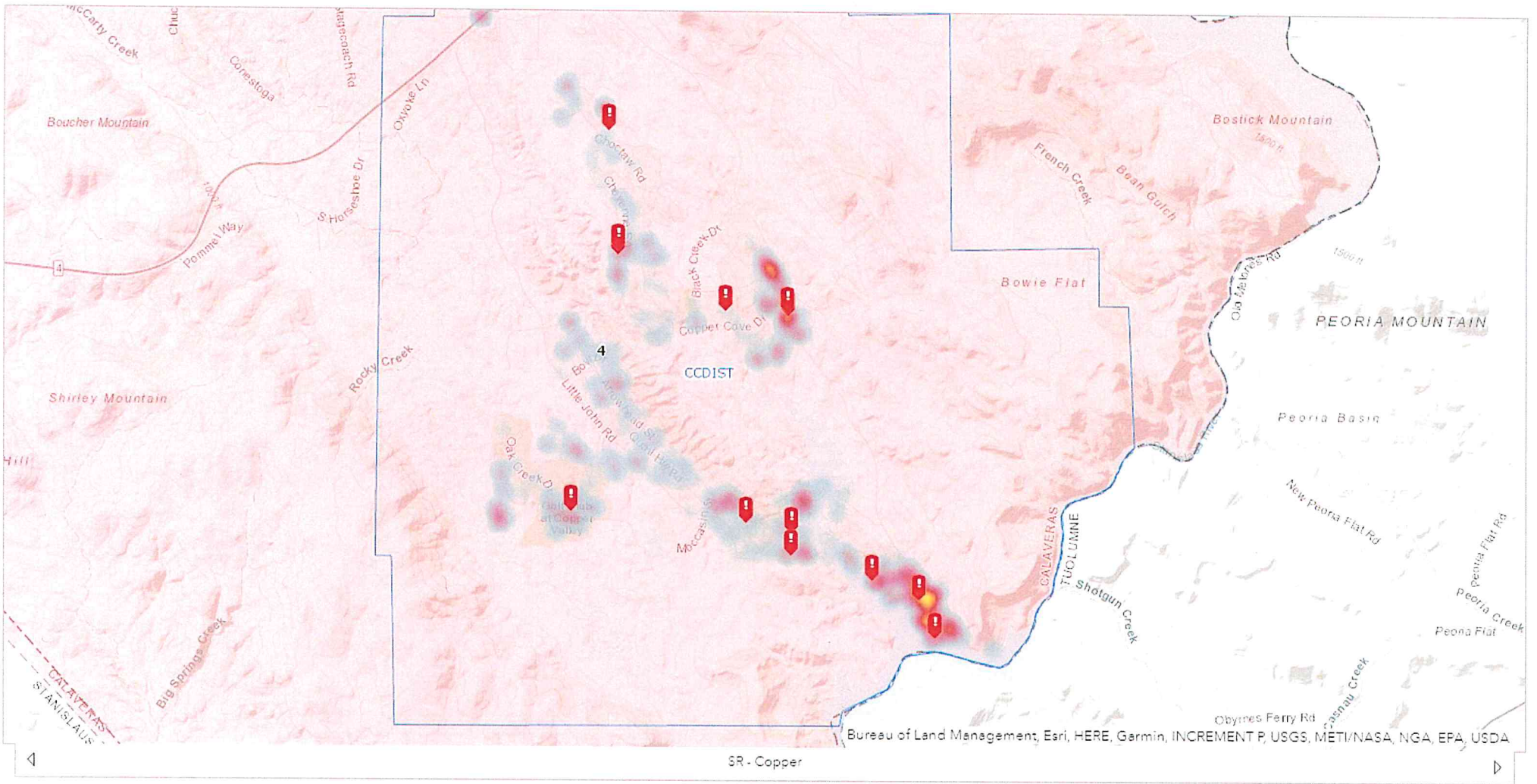


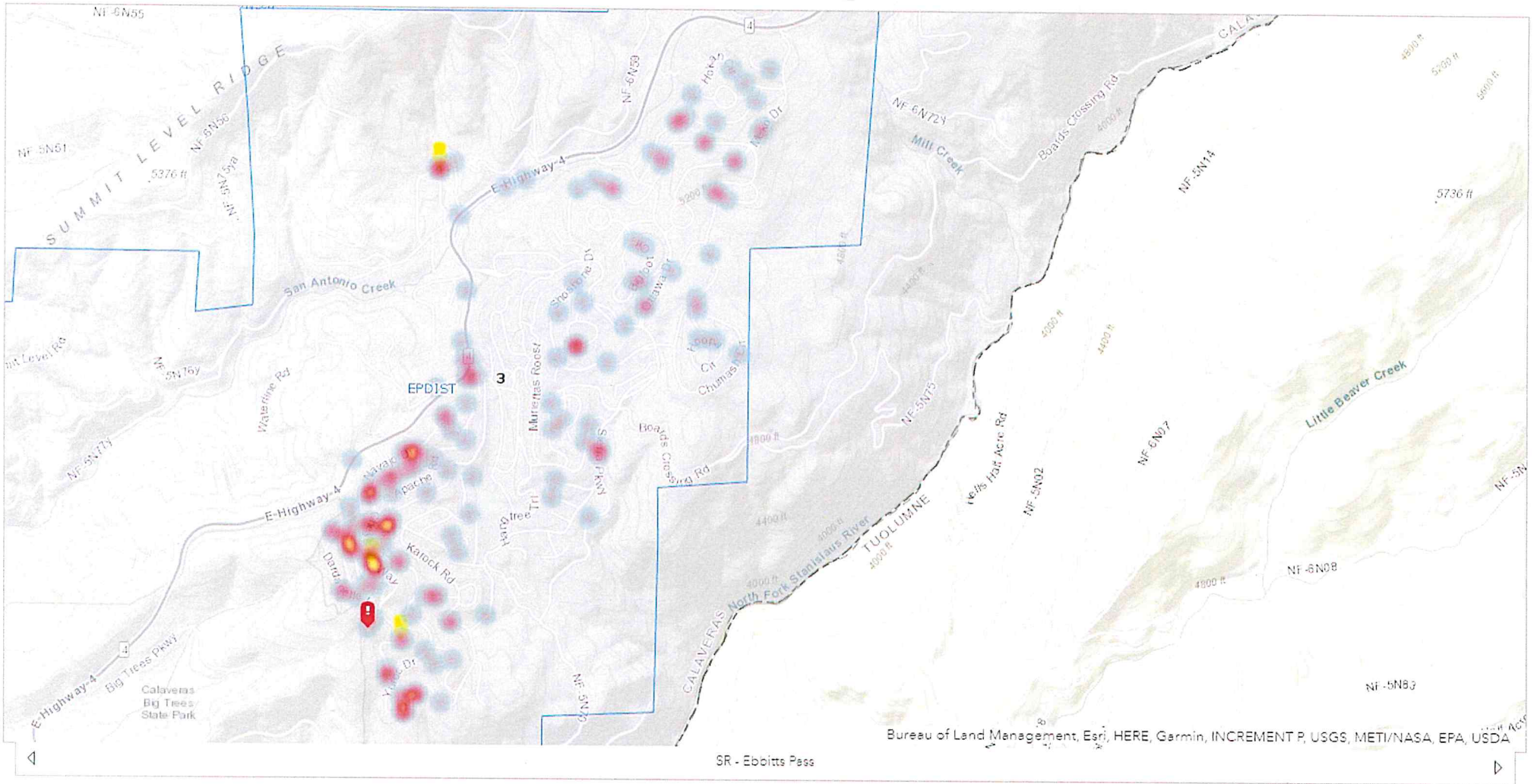
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Work Orders This Year by Crew

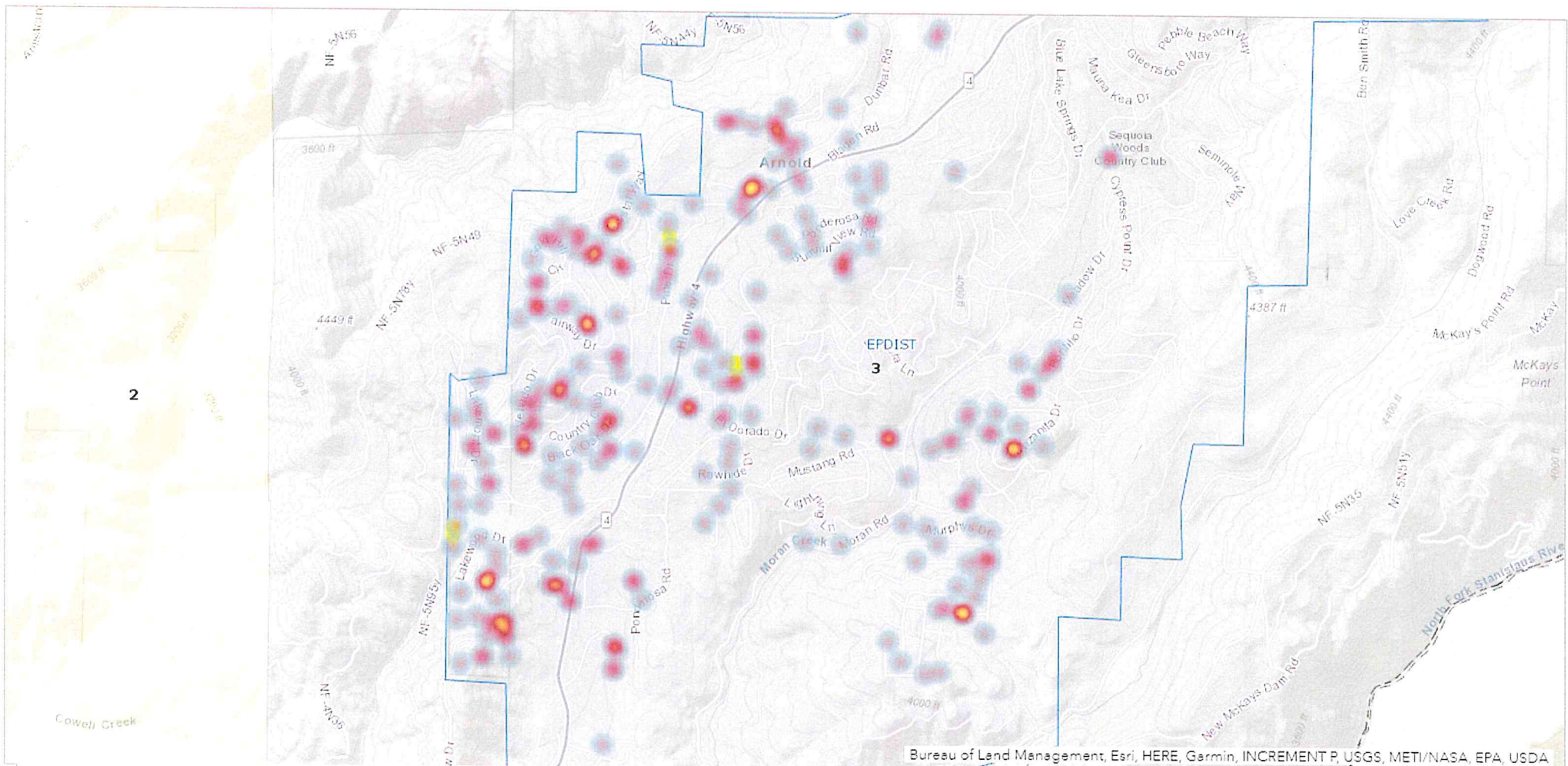
Open Work Orders This Month By Crew

Work Orders This Year by Type

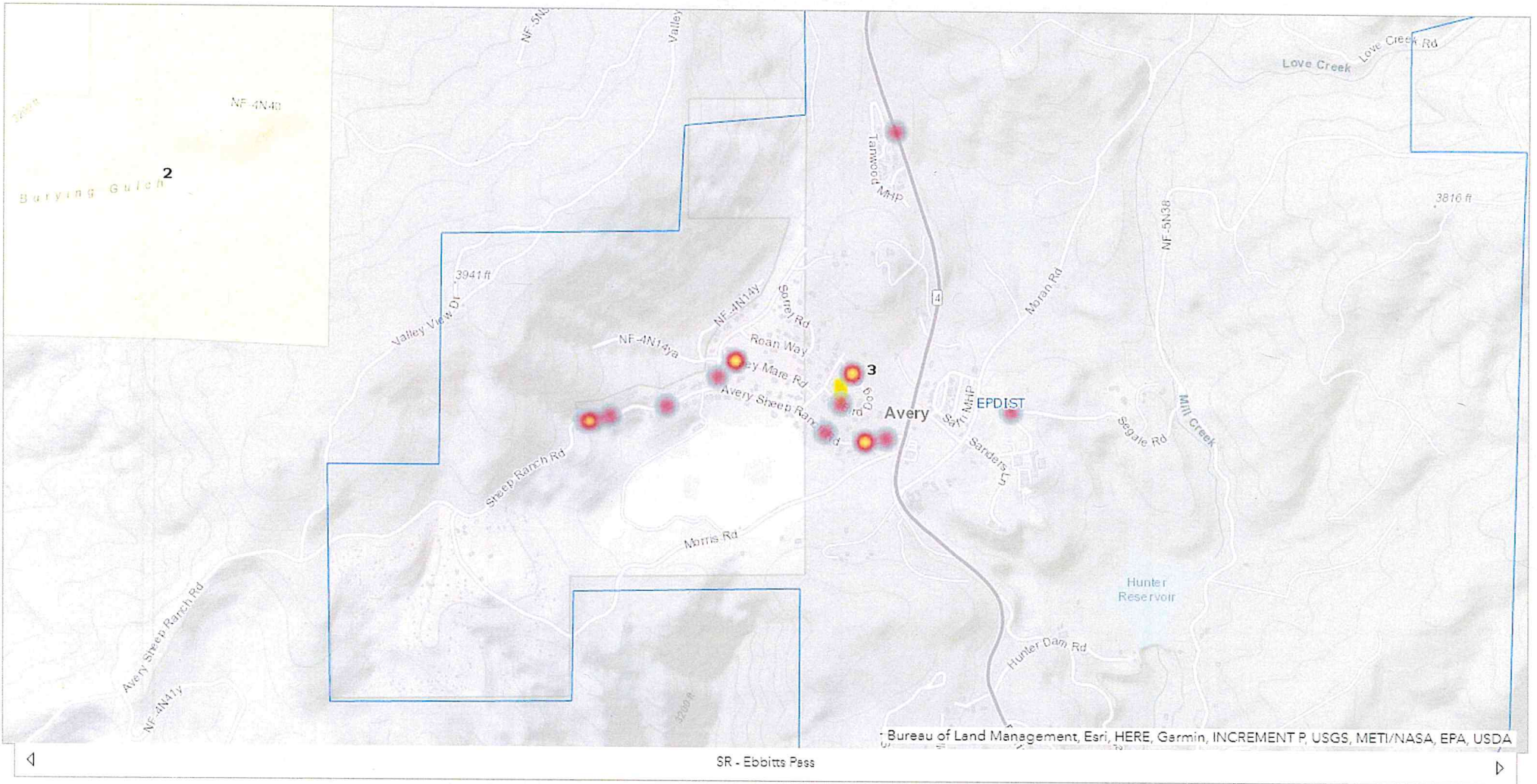


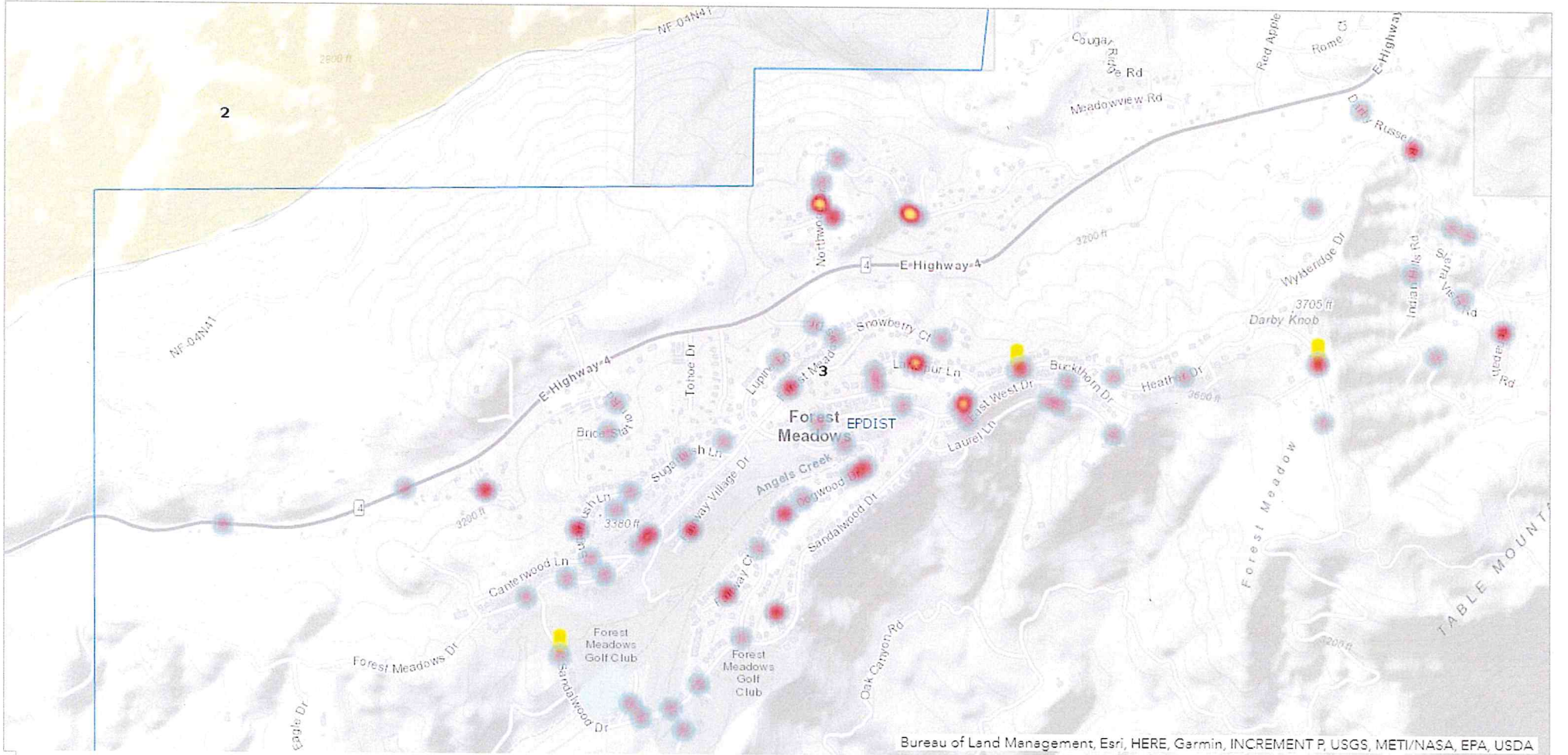


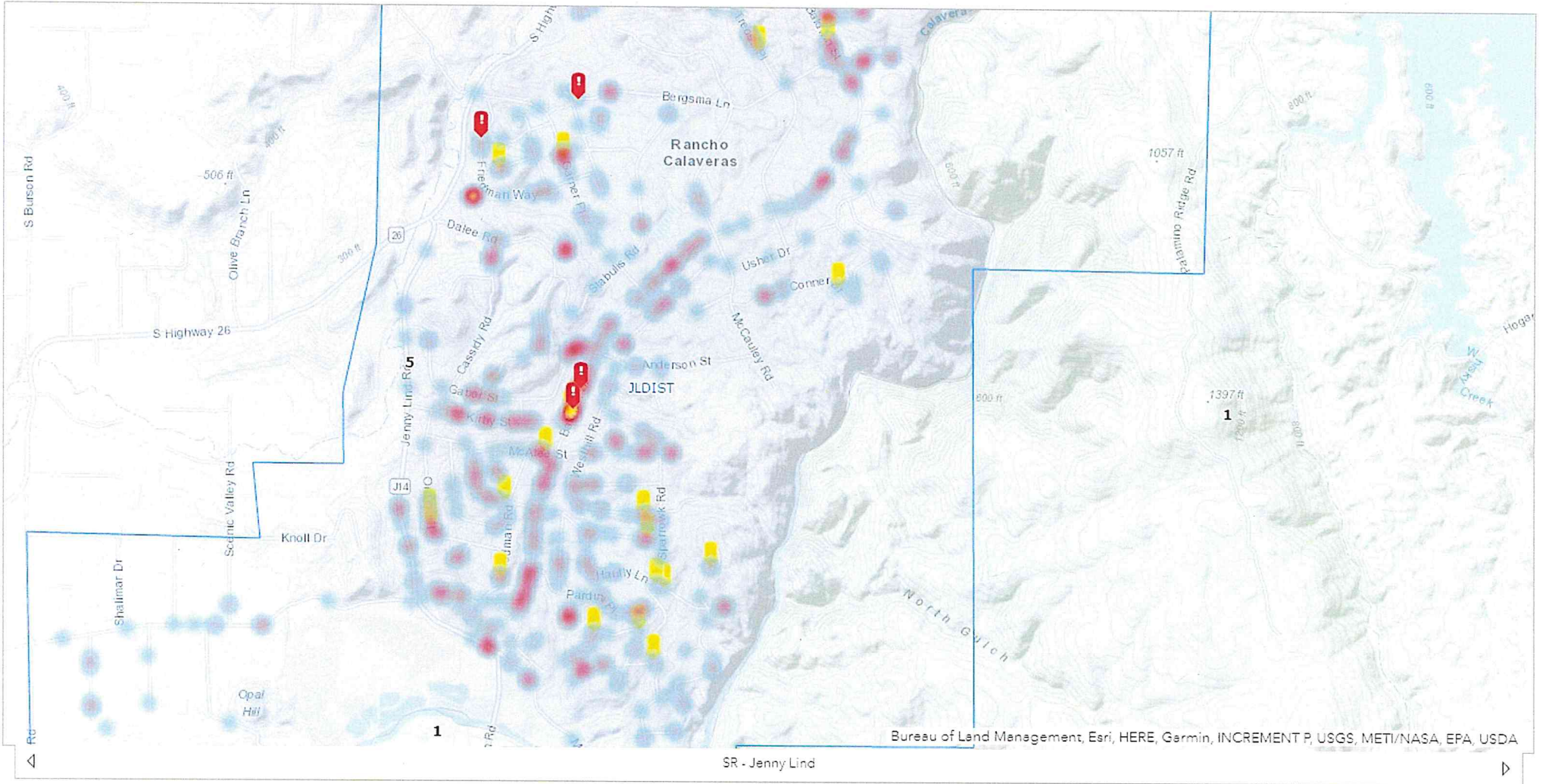
Bureau of Land Management, Esri, HERE, Garmin, INCREMENT P, USGS, METI/NASA, EPA, USDA



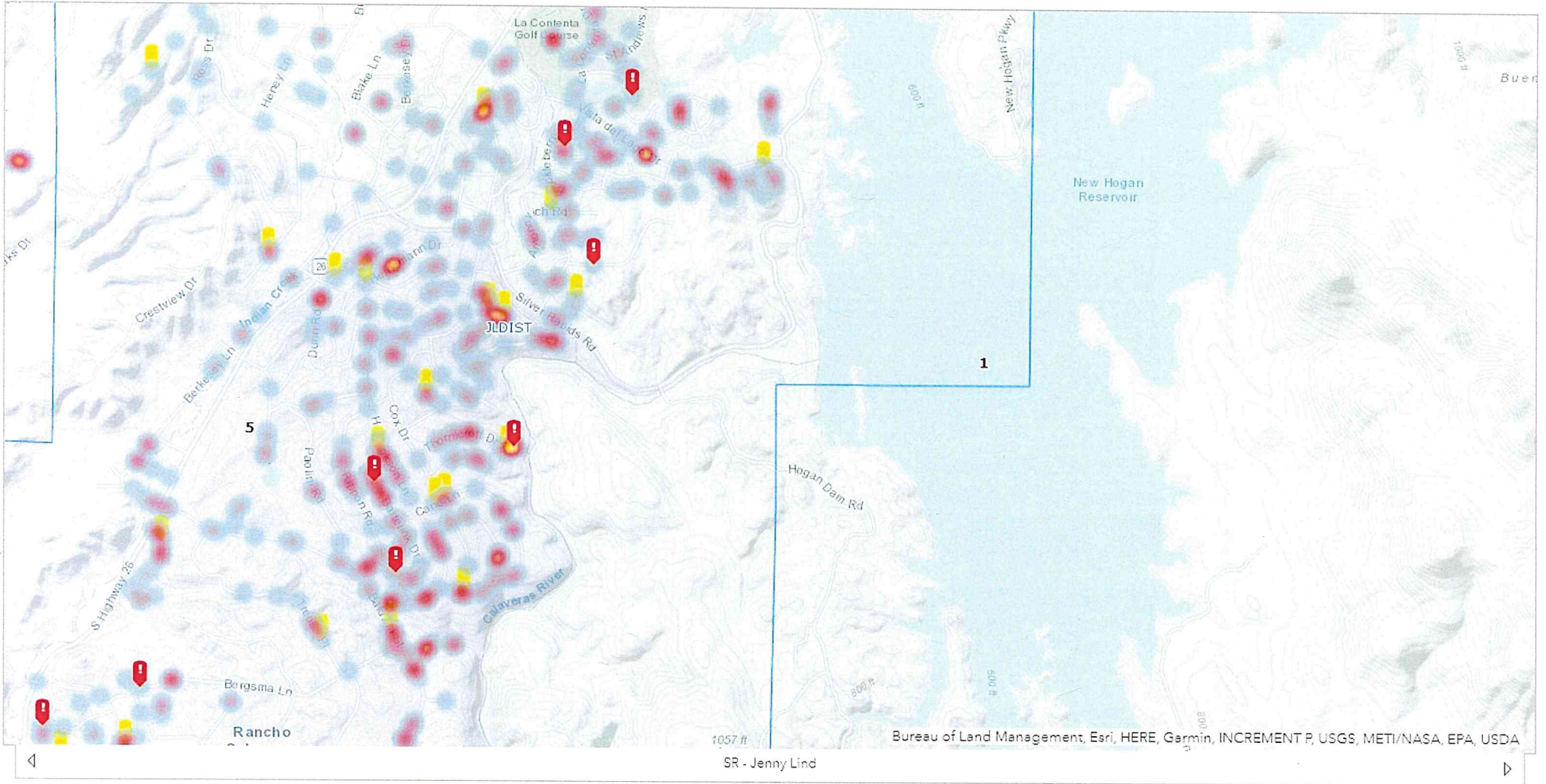
SR - Ebbetts Pass

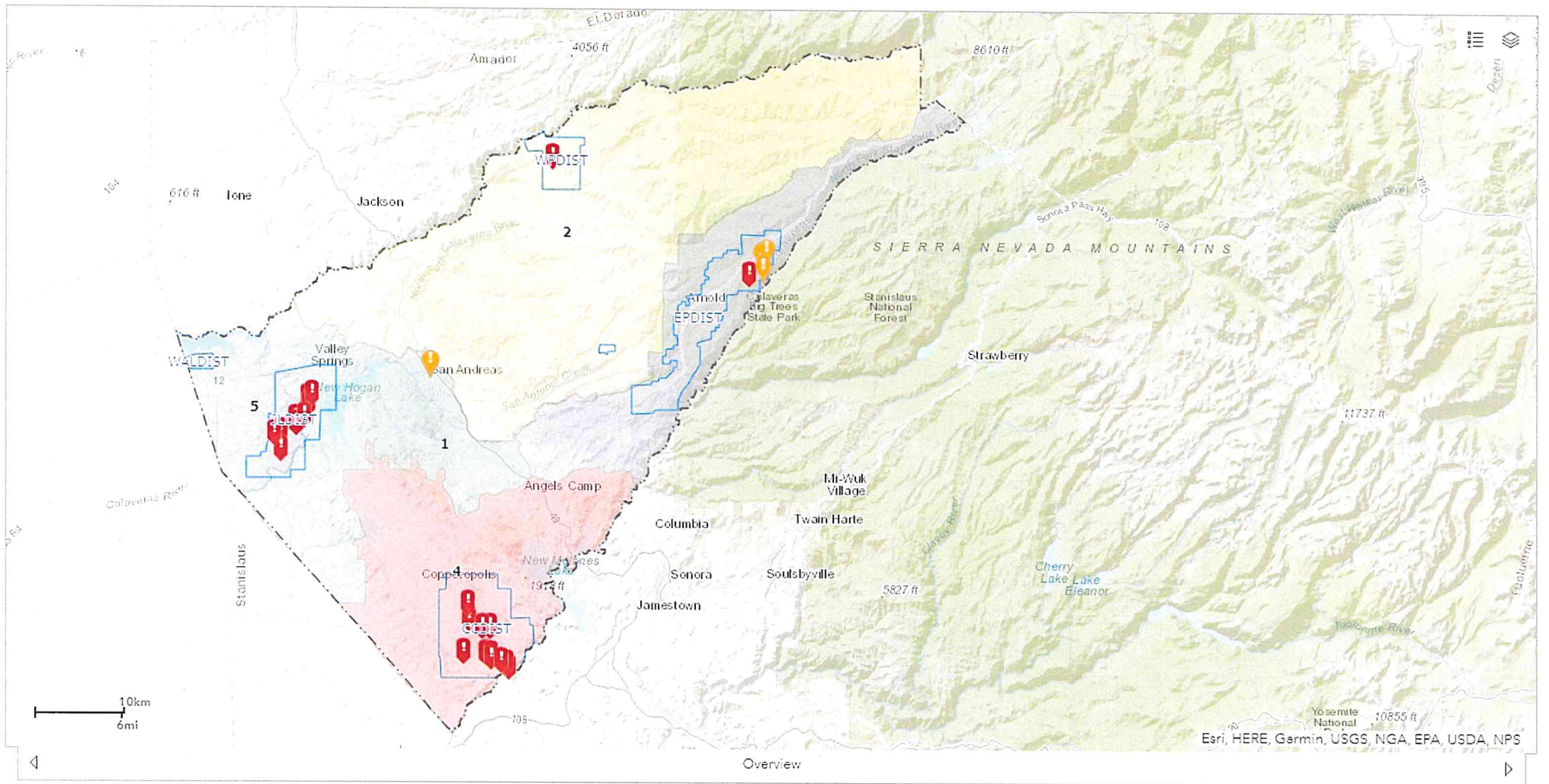


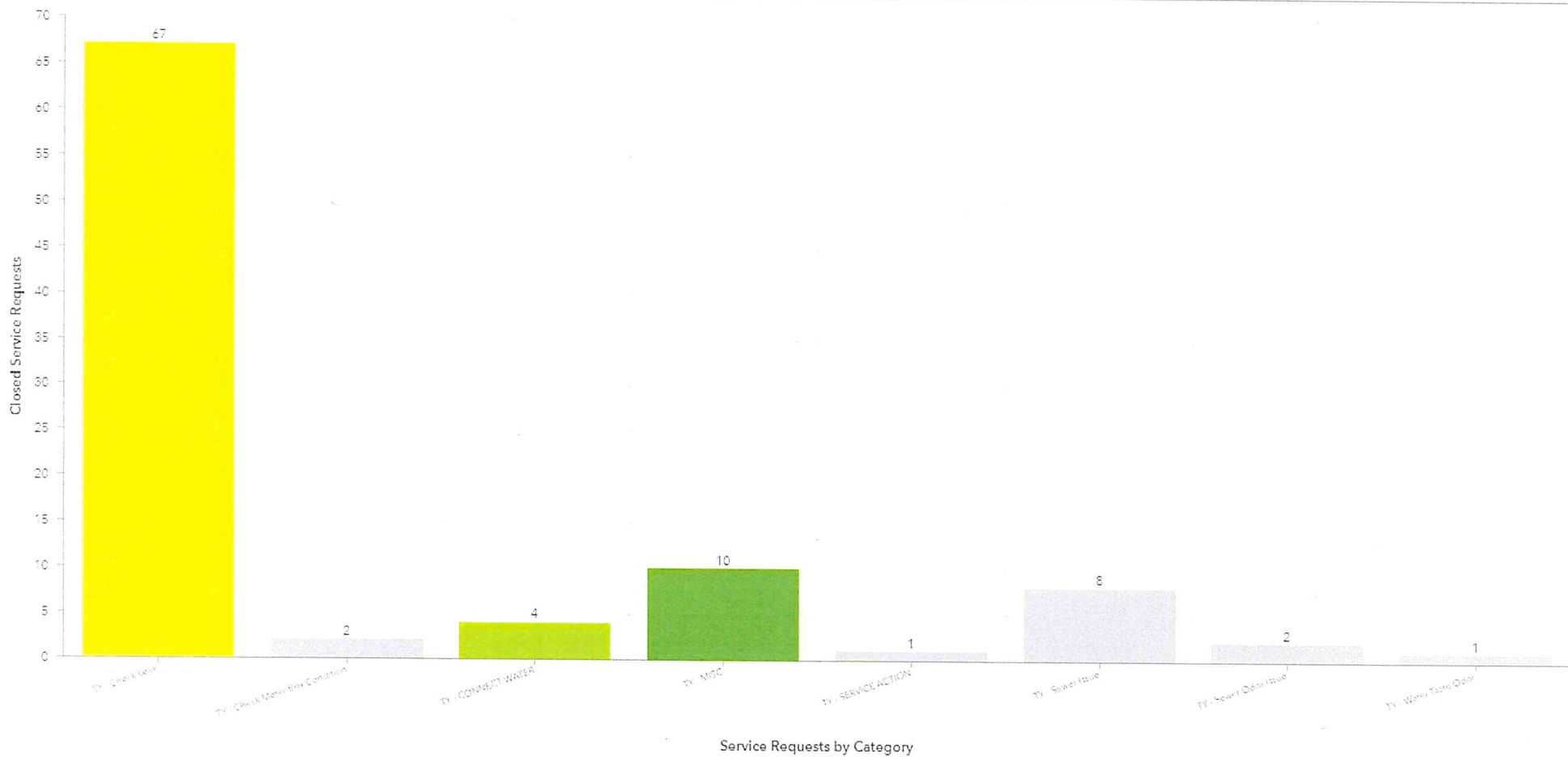




Bureau of Land Management, Esri, HERE, Garmin, INCREMENT P, USGS, METI/NASA, EPA, USDA







[Service Request Totals by Month](#)

[Service Requests By Category This Year](#)

[Leak Check By Month](#)

Last update: 36 minutes ago