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**James Rickert,**  
*President, Division 5*

**Ivar Amen,**  
*Vice President, Division 4*

**Ronnean Lund,**  
*Director, Division 1*

**Audie Butcher,**  
*Director, Division 2*

**Garrett Wallis,**  
*Director, Division 3*

**Daniel Ruiz,**  
*General Manager*

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# BOARD MEETING

## Agenda

October 9, 2025, 6:00 p.m.

1887 Howard Street, Anderson (Council Chambers)

### 1. Call To Order

### 2. Flag Salute

### 3. Public Participation

Time is set aside for members of the public who wish to address the Board regarding matters within the District's jurisdiction. Individuals are requested to limit comments to a maximum of three minutes.

### 4. Consent Items

- a. Payroll: Approve the Payroll Check Register for September 2025
- b. Electronic Federal Tax Payment System (EFTPS) & Automated Clearing House (ACH) – Approve transactions for the Payroll Period 9/15/2025 and 9/30/2025
- c. Voided and/or missing checks for September 2025

### 5. Regular Business Items

- a. Minutes – Approve the Minutes of the Regular Meeting on 9/11/25 and the Special Meeting on 9/3/25
- b. Financial Status Report for Year-to-Date through September 30, 2025
- c. Cash Disbursement Journal for September 2025

### 6. New Business Items

- a. Review and Approve Main Canal Improvement Project Priorities
- b. Review and Approve Churn Creek Bottom Project Priorities
  - a. Reshape & Compaction Priorities
  - b. Pipe Repair Replacement Priorities
- c. Review and Approve Lateral Project Priorities
  - a. Lateral 33
  - b. Lateral 29
  - c. Lateral 21
- d. Review and Approve Irrigation Season Shutdown Recommendation
  - a. Main Canal
  - b. Churn Creek Bottom

### 7. Other Business

- a. General Manager Report
- b. Operations Manager Report
  - a. Lateral 29 Outreach & Study Update

2810 Silver Street, Anderson, CA 96007 | **Phone:** 530-365-7329 | **Fax:** 530-365-7623

[www.andersoncottonwoodirrigationdistrict.org](http://www.andersoncottonwoodirrigationdistrict.org)

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**c. Committee Reports**

- a. Budget
- b. Personnel
- c. Diversion Dam
- d. Assessment
- e. Strategic
- f. EAGSA
- g. SRSC

**8. CLOSED SESSION –**

- a. **Existing Litigation (Government Code § 54956.9(d)(1)).** United States of America v. 4.04 Acres of Land et al., U.S. Dist. Court, Eastern District of California, Case No. 2:23-cv-02800
- b. **Conference with Legal Counsel – Anticipated Litigation (Government Code § 54956.9(d)(4)** One Case

**9. Adjourn**

Anderson Cottonwood Irrigation District  
**Payroll Register**  
 For the Period From Sep 1, 2025 to Sep 30, 2025

Filter Criteria includes: Report order is by Check Date. Report is printed in Detail Format.

| Employee ID<br>Employee<br>Masked SS No<br>Reference<br>Date   | Pay Type                                | Pay Hrs                         | Amount   |
|----------------------------------------------------------------|-----------------------------------------|---------------------------------|----------|
| 25-04<br>Leedy, Harley<br>XXX-XX-0578<br>20636<br>9/8/25       | WO<br>WO_OT                             | 30.75<br>2.00                   | 723.72   |
| 12A<br>White, Teresa L.<br>XXX-XX-9533<br>0407<br>9/15/25      | Finance_Ma                              |                                 | 2,218.11 |
| 21-09<br>Wilson, Kyle D.<br>XXX-XX-2586<br>0408<br>9/15/25     | Holiday<br>Sick_Leave<br>Vacation<br>WO | 8.00<br>36.00<br>25.00<br>19.00 | 1,825.40 |
| 22-03<br>Duncan, Benjamin<br>XXX-XX-4453<br>0409<br>9/15/25    | Ops_Manag                               |                                 | 2,199.08 |
| 23<br>Passmore, Scott C.<br>XXX-XX-4422<br>0410<br>9/15/25     | Vacation                                | 88.00                           | 2,247.00 |
| 23-13<br>Brian, Johnson J.<br>XXX-XX-4901<br>0411<br>9/15/25   | Holiday<br>WO<br>WO_OT                  | 8.00<br>88.00<br>8.00           | 2,339.79 |
| 24-02<br>Chabolla, Jordan B.<br>XXX-XX-2772<br>0412<br>9/15/25 | Holiday<br>WO<br>WO_OT                  | 8.00<br>88.00<br>7.00           | 2,153.01 |
| 24-03<br>Ruiz, Daniel J.<br>XXX-XX-5766<br>0413<br>9/15/25     | General_Mg                              |                                 | 5,180.49 |

Anderson Cottonwood Irrigation District  
Payroll Register  
For the Period From Sep 1, 2025 to Sep 30, 2025

Filter Criteria includes: Report order is by Check Date. Report is printed in Detail Format.

| Employee ID<br>Employee<br>Masked SS No<br>Reference<br>Date | Pay Type                          | Pay Hrs                | Amount   |
|--------------------------------------------------------------|-----------------------------------|------------------------|----------|
| 24-05<br>Davis, Johna J.<br>XXX-XX-4377<br>0414<br>9/15/25   | Holiday<br>WO<br>WO_OT            | 8.00<br>88.00<br>9.50  | 2,112.84 |
| 25-01<br>Shults, Kaleb A.<br>XXX-XX-1661<br>0415<br>9/15/25  | WO<br>WO_OT                       | 88.00<br>17.50         | 2,229.17 |
| 25-03<br>Bell, Shawna M.<br>XXX-XX-4563<br>0416<br>9/15/25   | Office_Man                        | 80.00                  | 1,581.51 |
| 33<br>Vega, Phillip<br>XXX-XX-1154<br>0417<br>9/15/25        | Ops_Sup<br>Overtime<br>Holiday    | 80.00<br>2.00<br>8.00  | 2,280.91 |
| 23<br>Passmore, Scott C.<br>XXX-XX-4422<br>0418<br>9/15/25   | Holiday                           | 8.00                   | 234.08   |
| 21-11<br>Jensen, Jason A.<br>XXX-XX-7425<br>20637<br>9/15/25 | Equip_Oper<br>Holiday<br>Vacation | 47.50<br>8.00<br>32.50 | 1,782.27 |
| 25-02<br>Jebens, Damon J.<br>XXX-XX-0228<br>20638<br>9/15/25 | WO<br>WO_OT                       | 82.00<br>5.50          | 1,768.06 |
| 23<br>Passmore, Scott C.<br>XXX-XX-4422<br>20640<br>9/19/25  | Vacation                          | 51.31                  | 1,346.28 |

Anderson Cottonwood Irrigation District  
**Payroll Register**  
 For the Period From Sep 1, 2025 to Sep 30, 2025

Filter Criteria includes: Report order is by Check Date. Report is printed in Detail Format.

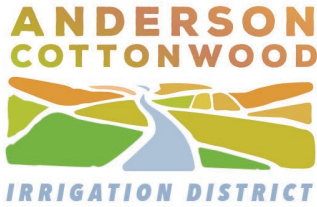
| Employee ID<br>Employee<br>Masked SS No<br>Reference<br>Date   | Pay Type    | Pay Hrs        | Amount   |
|----------------------------------------------------------------|-------------|----------------|----------|
| 12A<br>White, Teresa L.<br>XXX-XX-9533<br>0431<br>9/30/25      | Finance_Ma  |                | 2,393.11 |
| 22-03<br>Duncan, Benjamin<br>XXX-XX-4453<br>0432<br>9/30/25    | Ops_Manag   |                | 2,199.08 |
| 23-13<br>Brian, Johnson J.<br>XXX-XX-4901<br>0433<br>9/30/25   | WO<br>WO_OT | 88.00<br>4.00  | 2,084.18 |
| 24-02<br>Chabolla, Jordan B.<br>XXX-XX-2772<br>0434<br>9/30/25 | WO<br>WO_OT | 84.00<br>6.00  | 1,916.82 |
| 24-03<br>Ruiz, Daniel J.<br>XXX-XX-5766<br>0435<br>9/30/25     | General_Mg  |                | 5,180.49 |
| 24-05<br>Davis, Johna J.<br>XXX-XX-4377<br>0436<br>9/30/25     | WO<br>WO_OT | 92.00<br>10.00 | 2,060.99 |
| 25-01<br>Shults, Kaleb A.<br>XXX-XX-1661<br>0437<br>9/30/25    | WO<br>WO_OT | 85.25<br>8.00  | 1,950.56 |
| 25-02<br>Jebens, Damon J.<br>XXX-XX-0228<br>0438<br>9/30/25    | WO<br>WO_OT | 90.00<br>3.50  | 1,863.97 |

Anderson Cottonwood Irrigation District  
Payroll Register  
For the Period From Sep 1, 2025 to Sep 30, 2025

Filter Criteria includes: Report order is by Check Date. Report is printed in Detail Format.

| Employee ID<br>Employee<br>Masked SS No<br>Reference<br>Date | Pay Type                                                                                                                                                 | Pay Hrs                                                                                               | Amount    |
|--------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|-----------|
| 25-03<br>Bell, Shawna M.<br>XXX-XX-4563<br>0439<br>9/30/25   | Office_Man                                                                                                                                               | 88.00                                                                                                 | 1,729.27  |
| 33<br>Vega, Phillip<br>XXX-XX-1154<br>0440<br>9/30/25        | Main_Sup<br>Overtime<br>Vacation                                                                                                                         | 87.00<br>6.50<br>1.00                                                                                 | 2,546.95  |
| 21-11<br>Jensen, Jason A.<br>XXX-XX-7425<br>20642<br>9/30/25 | Equip_Oper<br>Sick_Leave                                                                                                                                 | 79.25<br>8.00                                                                                         | 1,766.45  |
| Summary Total<br>9/1/25 thru 9/30/25                         | General_Mg<br>Finance_Ma<br>Vacation<br>Ops_Manag<br>Overtime<br>Ops_Sup<br>Equip_Oper<br>Holiday<br>Office_Man<br>Sick_Leave<br>Main_Sup<br>WO<br>WO_OT | <br><br>197.81<br><br>8.50<br>80.00<br>126.75<br>56.00<br>168.00<br>44.00<br>87.00<br>923.00<br>81.00 | 57,913.59 |
| Report Date Final Total<br>9/1/25 thru 9/30/25               | General_Mg<br>Finance_Ma<br>Vacation<br>Ops_Manag<br>Overtime<br>Ops_Sup<br>Equip_Oper<br>Holiday<br>Office_Man<br>Sick_Leave<br>Main_Sup<br>WO<br>WO_OT | <br><br>197.81<br><br>8.50<br>80.00<br>126.75<br>56.00<br>168.00<br>44.00<br>87.00<br>923.00<br>81.00 | 57,913.59 |

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**James Rickert,**  
*President, Division 5*

**Ivar Amen,**  
*Vice President, Division 4*

**Ronnean Lund,**  
*Director, Division 1*

**Audie Butcher,**  
*Director, Division 2*

**Garrett Wallis,**  
*Director, Division 3*

**Daniel Ruiz,**  
*General Manager*

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# BOARD MEETING

## Draft Minutes

September 11, 2025, 6:00 p.m.

1887 Howard Street, Anderson (Council Chambers)

**1. Call To Order** at 6:00 p.m.

**Directors Present:** Rickert, Amen, Wallis

**Directors Absent:** Butcher, Lund

**Staff Present:** Ruiz, White, Duncan, and Bell

**2. Supervisor** Chris Kelstrum led the Flag Salute

**3. Public Participation**

Time is set aside for members of the public who wish to address the Board regarding matters within the District's jurisdiction. Individuals are requested to limit comments to a maximum of three minutes.

Bridgette Grimson expressed appreciation to Dan for his assistance and apologized for a prior phone interaction involving her husband. She thanked the district for resolving a recent issue with a grate.

- The primary concern presented was on behalf of her mother-in-law, a long-time resident and cattle rancher on Lateral 29, who has been experiencing insufficient water delivery to irrigate her field.
- Due to the lack of water, her pasture has dried up. She has reduced her cattle from 65 to 45 head. The feed is running low, and the field is now overtaken by weeds instead of grass.
- The issue was first noticed in June and partially addressed after meeting with the ditch tender, but water levels declined again.
- Despite contacting appropriate personnel, no lasting resolution was achieved until a recent conversation with Dan led to improved water flow.
- The speaker requested that this issue be formally added to a future board meeting agenda for resolution.

Jeff Parman, a resident of 22903 Adobe Road, expressed ongoing frustration with the inconsistent water delivery throughout the irrigation season.

- Key concerns included: Missed water cycles early in the season with no prior notification. A major canal break was only discovered after the resident contacted the office.
- After a temporary improvement, water delivery declined again due to canal draining for vegetation management.
- A leak repair near the property was only partially completed (100 ft of a 200 ft section), and the issue reoccurred after the next cycle.

- The resident reported receiving only half to three-quarters of a head of water, impacting pasture growth, and forcing early relocation of cattle to dry pasture.
- Communication issues were emphasized: Lack of proactive alerts about service disruptions. Frustration with the ditch tender's dismissive responses to concerns. Positive feedback was given to a weekend replacement ditch tender, Kaleb, for being responsive and accommodating.
- The speaker urged the district to improve both water consistency and communication practices, especially for the remainder of the season and into next year.

Bill Gifford - Reported this season as the worst he has experienced, citing inconsistent water delivery after a typical first cycle. One strong flow showed that adequate delivery is possible, but it was not sustained.

He had to skip irrigation on an 8-acre field for a month, leading to poor grass and weed growth. His pond showed minimal refill despite extended water flow. Additional water purchases yielded less than expected, and erosion risks complicated water management.

Bill received only 43% of his contracted water, confirmed by his wife and engineer Susan Goodwin. He also faced:

- Unscheduled water reallocation by a neighbor.
- Reduced pasture quality, causing livestock removal.
- Frequent valve adjustments due to low flow.
- Lack of transparency in water allocation and poor communication with ditch tenders.

He emphasized the need for better water management and accountability, noting similar issues among neighbors.

Buddy Pettyjohn - Expressed staunch support for previous speakers regarding ongoing issues with water delivery on Line 29, stating this has been the worst irrigation season he has experienced.

- Key concerns included: Extended irrigation cycles: Promised 14-day cycles but have been stretched to 17–17.5 days, causing significant disruption. Noted visible fluctuations in water head and questioned why water delivery varies so drastically. Expressed frustration over receiving water at night instead of daytime and questioned whether this was punitive.
- Historical comparison: Recalled better irrigation service prior to district upgrades and funding, questioning current performance.
- Suggested remedies: Proposed temporarily shutting off pumps to Churn Creek to highlight the impact of delayed cycles. Asked the board to consider a 20% refund for affected users over the past two years due to reduced water access.

#### Board Response

- Board members acknowledged the seriousness of the issues on Line 29, stating the current level of service is unacceptable. Apologies were issued to affected residents, with recognition of their frustration.
  - The board committed to: Addressing Line 29 as a priority during the upcoming off-season. Evaluating appropriate actions, including potential compensation, though no decisions were made during the meeting. Working collaboratively to resolve infrastructure and service problems.

#### **4. Consent Items**

- a. Payroll: Approve the Payroll Check Register for August 2025
- b. Electronic Federal Tax Payment System (EFTPS) & Automated Clearing House (ACH) – Approve transactions for the Payroll Periods August 15, 2025, and August 29, 2025
- c. Voided and/or missing checks for August 2025

VP Ivar made the motion to approve Consent Items; Director Wallis seconded the motion. No public comment. Vote 3-0 approved.

#### **5. Regular Business Items**

- a. Minutes – Approve the Minutes of the Regular Meeting on August 14, 2025
- b. Financial Status Report for Year-to-Date through August 31, 2025
- c. Cash Disbursement Journal for August 2025

Director Wallis made the motion to approve Regular Business Items; VP Ivar seconded the motion. No public comment. Vote 3-0 approved.

#### **6. New Business Items**

- a. Review and Approve Resolution CDAA-2025-07: Cal OES Designation of Applicant's Agent Resolution, Non-State Agencies
- b. Review and Approve Proposal for Engineering Services for the Replacement of Damaged Lining at the North Hill St. Canal Reach, Anderson California
- c. Main Canal Capital Improvement Project Priorities and Pricing Update
- d. Churn Creek Bottom Project Priorities
  - a. Reshape & Compaction Priorities
  - b. Pipe Repair and Replacement Priorities
- e. Lateral Project Priorities
  - a. 33, 29, & 21

Item 6a: Review and Approval of Resolution CDAA2025-07 - Designation of Applicant's Agent for Non-State Agencies

- The board reviewed Resolution CDAA2025-07, a formal designation of the applicant's agent related to February flood events.
- The resolution is a procedural requirement following the Governor's declaration of a state of emergency in late July, with Shasta County having acted early in the process.
- The designation helps initiate project-related processes and may remain valid for several years.
- Due to staffing changes, including a new office manager, the resolution requires updating and submission.
- Deadline for submission is September 22 to ensure continued coordination with Shasta County.
- A motion to approve the resolution was made and seconded.
- No public comments were received.

VP Ivar made the motion to approve Resolution; Director Wallis seconded the motion. No public comment. Vote 3-0 approved.

#### Item 6b: Review and Approval of Engineering Proposal – Northville Canal Reach (Anderson)

- The board reviewed a previously seen proposal for engineering services related to the replacement of a damaged lane at the Northville Canal Reach.
- Total proposal cost: \ \$60,000, broken down into three phases:
  1. Hydrologic Evaluation – \ \$16,000
  2. Design & Replacement – \ \$22,000
  3. Construction Support – \ \$22,000
- Minor wording edits were suggested to clarify the outlet structure’s function, replacing “pasture” with “storm water and watershed” to better reflect actual conditions.
- The hydrologic evaluation is prioritized due to lead time and urgency following recent flood events. Remaining phases will be revisited at a future meeting when the full board is present.
  - Discussion included: Clarification that the canal overtopping was due to a disconnected berm. No need for landowner approval due to existing easement, though outreach is planned. Potential for further investigation outside the current scope.

Director Wallis made the motion to approve Hydrologic evaluation only; VP Ivar seconded the motion. No public comment. Vote 3-0 approved.

#### Item 6C, D and E: Main Canal Capital Improvement Project, Churn Creek Bottom and Lateral Projects

- Main Canal, Lateral 29, Pickup Ditch: Discussion continued for priority upgrades. No formal action taken; board to await committee recommendations. Work may begin as early as Nov. 1, pending dry conditions and contractor availability.
- Project Estimates: Staff presented bids from two contractors for three segments:
  - Priority 1 (11,000 ft): \ \$990K–\ \$996K
  - Priority 2 (3,400 ft): \ \$374K–\ \$414K
  - Priority 3 (200 ft): \ \$230K–\ \$243KTotal: \ \$1.59M–\ \$1.65M. Discounts possible if all segments awarded. Final scope expected mid-October.
- Lateral 29 & Pipe Issues: Historical infrastructure problems noted. CCTV inspections planned for 1,800 ft to assess pipe conditions. Long-standing leaks and obstructions identified; some repairs may be delayed due to access.
- Pickup Ditch (Area 5): Multiple leaks and structural issues reported. Plan to re-pipe degraded sections and extend piping based on material availability. Significant water loss documented.
- Landowner Access & Easements: Staff faced disputes over ditch access. Work paused pending proper permits. Proposal made to standardize fencing policies and clarify easement boundaries to avoid future conflicts.
- Operational Challenges: Water delivery delays and rotation issues persist, especially in Lateral 29. Staff evaluating siphon installation and infrastructure upgrades. Vestra consulting on feasibility.
- Personnel & Oversight: Early season staffing issues acknowledged. Recommendation to re-engage experienced staff (e.g., Phil) for field oversight and training. Suggestion to create a ditch tender manual.

- Public Feedback: Irrigators voiced concerns over poor water delivery, rigid scheduling, and lack of communication. Calls for more frequent engagement, an action plan for Lateral 29 and Pickup Ditch, and better coordination among neighbors.
- Next Steps: Staff to develop and present an action plan at the next meeting. Future meetings involving key decisions should be held during regular sessions to ensure public participation.

## 7. Other Business

- General Manager Report
- Operations Manager Report
- Committee Reports
  - Budget
  - Personnel
  - Diversion Dam
  - Assessment
  - Strategic
  - EAGSA
  - SRSC

Item 7a: General Manager's Report – September – included in the Board packet

Item 7b: Operations Manager Report

### Water Operations

- Main Canal: Flow reduced from 240 to ~210 CFS; algae bloom affecting volume. Crowley Gulch holding 70–90 CFS. Area 5 laterals add ~20 CFS when active.
- C Creek: Stable at 55 CFS (3 pumps); drops to ~33 CFS with 2 pumps.
- River Flows: Ramping down to 7600 CFS for conservation; impacts Turn Creek pump pressure.
- Rain Impact: Brief storm caused overnight spillage at Crowley.
- Season Wrap-Up: Most laterals ending around Sept 20; full shutdown by Oct 31. Final splash planned for Lateral 29 and pickup ditch.

### Infrastructure & Maintenance

- Repairs: Fish screens/pulleys restored; pipe leaks exposed and redirected. Grill installations are ongoing.
- Emergencies: Beaver dam removed; tree cleared from Lateral 3; golf course leak resolved.
- Drainage Issues: Temporary levee redirected water; pipe repair/replacement proposed.
- Ditch Work: Reactive vegetation clearing; excavator use tracked.
- Cow issue, temporary metal done, grill list made, and improvements planned.

### Projects & Funding

- NRCS Project: Approved after 3+ years; planning underway for materials, labor, and reimbursement.
- Contractor Estimates: Lateral reshaping at \$25–\$35/ft; pipe materials priced separately.
- NRCS Bulk Pricing: Potential discounts for truckload purchases.

## Spray Program

- Application Timing: Late winter/early spring, mid-June, optional fall.
- Cost Breakdown:
  - Contractors: \$160/acre
  - District Staff: \$124/acre (labor, chemicals, maintenance)
- Equipment: 200–300 gallons/day capacity; ~146 acres in main canal.
- Notes: Costs may rise due to limited access and terrain.

## Canal Shutdown Recommendation

- Most scheduled laterals (e.g., 33, 35) will naturally end around October 20. Unscheduled laterals (e.g., 29, 33) may continue running until water is unavailable.
- Recommendation: shut down main around the 20th, allow 3–5 days for water to run out, and let the system taper off organically.

## Next steps

- Finalize Dam Removal: possibly scheduled for Nov 1, first Monday in November. Board approval for next Board Meeting.
- Board/Public Support: Appreciation for emergency response and transparency.
- Finalizing proposals, calibrating spray coverage, and preparing for off-season work.

## Board & Public Feedback

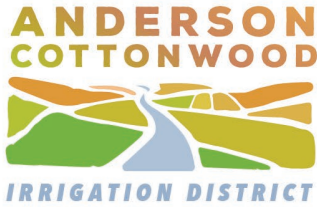
- Public and board members expressed appreciation for: Emergency response to electrical hazard and water lowering. Continued commitment to safety and equitable water delivery.
- Transparency and thoroughness in planning and reporting.

## 8. Adjourned Public session at 7:47 pm

## 9. CLOSED SESSION – started at 7:50 pm

- Existing Litigation (Government Code § 54956.9(d)(1)).** United States of America v. 4.04 Acres of Land et al., U.S. Dist. Court, Eastern District of California, Case No. 2:23-cv-02800
- Conference with Legal Counsel – Anticipated Litigation (Government Code § 54956.9(d)(4))** One Case  
Closed session adjourned at 8:55 p.m. – no action

## 10. Adjourn – meeting adjourned at 8:57 p.m.



**James Rickert,**  
*President, Division 5*

**Ivar Amen,**  
*Vice President, Division 4*

**Ronnean Lund,**  
*Director, Division 1*

**Audie Butcher,**  
*Director, Division 2*

**Garrett Wallis,**  
*Director, Division 3*

**Daniel Ruiz,**  
*General Manager*

# SPECIAL BOARD MEETING

## Draft Minutes

September 3, 2025, 9:00 a.m.

1887 Howard Street, Anderson (Council Chambers)

**1. Called To Order** at 9:01 am by James Rickert

**Directors Present:** Garrett Wallis, James Rickert, Ronnean Lund, Ivar Amen

**Directors Absent:** Audie Butcher

**Staff Present:** Dan Ruiz and Shawna Bell

**2. Flag Salute** – led by Garrett Wallis

**3. Public Participation**

Time is set aside for members of the public who wish to address the Board regarding matters within the District's jurisdiction. Individuals are requested to limit comments to a maximum of three minutes.

James Rickert - no public comments

**4. Old Business**

- a. Presentation from Danny Kerns, PE Provost & Pritchard on 2<sup>nd</sup> Main Canal Lining Repair - lining repair project, covering approximately 400 feet of canal located upslope from a residential area impacted by groundwater intrusion in spring/summer 2023.

Initial Work & Site Conditions: Vegetation removal and dewatering were conducted. Saturated and unsuitable subgrade materials were encountered, requiring stabilization.

Implemented Measures:

- Subgrade Stabilization: Installed geogrid beneath six inches of compacted base rock to create a stable foundation.
- French Drain System: Constructed a one-foot deep and wide trench lined with geotextile fabric and filled with drain rock. Designed to collect groundwater and direct it to pressure relief valves.
- Pressure Relief Valves: Nine Waterman-brand valves installed via vertical perforated PVC pipes embedded in the French drain. Valves relieve groundwater pressure beneath the liner and are located on the water side of the canal.

Post-Installation Observations: A significant heave (~60 feet long) was observed in the canal bottom after the irrigation season, with cracking along most of the reach. The heave is attributed to vertical groundwater pressure (buoyancy) beneath the liner.

Engineering Evaluation & Recommendations: A buoyancy analysis was conducted comparing upward water pressure with the downward force of the liner and concrete. Conservative assumptions were used, including average valve elevation and valve activation pressure (0.29 PSI). Uplift pressures ranged from 10 to 40 PSI.

Recommended Solution: Add concrete ballast to increase downward force and achieve a safety factor of 1.3 to 1.5. This avoids destructive modifications to the intact liner.

Additional Discussion Points:

- **Liner Integrity:** The liner includes an 840-mil HDPE geomembrane with geotextile on both sides. Despite visible cracks, only minimal seepage was observed, suggesting the liner remains intact.
- **Seam Concerns:** Seams are considered the most vulnerable points. Observed leakage is minimal and not indicative of major failure.
- **Elasticity & Manufacturer Specs:** Questions were raised about the membrane's elasticity and long-term integrity. The engineering team believes the liner is still performing effectively.
- **Future Inspections:** Further evaluation will be conducted after the irrigation season to reassess liner condition and validate the ballast solution.

Alternative Considerations & Design Details:

- **Hydro Boring Option:** Explored the idea of installing horizontally drilled perforated pipes to relieve groundwater pressure. Ultimately not pursued due to limited effectiveness at the canal bottom.
- **Concrete Fill Design:** Plans include varying depths of concrete fill, maintaining a minimum of 3 inches. Fill will be shaped to avoid creating backwater or hydraulic issues. Cross-sections were developed to show fill quantities at valve locations.
- **Bonding Measures:** Contractors will trench 1.5–2 inches at upstream/downstream edges to key new concrete into existing lining. Existing concrete will be pressure-washed to remove debris and promote bonding.
- A longer fiber mix will be used to reduce shrinkage cracking. Fiber cost details are to be provided by the concrete supplier.

## **5. Closed Session – moved into closed session at 9:47 am**

- a. Conference with Legal Counsel – Anticipated Litigation (Government Code § 54956.9(d)(4) One Case – closed session adjourned 10:35 am - no action

## **6. New Business**

- a. Review and Discuss Approving Engineering Services for the Replacement of Damaged Lining at the North Hill St. Canal Reach (Danny Kerns to Present)

Summary:

- A winter storm caused overtopping and damage to the North Hill Street canal liner, compromising about half of the reach.
- Temporary slurry repairs were made for the current irrigation season.
- A full replacement is proposed, with design considerations to prevent future overtopping and flooding.

- A hydrologic/hydraulic study is recommended to evaluate stormwater inflow, basin storage capacity, and canal bank elevation requirements. The study will inform design options, including potential emergency spillway integration.
- Estimated cost for Engineering work is \$60,000. Board expressed interest in proceeding with the hydrologic evaluation as the first phase, pending cost proposal. Final proposal to be reviewed at the next board meeting on September 11.
  - b. Review and Discuss Draft Main Canal & Churn Creek Flow Measurement Program (Danny Kerns to Present)

Summary:

A two-phase study was conducted to assess water loss along the main canal and Churn Creek bottom.

- Phase 1: Desktop analysis using soil data, hydraulic conductivity, evapotranspiration (ET), groundwater-dependent ecosystems, and SAGBI index. Eight high-risk reaches were identified.
  - Seasonal groundwater surveys showed the canal may gain water in winter and lose it in summer, informing future water-saving strategies.
  - ET data and field observations confirmed areas of seepage, especially near Panorama Point and Clear Creek.
- Phase 2: Flow measurements using acoustic Doppler equipment will quantify actual water loss. Measurements planned for fall, spring, and possibly summer to capture seasonal variation.
  - Coordination with operations is needed to ensure consistent conditions across seasons and valid comparisons.

Goal: Support targeted maintenance and water efficiency improvements using data-driven insights.

**7. Meeting adjourned at 11:15 am.**

|                                         |
|-----------------------------------------|
| Anderson Cottonwood Irrigation District |
| 2025 Financial Status Report            |
| Month Ending September 30, 2025         |

### Revenues

| Account Number | Budget Item | Month To Date | Year To Date | 2025 Approved Budget | Percent Used | Budget Over/Under |
|----------------|-------------|---------------|--------------|----------------------|--------------|-------------------|
|----------------|-------------|---------------|--------------|----------------------|--------------|-------------------|

|         |
|---------|
| General |
|---------|

|      |                              |         |             |             |      |           |
|------|------------------------------|---------|-------------|-------------|------|-----------|
| 4110 | Permits                      | \$0     | \$3,359     | \$0         | 0%   | (\$3,359) |
| 4111 | Water Sales / Prior Year     | \$0     | \$0         | \$0         | 0%   | \$0       |
| 4112 | Water Sales / Business       | \$8,143 | \$8,643     | \$8,143     | 106% | (\$500)   |
| 4114 | Water Sales / Irrigation     | \$0     | \$714,530   | \$718,000   | 100% | \$3,470   |
| 4115 | Water Transfer / CVP         | \$0     | \$591,066   | \$606,161   | 98%  | \$15,095  |
| 4117 | Water Transfer / Base Supply | \$0     | \$75,625    | \$75,630    | 100% | \$5       |
| 4934 | Penalty Revenue              | \$0     | \$0         | \$0         | 0%   | \$0       |
| 4971 | Surplus Equipment Sales      | \$0     | \$0         | \$0         | 0%   | \$0       |
| 4980 | Misc. Revenue                | \$0     | \$10,080    | \$1,500     | 672% | (\$8,580) |
| 4984 | Drainage Revenue             | \$0     | \$0         | \$0.00      | 0%   | \$0       |
| 4991 | Contract/Project Income      | \$0     | \$0         | \$0.00      | 0%   | \$0       |
|      | Sub-Total                    | \$8,143 | \$1,403,303 | \$1,409,434 | 100% | \$6,131   |

| Account Number | Budget Item | Month To Date | Year To Date | 2025 Approved Budget | Percent Used | Budget Over/Under |
|----------------|-------------|---------------|--------------|----------------------|--------------|-------------------|
|----------------|-------------|---------------|--------------|----------------------|--------------|-------------------|

|                         |  |
|-------------------------|--|
| Property Tax & Interest |  |
|-------------------------|--|

|      |                               |           |           |             |      |             |
|------|-------------------------------|-----------|-----------|-------------|------|-------------|
| 4920 | Interest / Investment Revenue | \$129,789 | \$457,091 | \$331,693   | 138% | (\$125,398) |
| 4930 | Prop. Taxes / Shasta          | \$92      | \$301,971 | \$645,000   | 47%  | \$343,029   |
| 4931 | Prop. Taxes / Tehama          | \$0       | \$23,158  | \$52,800    | 44%  | \$29,642    |
|      | Sub-Total                     | \$129,881 | \$782,220 | \$1,029,493 | 76%  | \$247,273   |

|  |                |           |             |             |     |           |
|--|----------------|-----------|-------------|-------------|-----|-----------|
|  |                |           |             |             |     |           |
|  |                |           |             |             |     |           |
|  |                |           |             |             |     |           |
|  |                |           |             |             |     |           |
|  | Total Revenues | \$138,024 | \$2,185,523 | \$2,438,927 | 90% | \$253,404 |

[illegible]

|                                         |
|-----------------------------------------|
| Anderson Cottonwood Irrigation District |
| 2025 Financial Status Report            |
| Month Ending September 30, 2025         |

| Expenditures |     |
|--------------|-----|
| 1            | 2   |
| 3            | 4   |
| 5            | 6   |
| 7            | 8   |
| 9            | 10  |
| 11           | 12  |
| 13           | 14  |
| 15           | 16  |
| 17           | 18  |
| 19           | 20  |
| 21           | 22  |
| 23           | 24  |
| 25           | 26  |
| 27           | 28  |
| 29           | 30  |
| 31           | 32  |
| 33           | 34  |
| 35           | 36  |
| 37           | 38  |
| 39           | 40  |
| 41           | 42  |
| 43           | 44  |
| 45           | 46  |
| 47           | 48  |
| 49           | 50  |
| 51           | 52  |
| 53           | 54  |
| 55           | 56  |
| 57           | 58  |
| 59           | 60  |
| 61           | 62  |
| 63           | 64  |
| 65           | 66  |
| 67           | 68  |
| 69           | 70  |
| 71           | 72  |
| 73           | 74  |
| 75           | 76  |
| 77           | 78  |
| 79           | 80  |
| 81           | 82  |
| 83           | 84  |
| 85           | 86  |
| 87           | 88  |
| 89           | 90  |
| 91           | 92  |
| 93           | 94  |
| 95           | 96  |
| 97           | 98  |
| 99           | 100 |



| Administration                          |                                                 |               |              |                      |              |                   |
|-----------------------------------------|-------------------------------------------------|---------------|--------------|----------------------|--------------|-------------------|
| 6001                                    | Medical Exp./Supplies                           | \$1,269       | \$1,606      | \$2,200              | 73%          | \$594             |
| 6002                                    | Travel / Training Expense                       | \$0           | \$1,404      | \$8,000              | 18%          | \$6,596           |
| 6003                                    | Office Supplies/Expense                         | \$0           | \$7,974      | \$14,000             | 57%          | \$6,026           |
| 6004                                    | Office Equip. & Maintenance                     | \$0           | \$0          | \$2,000              | 0%           | \$2,000           |
| 6005                                    | Association Dues                                | \$265         | \$15,434     | \$20,000             | 77%          | \$4,566           |
| 6006                                    | Public Notices                                  | \$0           | \$0          | \$500                | 0%           | \$500             |
| 6007                                    | Election Expense                                | \$0           | \$0          | \$0                  | 0%           | \$0               |
| 6008                                    | Legal Fees / Expense                            | \$6,541       | \$80,285     | \$80,000             | 100%         | (\$285)           |
| 6009                                    | SRSC Corporation                                | \$0           | \$20,822     | \$21,000             | 99%          | \$178             |
| 6010                                    | Maintenance Agreements                          | \$2,595       | \$19,492     | \$31,000             | 63%          | \$11,508          |
| 6012                                    | Vehicle Insurance                               | \$0           | \$15,527     | \$18,200             | 85%          | \$2,673           |
| 6013                                    | Management Expense Acct.                        | \$54          | \$414        | \$1,000              | 41%          | \$586             |
| 6014                                    | Liability Claims                                | \$0           | \$0          | \$0                  | 0%           | \$0               |
| 6015                                    | Property/Liability Insurance                    | \$0           | \$82,781     | \$90,000             | 92%          | \$7,219           |
| 6016                                    | Permit Fees                                     | \$0           | \$17,837     | \$12,000             | 149%         | (\$5,837)         |
| 6017                                    | County Taxes/Assessments                        | \$0           | \$20,471     | \$8,200              | 250%         | (\$12,271)        |
| 6018                                    | Consultant Services                             | \$0           | \$11,292     | \$25,000             | 45%          | \$13,708          |
| 6019                                    | Audit/Accounting Services                       | \$0           | \$0          | \$8,000              | 0%           | \$8,000           |
| 6020                                    | Web Site                                        | \$0           | \$0          | \$0                  | 0%           | \$0               |
| 6021                                    | Safety/Incentive Awards                         | \$0           | \$0          | \$500                | 0%           | \$500             |
| 6023                                    | Utilities                                       | \$1,204       | \$18,238     | \$24,000             | 76%          | \$5,762           |
| 6027                                    | Sustainable Groundwater Management Acct. (SGMA) | \$0           | \$0          | \$0                  | 0%           | \$0               |
|                                         |                                                 | \$11,928      | \$313,577    | \$365,600            | 86%          | \$52,023          |
|                                         |                                                 |               |              |                      |              |                   |
|                                         |                                                 |               |              |                      |              |                   |
| Anderson Cottonwood Irrigation District |                                                 |               |              |                      |              |                   |
| 2025 Financial Status Report            |                                                 |               |              |                      |              |                   |
| Month Ending September 30, 2025         |                                                 |               |              |                      |              |                   |
| Account Number                          | Budget Item                                     | Month To Date | Year To Date | 2025 Approved Budget | Percent Used | Budget Over/Under |
| General Maintenance                     |                                                 |               |              |                      |              |                   |
| 7000                                    | Fuels                                           | \$6,890       | \$45,106     | \$70,000             | 64%          | \$24,894          |
| 7001                                    | Equipment Rents & Leases                        | \$0           | \$7,029      | \$15,000             | 47%          | \$7,971           |
| 7002                                    | Light Vehicles                                  | \$1,933       | \$13,698     | \$15,000             | 91%          | \$1,302           |
| 7003                                    | Heavy Vehicles                                  | \$0           | \$9,905      | \$8,500              | 117%         | (\$1,405)         |
| 7004                                    | Light Equipment                                 | \$94          | \$5,433      | \$2,500              | 217%         | (\$2,933)         |
| 7005                                    | Heavy Equipment                                 | \$0           | \$7,141      | \$10,000             | 71%          | \$2,859           |
| 7006                                    | Hand Tools                                      | \$0           | \$249        | \$2,500              | 10%          | \$2,251           |
| 7007                                    | Personal Supplies & Equipment                   | \$0           | \$2,955      | \$12,000             | 25%          | \$9,045           |
| 7008                                    | Maintenance Supplies                            | \$1,289       | \$10,197     | \$25,000             | 41%          | \$14,803          |
| 7009                                    | Building/Yard Maintenance                       | \$420         | \$4,974      | \$12,000             | 41%          | \$7,026           |
| 7010                                    | Small Tools & Equipment                         | \$321         | \$3,284      | \$5,500              | 60%          | \$2,216           |
| 7011                                    | Engineering Services                            | \$3,833       | \$43,477     | \$25,000             | 174%         | (\$18,477)        |
|                                         | Sub-Total                                       | \$14,780      | \$153,448    | \$203,000            | 76%          | \$49,552          |
|                                         |                                                 |               |              |                      |              |                   |
| Canal Maintenance & Operations          |                                                 |               |              |                      |              |                   |
| 8000                                    | SCADA Maintenance                               | \$104         | \$4,439      | \$5,000              | 89%          | \$561             |
| 8001                                    | Diversion Facilities Maint.                     | \$5,279       | \$12,547     | \$25,000             | 50%          | \$12,453          |
| 8002                                    | Contracted Services                             | \$1,472       | \$26,120     | \$20,000             | 131%         | (\$6,120)         |
| 8003                                    | Chemicals                                       | \$0           | \$13,179     | \$19,000             | 69%          | \$5,821           |

|      |                              |          |           |           |     |           |
|------|------------------------------|----------|-----------|-----------|-----|-----------|
| 8004 | Canal Maintenance & Exp.     | \$3,099  | \$58,480  | \$175,000 | 33% | \$116,520 |
| 8005 | Pump Maintenance             | \$423    | \$9,874   | \$15,000  | 66% | \$5,126   |
| 8006 | Utilities / Pumping          | \$27,826 | \$137,192 | \$140,000 | 98% | \$2,808   |
| 8007 | Project Water Costs / USBR   | \$0      | \$257,097 | \$365,343 | 70% | \$108,246 |
| 8008 | Water Rights Protection      | \$8,781  | \$32,816  | \$75,000  | 44% | \$42,184  |
| 8010 | Water Transfer / Base Supply | \$0      | \$0       | \$0       | 0%  | \$0       |
| 8019 | Tree Removal                 | \$0      | \$59,120  | \$75,000  | 79% | \$15,880  |
|      | Sub-Total                    | \$46,984 | \$610,864 | \$914,343 | 67% | \$303,479 |

**Anderson Cottonwood Irrigation District**  
**2025 Financial Status Report**  
*Month Ending September 30, 2025*

**Balance Summary**

|                                   | Month<br>To<br>Date | Year<br>To<br>Date | 2025<br>Approved<br>Budget | Percent<br>Used | Budget<br>Over/Under |
|-----------------------------------|---------------------|--------------------|----------------------------|-----------------|----------------------|
| Total Expenditures                | \$192,295           | \$2,098,367        | \$2,944,327                | 71%             | \$845,960            |
| Total Revenues                    | \$138,024           | \$2,185,523        | \$2,438,927                | 90%             | \$253,404            |
| Operational - Net Income          | (\$54,271)          | \$87,156           | (\$505,400)                |                 |                      |
| Non-Operational - Capital Costs   | (1,129)             | (2,035,741)        | (1,711,300)                |                 |                      |
| Net Income w/Capital (cash flow)  | (\$55,400)          | (\$1,948,585)      | (\$2,216,700)              |                 |                      |
| Other Income - DPP Funding        |                     | \$14,214,346       |                            |                 |                      |
| DPP True Up                       |                     | \$ 110,608         |                            |                 |                      |
| Total Cash Flow with All Activity |                     | \$12,376,369       |                            |                 |                      |

**Capital Improvement**

|                                   | Month<br>To<br>Date | Year<br>To<br>Date | 2025<br>Approved<br>Budget | Percent<br>Used | Budget<br>Over/Under |
|-----------------------------------|---------------------|--------------------|----------------------------|-----------------|----------------------|
| 1112 Land                         | \$0                 | \$0                | \$0                        | 0%              | \$0                  |
| 1114 Pumps                        | \$0                 | \$0                | \$0                        | 0%              | \$0                  |
| 1116 Trans & Distribution System  | \$0                 | \$19,985           | \$50,000                   | 40%             | \$30,015             |
| 1117 Equipment (Machinery)        | \$0                 | \$0                | \$0                        | 0%              | \$0                  |
| 1118 Auto & Trucks                | \$0                 | \$69,458           | \$41,000                   | 169%            | (\$28,458)           |
| 1119 Buildings                    | \$0                 | \$0                | \$0                        | 0%              | \$0                  |
| 1120 Office Furniture & Equipment | \$0                 | \$9,924            | \$9,300                    | 107%            | (\$624)              |
| 1123 Yard Improvement             | \$0                 | \$0                | \$0                        | 0%              | \$0                  |
| 1124 Canal Lining & Pipe          | \$1,129             | \$1,920,842        | \$1,591,000                | 121%            | (\$329,842)          |
| 1125 Canal Safety Project         | \$0                 | \$0                | \$0                        | 0%              | \$0                  |
| 1126 Main Canal Metering          | \$0                 | \$0                | \$0                        | 0%              | \$0                  |
| 1127 Main Dam Improvement         | \$0                 | \$0                | \$0                        | 0%              | \$0                  |
| 1132 Fish Screens                 | \$0                 | \$0                | \$0                        | 0%              | \$0                  |
| 1133 Fish Ladders                 | \$0                 | \$0                | \$0                        | 0%              | \$0                  |

|                                                |                     |                     |             |             |      |             |
|------------------------------------------------|---------------------|---------------------|-------------|-------------|------|-------------|
| 1134                                           | SCADA Equipment     | \$0                 | \$15,532    | \$20,000    | 78%  | \$4,468     |
| 1135                                           | Groundwater Program | \$0                 | \$0         | \$0         | 0%   | \$0         |
|                                                | <b>Total</b>        | \$1,129             | \$2,035,741 | \$1,711,300 | 119% | (\$324,441) |
|                                                |                     |                     |             |             |      |             |
| <b>Anderson Cottonwood Irrigation District</b> |                     |                     |             |             |      |             |
| <b>2025 Financial Status Report</b>            |                     |                     |             |             |      |             |
| <i>Month Ending September 30, 2025</i>         |                     |                     |             |             |      |             |
|                                                |                     |                     |             |             |      |             |
| <b>Breakdown of Reserves</b>                   |                     |                     |             |             |      |             |
|                                                | L.A.I.F.            | \$4,494,494         |             |             |      |             |
|                                                | TCB Checking        | \$271,640           |             |             |      |             |
|                                                | Petty Cash          | \$100               |             |             |      |             |
|                                                | Imprest Cash        | \$200               |             |             |      |             |
|                                                | RBC Investments     | \$17,037,522        |             |             |      |             |
|                                                | <b>Total Cash</b>   | <b>\$21,803,956</b> |             |             |      |             |
|                                                |                     |                     |             |             |      |             |
|                                                |                     |                     |             |             |      |             |
|                                                |                     |                     |             |             |      |             |

Anderson Cottonwood Irrigation District  
**Cash Disbursements Journal**  
 For the Period From Sep 1, 2025 to Sep 30, 2025

Filter Criteria includes: Report order is by Date. Report is printed in Detail Format.

| Date   | Check # | Account ID           | Line Description                                                                                     | Debit Amount       | Credit Amount |
|--------|---------|----------------------|------------------------------------------------------------------------------------------------------|--------------------|---------------|
| 9/2/25 | 31996   | 5119                 | September insurance for<br>Kyle Wilson                                                               | 746.00             |               |
|        |         | 1308                 | N.C.G.T. Security Fund                                                                               |                    | 746.00        |
| 9/5/25 | 31997   | 8001                 | repair on both pulley<br>systems on fish screens                                                     | 3,672.50           |               |
|        |         | 1308                 | Bloom's Mobile Truck<br>Equip. & Repair                                                              |                    | 3,672.50      |
| 9/5/25 | 31998   | 6001                 | pre employment testing (2)<br>employees, (1) employee<br>RTD testing, SAP set up<br>for (1) employee | 1,119.00           |               |
|        |         | 1308                 | Compliance Associates                                                                                |                    | 1,119.00      |
| 9/5/25 | 31999   | 7000                 | diesel/gasoline fuel for<br>August                                                                   | 6,989.69           |               |
|        |         | 1308                 | Flyers Energy, LLC                                                                                   |                    | 6,989.69      |
| 9/5/25 | 32000   | 7008                 | wire brush, paint mixer,<br>bulbs                                                                    | 112.04             |               |
|        |         | 1308                 | Ace Payment Processing                                                                               |                    | 112.04        |
| 9/5/25 | 32001   | 8005                 | syn oil for dump truck,<br>gloves                                                                    | 85.39              |               |
|        |         | 1308                 | JMB Oil                                                                                              |                    | 85.39         |
| 9/5/25 | 32002   | 5111                 | temp labor-2 employees<br>for 2 weeks                                                                | 2,641.76           |               |
|        |         | 1308                 | K S Staffing Solutions Inc.                                                                          |                    | 2,641.76      |
| 9/5/25 | 32003   | 7008<br>1308         | 5 pike poles/trash forks<br>BDI                                                                      | 327.76             | 327.76        |
| 9/5/25 | 32004   | 6010<br>1308         | monthly maintenance plan<br>Obsidian IT                                                              | 969.06             | 969.06        |
| 9/5/25 | 32005   | 7008<br>1308         | 24" coupler<br>Oldcastle Infrastructure                                                              | 67.89              | 67.89         |
| 9/5/25 | 32006   | 8004<br>1308         | plywood blows, quikcrete<br>concrete, screws<br>Payless Building Supply                              | 180.21             | 180.21        |
| 9/5/25 | 32007   | 7008<br>1308         | drinking water for shop<br>Primo Brands                                                              | 116.49             | 116.49        |
| 9/5/25 | 32008   | 7011<br>1124<br>1308 | Main Canal Water Loss<br>Hill st. repair<br>Provost & Pritchard                                      | 360.65<br>1,128.80 | 1,489.45      |
| 9/5/25 | 32009   | 8006                 | Churn Creek<br>pumps/August                                                                          | 21,343.18          |               |
|        |         | 8006                 | Progress Drive<br>pump/August                                                                        | 449.26             |               |
|        |         | 8000<br>1308         | SCADA/August<br>City Of Redding                                                                      | 86.00              | 21,878.44     |
| 9/5/25 | 32010   | 7010<br>1308         | check and repair 3" pump<br>Stroup's Power<br>Equipment, INC                                         | 320.52             | 320.52        |
| 9/5/25 | 32011   | 2222<br>1308         | union dues for September<br>Teamsters Local No. 137                                                  | 721.00             | 721.00        |
| 9/5/25 | 32012   | 6010<br>1308         | State Fee for Regulatory<br>cost<br>Underground Service<br>Alert                                     | 1,145.87           | 1,145.87      |
| 9/5/25 | 32013   | 5014<br>5114         | Pension for August/Admin<br>Pension for August/T&D                                                   | 156.80<br>3,073.28 |               |

Anderson Cottonwood Irrigation District  
**Cash Disbursements Journal**  
 For the Period From Sep 1, 2025 to Sep 30, 2025

Filter Criteria includes: Report order is by Date. Report is printed in Detail Format.

| Date    | Check # | Account ID | Line Description                                                           | Debit Amount | Credit Amount |
|---------|---------|------------|----------------------------------------------------------------------------|--------------|---------------|
|         |         | 1308       | Western Conf. Team.<br>Pension                                             |              | 3,230.08      |
| 9/11/25 | 33007   | 5111       | temp labor for 4<br>employees for 2 weeks                                  | 5,860.36     |               |
|         |         | 1308       | K S Staffing Solutions Inc.                                                |              | 5,860.36      |
| 9/11/25 | 33008   | 8004       | Invoice<br>2144820,5305,5426,5757,<br>pea gravel, concrete,hitch<br>rental | 1,053.19     |               |
|         |         | 1308       | Loucks Landscape Supply                                                    |              | 1,053.19      |
| 9/11/25 | 33009   | 7002       | 2022 F150 pickup oil<br>change                                             | 136.51       |               |
|         |         | 7002       | 2023 F150 oil change                                                       | 115.19       |               |
|         |         | 7004       | 2022 F150 oil change                                                       | 93.64        |               |
|         |         | 7002       | 2016 F150 oil change                                                       | 73.91        |               |
|         |         | 7002       | past due amount                                                            | 0.80         |               |
|         |         | 1308       | Nor Cal Rentals                                                            |              | 420.05        |
| 9/11/25 | 33010   | 8000       | SCADA                                                                      | 17.25        |               |
|         |         | 1308       | Pacific Gas & Electric                                                     |              | 17.25         |
| 9/11/25 | 33011   | 7002       | tires for 2023 F150 pickup                                                 | 1,432.68     |               |
|         |         | 1308       | Les Schwab Tires                                                           |              | 1,432.68      |
| 9/11/25 | 33012   | 7002       | GM car repair                                                              | 173.97       |               |
|         |         | 8001       | grip poles, brush, telepole,<br>work on fish screens                       | 1,316.90     |               |
|         |         | 7003       | repair of dump truck                                                       | 1,026.69     |               |
|         |         | 6010       | Linx up, Fat Cow, Adobe,<br>Grammerly                                      | 479.93       |               |
|         |         | 6003       | copy paper, staples, usb<br>charger, iphone caes,                          | 639.53       |               |
|         |         | 1308       | Tri Counties Bank                                                          |              | 3,637.02      |
| 9/11/25 | 33013   | 6023       | garbage for office/August                                                  | 162.42       |               |
|         |         | 8004       | dumpster for August                                                        | 1,391.76     |               |
|         |         | 1308       | Waste Management                                                           |              | 1,554.18      |
| 9/12/25 | 33000   | 8004       | barbwire (4)                                                               | 474.10       |               |
|         |         | 1308       | Anderson Farm & Yard                                                       |              | 474.10        |
| 9/12/25 | 33001   | 6003       | Name Plates (3)                                                            | 38.33        |               |
|         |         | 1308       | Anderson Trophies and<br>Awards                                            |              | 38.33         |
| 9/12/25 | 33002   | 2224       | withholding for 9/15/25<br>pay period                                      | 100.00       |               |
|         |         | 1308       | CA State Disbursement<br>Unit                                              |              | 100.00        |
| 9/12/25 | 33003   | 2224       | withholding for 9/15/25<br>pay period                                      | 350.00       |               |
|         |         | 1308       | CA State Disbursement<br>Unit                                              |              | 350.00        |
| 9/12/25 | 33004   | 6003       | copies for August                                                          | 170.59       |               |
|         |         | 1308       | Carrel's Office Machines                                                   |              | 170.59        |
| 9/12/25 | 33005   | 5114       | withholding for 9/15/25<br>payroll                                         | 165.53       |               |
|         |         | 2226       | retirement for 9/15/25 pay<br>period                                       | 250.00       |               |
|         |         | 1308       | Edward Jones - Ben Swim                                                    |              | 415.53        |
| 9/12/25 | 33006   | 5114       | retirement for 9/15/25<br>payroll                                          | 515.65       |               |
|         |         | 1308       | Edward Jones - Ben Swim                                                    |              | 515.65        |
| 9/16/25 | 33014   | 6023       | waster for office/shop for                                                 | 21.73        |               |

Anderson Cottonwood Irrigation District  
**Cash Disbursements Journal**  
 For the Period From Sep 1, 2025 to Sep 30, 2025

Filter Criteria includes: Report order is by Date. Report is printed in Detail Format.

| Date    | Check # | Account ID | Line Description                                                           | Debit Amount | Credit Amount |
|---------|---------|------------|----------------------------------------------------------------------------|--------------|---------------|
|         |         | 1308       | August<br>City Of Anderson                                                 |              | 21.73         |
| 9/16/25 | 33015   | 6001       | pre employment testing (2<br>employees)                                    | 150.00       |               |
|         |         | 1308       | Burch Physical Therapy                                                     |              | 150.00        |
| 9/16/25 | 33016   | 6008       | General - August                                                           | 5,228.17     |               |
|         |         | 8008       | Water Rights - August                                                      | 278.13       |               |
|         |         | 6008       | Canal Float - August                                                       | 1,312.75     |               |
|         |         | 1308       | Minasian Law LLP                                                           |              | 6,819.05      |
| 9/16/25 | 33017   | 8001       | Diversion facilities -<br>August                                           | 289.75       |               |
|         |         | 1308       | City Of Redding                                                            |              | 289.75        |
| 9/16/25 | 33018   | 8008       | 2019 PCFFA Lit - ACID -<br>August                                          | 302.59       |               |
|         |         | 8008       | NRDC - August                                                              | 200.31       |               |
|         |         | 1308       | Somach Simmons & Dunn                                                      |              | 502.90        |
| 9/16/25 | 33019   | 8002       | Invoice 12698 for Ishi                                                     | 1,471.88     |               |
|         |         | 1308       | The Embroidery Shope                                                       |              | 1,471.88      |
| 9/22/25 | 33007V  | 5111       | temp labor for 4<br>employees for 2 weeks                                  |              | 5,860.36      |
|         |         | 1308       | K S Staffing Solutions Inc.                                                | 5,860.36     |               |
| 9/25/25 | 33030   | 6023       | power for August, office<br>& shop                                         | 1,020.05     |               |
|         |         | 8006       | power for August, Well #1                                                  | 43.00        |               |
|         |         | 8006       | power for August,<br>Anderson Creek                                        | 1,274.30     |               |
|         |         | 8006       | power for August, well #2                                                  | 27.47        |               |
|         |         | 8006       | power for August, Perrys<br>pond                                           | 367.65       |               |
|         |         | 8006       | power for August,<br>Dymesich pond                                         | 1,892.34     |               |
|         |         | 8006       | power for August, Lat #46                                                  | 2,429.20     |               |
|         |         | 1308       | Pacific Gas & Electric                                                     |              | 7,054.01      |
| 9/26/25 | 33020   | 2224       | Withholding for 9/30/25<br>payroll period, JJ                              | 350.00       |               |
|         |         | 1308       | CA State Disbursement<br>Unit                                              |              | 350.00        |
| 9/26/25 | 33021   | 2224       | withholding for 9/30/25<br>payroll period, JD                              | 100.00       |               |
|         |         | 1308       | CA State Disbursement<br>Unit                                              |              | 100.00        |
| 9/26/25 | 33022   | 5014       | +Retirement for 9/30/25<br>pay period                                      | 515.63       |               |
|         |         | 1308       | Edward Jones - Ben Swim                                                    |              | 515.63        |
| 9/26/25 | 33023   | 2226       | withholding for 9/30/25<br>pay period                                      | 250.00       |               |
|         |         | 5114       | Retirement for 9/30/25<br>pay period                                       | 165.53       |               |
|         |         | 1308       | Edward Jones - Ben Swim                                                    |              | 415.53        |
| 9/26/25 | 33024   | 6003       | Business cards for two<br>employees                                        | 140.08       |               |
|         |         | 1308       | Harvest Printing                                                           |              | 140.08        |
| 9/26/25 | 33025   | 5111       | Temp labor for 3<br>employees, invoices<br>#305299,650,684,733,789<br>,843 | 10,686.08    |               |
|         |         | 1308       | K S Staffing Solutions Inc.                                                |              | 10,686.08     |
| 9/26/25 | 33026   | 7011       | Canal Loss Investigation                                                   | 3,472.16     |               |

Anderson Cottonwood Irrigation District

Cash Disbursements Journal

For the Period From Sep 1, 2025 to Sep 30, 2025

Filter Criteria includes: Report order is by Date. Report is printed in Detail Format.

| Date    | Check # | Account ID | Line Description                     | Debit Amount | Credit Amount |
|---------|---------|------------|--------------------------------------|--------------|---------------|
|         |         | 1308       | Project Provost & Pritchard          |              | 3,472.16      |
| 9/26/25 | 33027   | 7009       | office and shop cleaning, 3 weeks    | 420.00       |               |
|         |         | 1308       | Sarah's Scottish Maids               |              | 420.00        |
| 9/26/25 | 33028   | 6005       | Annual Farm Bureau Membership        | 265.00       |               |
|         |         | 1308       | Farm Bureau                          |              | 265.00        |
| 9/26/25 | 33029   | 5114       | amount owed from 4 year audit        | 8,050.05     |               |
|         |         | 1308       | Western Conf. Team. Pension          |              | 8,050.05      |
| 9/26/25 | 33031   | 7008       | shirts and sweatshirts               | 664.76       |               |
|         |         | 1308       | Applejacks T-Shirts & Graphics       |              | 664.76        |
| 9/26/25 | 33032   | 8005       | after hours call from April, Lat #46 | 337.50       |               |
|         |         | 1308       | J & J Pumps, INC                     |              | 337.50        |
|         | Total   |            |                                      | 109,438.55   | 109,438.55    |



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## STEVE MANNING CONSTRUCTION, INC.

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GENERAL ENGINEERING CONTRACTOR  
CA LIC #754230

Attention ACID: September 5, 2025

BID DATE: September 5, 2025

**JOB DESCRIPTION: ACID – Main Canal Priorities**

**Steve Manning Construction, Inc.** is pleased to have the opportunity to quote to your firm the following items of work on the Spring Gulch, Panorama, and Trefoil/Jim Dandy Canal Shaping and Compacting Project.

**Steve Manning Construction Inc (SMCI):**

1. Is a Union Contractor Signatory to the Operating Engineers Local 3 and Laborers Local 185 all prices include prevailing wage rates.

**SEE ATTACHED PAGE FOR BID ITEM PRICING AND SCOPE OF WORK (per attached ACID write up)**

**SPECIAL CONDITIONS:**

- All underground to be located prior to work. SMCI will not be responsible for unmarked items.

**EXCLUSIONS:**

1. All SWPPP work (reports, inspections, implementation, installation, BMPs, etc.)
2. All permits and fees
3. All materials testing.
4. Surveying
5. Bonding
6. Liquidated Damages
7. Warranty
8. Driveway and street repair work.
9. Repair of Concrete Structures or Pipe Assemblies (unless negligently damaged by SMCI)

If you have any questions, or require additional information, please feel free to contact me.

Thank you,  
*Bill H Spoon*

**Bill Spoon**

Project Manager

Steve Manning Construction Inc.

Cell: 530-605-5704

bspoon@smci-const.com

## Main Canal Capital Improvement Project Priorities

### Priority #1

### Panorama to Locust

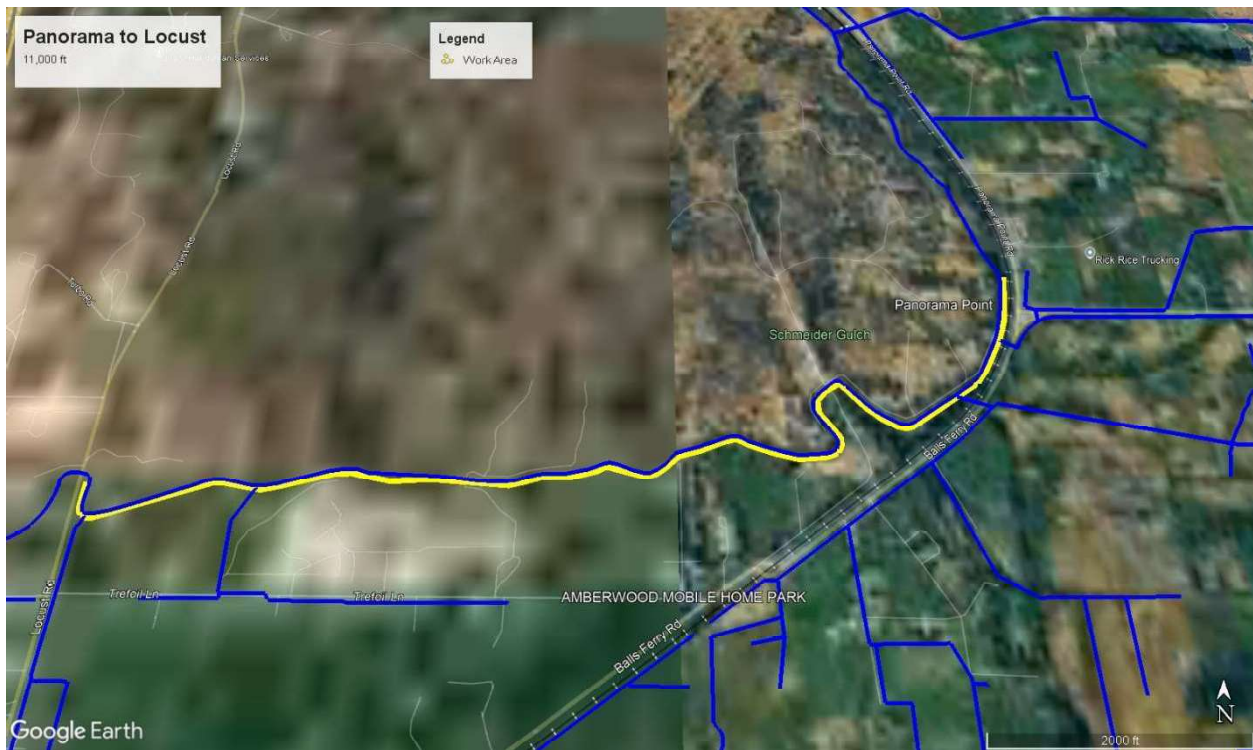
#### Reach Location and Description:

Approximately 11,000 feet of Anderson-Cottonwood Irrigation District's Main Canal between the Project Begin and End coordinates provided below:

Approximate Project Begin Coordinate: Lat: 40.241829, Long: -122.144135

Approximate Project End Coordinates: Lat: 40.235811 Long: -122.162594

- Stump and vegetation removal
- Reshape and Compact
- Potential soil import



### Budget

| Description        | Qty    | Unit | Unit Cost | Total Cost |
|--------------------|--------|------|-----------|------------|
| Panorama to Locust | 11,000 | LF   | \$73      | \$803,000  |

## Main Canal Capital Improvement Project Priorities

### Priority #2

### Crowley Gulch to Gas point Rd.

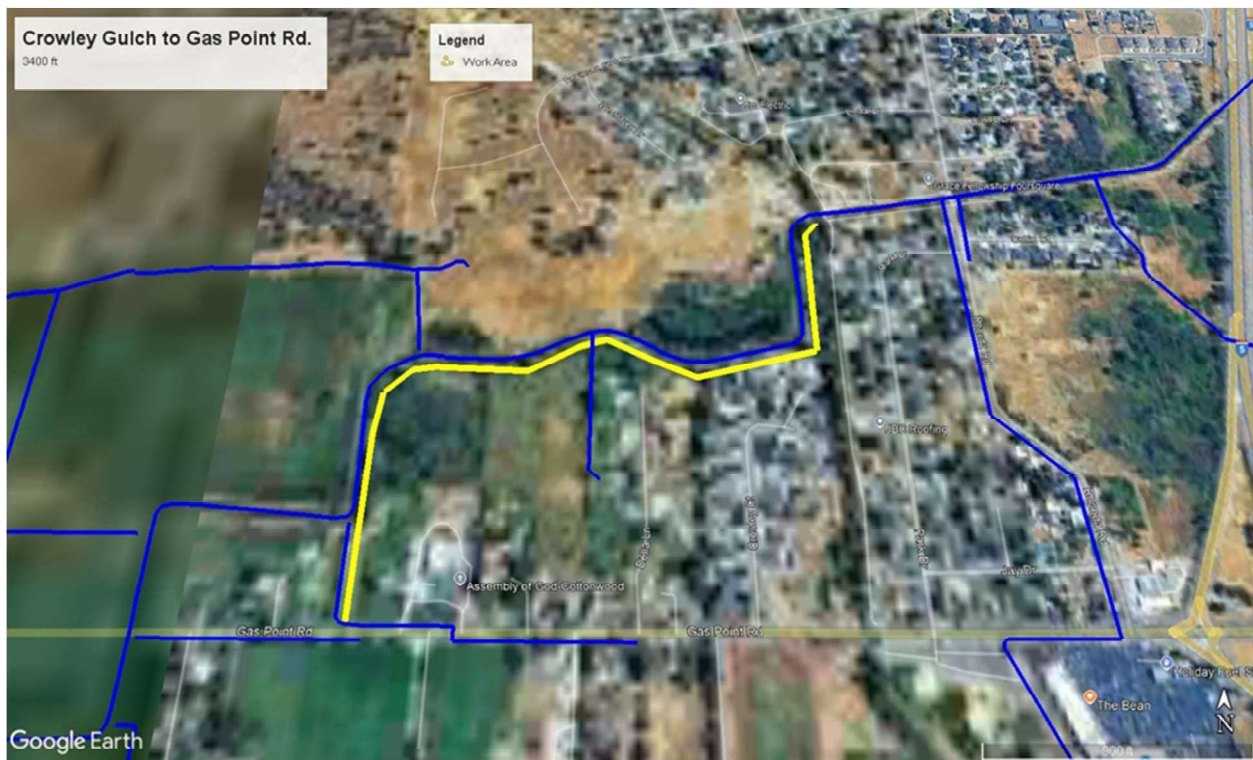
#### Reach Location and Description:

Approximately 3400 feet of Anderson-Cottonwood Irrigation District's Main Canal between the Project Begin and End coordinates provided below:

Approximate Project Begin Coordinate: Lat: 40.224499, Long: -122.194091

Approximate Project End Coordinates: Lat: 40.225232, Long: -122.195735

- Stump and vegetation removal
- Reshape and Compact
- Potential soil import



### Budget

| Description          | Qty   | Unit | Unit Cost | Total Cost |
|----------------------|-------|------|-----------|------------|
| Crowley to Gas Point | 3,400 | LF   | \$73      | \$248,200  |

## Main Canal Capital Improvement Project Priorities

### Priority #3

### Greengate to Ludwig

#### Reach Location and Description:

Approximately 2000 feet of Anderson-Cottonwood Irrigation District's Main Canal between the Project Begin and End coordinates provided below:

Approximate Project Begin Coordinate: Lat: 40.224499, Long: -122.194091

Approximate Project End Coordinates: Lat: 40.225232, Long: -122.195735

Remove vegetation, reshape/compact canal bank and access road



### Budget

| Description          | Qty   | Unit | Unit Cost | Total Cost |
|----------------------|-------|------|-----------|------------|
| Green Gate to Ludwig | 2,000 | LF   | \$73      | \$146,000  |

## Main Canal Capital Improvement Project Priorities

### **Description of the Work for Reshape and Compact**

**Mobilization/Demobilization, Insurance, and Permits:** Contractor shall provide all labor, materials, tools, equipment and incidentals necessary for mobilization, insurance, and licenses, required during the performance of the work as specified. This also includes demobilization, including the removal of all equipment, supplies, personnel and incidentals from the project at the end of construction.

**Miscellaneous Facilities and Operations:** Contractor shall make provisions for traffic control, worker and public safety protections, temporary access improvements such as gravel used for the Contractor's access during construction, protection of existing facilities, general project clean up, temporary power, and all costs for miscellaneous work not specifically mentioned in other work items below.

**Vegetation Removal, Clearing and Grubbing:** Contractor shall clear, grub, strip and dispose of vegetation from the canal levy down to the toe of the embankment and inside the water channel. This also includes the removal and disposal of trees, stumps, and root balls from canal embankment area. The Contractor shall reconstruct the embankment area where trees stumps were removed (refer to SPECIFICATIONS FOR CANAL EARTHWORK below). Generally, all vegetation shall be removed from the inside of the canal to the outer toe of the embankments. This item includes the hauling and off-site disposal of vegetation. Contractor may also burn removed vegetation if conditions permit.

**Fence Relocation:** Where fences exist, within the work area, on the top or outside slope of the Canal embankment, the Contractor shall remove the existing fence. Contractor will make every attempt to salvage existing fence materials. Unsuitable material will be gathered up and hauled off site to District property on Barney St. District Staff will coordinate relocation of removed fencing with landowners on an, as needed basis. If convenient for contractor to reinstall any incidental fence removal, District will supply fencing materials as requested. Fencing supplies will consist of T-posts, barbwire or hog panels.

**Canal Shaping, Grading and Compacting:** Contractor shall shape and grade the ACID Main Canal and levy within the limits of the Project including grading the canal bottom to drain downstream, trimming canal side slopes to achieve more uniform slopes. Referencing to the minimum dimensions shown on the TYPICAL CANAL SECTIONS EXHIBIT. All inside and outside embankment slopes and embankment tops shall be compacted per the SPECIFICATIONS FOR CANAL EARTHWORK provided below. Canal embankments shall be built up to a minimum of 15-inches (±) of freeboard from the Canal historical high-water elevation. Historical high-water elevations are provided by the District

## Main Canal Capital Improvement Project Priorities

and painted on existing structures located along the canal reach included in the Project. The left bank canal access road shall be constructed to be a minimum of 12-feet ( $\pm$ ) wide if not already so. Fill material on the embankment top and outside slopes shall be placed and compacted per the SPECIFICATIONS FOR CANAL EARTHWORK provided below. No fill material shall be placed on the inside slope except with prior authorization from the District. The Contractor shall also evenly distribute any excess material resulting from shaping and grading on the outside bank of the canal levy.

**Disposal or Disbursement of Unsuitable Materials:** Unsuitable materials that include only earthen material contaminated with organics that have already been cleared and grubbed may be spread evenly over the outside slope of the levy after construction is complete. Any unsuitable non-native materials found buried within the canal banks shall be disposed of.

**Project Meetings and Construction Schedule:** Once the “Green Light” is given to begin, the District will arrange and conduct progress meetings. These meetings shall be conducted weekly throughout the duration of the Project, unless scheduled otherwise and shall be attended by District staff, Contractor, and representatives of any subcontractors. The purpose of these meetings shall be to review the progress of the project and resolve any projected or unforeseen issues and verify projects progression.

### **SPECIFICATIONS FOR CANAL EARTHWORK**

#### **1. COMPACTION OF CANAL INSIDE SLOPES**

Compaction of both canal inside slopes is required along the full extent of the canal included in the Project. Compaction shall be performed after grubbing, vegetation removal and canal shaping is complete resulting in a uniform trapezoidal channel free of vegetation and debris. Side slope compaction shall be performed by a universal compaction wheel, vibratory plate compactor or other compaction method with prior approval from the District. Compaction shall be performed with sufficient duration and number of passes to collapse rodent holes and voids made from removed vegetation and result in the existing embankment side slopes to be made firm and unyielding, to the satisfaction of the District.

Following inside canal slope compaction, the Contractor shall finish grade canal so the channel is smooth and free from loose earth material, debris, rocks, vegetation and indentations from compaction operations.

#### **2. COMPACTION OF CANAL BOTTOM**

## Main Canal Capital Improvement Project Priorities

Compaction of the canal bottom is required along the full extent of the canal included in the Project. Compaction shall be performed by a vibratory roller or other compaction method with prior approval from the District. Care should be taken to locate and prevent damage from compaction activities to existing underground structures and pipes.

Compaction shall be performed with sufficient duration and number of passes to result in the existing canal bottom being made firm and unyielding and to the satisfaction of the District. Due to diverse soil structure throughout the district, firm and unyielding may not be achievable in certain areas. These areas should be brought to the Districts attention immediately to discuss options of a plan forward.

### 3. COMPACTION OF EMBANKMENT TOPS

Compaction of embankment tops is required along the full length of the canal included in the Project and includes both embankments where applicable. For portions of the canal where there is only one defined canal embankment (left embankment), only that embankment requires compaction.

Compaction shall be performed by a vibratory roller or other compaction method with prior approval from the District. Care should be taken to locate and prevent damage to existing underground structures and pipes from compaction activities. Compaction shall be performed with sufficient duration and number of passes to result in the existing embankment tops being made firm and unyielding and to the satisfaction of the District.

Following canal top compaction, the Contractor shall finish grade the embankment providing a smooth driving surface which slopes to drain away from the canal center.

### 4. COMPACTION OF OUTSIDE SLOPES OF EMBANKMENT

Compaction of canal outside slopes is required along the full length of the canal included in the Project and includes both embankments where applicable. For portions of the canal where there is only one defined embankment (typically left embankment), only that embankment side requires compaction.

Compaction shall be performed after grubbing and vegetation removal is complete. Side slope compaction shall be performed by a universal vibratory compaction wheel, vibratory plate compactor or other compaction method with prior approval from the District. Compaction shall be performed with sufficient duration and number of passes to collapse

## Main Canal Capital Improvement Project Priorities

of rodent holes and voids made from removed vegetation and result in the existing embankment side slopes being made firm and unyielding, to the satisfaction of the District.

### 5. PLACEMENT AND COMPACTION OF FILL MATERIAL

Placement and Compaction of fill material is anticipated in the following situations:

- Placement of fill material to raise embankment elevation to be 15-inches (minimum) above the high-water elevation in the canal.
- Placement of fill material to widen the canal drive access embankment (left bank) to 12-feet.
- Placement of fill material in voids in the canal embankment due to removal of vegetation, tree root balls, unsuitable material, or other objects.

Placement of fill materials shall be conducted per Section 5 – Specifications for Placement and Compaction of Fill Materials.

### 6. SPECIFICATIONS FOR PLACEMENT AND COMPACTION OF FILL MATERIALS

- a. Unless otherwise noted, placement and compaction of engineered fill materials for all fill areas shall be performed according to the provisions of the State Standard Specifications, Section 19-6.
- b. Embankment Material:
  - i. Contain a minimum fines content of 20;
  - ii. Have a PI range between 10-25.
  - iii. Contain generally well-graded material with no rocks larger than 6-inches, granted any cobbles are sufficiently mixed with smaller grained material such that no areas of nested cobbles exist.
  - iv. Organic material content shall not exceed 2% by volume.
- c. Subgrade Preparation: Before placing fill, scarify ground surface to a depth of 8 inches below the original ground surface to provide ample bond between old and new material. Compact scarified ground surface to 95% relative

## Main Canal Capital Improvement Project Priorities

density (ASTM D1557). Do not backfill over porous, wet, or spongy subgrade surfaces.

- d. **Compaction of Fill Materials:** All fill shall be compacted to a minimum of 95% relative density (ASTM D1557). Place fill material in layers not exceeding 8 inches, loose measurement. Compact each layer before placing the next layer. As the compaction of each layer progresses, continually level and manipulate to ensure uniform moisture content and density. Add water to obtain optimum moisture content. Removal of excess water shall be accomplished through aeration by plowing, blading, disking, or other methods satisfactory to the Engineer. The excavation, placing, moistening, and compacting operations shall be such that the material will be uniformly compacted and will be homogeneous, free from lenses, pockets, streaks, voids, and laminations or other imperfections such that the materials when compacted will be blended sufficiently to achieve the required density.
- e. **Keyed Benching into Existing Slopes and embankment excavations**
  - i. As shown and described on the TYPICAL CANAL SECTIONS EXHIBIT (attached), new embankment fill material shall be keyed into the existing slope.
  - ii. Where traditional tracked equipment can be used for spreading fill materials, this can be executed with the use of a dozer blade, excavator or similar equipment.
  - iii. Benching into the existing slope can occur during the spreading and compacting phase of work.
  - iv. In sliver fill areas, the benching shall be performed prior to the placement of fill.
  - v. After benching of existing slope, the Owner's Representative shall inspect embankment for suitability of existing soils.
- f. **Embankments** shall be constructed to top widths and side slopes as shown on the TYPICAL CANAL SECTIONS EXHIBIT (attached). Materials for embankments shall be obtained from the District stockpile or from another source with prior authorization from the District. All borrow material must comply with this specification.

## Main Canal Capital Improvement Project Priorities

- g. If unsuitable material is found to be present in the existing embankment, additional excavation and material blending or import may be required as directed by the District.
- h. Moisture Conditioning: Fill material shall be moisture conditioned in order to meet compaction requirements with optimum moisture content ( $\pm 2\%$ ).
- i. Non-native, sandy, and cohesionless materials found within the canal embankment, shall be removed as outlined below.
  - i. Non-native, sandy, and cohesionless material found within the canal embankments shall be removed vertically and/or horizontally no less than 12 inches beyond the unsuitable layer, or 2 feet below the canal invert, whichever is less, or as directed by the District. Replaced fill shall meet Embankment Material specifications as identified in part 5-b of this Section.
  - ii. Sandy and cohesionless materials shall be blended with other earthen clayey materials unless directed otherwise by the District.
  - iii. Non-native materials (i.e. concrete rubble) shall be disposed of as unsuitable material as directed by the District.

## 7. PROJECT SITE TESTING

- a. All placement of fill material in or against the canal embankments shall be subject to compaction testing by the Owner.
- b. All sampling, specimen preparation, and testing of materials shall be in accordance with the standards of nationally recognized technical organizations.
- c. Contractor shall give District timely notice (48 hours minimum) of readiness of the Work for all required inspections, tests, or approvals and shall cooperate with inspection and testing personnel to facilitate required inspections or tests.
- d. Except for specified material suitability tests, all initial routine tests of materials shall be at the expense of the District and shall be performed by an independent certified laboratory designated by the District. Whenever a specified percent relative compaction test is required and the material or portion thereof so tested fails to meet or exceed the relative compaction

## Main Canal Capital Improvement Project Priorities

specified, all subsequent retesting shall be performed at the expense of the Contractor.

- e. Upon receipt of notice, Contractor shall correct all defective or rejected Work and replace it with Work that is not defective, at no cost to the District.
- f. When employed, typical compaction testing frequency for canal embankments: At least 1 test per lift per 1,000 sf of surface area or every 200 lineal foot of embankment, or 2,000 cubic yards of fill placed, whichever is more frequent.

## **Water Efficiency Project**

### **Churn Creek Bottom**

## **Churn Creek Bottom**

The overall theme for the 2025/2026 off season is to fix leaking pipes, raise the banks, reshape and compact as many ditches as possible. The objective of the proposed work is to improve overall water efficiency, capacity, and access for Staff to do maintenance and repairs to the entire system. Every proposed reach will have consistent challenges. These challenges drive the overall scope of work. The basic scope of work is to increase capacity by reshaping, compacting, raising the canal banks 6" or more, and repair leaking pipes system wide.

Contractor will remove/grub vegetation from the ditch bank, reshape and compact each section of open ditch. Erosion control measures are to be taken on the upstream and downstream sides of any road or driveway crossing and check structures. All erosion control will be installed by the contractor. Any existing erosion control will be removed and replaced after reshaping if agreed to be suitable and practical to leave through coordination of the Contractor and District. District will use temporary labor and/or district staff to reinstall fencing when necessary. Reaches are shown below. The District will purchase and store materials for project use:

- **Erosion control materials**
  - Engineer Stone 6-12" - \$36/ton
  - 3"x8" Crush-\$23.50/ton
- **Fencing supplies and tools**
  - 6' T-posts - \$6.50 ea. w/ clips
  - 1320 ft roll of barbed wire - \$83 per roll
  - 16'x50" fence Panels - \$40 each
- **Suitable fill**-soil (clay)to be trucked from source
  - Market price from source

### **Obstacles/Challenges:**

- Fences on or too close to the ditch bank needing to be relocated and should be identified before work begins.
- Driveway and Road crossings that require custom earth work and erosion control measures
- Headwalls and checks that will also require custom earth work and erosion control measures
- One side of ditch is too small to access. Difficult access overall.

-Vegetation-Working around large oak trees close to or on the ditch bank that should be considered for saving

-Not enough soil to salvage for a consistent shape water channel

### **Description of the Work for Reshape and Compact**

**Mobilization/Demobilization, Insurance, and Permits:** Contractor shall provide all labor, materials, tools, equipment and incidentals necessary for mobilization, insurance, and licenses, required during the performance of the work as specified. This also includes demobilization, including the removal of all equipment, supplies, personnel and incidentals from the project at the end of construction.

**Miscellaneous Facilities and Operations:** Contractor shall make provisions for traffic control, worker and public safety protections, temporary access improvements such as gravel used for the Contractor's access during construction, protection of existing facilities, general project clean up, temporary power, and all costs for miscellaneous work not specifically mentioned in other work items below.

**Vegetation Removal, Clearing and Grubbing:** Contractor shall clear, grub, strip and dispose of vegetation from the canal levy down to the toe of the embankment and inside the water channel. This also includes the removal and disposal of trees, stumps, and root balls from canal embankment area. The Contractor shall reconstruct the embankment area where trees stumps were removed (refer to SPECIFICATIONS FOR CANAL EARTHWORK below). Generally, all vegetation shall be removed from the inside of the canal to the outer toe of the embankments. This item includes the hauling and off-site disposal of vegetation. Contractor may also burn removed vegetation if conditions permit.

**Fence Relocation:** Where fences exist, within the work area, on the top or outside slope of the Canal embankment, the Contractor shall remove the existing fence. The Contractor will make every attempt to salvage existing fence materials. Unsuitable material will be gathered up and hauled off site to District property on Barney St. District Staff will coordinate relocation of removed fencing with landowners on an, as needed basis. If convenient for contractor to reinstall any incidental fence removal, District will supply fencing materials as requested. Fencing supplies will consist of T-posts, barbwire or hog panels.

**Canal Shaping, Grading and Compacting:** Contractor shall shape and grade the ACID Main Canal and levy within the limits of the Project including grading the canal bottom to drain downstream, trimming canal side slopes to achieve more uniform slopes. Referencing to the general dimensions shown on the TYPICAL CANAL SECTIONS EXHIBIT. All inside and outside embankment slopes and embankment tops shall be compacted per

the SPECIFICATIONS FOR CANAL EARTHWORK provided below. Canal embankments shall be built up to 8" (+/-) freeboard from the Canal historical high-water elevation or match grade at existing check structures. Historical high-water elevations are provided by the District and painted on existing structures located along the canal reach included in the Project. The left bank canal access road shall be constructed to be a minimum of 8 feet (±) wide if not already so. Fill material on the embankment top and outside slopes shall be placed and compacted per the SPECIFICATIONS FOR CANAL EARTHWORK provided below. No fill material shall be placed on the inside slope except with prior authorization from the District. The Contractor shall also evenly distribute any excess material resulting from shaping and grading on the outside bank of the canal levy.

**Disposal or Disbursement of Unsuitable Materials:** Unsuitable materials that include only earthen material contaminated with organics that have already been cleared and grubbed may be spread evenly over the outside slope of the levy after construction is complete. Any unsuitable non-native materials found buried within the canal banks shall be disposed of or used for erosion control.

**Project Meetings and Construction Schedule:** Once the "Green Light" is given to begin, the District will arrange and conduct progress meetings. These meetings shall be conducted weekly throughout the duration of the Project, unless scheduled otherwise and shall be attended by District staff, Contractor, and representatives of any subcontractors. The purpose of these meetings shall be to review the progress of the project and resolve any projected or unforeseen issues and follow progression.

## **SPECIFICATIONS FOR CANAL EARTHWORK**

### **1. COMPACTION OF CANAL INSIDE SLOPES**

Compaction of both canal inside slopes is required along the full extent of the canal included in the Project. Compaction shall be performed after grubbing, vegetation removal and canal shaping is complete resulting in a uniform trapezoidal channel free of vegetation and debris. Side slope compaction shall be performed by a universal compaction wheel, vibratory plate compactor or other compaction method with prior approval from the District. Compaction shall be performed with sufficient duration and number of passes to collapse rodent holes and voids made from removed vegetation and result in the existing embankment side slopes to be made firm and unyielding, to the satisfaction of the District.

Following inside canal slope compaction, the Contractor shall finish grade canal, so the channel is smooth and free from loose earth material, debris, rocks, vegetation and indentations from compaction operations.

## 2. COMPACTION OF CANAL BOTTOM

Compaction of the canal bottom is required along the full extent of the canal included in the Project. Compaction shall be performed by a vibratory roller or other compaction method with prior approval from the District. Care should be taken to locate and prevent damage from compaction activities to existing underground structures and pipes.

Compaction shall be performed with sufficient duration and number of passes to result in the existing canal bottom being made firm and unyielding and to the satisfaction of the District. Due to diverse soil structure throughout the district, firm and unyielding may not be achievable in certain areas. These areas should be brought to the Districts attention immediately to discuss options of a plan forward.

## 3. COMPACTION OF EMBANKMENT TOPS

Compaction of embankment tops is required along the full length of the canal included in the Project and includes both embankments where applicable. For portions of the canal where there is only one defined canal embankment (left embankment), only that embankment requires compaction.

Compaction shall be performed by a vibratory roller or other compaction method with prior approval from the District. Care should be taken to locate and prevent damage to existing underground structures and pipes from compaction activities. Compaction shall be performed with sufficient duration and number of passes to result in the existing embankment tops being made firm and unyielding and to the satisfaction of the District.

Following canal top compaction, the Contractor shall finish grade the embankment providing a smooth surface which slopes to drain away from the canal center.

## 4. COMPACTION OF OUTSIDE SLOPES OF EMBANKMENT

Compaction of canal outside slopes is required along the full length of the canal included in the Project and includes both embankments where applicable. For portions of the canal where there is only one defined embankment (typically left embankment), only that embankment side requires compaction.

Compaction shall be performed after grubbing and vegetation removal is complete. Side slope compaction shall be performed by a universal vibratory compaction wheel, vibratory plate compactor or other compaction method with prior approval from the District.

Compaction shall be performed with sufficient duration and number of passes to collapse rodent holes and voids made from removed vegetation and result in the existing embankment side slopes being made firm and unyielding, to the satisfaction of the District.

## 5. PLACEMENT AND COMPACTION OF FILL MATERIAL

Placement and Compaction of fill material is anticipated in the following situations:

- To raise embankment elevation to be 8 inches(+/-) above the high-water elevation in the canal.
- To widen the canal access embankment to 8-feet.
- In voids in the canal embankment due to removal of vegetation, tree root balls, unsuitable material, or other objects.
- Where there is not enough salvageable material to achieve a uniform trapezoidal channel

## Main Canal

## PRIORITY #2-MC I-5 Rentals to Smith Rd 5000ft

This section is riddled with rodent holes in the top 18" and lows spots that reduce capacity. There are also multiple large oak trees on this reach along with vegetation that needs to be removed. When canal levels are raised to irrigation height water leaks out of the canal on the residential side and saturates the adjacent properties. Adjacent 2500ft of fencing on the residential side will impede access and need to be relocated after construction.

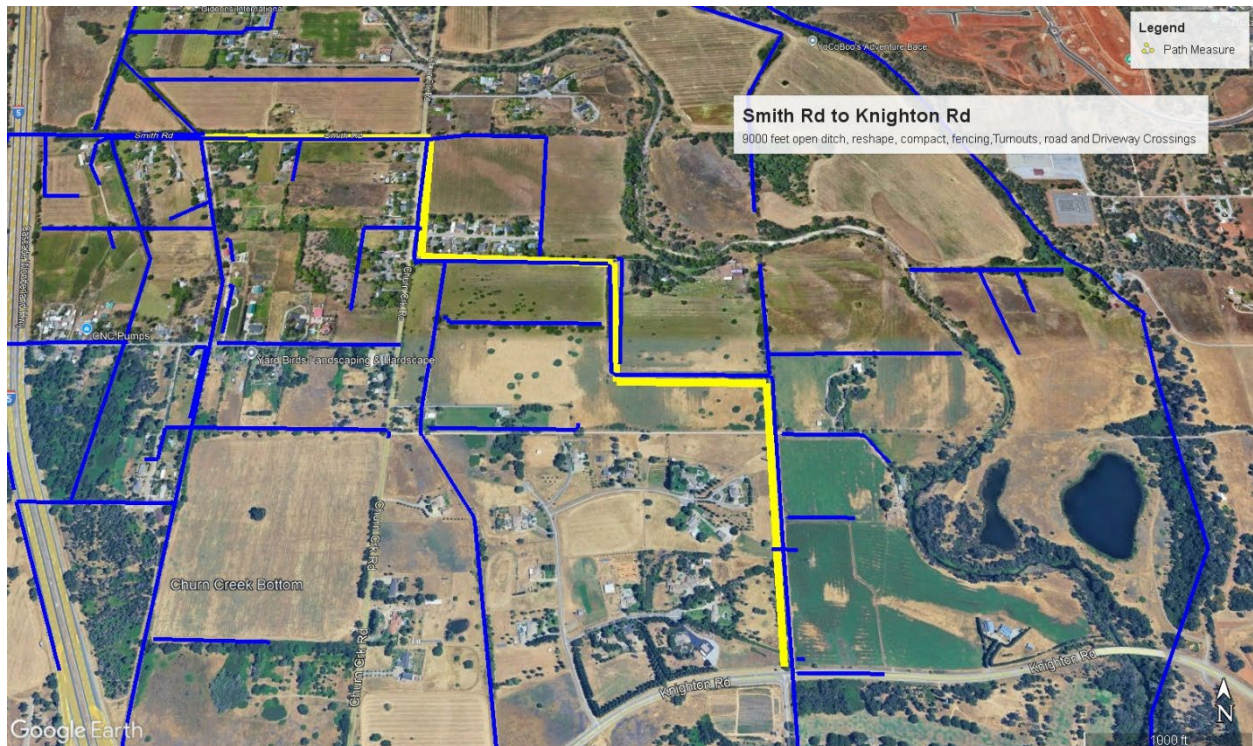


| Description             | Qty  | Unit | Unit Cost | Total Cost |
|-------------------------|------|------|-----------|------------|
| I-5 Rentals to Smith Rd | 5000 | LF   | \$55-\$65 |            |

## Main Canal

### PRIORITY #1- MC Smith to Knighton-9500ft-reshape-compact

This section needs to be grubbed of vegetation, reshaped, and banks raised 8” or more to increase overall capacity. Over time the bank has settled or eroded away, been damaged by cattle and has approximately 2000 feet of fencing to be relocated

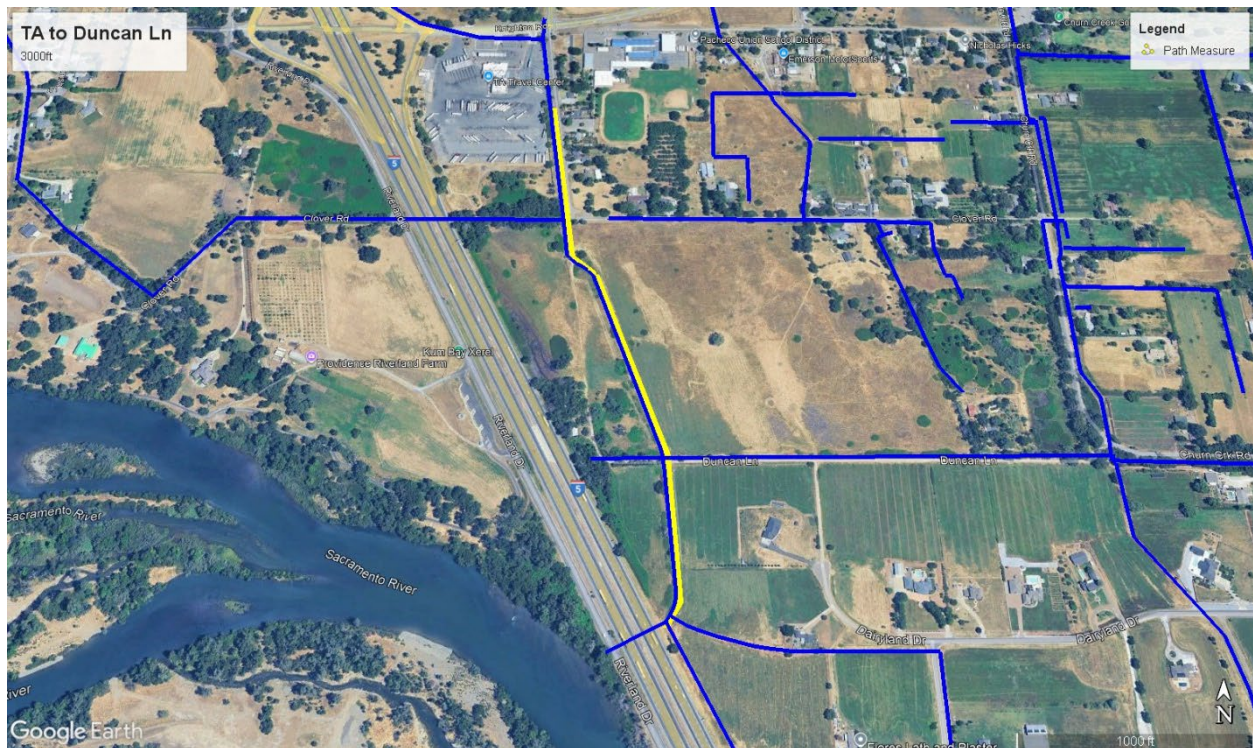


| Description           | Qty  | Unit | Unit Cost | Total Cost |
|-----------------------|------|------|-----------|------------|
| Smith Rd. to Knighton | 9500 | LF   | \$55-\$65 |            |

## **Freeway Ditch**

### **Priority #1 TA to Duncan – 3000ft**

Open Ditch portion starts behind the TA truck stop on Pacheco Rd. and continues through Duncan Ln.



| Description  | Qty  | Unit | Unit Cost | Total Cost |
|--------------|------|------|-----------|------------|
| TA to Duncan | 3000 | LF   | \$55-65   |            |

## Freeway Ditch

### **PRIORITY #2 -Peach Lane – 760ft**



| Description | Qty | Unit | Unit Cost | Total Cost |
|-------------|-----|------|-----------|------------|
| Peach Lane  | 760 | LF   | \$55-\$65 |            |

# Leaking Pipes – Churn Creek

The general scope of work is to remove and replace existing pipelines, connecting the new pipe to existing infrastructure. The District will purchase all materials needed for the project. Contractor shall excavate, remove and dispose of existing pipelines.

## **MC Golf course-200ft leaking pipe 48”**

200ft – 48” HDPE @ 87.13/ft = \$17,426 plus Tax and delivery

8 – 48” Mar Mac Poly seal coupler - \$250 each = \$2064 plus tax and delivery

Estimated- \$30,000 in contracted services

Pipe leaks into the golf course maintenance yard when water is in the pipe. Past repairs have connected dissimilar pipes. The connecting pipe is undersized, leaks at the connection and is a point of restriction. Replace entire 200 feet of pipe from headwall with 48’ HDPE to increase water efficiency



## **Churn Creek Bottom**

### **MC Countryside lane- 150ft leaking pipe 36" concrete pipe**

This section of 36" concrete pipe has progressively gotten worse over the 2024-2025 water season and needs to be replaced from box to box. It now leaks for a period of 4 days while water is in the pipe and floods across Countryside Lane and down a driveway. At peak levels the water loss is equivalent to a 6" - 8" pipe

180 ft - 36" HDPE @ \$57/ft = \$10,260 plus tax and delivery

7 - Mar Mac 36" Poly seal coupler - \$201 each = \$1407 plus tax and delivery

Estimated - \$30,000 contracted services to install



## A.C.I.D. Pipe Replacement

### **Lateral 29 Pipe Replacement- 700'section(approx.)**

Lateral 29 conveys water to multiple customers. The section of pipe spans approximately 700 feet. This section, 24" re-enforced concrete pipe with head walls, has reached the end of Its life cycle. Water has eroded around the head walls, shifted them, and caused separation from the pipe. The pipe leaks an unknown amount of water during the irrigation season which could otherwise be utilized for beneficial use.

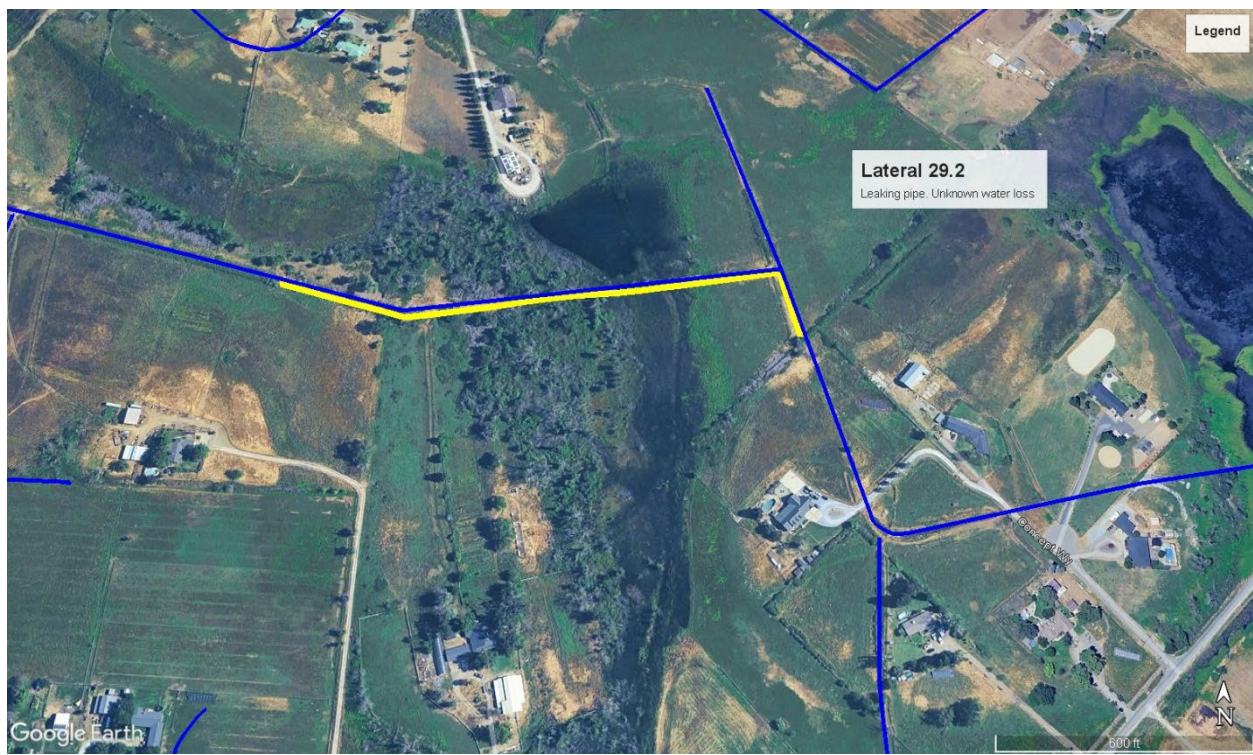


| Description | Qty | Unit | Unit Cost | Total Cost |
|-------------|-----|------|-----------|------------|
| Lateral 29  | 700 | LF   |           |            |

## Lateral 29.2 Pipe Replacement- 1600' section(approx.) – 24" PVC

Lateral 29.2 conveys water to multiple customers. This 30" corrugated metal section of pipe is both underground and above ground. The above ground portion of this section is supported by concrete saddles. Both the above ground portion and the supporting saddles have reached the end of their life cycle. The section of pipe spans 1600 feet and crosses four different parcels.

The saddles have separated from the pipe in specific sections giving no support to the pipe itself. The water has corroded the pipe to such an extent that the integrity of the pipe and unions are compromised. The pipe leaks an unknown amount of water during the irrigation season which could otherwise be utilized for beneficial use.



| Description        | Qty  | Unit | Unit Cost | Total Cost |
|--------------------|------|------|-----------|------------|
| Lat 29<br>Hereford | 1700 | LF   |           |            |

### **Lateral 33 Broken Pipe- 1250ft 24”**

This section of pipe has also reached the end of its’ life cycle and needs total replacement. The section has a headwall at the entrance and exit that will need to be replaced. There is a distribution structure that will also need to be considered for replacement or reconnecting to.



| Description     | Qty  | Unit | Unit Cost | Total Cost |
|-----------------|------|------|-----------|------------|
| Lat 33 Lonetree | 1250 | LF   |           |            |

### **Scope of Work**

A.C.I.D will supply 24” 80 PIP PVC pipe for job, any connection fittings and job specific pre casted distribution boxes. Supplies to be ordered and on hand before start of work. Contractor will perform entire job.

- Clear any vegetation impeding access to project
- Remove and replace fences for access
- Remove existing infrastructure and haul off
- Establish grade
- Place 4-6” of rock bedding for pipe to lay on

- Install head walls - build in place or use precast material
- Pour-in-place pipe saddles
- Install distribution boxes
- Install pipe
- Complete connections
- Back fill with existing and/or imported soil
- Apply Protective coating to exposed pipe.
- Leave job site clean when complete

**Mobilization/Demobilization, Insurance, and Permits:** Contractor shall provide all labor, materials, tools, equipment and incidentals necessary for mobilization, insurance, and licenses, required during the performance of the work as specified. This also includes demobilization, including the removal of all equipment, supplies, personnel and incidentals from the project at the end of construction.

**Miscellaneous Facilities and Operations:** Contractor shall make provisions for worker and public safety protections, temporary access improvements such as gravel used for the Contractor's access during construction, protection of existing facilities, general project clean up, temporary power, and all costs for miscellaneous work not specifically mentioned in other work items below.

**Vegetation Removal, Clearing and Grubbing:** Contractor shall clear, grub, strip and dispose of vegetation 5'-10' on both sides of new pipeline or from the work area. This also includes the removal and disposal of trees, stumps, and root balls. Generally, all vegetation shall be removed from the work site. This item includes the hauling of removed vegetation to an off-site disposal location. Contractor may also burn removed vegetation if conditions permit.

**Fence Relocation:** Where fences exist, within the work area the Contractor shall remove the existing fence. The Contractor will make every attempt to salvage existing fence materials to put back after work is complete. If removed fencing is unsuitable for replacement, the District will supply fencing materials as requested. Fencing supplies will consist of T-posts, barbwire or hog panels.

# **2025/2026 Off-Season Work - Staff**

## **New Grilles**

1. Hill Ditch Pipe
2. Lateral 29 @ MC
3. Lat 29 Hereford
4. Broadhurst
5. Lat 27 on MC
6. Lat 21.3 – Orchard valve
7. Lat 29 – Grimsman
8. Lat 3 Pioneer Grille

## **Diversion Facility**

1. Replace I-Beams on fish screen (contractor?)
2. Lubricate and maintenance trash rake
3. Inspect and repair Drum Gate
4. Clean/polish fish viewing windows

## **Main Canal – De-veg/Compact**

1. Broadhurst – de-veg, roller compact behind gingerbread house
2. MC-Low spot between school ditch and Stayley- clear veg grade road

## **Area 1 (Redding)**

1. De veg Main canal from HWY 44 to Clear Creek siphon CAL FIRE
2. Leak at Juniper School
3. Board Slot/Grille Pioneer
4. Clean Lateral 3 Pioneer to Mulberry
5. Live oak siphon- inspect grille, clear debris in, on, and around siphon

## **Area 3 (Churn Creek)**

1. Smith Road Split remove and re-level blocks
2. Clean out lined section with Skid steer
3. Improve turn out Niles Lane (Launa)
4. 9'x15" countryside lane valve-replace
5. Danish way valve-gravel pant inspect/replace
6. Holstein check-dirt work
7. Mortar Green Meadows Box (Pablo)
8. Gopher holes – 19919 Country side lane (Kristen)-530-355-7870

## **2025/2026 Off-Season Work - Staff**

9. School Ditch – Ivar's valves
10. Repair leaking turn outs behind TA
11. Remove wood from banks- end of Weeks Rd

### **Area 21**

- 1. Lateral 21 siphon – Deschutes Xing**
2. Lateral 21 siphon- Shady Ln. to S-Turn(inspect for leaks)
3. Lateral 21 Bill Robinsons pipe(s-turn pond)
4. Lat 21.3 – clear and repair Cindy Lakes box
5. Lateral 19 – Missouri drain into lateral
6. Lat 27 pallet ditch- veg – reshape
7. Lat 27 – veg reshape – eucalyptus grove Hawes/Hopson
8. Shady Lane Pipe line
9. Slide gate twin oaks
10. Rip rap new turn out at Spring Gulch

### **Area 5**

1. Patricia Harman-Pick up Ditch- install 900 ft of 24” pipe
2. Josh Daveys ditch to Leedy
3. Leedy cut and treat
4. Pick up ditch pond dump valve
5. Target practice box- mortar inside and seal leaks
6. Lat 35-Joanna Brown- leaking pipe
7. Lat 35 – Cliff's Check
8. Little web slide gate - Johna
9. 4555 webb Rd- leaking pipe between boxes-Arbiso-Johna
10. Lat 35- replace slide gates in box that irrigates Tonja-Johna

### **Area 6**

1. Frank Bernard ditch Lateral 51
2. Raise sides 6” on Bobbin Flume???
3. Floyd Lane to Adams
4. I-5 to Bengard
5. Sheree Koufield valve(Smith Bottom)
6. Lat 41- pipe leaks under road @ alfalfa lid