



**REGULAR BOARD MEETING AGENDA
TRABUCO CANYON WATER DISTRICT
32003 DOVE CANYON DRIVE, TRABUCO CANYON, CALIFORNIA
ADMINISTRATIVE FACILITY
NOVEMBER 19, 2025 AT 6:00 PM**

BOARD OF DIRECTORS

Edward Mandich, President
Glenn Acosta, Vice President
Mark Anderson, Director
John Horst, Director
Michael Safranski, Director

DISTRICT STAFF

Fernando Paludi, General Manager
Michael Perea, District Secretary
Ian Berg, District Treasurer
Hanson Bridgett LLP, District General Legal Counsel

AGENDA NOTE:

Trabuco Canyon Water District (District) will make this Regular Board Meeting available by telephone audio as follows:

Telephone Audio: 1 (669) 900-6833 (Toll Free) **Access Code:** 964-7642-1987

Persons desiring to monitor the Board meeting agenda items may download the Board meeting agenda and documents on the internet at www.tcwd.ca.gov. You may submit public comments by email to the Board at mperea@tcwd.ca.gov. In order to be part of the record, emailed comments on meeting agenda items must be received by the District, at the referenced e-mail address, not later than 5:00 p.m. (PDT) on the day of the meeting.

CALL MEETING TO ORDER

PLEDGE OF ALLEGIANCE

ITEMS RECEIVED TOO LATE TO BE AGENDIZED

Determine need and take action on item(s) that arose subsequent to posting the Regular Board Meeting agenda.

VISITOR PARTICIPATION

Members of the public wishing to address the Board regarding a particular item on the agenda are requested to submit public comments by email to the Board at mperea@tcwd.ca.gov. Public comments may also be submitted by teleconference during the meeting. The Board President will call on the visitor following the Board's discussion about the matter. Members of the public will be given the opportunity to speak prior to the Board taking action on that item. For persons desiring to make verbal comments and utilizing a translator to present their comments into English reasonable time accommodations, consistent with State law, shall be provided. Please limit comments to three minutes.

ORAL COMMUNICATION

Members of the public who wish to comment on matters not appearing on the agenda are requested to submit oral communication by email to the Board at mperea@tcwd.ca.gov. Public comments may also be submitted by teleconference during the meeting. Under the requirements of State Law, Directors cannot act on items not identified on the agenda and will not make decisions on such matters. The Board President may direct District Staff to follow up on issues as may be deemed appropriate. For persons desiring to make verbal comments and utilizing a translator to present their comments into English reasonable time accommodations, consistent with State law, shall be provided. Please limit comments to three minutes.

DIRECTORS' COMMENTS AND MEETING REPORTS

REPORT FROM THE GENERAL MANAGER

CONSENT CALENDAR

All matters under the Consent Calendar will be approved by one motion unless a Board member or staff member requests a separate action on a specific item.

ITEM 1: APPROVAL OF MINUTES OF BOARD MEETING(S)

RECOMMENDED ACTION

Approve the minutes of the following Board Meetings:

- 1. October 15, 2025 Special Board Meeting*
- 2. October 15, 2025 Regular Board Meeting*
- 3. October 21, 2025 Special Board Meeting*
- 4. October 29, 2025 Special Board Meeting*
- 5. October 30, 2025 Special Board Meeting*

ITEM 2: TREASURER’S REPORT

a. *FINANCE/AUDIT COMMITTEE MEETING*

RECOMMENDED ACTION:

Receive and file the following Finance/Audit Committee Meeting Recap(s):

- 1. October 9, 2025*

b. *PRESENTATION OF FINANCIALS*

RECOMMENDED ACTION:

Receive and file the preliminary statement(s) of revenues and expenses and preliminary unaudited financials for the following month(s):

- 1. September 2025*

c. *PAYMENT OF BILLS FOR CONSIDERATION*

RECOMMENDED ACTION:

ratify the payment of bills for consideration, Payroll and Payroll Taxes for October 2025.

ITEM 3: APPROVAL OF ENGINEERING/OPERATIONAL COMMITTEE MEETING RECAP(S)

RECOMMENDED ACTION:

Receive and file the following Engineering/Operational Committee Meeting Recap(s):

- 1. October 1, 2025*

ITEM 4: APPROVAL OF EXECUTIVE COMMITTEE MEETING RECAP(S)

RECOMMENDED ACTION:

Receive and file the following Executive Committee Meeting Recap(s):

- 1. September 8, 2025*
- 2. October 13, 2025*



ACTION CALENDAR

All matters under the Action Calendar have been reviewed by the General Manager and Staff prior to the Board's consideration.

ADMINISTRATIVE MATTERS

ITEM 5: RATIFICATION OF DIRECTORS' FEES AND EXPENSES, AND TENTATIVE FUTURE MEETINGS/ ATTENDANCE

RECOMMENDED ACTION(S):

Approve the tentative future meetings/attendance items and ratify the Directors' expenses and fees for the following period(s):

1. October 2025

ITEM 6: INFORMATIONAL UPDATES FROM BOARD COMMITTEES

RECOMMENDED ACTION(S):

Receive updates and information from Board Committee Chairs/Members and take action(s) as deemed appropriate.

ITEM 7: SPECIAL DISTRICT LEADERSHIP FOUNDATION (SDLF) TRANSPARENCY CERTIFICATE OF EXCELLENCE AWARD TO TRABUCO CANYON WATER DISTRICT

RECOMMENDED ACTION(S):

Receive presentation at the time of the meeting and take action(s) as deemed appropriate.

ITEM 8: PRESENTATION ON BOARD DISTRICTING/ESTABLISHING VOTER DIVISIONS – GENERAL COUNSEL

RECOMMENDED ACTION(S):

1. Receive presentation at the time of the meeting.
2. Adopt Resolution No. 2025-1360 – Resolution of the Board of Directors of Trabuco Canyon Water District Declaring Its Intention To Transition from an At-Large Election System to a District-Based Election System Pursuant To California Elections Code 10010.

FINANCIAL MATTERS

ITEM 9: DISCUSSION AND POSSIBLE ACTION(S) CONCERNING TRABUCO CANYON WATER DISTRICT'S CURRENT RATES & CHARGES

RECOMMENDED ACTION:

Receive information at the time of the meeting and take action(s) as deemed appropriate.

ITEM 10: ADOPTION OF RESOLUTION FOR REIMBURSEMENT OF CERTAIN COSTS FROM PROCEEDS OF TAX-EXEMPT OBLIGATIONS

RECOMMENDED ACTION:

Adopt Resolution No. 2025-1359 – Resolution of the Board of Directors of the Trabuco Canyon Water District Regarding Its Intention to Reimburse Certain Costs from Proceeds of Tax-Exempt Obligations.



ENGINEERING MATTERS

ITEM 11: AWARD OF CONSTRUCTION CONTRACT FOR HERITAGE SEWER LIFT STATION IMPROVEMENTS

RECOMMENDED ACTION:

Authorize the General Manager to award a construction contract for the Heritage SLS Improvement Project to Ferreria Construction Co., Inc DBA Ferreria Coastal Construction, in the amount of \$1,799,813 plus a 10% contingency of \$179,981, for a not-to-exceed amount of \$1,979,794.

ITEM 12: DIMENSION WATER TREATMENT PLANT TRANSMISSION MAIN PIPELINE REHABILITATION PROJECT UPDATE

RECOMMENDED ACTION:

Receive project updates at the time of the meeting. No action required.

LEGISLATIVE AND OTHER MATTERS

ITEM 13: LOCAL GOVERNMENTAL AND LEGISLATIVE INFORMATIONAL MATTER(S)

RECOMMENDED ACTION(S):

Receive information at the time of the meeting and take action(s) as deemed appropriate

CLOSED SESSION(S):

CLOSED SESSION: Personnel Matters pursuant to Government Code § 54957

PUBLIC EMPLOYEE APPOINTMENT

Title: Interim General Manager

CONFERENCE WITH LABOR NEGOTIATORS (Gov. Code § 54957.6)

Agency Designated Representative: Ed Mandich, Board President

Unrepresented employee: Interim General Manager

CONFERENCE WITH LABOR NEGOTIATORS (Gov. Code § 54957.6)

Agency Designated Representatives: Fernando Paludi, Claire Collins, Molly Kaban

Employee Organization: IBEW Local 47

ITEM 14: REPORT OF ACTION(S) TAKEN IN CLOSED SESSION

RECOMMENDED ACTION(S):

Provide announcement(s) of any action(s) taken in Closed Session(s), if any.

ITEM 15: APPOINTMENT OF INTERIM GENERAL MANAGER

RECOMMENDED ACTION(S):

Announce the proposed terms of employment and appoint Michael Perea as Interim General Manager.



**TRABUCO CANYON WATER DISTRICT
REGULAR BOARD MEETING AGENDA | NOVEMBER 19, 2025**

ITEMS RECEIVED TOO LATE TO BE AGENDIZED

ITEM 16: _____

ITEM 17: _____

GENERAL COUNSEL REPORT

OTHER INFORMATION/MATTERS

Reports or comments from the General Manager and/or Staff

ADDITIONAL DIRECTORS' COMMENTS

Additional reports or comments from Directors

END ACTION CALENDAR & ADJOURNMENT

AVAILABILITY OF AGENDA MATERIALS

Agenda exhibits and other writings that are disclosable public records distributed to all or a majority of the members of the Trabuco Canyon Water District Board of Directors in connection with a matter subject to discussion or consideration at an open meeting of the Board of Directors are available for public inspection at the Trabuco Canyon Water District Administrative Facility, 32003 Dove Canyon Drive, Trabuco Canyon, California (District Administrative Facility) and will be posted online on the District's website located at www.tcwd.ca.gov. If such writings are distributed to members of the Board less than 72 hours prior to the meeting, they will be available online at www.tcwd.ca.gov at the same time as they are distributed to the Board Members, except that, if such writings are distributed immediately prior to or during the meeting, they will be posted online on the District's website located at www.tcwd.ca.gov.

COMPLIANCE WITH THE REQUIREMENTS OF CALIFORNIA GOVERNMENT CODE SECTION 54954.2

In compliance with California law and the Americans with Disabilities Act, if you need special disability-related modifications or accommodations, including auxiliary aids or services in order to participate in the meeting, or if you need the agenda provided in an alternative format, please contact the District Secretary at (949) 858-0277, at least 48 hours in advance of the scheduled Board meeting. Notification at least 48 hours prior to the meeting will assist the District in making reasonable arrangements to accommodate your request. The Board Meeting Room is wheelchair accessible.

FUTURE SCHEDULED REGULAR BOARD MEETINGS OF THE BOARD OF DIRECTORS

Upcoming Regular Meetings of the Board are expected to be held at the District Administrative Facility (Board Meeting Room) located at 32003 Dove Canyon Drive, Trabuco Canyon, California 92679 and are currently scheduled as follows:

December 17, 2025 | January 21, 2026 | February 18, 2026



**TRABUCO CANYON WATER DISTRICT
REGULAR BOARD MEETING | NOVEMBER 19, 2025**

CONSENT CALENDAR

ITEM 1: APPROVAL OF MINUTES OF BOARD MEETING(S)

RECOMMENDED ACTION

Approve the minutes of the following Board Meetings:

- 1. October 15, 2025 Special Board Meeting*
- 2. October 15, 2025 Regular Board Meeting*
- 3. October 21, 2025 Special Board Meeting*
- 4. October 29, 2025 Special Board Meeting*
- 5. October 30, 2025 Special Board Meeting*

CONTACTS (staff responsible): PALUDI/PEREA



MINUTES OF THE SPECIAL BOARD MEETING OF THE BOARD OF DIRECTORS OF TRABUCO CANYON WATER DISTRICT | OCTOBER 15, 2025

The Special Meeting of the Board of Directors of the Trabuco Canyon Water District (TCWD or District) conducted on October 15, 2025, was called to order by President Edward Mandich at 12:06 p.m. in the Board Room at the District Administrative Facility located at 32003 Dove Canyon Drive, Trabuco Canyon, California. Mr. Michael Perea, District Secretary, transcribed the minutes thereof.

DIRECTORS PRESENT

President Ed Mandich
Vice President Glenn Acosta
Director Mark Anderson
Director John Horst
Director Michael Safranski

STAFF PRESENT

Fernando Paludi, General Manager
Michael Perea, Assistant General Manager
Roseann Lejsek, Executive Assistant
Phil Serpas, CMMS/SCADA Administrator

DISTRICT CONSULTANTS

None

PUBLIC PRESENT

None

PLEDGE OF ALLEGIANCE

Director Anderson led the Board of Directors, District staff, and audience in the Pledge of Allegiance.

VISITOR PARTICIPATION

None

ORAL COMMUNICATION

None

DIRECTOR'S COMMENTS

None

REPORT FROM THE GENERAL MANAGER

None

**TRABUCO CANYON WATER DISTRICT
SPECIAL MEETING OF THE BOARD OF DIRECTORS MINUTES | OCTOBER 15, 2025**

ACTION CALENDAR

CLOSED SESSION(S):

PUBLIC EMPLOYEE APPOINTMENT (Gov. Code § 54957) - TITLE: GENERAL MANAGER

The Board of Directors entered closed session in accordance with the agenda at 12:08 p.m. The General Manager participated in closed session.

The closed session ended at 2:00 p.m.

ITEM 1: REPORT OF ACTION(S) TAKEN IN CLOSED SESSION

Director Mandich reported that the Board of Directors met in closed session to review the matters as agendaized, and that there was no action to be reported in closed session.

MOTION: None

ADJOURNMENT

President Mandich adjourned the October 15, 2025 Special Board Meeting at 2:00 p.m.

DRAFT



MINUTES OF THE REGULAR BOARD MEETING OF THE BOARD OF DIRECTORS OF TRABUCO CANYON WATER DISTRICT | OCTOBER 15, 2025

The Regular Meeting of the Board of Directors of the Trabuco Canyon Water District (TCWD or District) conducted on October 15, 2025, was called to order by President Ed Mandich at 6:00 p.m. in the Board Room at the District Administrative Facility located at 32003 Dove Canyon Drive, Trabuco Canyon, California. Mr. Michael Perea, District Secretary, transcribed the minutes thereof.

DIRECTORS PRESENT

President Ed Mandich
Vice President Glenn Acosta
Director Mark Anderson
Director John Horst
Director Michael Safranski

DIRECTORS ABSENT

None

STAFF PRESENT

Michael Perea, Assistant General Manager
Lorrie Lausten, District Engineer
Karen Warner, Principal Accountant
Roseann Lejsek, Executive Assistant
Phil Serpas, CMMS/SCADA Administrator
Gary Kessler, Water Operations Superintendent
Other staff were present

STAFF ABSENT

Fernando Paludi, General Manager

DISTRICT CONSULTANTS

Claire Collins, District General Legal Counsel - Hanson Bridgett, LLP
Ian Berg, District Treasurer – Starting Line Advisory

PUBLIC PRESENT

There were members of the public present.

PLEDGE OF ALLEGIANCE

Director Safranski led the Board of Directors, District staff, and audience in the Pledge of Allegiance.

ITEMS RECEIVED TOO LATE TO BE AGENDIZED

None

VISITOR PARTICIPATION

None

**TRABUCO CANYON WATER DISTRICT
REGULAR BOARD OF DIRECTORS MEETING MINUTES | OCTOBER 15, 2025**

ORAL COMMUNICATION

Sue Marucci – Ms. Marucci addressed the Board of Directors with her concerns regarding the District’s outgoing expenses. Ms. Marucci expressed her opinion that a forensic audit should be conducted of the District’s finances.

DIRECTOR’S COMMENTS

Director Safranski provided a brief report on the meetings he attended during the previous month, and he reported on his status update to the Community Associations of Rancho (CAR) group regarding the District’s potential consolidation.

Director Horst provided a brief report on the Municipal Water District of Orange County (MWDOC) meetings he attended earlier in the month.

Director Anderson provided information on the District’s upcoming Special Board Meetings.

Director Mandich reported that there were no new updates on the District’s RFP for Rate Relief, but that the District expects to receive information in December. Director Mandich also reported that a Special Board meeting was held earlier in the day to review candidates for the position of General Manager. Lastly, Director Mandich reported that the District will hold two Special Board meetings on October 21 and October 29, to discuss potential disposition of the Porter property and water rates, respectively.

Director Acosta had no comments.

REPORT FROM THE GENERAL MANAGER

Mr. Paludi reported on the following matters:

- The General Manager recruitment should conclude in the first two weeks of November.
- The General Manager’s last day will be November 19.
- Both agencies that received the RFP for rate relief are working on proposals that should go to their Boards in November.
- Mr. Paludi expressed his appreciation to staff for their professionalism during the RFP process.
- The District is well below the average losses and claims with insurance carrier ACWA JPIA. Thanks to Mr. Perea for being the liaison and working with ACWA JPIA throughout the year.

Mr. Perea provided information on the H2O for HOA’s event taking place October 23rd. Mr. Perea noted that Director Safranski would be sitting on a panel related to home fire hardening.

CONSENT CALENDAR

Director Mandich indicated that all matters under the Consent Calendar would be approved by one motion unless a Board member or staff member requests separate action on a specific item. Mr. Paludi presented Items 1-3 for Board consideration and approval in accordance with the agenda.

ITEM 1: APPROVAL OF MINUTES OF BOARD MEETING(S)

1. September 9, 2025 Special Board Meeting Minutes
2. September 17, 2025 Regular Board Meeting Minutes
3. September 18, 2025 Special Board Meeting Minutes

**TRABUCO CANYON WATER DISTRICT
REGULAR BOARD OF DIRECTORS MEETING MINUTES | OCTOBER 15, 2025**

ITEM 2: TREASURER’S REPORT

1. September 11, 2025 Finance/Audit Committee Meeting Recap
2. August 2025 Preliminary Unaudited Financials
3. September 2025 Bills for Consideration, Payroll and Payroll Taxes

ITEM 3: APPROVAL OF ENGINEERING/OPERATIONAL COMMITTEE MEETING RECAP(S)

1. September 3, 2025 Engineering/Operational Committee Meeting Recap

MOTION: Approve the consent calendar as presented – Director Acosta

SECOND: Director Anderson

AYES: Directors Mandich, Acosta, Anderson, Horst & Safranski

NOES: None

ABSTAIN: None

ABSENT: None

MOTION PASSED/FAILED: Passed 5 – 0

ACTION CALENDAR

ADMINISTRATIVE MATTERS

ITEM 4: RATIFICATION OF DIRECTORS’ FEES AND EXPENSES, AND TENTATIVE FUTURE MEETINGS/ATTENDANCE

Mr. Paludi presented this matter for Director consideration and comment, and he reported that this matter was reviewed with the Finance/Audit Committee.

MOTION: Approve the tentative future meetings/attendance items and ratify the amended Directors’ expenses and fees from September 2025 – Director Acosta

SECOND: Director Safranski

AYES: Directors Mandich, Acosta, Anderson, Horst & Safranski

NOES: None

ABSTAIN: None

ABSENT: None

MOTION PASSED/FAILED: Passed 5 – 0

ITEM 5: INFORMATIONAL UPDATES FROM BOARD COMMITTEES

Mr. Paludi reported that the standing Committees met this month, and there were no additional updates to provide.

MOTION: None. Informational item only.

ITEM 6: APPROVAL OF GENERAL MANAGER CONTRACT AMENDMENT

Director Mandich announced the proposed changes to the General Manager’s contract that renewed on September 1, 2025, stating that there would be no change in compensation but that a \$5,000 bonus would be paid upon separation from the District.

Director Safranski expressed his appreciation to the General Manager for his help and that a retention bonus is well-deserved.

Director Anderson echoed Director Safranski’s comments.

**TRABUCO CANYON WATER DISTRICT
REGULAR BOARD OF DIRECTORS MEETING MINUTES | OCTOBER 15, 2025**

Mr. Paludi commented that he would remain available to the District after his separation.

MOTION: Approve an amendment to the General Manager’s employment agreement to provide for a lump sum bonus of \$5,000 to be paid upon separation from the District and that all other provisions of the employment agreement remain unchanged – Director Acosta

SECOND: Director Safranski

AYES: Directors Mandich, Acosta, Anderson, Horst & Safranski

NOES: None

ABSTAIN: None

ABSENT: None

MOTION PASSED/FAILED: Passed 5 – 0

FINANCIAL MATTERS

ITEM 7: MID-YEAR OPERATING AND CAPITAL BUDGET PLANNING UPDATE

Mr. Paludi presented this matter for Board consideration. Mr. Berg delivered a Fiscal Year 2026 Mid-Year Budget and Financial Plan presentation to the Board, discussing mid-year budget key objectives, strategic considerations, and a budget timeline.

Director Safranski expressed his appreciation to Mr. Berg for his clear and comprehensive financial reporting.

Director Acosta expressed his hope for the potential sale of the Porter property to offset the costs of the Dimension transmission main line rehabilitation project.

MOTION: None. Informational item only.

ENGINEERING MATTERS

ITEM 8: DIMENSION WATER TREATMENT PLANT TRANSMISSION MAIN & FILTER 4 REHAB PROJECT

Mr. Paludi presented this matter for Board consideration. Ms. Lausten reported that Phase 1A of the project was close to completion, and that Phase 1B was scheduled to be completed in early January. Ms. Lausten provided a construction report and presented photos documenting progress of the project. Ms. Lausten also reported that the Filter 4 structural improvement project was complete.

Discussion occurred regarding the pipe bursting portion of the project in Phase 1B, and the Board expressed interest touring the project site. Ms. Lausten stated that she would schedule a tour for the Board to view the process.

MOTION: None – Informational item only.

ITEM 9: QUARTERLY CAPITAL IMPROVEMENT PROGRAM UPDATE

Mr. Paludi presented this matter for Board consideration. Ms. Lausten presented a FY25-26 Capital Improvement Plan Budget update, and she provided a high-level status update on all projects.

MOTION: None – Informational item only.

**TRABUCO CANYON WATER DISTRICT
REGULAR BOARD OF DIRECTORS MEETING MINUTES | OCTOBER 15, 2025**

LEGISLATIVE AND OTHER MATTERS

ITEM 10: LOCAL GOVERNMENTAL AND LEGISLATIVE INFORMATIONAL MATTER(S)

Mr. Paludi reported that Metropolitan Water District of Southern California (MET) Board appointed Mr. Shivaji Deshmukh as General Manager.

Ms. Collins reported on various bills that passed in the most recent legislative session.

MOTION: None.

CLOSED SESSION

The Board of Directors entered closed session in accordance with the agenda at 7:09 p.m. The General Manager and District General Counsel participated in closed session.

The closed session ended at 8:39 p.m.

ITEM 11: REPORT OF ACTION(S) TAKEN IN CLOSED SESSION

Ms. Collins reported that the Board of Directors met in closed session to review the matters as agendized, and that there was no action to be reported in closed session.

GENERAL COUNSEL REPORT

Ms. Collins reported that she is working on gathering information for the Board related to the Division Based Election process, and she stated that she will bring further information at a future Board meeting.

OTHER INFORMATION/MATTERS

None

ADDITIONAL DIRECTORS' COMMENTS

None

ADJOURNMENT

Director Mandich adjourned the October 15, 2025 Regular Board Meeting at 8:48 p.m.



MINUTES OF THE SPECIAL BOARD MEETING OF THE BOARD OF DIRECTORS OF TRABUCO CANYON WATER DISTRICT | OCTOBER 21, 2025

The Special Meeting of the Board of Directors of the Trabuco Canyon Water District (TCWD or District) conducted on October 21, 2025, was called to order by President Edward Mandich at 5:00 p.m. in the Board Room at the District Administrative Facility located at 32003 Dove Canyon Drive, Trabuco Canyon, California. Mr. Michael Perea, District Secretary, transcribed the minutes thereof.

DIRECTORS PRESENT

President Ed Mandich
Vice President Glenn Acosta
Director Mark Anderson
Director John Horst
Director Michael Safranski

STAFF PRESENT

Fernando Paludi, General Manager
Michael Perea, Assistant General Manager
Jason Stroud, Maintenance Superintendent
Karen Warner, Principal Accountant
Roseann Lejsek, Executive Assistant

STAFF ABSENT

None

DISTRICT CONSULTANTS

Laura Ratcliffe, District General Legal Counsel – Hanson Bridgett, LLP
Brent Scharnberg, Stadia Realty
Brian Scharnberg, Stadia Realty
Brian Monaghan, Wildlands (Remote)

PUBLIC PRESENT

There were no members of the public present

PLEDGE OF ALLEGIANCE

Director Safranski led the Board of Directors, District staff, and audience in the Pledge of Allegiance.

VISITOR PARTICIPATION

None

ORAL COMMUNICATION

None

DIRECTOR'S COMMENTS

None

REPORT FROM THE GENERAL MANAGER

**TRABUCO CANYON WATER DISTRICT
SPECIAL MEETING OF THE BOARD OF DIRECTORS MINUTES | OCTOBER 21, 2025**

Mr. Paludi reported that a Special Board Meeting would be held on October 29 to discuss the District's rate structure, and a second Special Board Meeting would be held on October 30 related to the General Manager recruitment.

ACTION CALENDAR

ITEM 1: DISCUSSION AND POSSIBLE ACTION(S) REGARDING POTENTIAL USES OF DISTRICT'S PORTER PROPERTY

Mr. Perea introduced this matter for Board consideration, and he introduced Brent and Brian Scharnberg with Stadia Realty and Brian Monaghan with Wildlands to deliver a presentation on the organization and its work.

Discussion occurred regarding establishing value for mitigation property, maximizing the District's return on investment, and an approximate timeline for sale of the property.

MOTION: None

CLOSED SESSION(S):

1. CONFERENCE WITH REAL PROPERTY NEGOTIATORS (Gov. Code § 54956.8)

Property: Assessor's Parcel Numbers 842-061-05, 06, 07

Agency Negotiators: Fernando Paludi, Michael Perea, Brent Scharnberg (Stadia Realty)

Negotiating Parties: Wildlands

Under Negotiation: Price and Terms of Payment

The Board of Directors entered closed session in accordance with the agenda at 5:43 p.m. The General Manager, Assistant General Manager, District General Counsel, Mr. Brent Scharnberg and Mr. Brian Scharnberg participated in closed session. The Assistant General Manager, Mr. Brent Scharnberg and Mr. Brian Scharnberg exited the closed session at approximately 6:15 p.m.

2. PERSONNEL MATTERS PURSUANT TO GOVERNMENT CODE § 54957

Public Employee Appointment

Title: General Manager

The Board of Directors entered closed session in accordance with the agenda at approximately 6:15 p.m. The General Manager and District General Counsel participated in closed session.

The closed session ended at 6:46 p.m.

ITEM 2: REPORT OF ACTION(S) TAKEN IN CLOSED SESSION

Director Mandich reported that the Board of Directors met in closed session to review the matters as agendaized, and that there was no action to be reported in closed session.

ADJOURNMENT

President Mandich adjourned the October 21, 2025 Special Board Meeting at 6:47 p.m.



MINUTES OF THE SPECIAL BOARD MEETING OF THE BOARD OF DIRECTORS OF TRABUCO CANYON WATER DISTRICT | OCTOBER 29, 2025

The Special Meeting of the Board of Directors of the Trabuco Canyon Water District (TCWD or District) conducted on October 29, 2025, was called to order by President Edward Mandich at 9:00 a.m. in the Board Room at the District Administrative Facility located at 32003 Dove Canyon Drive, Trabuco Canyon, California. Mr. Michael Perea, District Secretary, transcribed the minutes thereof.

DIRECTORS PRESENT

President Ed Mandich
Vice President Glenn Acosta
Director Mark Anderson
Director John Horst
Director Michael Safranski

STAFF PRESENT

Fernando Paludi, General Manager
Michael Perea, Assistant General Manager
Karen Warner, Principal Accountant
Roseann Lejsek, Executive Assistant
Phil Serpas, CMMS/SCADA Administrator

STAFF ABSENT

None

DISTRICT CONSULTANTS

Claire Collins, District General Legal Counsel – Hanson Bridgett, LLP
Habib Isaac, IB Consulting
Andrea Boehling, IB Consulting

PUBLIC PRESENT

There were members of the public present

PLEDGE OF ALLEGIANCE

Director Acosta led the Board of Directors, District staff, and audience in the Pledge of Allegiance.

VISITOR PARTICIPATION

None

ORAL COMMUNICATION

None

DIRECTOR'S COMMENTS

Director Safranski expressed his appreciation to staff for doing an exceptional job representing the District at the H2O for HOA's event held the previous week.

**TRABUCO CANYON WATER DISTRICT
SPECIAL MEETING OF THE BOARD OF DIRECTORS MINUTES | OCTOBER 29, 2025**

REPORT FROM THE GENERAL MANAGER

Mr. Paludi reported that he attended the H2O for HOA's event and thanked staff for their coordination and participation at the event.

Mr. Perea thanked Director Safranski for his participation in the home fire hardening panel at the H2O for HOA's event.

ACTION CALENDAR

ITEM 1: APPROVAL OF EXCLUSIVE AUTHORIZATION TO SELL WITH STADIA REALTY, INC.

Mr. Paludi introduced this matter for Board consideration. Mr. Perea reported that the Board requested this item be brought back for discussion, along with the negotiated change to the terms of the contract.

Director Acosta commented that Stadia has found a potential buyer, and that he has confidence that Stadia will secure the maximum value for the property. Director Acosta added that Stadia's commission percentage was negotiated down from 3% to 2.5%

MOTION: Approve and authorize the General Manager to execute an Exclusive Authorization to Sell with Stadia Realty, Inc. – Director Acosta

SECOND: Director Anderson

AYES: Directors Mandich, Acosta, Anderson, Horst & Safranski

NOES: None

ABSTAIN: None

ABSENT: None

MOTION PASSED/FAILED: Passed 5 – 0

ITEM 2: DISCUSSION CONCERNING TRABUCO CANYON WATER DISTRICT'S POTABLE WATER RATES AND CHARGES

Public Comment was received in relation to Item 2 on the agenda.

Sur Marucci – Ms. Marucci addressed the Board of Directors with her concerns regarding to the 1" meter fixed charge compared to the 5/8" meter fixed charge. Ms. Marucci asked the Board to verify the cost justification for the rates. Ms. Marucci added that the rates should be fair and equitable.

Jay Gentile – Mr. Gentile addressed the Board of Directors with his concerns regarding the District's cost of service study. Mr. Gentile stated that he believes there are flaws in the study that are not in compliance with Proposition 218. Mr. Gentile requested that the Board take action to review and correct the rates.

Mr. Paludi introduced this matter for Board consideration, and he reported that the Board requested further discussion on this matter to understand the major components of the current rate structure as well as a potential timeline and resources for an updated rate study. Mr. Paludi introduced Mr. Isaac and Ms. Boehling with IB Consulting to present a review of the District's 2023 Cost of Service Study.

Mr. Issac delivered a PowerPoint presentation reviewing a high-level overview of the District's 2023 Cost of Service Study development process, including project milestones and rate setting components, financial plan summary, financial position analysis, legal requirements, rate structure adjustments, cost of service components, and rate development. Ms. Collins further detailed the legal requirements and the complexity of rate setting. Mr. Issac also presented current rate structure considerations including pros and cons to keeping the current rates in place versus doing a new rate study.

**TRABUCO CANYON WATER DISTRICT
SPECIAL MEETING OF THE BOARD OF DIRECTORS MINUTES | OCTOBER 29, 2025**

Discussion occurred concerning the current rate structure, scenarios for potential reduction of the 1" meter fixed charge, and the methodology for a new rate study.

Director Horst recommended that staff go out for Request for Proposal (RFP) to multiple firms, including IB Consulting, to receive competitive bids. Director Horst added that engaging in a fresh perspective could be beneficial in reviewing the rates.

Director Safranski commented that the District's rates must be fair, equitable and defensible, and he added that another District cannot subsidize our costs.

Director Acosta expressed his support for moving forward with a new rate study and utilizing IB Consulting to complete the study, in order to expedite the results.

Director Anderson asked whether the District could receive a reduced rate for a new study since IB Consulting has the District's data to perform the analysis.

MOTION: Approve a New Rate Study and Request that IB Consulting Submit a Proposal for the Board's Review at the November 19, 2025 Regular Board Meeting – Director Acosta

SECOND: Director Safranski

AYES: Directors Mandich, Acosta, Anderson, Horst & Safranski

NOES: None

ABSTAIN: None

ABSENT: None

MOTION PASSED/FAILED: Passed 5 – 0

District Customer – A District customer addressed the Board of Directors stating that through the Board's discussion, he has received clarification on the meter costs, and he recommended that this be explained to customers. The customer also suggested that the Board consider a smaller contribution to reserves and offset that reduction with proceeds from the sale of the Porter property.

CLOSED SESSION(S):

The Board of Directors entered closed session in accordance with the agenda at 11:13 a.m. The General Manager and District General Counsel participated in closed session.

The closed session ended at 12:00 p.m.

ITEM 3: REPORT OF ACTION(S) TAKEN IN CLOSED SESSION

Director Acosta reported that the Board of Directors met in closed session to review the matters as agendaized, and that there was no action to be reported in closed session.

ADJOURNMENT

President Mandich adjourned the October 29, 2025 Special Board Meeting at 12:00 p.m.



MINUTES OF THE SPECIAL BOARD MEETING OF THE BOARD OF DIRECTORS OF TRABUCO CANYON WATER DISTRICT | OCTOBER 30, 2025

The Special Meeting of the Board of Directors of the Trabuco Canyon Water District (TCWD or District) conducted on October 30, 2025, was called to order by President Edward Mandich at 8:00 a.m. in the Board Room at the District Administrative Facility located at 32003 Dove Canyon Drive, Trabuco Canyon, California. Mr. Michael Perea, District Secretary, transcribed the minutes thereof.

DIRECTORS PRESENT

President Ed Mandich
Vice President Glenn Acosta
Director Mark Anderson
Director John Horst
Director Michael Safranski

STAFF PRESENT

Fernando Paludi, General Manager
Michael Perea, Assistant General Manager
Roseann Lejsek, Executive Assistant
Karen Warner, Principal Accountant
Phil Serpas, CMMS/SCADA Administrator

DISTRICT CONSULTANTS

None

PUBLIC PRESENT

None

PLEDGE OF ALLEGIANCE

Director Horst led the Board of Directors, District staff, and audience in the Pledge of Allegiance.

VISITOR PARTICIPATION

None

ORAL COMMUNICATION

None

DIRECTOR'S COMMENTS

None

REPORT FROM THE GENERAL MANAGER

None

**TRABUCO CANYON WATER DISTRICT
SPECIAL MEETING OF THE BOARD OF DIRECTORS MINUTES | OCTOBER 30, 2025**

ACTION CALENDAR

CLOSED SESSION(S):

PUBLIC EMPLOYEE APPOINTMENT (Gov. Code § 54957) - TITLE: GENERAL MANAGER

The Board of Directors entered closed session in accordance with the agenda at 8:01 a.m. The General Manager participated in closed session.

The closed session ended at 3:56 p.m.

ITEM 1: REPORT OF ACTION(S) TAKEN IN CLOSED SESSION

Director Mandich reported that the Board of Directors met in closed session to review the matters as agendized, and that there was no action to be reported in closed session.

MOTION: None

ADJOURNMENT

President Mandich adjourned the October 30, 2025 Special Board Meeting at 3:57 p.m.

DRAFT

**TRABUCO CANYON WATER DISTRICT
REGULAR BOARD MEETING | NOVEMBER 19, 2025**

CONSENT CALENDAR

ITEM 2: TREASURER'S REPORT

a. *FINANCE/AUDIT COMMITTEE MEETING*

RECOMMENDED ACTION:

Receive and file the following Finance/Audit Committee Meeting Recap(s):

1. *October 9, 2025*

b. *PRESENTATION OF FINANCIALS*

RECOMMENDED ACTION:

Receive and file the preliminary statement(s) of revenues and expenses and preliminary unaudited financials for the following month(s):

1. *September 2025*

c. *PAYMENT OF BILLS FOR CONSIDERATION*

RECOMMENDED ACTION:

Ratify the payment of bills for consideration, Payroll and Payroll Taxes for October 2025.

EXHIBITS:

1. Disbursement Report – October 2025
2. Summary of Disbursements – October 2025
3. General Fund Warrant Register – October 2025
4. General Fund Payroll Warrant Register – October 2025

CONTACTS (staff responsible): PEREA/WARNER



TRABUCO CANYON WATER DISTRICT FINANCE/AUDIT COMMITTEE MEETING RECAP | OCTOBER 9, 2025

DIRECTORS PRESENT

John Horst, Committee Chair
Mike Safranski, Committee Member

STAFF PRESENT

Fernando Paludi, General Manager
Michael Perea, Assistant General Manager
Karen Warner, Principal Accountant
Roseann Lejsek, Executive Assistant

STAFF ABSENT

None

CONSULTANTS PRESENT

Ian Berg, Starting Line Advisory

PUBLIC PRESENT

None

CALL MEETING TO ORDER

Director Horst called the October 9, 2025 Finance/Audit Committee Meeting to order at 8:00 a.m.

VISITOR PARTICIPATION

No visitor participation was received.

ORAL COMMUNICATION

No oral communication was received.

COMMITTEE MEMBER COMMENTS

Director Safranski reported on his attendance at various meetings throughout the month, including the Community Associations of Rancho (CAR) Meeting, the City of Rancho Santa Margarita City Council Meeting, and a tour of the Dimension Water Treatment Plant Pipeline Rehabilitation project site.

Director Horst reported on his attendance at the Dimension Water Treatment Plant Pipeline Rehabilitation project tour.

REPORT FROM THE GENERAL MANAGER

Mr. Paludi reported on the following matters:

- Phase 1A of the Dimension Water Treatment Plant Pipeline Rehabilitation has been completed and Phase 1B is scheduled to begin the following week.
- The Filter 4 Seismic Retrofit project is complete, and the final inspection was taking place that day.
- A Special Board Meeting is scheduled for October 21 to discuss potential disposition of the District's Porter Property with the conservation group Wildlands.
- A Special Board Meeting is scheduled for October 29 to discuss the current rate structure with the District's rate consultant.

**TRABUCO CANYON WATER DISTRICT
FINANCE AUDIT COMMITTEE MEETING RECAP | OCTOBER 9, 2025**

ITEM 1: FINANCE/AUDIT COMMITTEE MEETING RECAP

Mr. Paludi presented the Finance/Audit Committee Meeting Recap for Committee review in accordance with the agenda.

RECOMMENDATION: The Committee recommended forwarding this matter to the Board of Directors (Consent Calendar).

ITEM 2: RATIFICATION OF DIRECTORS' FEES AND EXPENSES, TENTATIVE FUTURE MEETINGS/ATTENDANCE

Mr. Paludi presented the Directors' Fees and Expenses Report and Tentative Future Meetings/Attendance Report for Committee consideration and review.

RECOMMENDATION: Recommend the Board of Directors ratify the Directors' fees and expenses for September 2025 and tentative future meetings/attendance (Action Calendar).

ITEM 3: MID-YEAR OPERATING AND CAPITAL BUDGET PLANNING UPDATE

Mr. Paludi presented this matter for Committee consideration. Mr. Berg delivered a Fiscal Year 2026 Mid-Year Budget and Financial Plan update to the Committee. Mr. Berg discussed mid-year budget key objectives, strategic considerations, and a budget timeline.

Discussion occurred regarding the importance of maintaining visibility of the original budget when implementing mid-year budget adjustments. Mr. Paludi noted that staff will present an example the next month to illustrate how the comparison may be presented.

RECOMMENDATION: None – Informational item only.

ITEM 4: FINANCIAL REPORT

Mr. Berg and Ms. Warner presented the preliminary unaudited financials for August 2025.

FINANCIAL ANALYSIS SUMMARY

Discussion occurred concerning the top 10 vendor payments related to costs of emergency water deliveries from Irvine Ranch Water District, City of Rancho Santa Margarita annual overlay project, and the District's legal services.

CASH & INVESTMENTS REPORT (UNAUDITED)

Discussion occurred concerning the difference between Capital Loans versus Capital Program, as well as the Operating Reserve fund balance. Mr. Berg reported that staff is working with Fieldman, Rolapp & Associates to review the District's debt structure.

DISTRICT SUMMARY BUDGET v. ACTUAL

Discussion occurred concerning Net Revenue/Expenses year to date.

CIP BUDGET v. ACTUAL

Discussion occurred regarding ways to improve visibility of budget targets for multi-year projects.

RECOMMENDATION: Recommend the Board of Directors receive and file this information (Action Calendar).

**TRABUCO CANYON WATER DISTRICT
FINANCE AUDIT COMMITTEE MEETING RECAP | OCTOBER 9, 2025**

ITEM 5: OTHER MATTERS

Mr. Perea provided information on the H2O for HOA's event taking place October 23rd. Mr. Perea noted that Director Safranski would be sitting on a panel related to fire hardening.

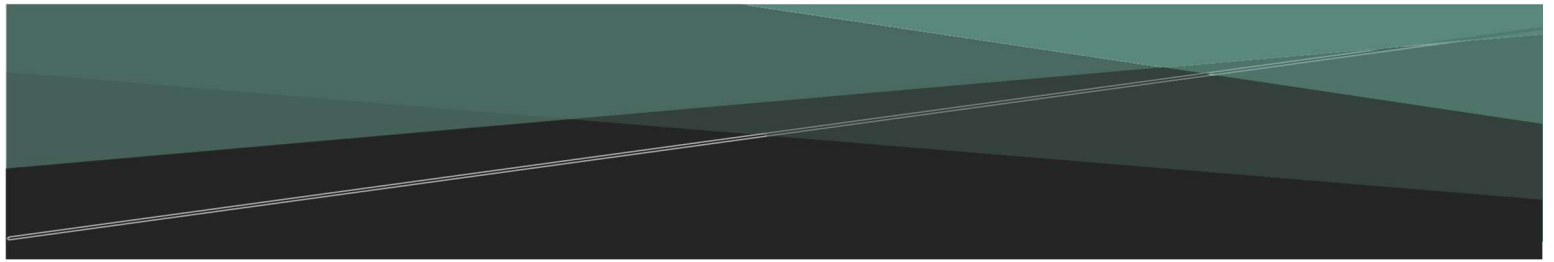
Discussion occurred concerning the District's messaging regarding the topic of consolidation.

RECOMMENDATION: None – Informational item only.

ADJOURNMENT

Director Horst adjourned the October 9, 2025 Finance/Audit Committee Meeting at 9:24 a.m.

DRAFT



Financial Reporting

September 2025

No assurance is provided on these financial statements. These statements do not include a statement of cash flows. All disclosures required by Generally Accepted Accounting Principles (GAAP) are not included.





Trabuco Canyon Water District
Financial Analysis
September 2025

CASH & INVESTMENTS

As of the reporting date, District cash and investments total \$12,612,740 and increased \$46,843 from the prior reporting month. The portfolio is primarily invested in the California Cooperative Liquid Assets Securities System (CLASS) due to the safe investment structure and quick liquidity offered by the investment pool. The estimated average return throughout the reporting month outperformed the Local Agency Investment Fund (LAIF) by approximately 0.061%. Looking forward, the District is preparing to experience higher than normal outflows of cash for construction on project PW-03 (the Dimension Transmission Main) and is anticipating the receipt of \$250K in grant funding to offset the costs incurred for the new server in the prior fiscal year. The cash flow highlights and top ten vendor payments for the reporting month are displayed below:

CASH FLOW HIGHLIGHTS

Cash Inflows	Utility Billing Payments	\$1,576,484.04
	Property Tax Receipts	\$39,961.33
	Investments	\$34,269.51
	Other	\$225,284.49
	Total Inflows	\$1,875,999.37
Cash Outflows	Accounts Payable	\$1,358,566.69
	ADP Payroll / Fees & CalPERS Benefits	\$470,589.85
	Debt Service Payments	\$-
	Other	\$-
	Total Outflows	\$1,829,156.54
	Net Cash Inflow / (Outflow)	\$46,842.83



**Trabuco Canyon Water District
Financial Analysis
September 2025**

TOP 10 VENDOR PAYMENTS

Top 10 Payments	Vendor	Ops / CIP	Description
\$679,047.23	IRVINE RANCH WATER DISTRICT	Ops	July and August 2025 emergency water supply purchases. July 2025 water deliveries to Portola Hills.
\$291,874.42	ADP	Ops	Staffing compensation.
\$178,715.43	CALPERS	Ops	Staffing health insurance and retirement contributions.
\$157,179.27	MWDOC	Ops	July and August 2025 fixed water charges, Baker Treatment Plant purchases and surcharges. FY 2025-26 MWDOC choice programs billing.
\$66,526.21	HANSON BRIDGETT LLP	Ops	July and August 2025 legal services.
\$49,029.50	SS MECHANICAL CONSTRUCTION CORP.	CIP	WW-40 Blower Building Rehab capital project.
\$39,483.69	SOUTHERN CALIFORNIA EDISON	Ops	Energy at various locations.
\$39,442.92	QUINCY COMPRESSOR	CIP	New Air compressor for WWTP Blower Room.
\$32,568.31	CS-AMSCO	CIP	Filter job at WWTP.
\$22,964.69	SANTA FE SPRINGS WATER SYSTEMS CO	Ops	Repairs and maintenance for NEQ Pump and Headworks, Valves and Piping job.

BUDGET V. ACTUAL SUMMARY

The District Financial Summary presents financial performance in comparison to the adopted budget for each major category. The current reporting period represents 25% of the fiscal year.

- **Line 1 Fixed Service Charges** includes fixed charges to customers for Potable and Recycled Water service. The District implemented Recycled Water rates at 100% of the 2023 Cost-of-Service (COS) study rate plan for FY 2026 and Potable Water rates at 94.0% on July 1, 2025. The budget plans to adjust Potable Water rates to 100% of the allowable rate on January 1, 2026. Due to the semiannual rate adjustment schedule for Potable Water, this line will trend behind the expected target budget throughout the fiscal year.
- **Line 2 Variable Service Charges** includes volumetric charges for Potable and Recycled Water services. The District implemented Recycled Water rates at 100% of the 2023 Cost-of-Service (COS) study rate plan for FY 2026 and Potable Water rates at 94.0% on July 1, 2025. The budget plans to adjust Potable Water rates to 100% of the allowable rate on January 1, 2026. Due to the semiannual rate adjustment schedule for Potable Water, this line will trend behind the expected target budget throughout the fiscal year. As of the reporting period, increased volumetric water purchases during the summer months are offsetting the delayed timing of the Potable Water rate adjustments.



**Trabuco Canyon Water District
Financial Analysis
September 2025**

- **Line 3 Pass-Through Charges** includes Potable Water fixed and variable charges passed through to customers to recover wholesale water cost escalations beyond the assumptions included in the 2023 COS study. The Board adopted this pass-through rate provision during the Proposition 218 process. The budget plans to implement updated pass-through rates on January 1, 2026, based on updated wholesale water supply costs.
- **Line 4 BTP Wholesale Charges** includes one-to-one reimbursement from the City of San Clemente for Baker Water Treatment Plant (BTP) water purchased from the District at Metropolitan Water District of Southern California (MET) untreated water rates, as well as a pro-rated share of maintenance cost reimbursements. The District budget FY 2026 at 1,113 AF of wholesale water sold and 87 AF of BTP water used by the District. As of the reporting period, the District has sold 181.5 AF to the City of San Clemente and used 143.8 AF to supply District customers.
- **Line 5 Wastewater Charges** include fixed and variable charges billed to customers for wastewater service. The District implemented Wastewater rates at 100.0% of the 2023 COS study rate plan on July 1, 2025.
- **Line 6 Other Revenue** includes property tax receipts, customer fees, investment earnings and other miscellaneous revenue. The District receives most of the property tax revenue in semiannual installments during the fiscal year. YTD is trending behind the expected target budget due to the timing of these receipts.
- **Line 8 Source of Supply** includes the cost of Potable and Recycled water supplies to meet customer demand. This includes the purchase of untreated water at the Dimension Water Treatment Plant, fully treated water purchases via neighboring agency connections, MET/MWDOC surcharges on volumetric water, and MET/MWDOC fixed water costs. Currently, the DWTP conveyance pipeline is non-operational, and the budget includes 6-months of more expensive emergency Potable Water purchases during FY 2026. YTD is trending ahead of the expected budget due to increased Summer demand, and the expensive source of emergency water purchases planned for the first half of the fiscal year.
- **Line 9 Cost of BTP Wholesale** includes the cost of Baker Water Treatment Plant water sold to the City of San Clemente. This line item accounts for the per acre-foot charge of water paid to MWDOC at MET untreated water rates, excluding the SAC Operational Surcharge, and the quarterly maintenance charges. This line will often trend behind the expected budget target due to the timing of quarterly maintenance costs from IRWD.
- **Line 10 Staffing Resources** includes employee compensation, health benefits, retirement contributions, retiree health insurance, and OPEB trust reimbursements (reimbursements from the District's Section 115 OPEB trust).
- **Line 11 Operations & Maintenance** includes system repairs and maintenance, distribution electricity, vehicles and equipment, lab testing and operating supplies.
- **Line 12 General & Administrative** includes professional services, office maintenance and supplies, Board of Directors, liability insurance, dues and memberships, public outreach and rebate programs, customer service and billing, conference, training, travel and miscellaneous expenses. YTD is trending ahead of the expected target budget due to annual payments for insurance premiums, LAFCO fees, ACWA dues, and MWDOC programs participation.
- **Line 15 Capital Loans Reserve** includes restricted capital loan funding purposed for use on the District Capital Improvement Program.
- **Line 16 Grant Proceeds for CIP** includes anticipated grant funds received for capital projects. The FY 2026 budget includes \$220.7K for project RW-23 (Tick & Dove Creek Pump Station Improvements) and \$250K for project DW-03 (Admin Building Server Replacement – *prior fiscal year*).



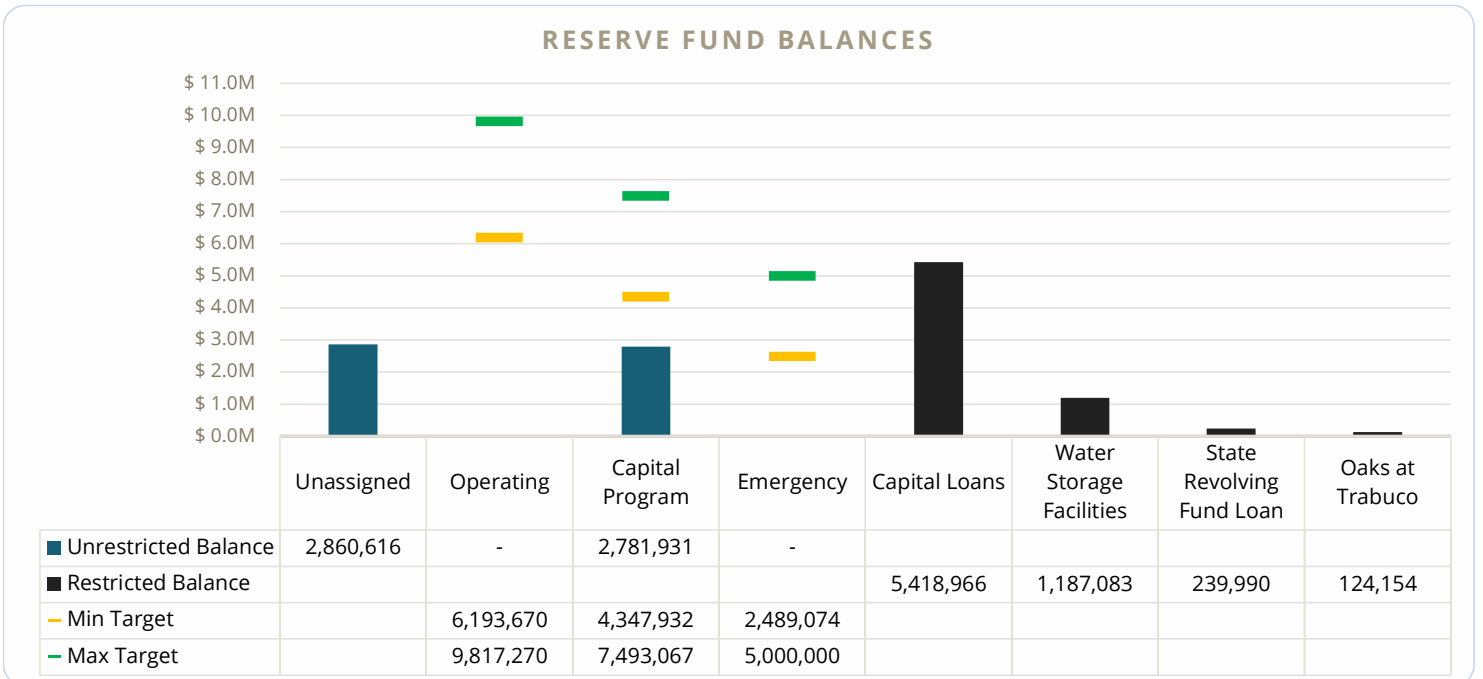
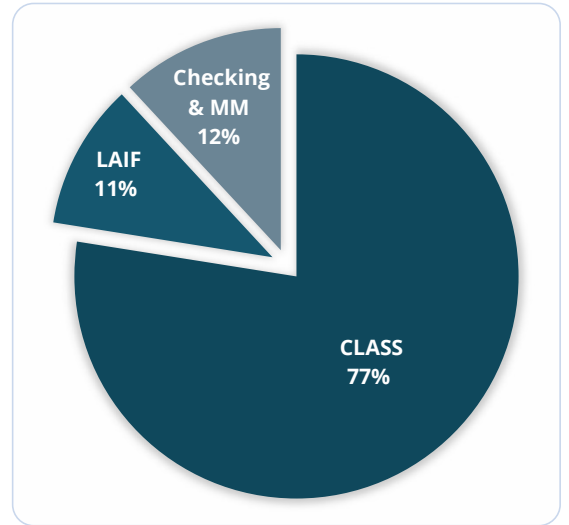
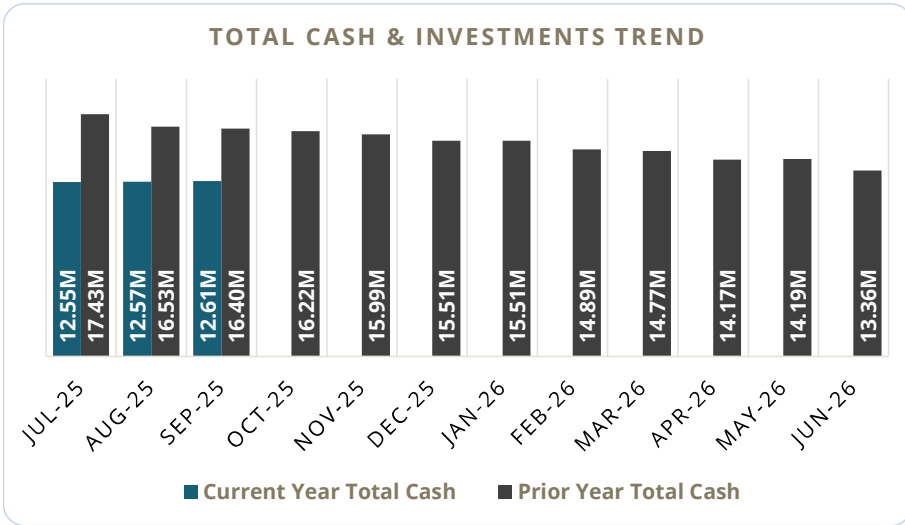
**Trabuco Canyon Water District
Financial Analysis
September 2025**

- **Line 17 Capital Improvement Program** includes planned CIP during FY 2026. The CIP Budget v. Actual Report outlines the financial progress of individual projects as of the reporting date.
- **Line 18 CIP Contingency** includes a 10% contingency amount for unplanned capital project needs. This funding was planned in the budget process to allocate resources towards critical projects and emergencies unknown at the time of budget adoption.
- **Line 19 Debt Service** includes debt service payments for the 2011 SRF loan, 2024 capital project loan, and budgeted 2026 capital project loan that was estimated at the time of budget adoption). The 2011 and 2024 loans are paid twice per year in December (due January 1st) and in June (due July 1st).

District

Cash & Investments as of September 30, 2025

	Type	Rate	Par / Book Value	Market Value	% Portfolio
Local Agency Investment Fund	LAIF	4.212%	\$ 1,337,026	\$ 1,339,606	10.6%
California Cooperative Liquid Assets Securities System	CLASS	4.273%	\$ 9,775,643	\$ 9,777,562	77.5%
BMO Checking	Checking	0.000%	\$ 1,260,081	\$ 1,260,081	10.0%
CB&T Money Market (SRF Loan Reserve)	Money Market	0.300%	\$ 239,990	\$ 239,990	1.9%
Total Cash & Investments			\$ 12,612,740	\$ 12,617,239	100.0%



Treasurer Certification

I certify that all investment actions executed since the last reporting period have been made in full compliance with the District's Investment Policy and the District is able to meet its expenditure obligations for the next six months.

Ian Berg, CPA
District Treasurer

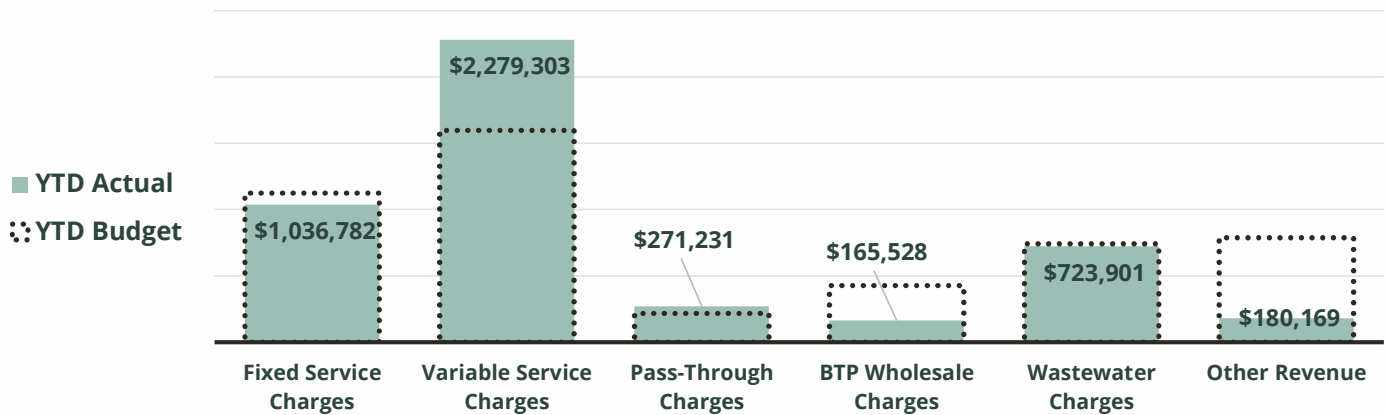


District

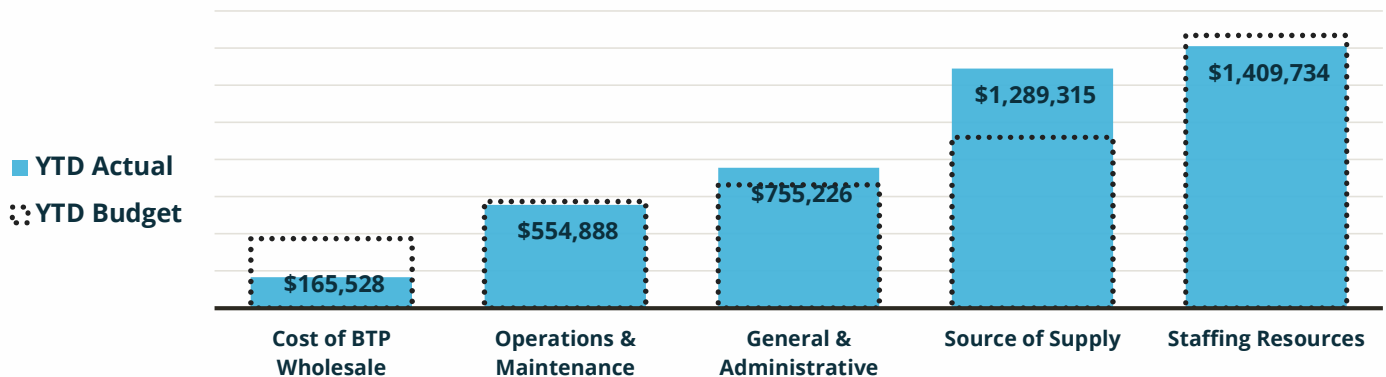
Budget v. Actual Summary September 2025

	A	B	C	D = C - B	E = B / C	
	Sep 2025	Sep 2025	FY 2026	FY 2026	YTD % of	
	Period	YTD	Adopted	Remaining	Budget	
	Actuals	Actuals	Budget	Budget	25.0%	
1	Fixed Service Charges	\$ 362,703	\$ 1,036,782	\$ 4,499,900	\$ 3,463,118	23.0%
2	Variable Service Charges	888,340	2,279,303	6,386,300	4,106,997	35.7%
3	Pass-Through Charges	83,708	271,231	870,800	599,569	31.1%
4	BTP Wholesale Charges	48,792	165,528	1,708,700	1,543,172 ▲	9.7%
5	Wastewater Charges	256,879	723,901	2,973,200	2,249,299	24.3%
6	Other Revenue	93,087	180,169	3,155,600	2,975,431 ▲	5.7%
7	Total Revenue	1,733,508	4,656,913	19,594,500	14,937,587	23.8%
8	Source of Supply	385,108	1,289,315	3,674,900	2,385,585 ▲	35.1%
9	Cost of BTP Wholesale	48,792	165,528	1,493,900	1,328,372	11.1%
10	Staffing Resources	487,049	1,409,734	5,870,500	4,460,766	24.0%
11	Operations & Maintenance	227,130	554,888	2,296,100	1,741,212	24.2%
12	General & Administrative	241,016	755,226	2,652,900	1,897,674 ▲	28.5%
13	Total Expense	1,389,095	4,174,690	15,988,300	11,813,610	26.1%
14	Net Income / (Loss) from Operations	344,413	482,223	3,606,200	3,123,977 ▲	13.4%
15	Capital Loans Reserve	1,945,939	2,081,271	10,570,177	8,488,907	19.7%
16	Grant Proceeds for CIP	-	-	470,700	470,700	0.0%
17	Capital Improvement Program	(1,945,939)	(2,081,271)	(10,969,877)	(8,888,607)	19.0%
18	CIP Contingency	-	-	(1,097,000)	(1,097,000)	0.0%
19	Debt Service	-	-	(2,570,070)	(2,570,070)	0.0%
20	Net Change in Unrestricted Cash	\$ 344,413	\$ 482,223	\$ 10,130	\$ (472,093)	4760.3%

YTD Revenue v. YTD Target Budget



YTD Expense v. YTD Target Budget





District

Operating Budget v. Actual September 2025

	A	B	C	D = C - B	E = B / C	
	Sep 2025	Sep 2025	FY 2026	FY 2026	YTD % of	
	Period	YTD	Adopted	Remaining	Budget	
	Actuals	Actuals	Budget	Budget	25.0%	
1	Fixed Service Charges	\$ 362,703	\$ 1,036,782	\$ 4,499,900	\$ 3,463,118	23.0%
2	Variable Service Charges	888,340	2,279,303	6,386,300	4,106,997	35.7%
3	Fixed Service Charges Pass-Through	18,352	55,062	262,700	207,638	21.0%
4	Variable Service Charges Pass-Through	65,356	216,169	608,100	391,932	35.5%
5	BTP Wholesale Water Sales	48,792	165,528	1,054,800	889,272	15.7%
6	BTP Maintenance Charges	-	-	439,100	439,100	0.0%
7	BTP Capital Recovery	-	-	214,800	214,800	0.0%
8	Wastewater Charges	256,879	723,901	2,973,200	2,249,299	24.3%
9	Property Tax Receipts	40,055	43,563	2,437,300	2,393,737	1.8%
10	Customer Fees	39,176	101,138	520,200	419,062	19.4%
11	Interest Revenue	11,228	29,361	160,000	130,639	18.4%
12	Miscellaneous Revenue	2,629	6,107	38,100	31,993	16.0%
13	Total Revenue	1,733,508	4,656,913	19,594,500	14,937,587	23.8%
14	Source of Supply					
15	Variable Water Purchases	301,834	983,094	2,849,800	1,866,706	34.5%
16	BTP Water Purchases TCWD	51,196	132,700	93,600	(39,100)	141.8%
17	BTP Maintenance Expense TCWD	-	-	46,800	46,800	0.0%
18	Fixed Water Purchases	26,363	156,189	401,700	245,511	38.9%
19	Chemicals & Electricity	5,715	17,332	283,000	265,668	6.1%
20	Total Source of Supply	385,108	1,289,315	3,674,900	2,385,585	35.1%
21	Cost of BTP Wholesale					
22	BTP Water Purchases for Wholesale	48,792	165,528	1,054,800	889,272	15.7%
23	BTP Maintenance Expense Sales	-	-	439,100	439,100	0.0%
24	Total Cost of BTP Wholesale	48,792	165,528	1,493,900	1,328,372	11.1%
25	Staffing Resources					
26	Employee Compensation	336,989	959,946	4,115,500	3,155,554	23.3%
27	Employee Benefits	99,280	297,449	1,360,000	1,062,551	21.9%
28	CalPERS Retirement Unfunded Liability	32,917	98,750	395,000	296,251	25.0%
29	Retiree Health Insurance Payments	17,863	53,590	201,700	148,110	26.6%
30	OPEB Trust Reimbursement	-	-	(201,700)	(201,700)	0.0%
31	Total Staffing Resources	487,049	1,409,734	5,870,500	4,460,766	24.0%
32	Operations & Maintenance					
33	System Repairs and Maintenance	108,633	239,847	1,030,600	790,753	23.3%
34	Distribution Electricity	90,930	227,284	914,700	687,416	24.8%
35	Vehicles and Equipment	10,816	46,052	188,800	142,748	24.4%
36	Lab Testing & Supplies	16,750	41,705	162,000	120,295	25.7%
37	Total Operations & Maintenance	227,130	554,888	2,296,100	1,741,212	24.2%
38	General & Administrative					
39	Professional Services	159,297	233,033	1,033,000	799,967	22.6%
40	Office Maintenance & Supplies	47,318	197,156	616,200	419,044	32.0%
41	Board of Directors	8,787	25,411	111,700	86,289	22.7%
42	District Insurance	-	114,120	237,500	123,380	48.1%
43	Dues and Memberships	16,634	126,041	247,200	121,159	51.0%
44	Public Outreach & Rebate Programs	129	27,786	100,000	72,214	27.8%
45	Customer Service and Billing	8,691	25,544	81,600	56,056	31.3%
46	Conference, Trainings and Travel	1,527	7,494	32,300	24,806	23.2%
47	Miscellaneous Expense	(1,366)	(1,359)	193,400	194,759	-0.7%
48	Total General & Administrative	241,016	755,226	2,652,900	1,897,674	28.5%
49	Total Expense	1,389,095	4,174,690	15,988,300	11,813,610	26.1%
50	Net Income / (Loss) from Operations	\$ 344,413	\$ 482,223	\$ 3,606,200	\$ 3,123,977	13.4%



District

CIP Budget v. Actual September 2025

ID	Project Description	A	B	C	D = C - B	E = B / C
		Sep 2025 Period Actuals	Sep 2025 YTD Actuals	FY 2026 Adopted Budget	FY 2026 Remaining Budget	YTD % of Budget 25.0%
1	Potable Water					
2	PW-02 DWTP Electrical Improvements	\$ -	\$ -	\$ 300,000	\$ 300,000	0.0%
3	PW-03 Transmission Main Replacement - DWTP to Ridgeline PS	1,432,304	1,432,304	7,000,000	5,567,696	20.5%
4	PW-04 DWTP Improvements - Phase 2	-	534	-	-	NA
5	PW-20 10" Pipeline Replacement - Cooks Corner to Harris Grade	-	-	225,000	225,000	0.0%
6	PW-25 Fire Flow Availability Improvements	-	-	150,000	150,000	0.0%
7	PW-35 Pressure Reducing Vault Improvements - PW	-	2,252	-	-	NA
8	PW-38 Saddle Crest Reservoir Outlet Pipe	3,799	3,799	275,000	271,201	1.4%
9	PW-77 Small Capital - PW	10,150	20,267	-	(10,150)	NA
10	Total Potable Water	1,446,253	1,459,156	7,950,000	6,490,844	18.4%
11	Recycled Water					
12	RW-13 Dove Canyon Recycled Booster Pump Station	10,970	12,890	560,000	549,030	2.0%
13	RW-23 Tick & Dove Creek Pump Station Improvements	-	-	259,700	259,700	0.0%
14	RW-51 Reservoir V-Ditch Rehabilitation	176,506	192,106	-	(176,506)	NA
15	RW-77 Small Capital - RW	-	18,071	-	-	NA
16	Total Recycled Water	187,476	223,067	819,700	596,633	27.2%
17	Wastewater					
18	WW-09 Heritage Sewer Lift Station Rehabilitation	3,099	3,099	400,000	396,901	0.8%
19	WW-40 WWTP Hoffman Blower Building Rehabilitation	20,475	83,185	1,290,177	1,269,702	1.6%
20	WW-41 WWTP SCADA & Fiber Optic Upgrade	2,240	9,232	-	(2,240)	NA
21	WW-48 Pump Replacements - WW	30,338	30,338	-	(30,338)	NA
22	WW-49 SMWD Chiquita WWTP Shared Capital	-	-	140,000	140,000	0.0%
23	WW-50 WWTP Headworks Replacement	206,919	224,055	370,000	163,081	55.9%
24	WW-77 Small Capital - WW	42,566	42,566	-	(42,566)	NA
25	Total Wastewater	305,637	392,474	2,200,177	1,807,703	17.8%
26	Joint Projects					
27	DW-77 Small Capital - DW	6,573	6,573	-	(6,573)	NA
28	Total Joint Projects	6,573	6,573	-	(6,573)	NA
29	Total Capital Improvement Program	\$ 1,945,939	\$ 2,081,271	\$ 10,969,877	\$ 8,888,607	19.0%



Trabuco Canyon Water District, CA

Bank Transaction Report

Transaction Detail

Issued Date Range: 10/01/2025 - 10/31/2025

Cleared Date Range: -

Issued Date	Cleared Date	Number	Description	Module	Status	Type	Amount
Accounts Payable							
Bank Draft							
10/02/2025		DFT0004192	ADP	Accounts Payable	Outstanding	Bank Draft	-154,125.61
10/02/2025		DFT0004193	PACE PAYMENT SYSTEMS, INC.	Accounts Payable	Outstanding	Bank Draft	-6,569.37
10/02/2025		DFT0004194	VSP	Accounts Payable	Outstanding	Bank Draft	-775.06
10/03/2025		DFT0004195	ADP	Accounts Payable	Outstanding	Bank Draft	-112.00
10/03/2025		DFT0004196	BRINKS HOME SECURITY	Accounts Payable	Outstanding	Bank Draft	-269.99
10/06/2025		DFT0004197	THE TOLL ROADS	Accounts Payable	Outstanding	Bank Draft	-675.00
10/07/2025		DFT0004198	CALPERS	Accounts Payable	Outstanding	Bank Draft	-60,646.26
10/08/2025		DFT0004199	CALPERS	Accounts Payable	Outstanding	Bank Draft	-9,467.49
10/08/2025		DFT0004200	COX COMMUNICATIONS	Accounts Payable	Outstanding	Bank Draft	-2,430.54
10/09/2025		DFT0004201	COUNTY OF ORANGE	Accounts Payable	Outstanding	Bank Draft	-977.84
10/10/2025		DFT0004202	ADP	Accounts Payable	Outstanding	Bank Draft	-2,192.18
10/14/2025		DFT0004203	COX COMMUNICATIONS	Accounts Payable	Outstanding	Bank Draft	-1,660.28
10/14/2025		DFT0004204	SOUTHERN CALIFORNIA EDISON	Accounts Payable	Outstanding	Bank Draft	-95,289.84
10/14/2025		DFT0004205	VERIZON BUSINESS	Accounts Payable	Outstanding	Bank Draft	-1,548.52
10/15/2025		DFT0004206	WAGE WORKS, INC.	Accounts Payable	Outstanding	Bank Draft	-50.00
10/15/2025		DFT0004214	PACE PAYMENT SYSTEMS, INC.	Accounts Payable	Outstanding	Bank Draft	-300.80
10/16/2025		DFT0004207	COX COMMUNICATIONS	Accounts Payable	Outstanding	Bank Draft	-75.03
10/17/2025		DFT0004208	ADP	Accounts Payable	Outstanding	Bank Draft	-154,063.24
10/17/2025		DFT0004209	CALPERS	Accounts Payable	Outstanding	Bank Draft	-37,583.96
10/17/2025		DFT0004210	HOME DEPOT CREDIT SERVICES	Accounts Payable	Outstanding	Bank Draft	-1,226.67
10/17/2025		DFT0004211	XEROX CORPORATION	Accounts Payable	Outstanding	Bank Draft	-264.87
10/20/2025		DFT0004212	COX COMMUNICATIONS	Accounts Payable	Outstanding	Bank Draft	-1,030.00
10/20/2025		DFT0004213	TAB ANSWER NETWORK	Accounts Payable	Outstanding	Bank Draft	-250.42
10/21/2025		DFT0004215	WEX FLEET UNIVERSAL	Accounts Payable	Outstanding	Bank Draft	-5,682.28
10/22/2025		DFT0004216	GUARDIAN	Accounts Payable	Outstanding	Bank Draft	-4,150.84
10/23/2025		DFT0004217	HOME DEPOT CREDIT SERVICES	Accounts Payable	Outstanding	Bank Draft	-6,305.57
10/23/2025		DFT0004218	WAGE WORKS, INC.	Accounts Payable	Outstanding	Bank Draft	-75.00
10/27/2025		DFT0004219	CSDA Commercial Card - UMPQUA BANK	Accounts Payable	Outstanding	Bank Draft	-9,026.92
10/31/2025		DFT0004220	ADP	Accounts Payable	Outstanding	Bank Draft	-112.00
10/31/2025		DFT0004221	SANTA MARGARITA WATER DISTRICT	Accounts Payable	Outstanding	Bank Draft	-5,301.39
Bank Draft Total: (30)							-562,238.97
Check							
10/07/2025		13676	ADVANCED INTEGRATION & CONTROLS	Accounts Payable	Outstanding	Check	-7,144.00
10/07/2025		13677	ARC	Accounts Payable	Outstanding	Check	-756.15

Bank Transaction Report

Issued Date Range: -

Issued Date	Cleared Date	Number	Description	Module	Status	Type	Amount
10/07/2025		13678	COMMONWEALTH LAND TITLE COMPANY	Accounts Payable	Outstanding	Check	-1,500.00
10/07/2025		13679	COUNTY OF ORANGE	Accounts Payable	Outstanding	Check	-4,548.34
10/07/2025		13680	DMV	Accounts Payable	Outstanding	Check	-20.00
10/07/2025		13681	DOVE CANYON MASTER ASSOCIATION	Accounts Payable	Outstanding	Check	-13,639.00
10/07/2025		13682	FEDEX	Accounts Payable	Outstanding	Check	-118.32
10/07/2025		13683	FERGUSON WATERWORKS	Accounts Payable	Outstanding	Check	-1,693.67
10/07/2025		13684	GRAINGER	Accounts Payable	Outstanding	Check	-1,098.08
10/07/2025		13685	HYDROTECH ELECTRIC	Accounts Payable	Outstanding	Check	-27,633.95
10/07/2025		13686	JES ENGINEERING CONTRACTORS, INC.	Accounts Payable	Outstanding	Check	-176,505.81
10/07/2025		13687	NBS	Accounts Payable	Outstanding	Check	-1,045.70
10/07/2025		13688	ORANGE COUNTY PUMPING, INC.	Accounts Payable	Outstanding	Check	-1,775.00
10/07/2025		13689	O'REILLY AUTOMOTIVE, INC.	Accounts Payable	Outstanding	Check	-220.25
10/07/2025		13690	ORKIN, INC.	Accounts Payable	Outstanding	Check	-155.99
10/07/2025		13691	QUINCY COMPRESSOR	Accounts Payable	Outstanding	Check	-237.16
10/07/2025		13692	ROBERT BARGERON	Accounts Payable	Outstanding	Check	-3,024.27
10/07/2025		13693	SIERRA ANALYTICAL	Accounts Payable	Outstanding	Check	-5,888.50
10/07/2025		13694	STADIA REALTY, INC.	Accounts Payable	Outstanding	Check	-10,000.00
10/07/2025		13695	TOUCH TEL MOBILE	Accounts Payable	Outstanding	Check	-625.00
10/07/2025		13696	TRENCH SHORING COMPANY	Accounts Payable	Outstanding	Check	-850.50
10/07/2025		13697	TYLER TECHNOLOGIES, INC.	Accounts Payable	Outstanding	Check	-42.60
10/07/2025		13698	UNDERGROUND SERVICE ALERT/SC	Accounts Payable	Outstanding	Check	-104.00
10/07/2025		13699	VORTEX INDUSTRIES, INC.	Accounts Payable	Outstanding	Check	-942.65
10/08/2025		13700	DUPERON CORPORATION	Accounts Payable	Outstanding	Check	-89,971.25
10/09/2025		13701	FERNANDO VALDEZ	Accounts Payable	Outstanding	Check	-4,194.68
10/09/2025		13702	LYNDSAY WEST	Accounts Payable	Outstanding	Check	-385.75
10/15/2025		13703	AT&T MOBILITY	Accounts Payable	Outstanding	Check	-124.71
10/15/2025		13704	BUTIER ENGINEERING, INC.	Accounts Payable	Outstanding	Check	-9,296.00
10/15/2025		13705	CHAMPION PAVING, INC.	Accounts Payable	Outstanding	Check	-2,550.00
10/15/2025		13706	COOK'S TIRE & SERVICE	Accounts Payable	Outstanding	Check	-1,238.92
10/15/2025		13707	DMC ENGINEERING	Accounts Payable	Outstanding	Check	-17,316.70
10/15/2025		13708	FULL TRAFFICE MAINTENANCE, INC.	Accounts Payable	Outstanding	Check	-6,838.20
10/15/2025		13709	GMU GEOTECHNICAL, INC.	Accounts Payable	Outstanding	Check	-2,310.00
10/15/2025		13710	GOVERNMENT FINANCE OFFICERS ASSOCIATION	Accounts Payable	Outstanding	Check	-200.00
10/15/2025		13711	HAZEN & SAWYER	Accounts Payable	Outstanding	Check	-53,254.33
10/15/2025		13712	HYDROTECH ELECTRIC	Accounts Payable	Outstanding	Check	-23,116.54
10/15/2025		13713	INFOSEND, INC.	Accounts Payable	Outstanding	Check	-3,099.82
10/15/2025		13714	JIG CONSULTANTS	Accounts Payable	Outstanding	Check	-6,660.76
10/15/2025		13715	JRT ROOFING & WATERPROOFING	Accounts Payable	Outstanding	Check	-2,980.30
10/15/2025		13716	MKN	Accounts Payable	Outstanding	Check	-9,121.72
10/15/2025		13717	PROJECT PARTNERS, INC.	Accounts Payable	Outstanding	Check	-30,850.00
10/15/2025		13718	PSOMAS	Accounts Payable	Outstanding	Check	-8,572.50
10/15/2025		13719	SIERRA ANALYTICAL	Accounts Payable	Outstanding	Check	-2,377.50
10/15/2025		13720	SUPERIOR ELECTRIC MOTOR SERVICE, INC	Accounts Payable	Outstanding	Check	-4,970.84

Bank Transaction Report

Issued Date Range: -

Issued Date	Cleared Date	Number	Description	Module	Status	Type	Amount
10/15/2025		13721	T.E. ROBERTS INC	Accounts Payable	Outstanding	Check	-1,367,997.15
10/15/2025		13722	VAUGHAN'S INDUSTRIAL REPAIR COMPANY, INC.	Accounts Payable	Outstanding	Check	-12,645.19
10/15/2025		13723	WALTERS WHOLESALE ELECTRIC CO.	Accounts Payable	Outstanding	Check	-497.74
10/15/2025		13724	WASTEQUIP MANUFACTURING COMPANY	Accounts Payable	Outstanding	Check	-10,149.89
10/15/2025		13725	WBPC INC	Accounts Payable	Outstanding	Check	-10,228.00
10/22/2025		13726	BUTIER ENGINEERING, INC.	Accounts Payable	Outstanding	Check	-53,372.00
10/22/2025		13727	CHARLES P. CROWLEY COMPANY	Accounts Payable	Outstanding	Check	-12,195.38
10/22/2025		13728	CSDA	Accounts Payable	Outstanding	Check	-9,930.00
10/22/2025		13729	ELITE AUTOMOTIVE SERVICES	Accounts Payable	Outstanding	Check	-2,207.62
10/22/2025		13730	FERGUSON WATERWORKS	Accounts Payable	Outstanding	Check	-1,961.19
10/22/2025		13731	GRAINGER	Accounts Payable	Outstanding	Check	-851.35
10/22/2025		13732	HAAKER EQUIPMENT COMPANY	Accounts Payable	Outstanding	Check	-6,109.47
10/22/2025		13733	HACH COMPANY	Accounts Payable	Outstanding	Check	-8,033.52
10/22/2025		13734	HAZEN & SAWYER	Accounts Payable	Outstanding	Check	-24,273.75
10/22/2025		13735	JIG CONSULTANTS	Accounts Payable	Outstanding	Check	-44,387.50
10/22/2025		13736	ORKIN, INC.	Accounts Payable	Outstanding	Check	-764.99
10/22/2025		13737	PEBBLE SPRING WATER	Accounts Payable	Outstanding	Check	-66.00
10/22/2025		13738	SANTA MARGARITA WATER DISTRICT	Accounts Payable	Outstanding	Check	-660.00
10/22/2025		13739	SECURITAS TECHNOLOGY	Accounts Payable	Outstanding	Check	-2,482.52
10/22/2025		13740	SHERWIN-WILLIAMS	Accounts Payable	Outstanding	Check	-965.63
10/22/2025		13741	SIERRA ANALYTICAL	Accounts Payable	Outstanding	Check	-3,537.00
10/22/2025		13742	SOTO RESOURCES	Accounts Payable	Outstanding	Check	-641.25
10/22/2025		13743	STARTING LINE ADVISORY	Accounts Payable	Outstanding	Check	-11,375.00
10/22/2025		13744	USA BLUEBOOK	Accounts Payable	Outstanding	Check	-9,796.87
10/22/2025		13745	VISTA PAINT	Accounts Payable	Outstanding	Check	-290.76
10/22/2025		13746	USA BLUEBOOK	Accounts Payable	Outstanding	Check	-9,796.87
10/23/2025		13747	DAVID RODRIGUEZ	Accounts Payable	Outstanding	Check	-20.08
10/30/2025		13748	BRENT MONSON	Accounts Payable	Outstanding	Check	-3,434.61
10/30/2025		13749	CHRIS HOLBROOK	Accounts Payable	Outstanding	Check	-311.00
Check Total: (74)							-2,147,981.79
Check Reversal							
10/22/2025		13744	USA BLUEBOOK Reversal	Accounts Payable	Outstanding	Check Reversal	9,796.87
Check Reversal Total: (1)							9,796.87
EFT							
10/08/2025		813	AMAZON	Accounts Payable	Outstanding	EFT	-1,403.21
10/08/2025		814	DUTHIE ELECTRIC SERVICE CORPORATION	Accounts Payable	Outstanding	EFT	-960.11
10/08/2025		815	MWDOC	Accounts Payable	Outstanding	EFT	-54,291.00
10/08/2025		816	UNIFIRST CORPORATION	Accounts Payable	Outstanding	EFT	-423.66
10/16/2025		817	ACWA	Accounts Payable	Outstanding	EFT	-24,685.00
10/16/2025		818	ARC	Accounts Payable	Outstanding	EFT	-326.57
10/16/2025		819	LANDSCAPE WEST MANGEMENT SERVICES INC	Accounts Payable	Outstanding	EFT	-24,000.00
10/16/2025		820	ORANGE COUNTY PUMPING, INC.	Accounts Payable	Outstanding	EFT	-710.00

Bank Transaction Report

Issued Date Range: -

Issued Date	Cleared Date	Number	Description	Module	Status	Type	Amount
10/16/2025		821	UNITED PUMPING SERVICE, INC.	Accounts Payable	Outstanding	EFT	-16,215.63
10/23/2025		822	AMAZON	Accounts Payable	Outstanding	EFT	-1,061.14
10/23/2025		823	CLA-VAL	Accounts Payable	Outstanding	EFT	-3,151.70
10/23/2025		824	DUPERON CORPORATION	Accounts Payable	Outstanding	EFT	-89,971.25
10/23/2025		825	HIGHROAD INFORMATION TECHNOLOGY, LLC.	Accounts Payable	Outstanding	EFT	-35,096.83
10/23/2025		826	IBEW Local 47	Accounts Payable	Outstanding	EFT	-480.00
10/23/2025		827	INFOSEND, INC.	Accounts Payable	Outstanding	EFT	-1,205.50
10/23/2025		828	IRVINE RANCH WATER DISTRICT	Accounts Payable	Outstanding	EFT	-29,337.05
10/23/2025		829	JCI JONES CHEMICALS, INC	Accounts Payable	Outstanding	EFT	-5,114.71
10/23/2025		830	MWDOC	Accounts Payable	Outstanding	EFT	-77,559.21
10/23/2025		831	ORANGE COUNTY PUMPING, INC.	Accounts Payable	Outstanding	EFT	-2,130.00
10/23/2025		832	SANTA FE SPRINGS WATER SYSTEMS CO	Accounts Payable	Outstanding	EFT	-3,733.54
10/23/2025		833	UNIFIRST CORPORATION	Accounts Payable	Outstanding	EFT	-815.79
10/23/2025		834	VAUGHAN'S INDUSTRIAL REPAIR COMPANY, INC.	Accounts Payable	Outstanding	EFT	-9,384.00
10/23/2025		835	WECK LABORATORIES	Accounts Payable	Outstanding	EFT	-936.00
EFT Total: (23)							-382,991.90
Accounts Payable Total: (128)							-3,083,415.79

Accounts Receivable

Deposit							
10/02/2025		DEP0029922	21021 Shadow Rock Fireflow Test Invoice 10-2-2025	Accounts Receivable	Outstanding	Deposit	250.00
10/06/2025		DEP0029953	19071 Live Oak Fireflow Test Invoice 10-6-2025	Accounts Receivable	Outstanding	Deposit	250.00
10/07/2025		DEP0030014	Apply admin fees - Property Taxes 10/07/25	Accounts Receivable	Outstanding	Deposit	-3.97
10/07/2025		DEP0030014	Apply admin fees - Property Taxes 10/07/25	Accounts Receivable	Outstanding	Deposit	0.59
10/07/2025		DEP0030014	Apply admin fees - Property Taxes 10/07/25	Accounts Receivable	Outstanding	Deposit	3.38
10/07/2025		DEP0030014	Apply admin fees - Property Taxes 10/07/25	Accounts Receivable	Outstanding	Deposit	3.38
10/07/2025		DEP0030014	Apply admin fees - Property Taxes 10/07/25	Accounts Receivable	Outstanding	Deposit	1.96
10/07/2025		DEP0030014	Apply admin fees - Property Taxes 10/07/25	Accounts Receivable	Outstanding	Deposit	-5.34
10/09/2025		DEP0030017	County of Orange - Property Taxes 10/07/25	Accounts Receivable	Outstanding	Deposit	232.28
10/09/2025		DEP0030017	County of Orange - Property Taxes 10/07/25	Accounts Receivable	Outstanding	Deposit	2,938.23
10/09/2025		DEP0030017	County of Orange - Property Taxes 10/07/25	Accounts Receivable	Outstanding	Deposit	2,763.68
10/09/2025		DEP0030017	County of Orange - Property Taxes 10/07/25	Accounts Receivable	Outstanding	Deposit	2,763.68
10/09/2025		DEP0030017	County of Orange - Property Taxes 10/07/25	Accounts Receivable	Outstanding	Deposit	1,347.67
10/09/2025		DEP0030017	County of Orange - Property Taxes 10/07/25	Accounts Receivable	Outstanding	Deposit	2,938.22
10/09/2025		DEP0030017	County of Orange - Property Taxes 10/07/25	Accounts Receivable	Outstanding	Deposit	233.65
10/09/2025		DEP0030017	County of Orange - Property Taxes 10/07/25	Accounts Receivable	Outstanding	Deposit	1,347.66
10/16/2025		DEP0030046	T-mobile Lease Invoice 10-15-2025	Accounts Receivable	Outstanding	Deposit	2,628.74
10/16/2025		DEP0030049	T-mobile Lease Invoice delayed (check dated for 8/25/25)	Accounts Receivable	Outstanding	Deposit	2,628.74
10/17/2025		DEP0030100	Transfer from CLASS to BMO	Accounts Receivable	Outstanding	Deposit	1,400,000.00
10/17/2025		DEP0030100	Transfer from CLASS to BMO	Accounts Receivable	Outstanding	Deposit	500,000.00
10/17/2025		DEP0030100	Transfer from CLASS to BMO	Accounts Receivable	Outstanding	Deposit	100,000.00
10/24/2025		DEP0030220	Pace Payments - Refund	Accounts Receivable	Outstanding	Deposit	292.68
10/24/2025		DEP0030220	Pace Payments - Refund	Accounts Receivable	Outstanding	Deposit	819.49

Bank Transaction Report

Issued Date Range: -

Issued Date	Cleared Date	Number	Description	Module	Status	Type	Amount
10/24/2025		DEP0030220	Pace Payments - Refund	Accounts Receivable	Outstanding	Deposit	58.53
Deposit Total: (24)							2,021,493.25
Accounts Receivable Total: (24)							2,021,493.25
Utility Billing							
Check							
10/06/2025		13675	SUZANNE PERRY	Utility Billing	Outstanding	Check	-2,083.12
Check Total: (1)							-2,083.12
Deposit							
10/01/2025		DEP0029898	Utility Payment Packet UBPKT13451	Utility Billing	Outstanding	Deposit	7,285.76
10/01/2025		DEP0029901	Utility Payment Packet UBPKT13452	Utility Billing	Outstanding	Deposit	5,160.64
10/01/2025		DEP0029904	Utility Payment Packet UBPKT13454	Utility Billing	Outstanding	Deposit	9,951.72
10/01/2025		DEP0029907	Utility Payment Packet UBPKT13456	Utility Billing	Outstanding	Deposit	30,136.24
10/01/2025		DEP0029910	Utility Payment Packet UBPKT13457	Utility Billing	Outstanding	Deposit	6,462.97
10/02/2025		DEP0029913	Utility Payment Packet UBPKT13458	Utility Billing	Outstanding	Deposit	3,925.64
10/02/2025		DEP0029916	Utility Payment Packet UBPKT13459	Utility Billing	Outstanding	Deposit	8,865.53
10/02/2025		DEP0029920	Utility Payment Packet UBPKT13462	Utility Billing	Outstanding	Deposit	10,663.37
10/02/2025		DEP0029925	Utility Payment Packet UBPKT13463	Utility Billing	Outstanding	Deposit	6,484.04
10/03/2025		DEP0029928	Utility Payment Packet UBPKT13464	Utility Billing	Outstanding	Deposit	4,176.49
10/03/2025		DEP0029931	Utility Payment Packet UBPKT13465	Utility Billing	Outstanding	Deposit	3,981.06
10/03/2025		DEP0029935	Utility Payment Packet UBPKT13466	Utility Billing	Outstanding	Deposit	8,448.62
10/06/2025		DEP0029938	Utility Payment Packet UBPKT13467	Utility Billing	Outstanding	Deposit	2,179.84
10/06/2025		DEP0029941	Utility Payment Packet UBPKT13468	Utility Billing	Outstanding	Deposit	5,130.39
10/06/2025		DEP0029944	Utility Reverse Payment Packet UBPKT13469	Utility Billing	Outstanding	Deposit	-194.62
10/06/2025		DEP0029951	Utility Payment Packet UBPKT13481	Utility Billing	Outstanding	Deposit	12,103.28
10/06/2025		DEP0029956	Utility Payment Packet UBPKT13486	Utility Billing	Outstanding	Deposit	37,309.16
10/07/2025		DEP0029959	Utility Payment Packet UBPKT13487	Utility Billing	Outstanding	Deposit	2,163.79
10/07/2025		DEP0029962	Utility Payment Packet UBPKT13488	Utility Billing	Outstanding	Deposit	4,576.91
10/07/2025		DEP0029965	Utility Payment Packet UBPKT13489	Utility Billing	Outstanding	Deposit	6,481.21
10/07/2025		DEP0029968	Utility Payment Packet UBPKT13491	Utility Billing	Outstanding	Deposit	6,279.88
10/08/2025		DEP0029971	Utility Payment Packet UBPKT13492	Utility Billing	Outstanding	Deposit	1,277.72
10/08/2025		DEP0029974	Utility Payment Packet UBPKT13494	Utility Billing	Outstanding	Deposit	5,903.27
10/08/2025		DEP0029977	Utility Payment Packet UBPKT13493	Utility Billing	Outstanding	Deposit	3,083.98
10/08/2025		DEP0029980	Utility Payment Packet UBPKT13500	Utility Billing	Outstanding	Deposit	5,497.57
10/09/2025		DEP0029983	Utility Payment Packet UBPKT13501	Utility Billing	Outstanding	Deposit	1,579.01
10/09/2025		DEP0029986	Utility Payment Packet UBPKT13502	Utility Billing	Outstanding	Deposit	2,579.70
10/09/2025		DEP0029989	Deposit Input Packet UBPKT13503	Utility Billing	Outstanding	Deposit	2,000.00
10/09/2025		DEP0029992	Utility Payment Packet UBPKT13504	Utility Billing	Outstanding	Deposit	1,116.92
10/09/2025		DEP0029995	Utility Payment Packet UBPKT13506	Utility Billing	Outstanding	Deposit	6,797.83
10/10/2025		DEP0029998	Utility Payment Packet UBPKT13507	Utility Billing	Outstanding	Deposit	4,797.68
10/10/2025		DEP0030001	Utility Payment Packet UBPKT13508	Utility Billing	Outstanding	Deposit	1,669.97
10/10/2025		DEP0030005	Utility Payment Packet UBPKT13509	Utility Billing	Outstanding	Deposit	15,502.33
10/13/2025		DEP0030008	Utility Payment Packet UBPKT13510	Utility Billing	Outstanding	Deposit	2,033.40

Bank Transaction Report

Issued Date Range: -

Issued Date	Cleared Date	Number	Description	Module	Status	Type	Amount
10/13/2025		DEP0030011	Utility Payment Packet UBPKT13513	Utility Billing	Outstanding	Deposit	15,226.15
10/14/2025		DEP0030020	Utility Payment Packet UBPKT13515	Utility Billing	Outstanding	Deposit	3,329.79
10/14/2025		DEP0030023	Utility Payment Packet UBPKT13517	Utility Billing	Outstanding	Deposit	20,112.06
10/15/2025		DEP0030026	Utility Payment Packet UBPKT13518	Utility Billing	Outstanding	Deposit	5,214.83
10/15/2025		DEP0030029	Utility Payment Packet UBPKT13519	Utility Billing	Outstanding	Deposit	2,976.64
10/15/2025		DEP0030034	Utility Payment Packet UBPKT13522	Utility Billing	Outstanding	Deposit	10,775.15
10/16/2025		DEP0030037	Utility Payment Packet UBPKT13523	Utility Billing	Outstanding	Deposit	4,659.94
10/16/2025		DEP0030040	Utility Payment Packet UBPKT13524	Utility Billing	Outstanding	Deposit	5,700.20
10/16/2025		DEP0030043	Utility Payment Packet UBPKT13525	Utility Billing	Outstanding	Deposit	8,562.88
10/16/2025		DEP0030052	Utility Payment Packet UBPKT13526	Utility Billing	Outstanding	Deposit	4,702.74
10/16/2025		DEP0030057	Utility Payment Packet UBPKT13528	Utility Billing	Outstanding	Deposit	4,190.77
10/16/2025		DEP0030063	Utility Payment Packet UBPKT13529	Utility Billing	Outstanding	Deposit	77,370.80
10/17/2025		DEP0030066	Utility Payment Packet UBPKT13530	Utility Billing	Outstanding	Deposit	10,307.27
10/17/2025		DEP0030072	Utility Payment Packet UBPKT13532	Utility Billing	Outstanding	Deposit	22,779.00
10/20/2025		DEP0030060	ACH Draft Packet UBPKT13347	Utility Billing	Outstanding	Deposit	363,135.33
10/20/2025		DEP0030069	Utility Payment Packet UBPKT13531	Utility Billing	Outstanding	Deposit	7,640.38
10/20/2025		DEP0030075	Utility Payment Packet UBPKT13533	Utility Billing	Outstanding	Deposit	17,258.91
10/20/2025		DEP0030078	Utility Payment Packet UBPKT13534	Utility Billing	Outstanding	Deposit	11,176.18
10/20/2025		DEP0030081	Utility Reverse Payment Packet UBPKT13536	Utility Billing	Outstanding	Deposit	-150.00
10/20/2025		DEP0030084	Utility Payment Packet UBPKT13537	Utility Billing	Outstanding	Deposit	6,511.61
10/20/2025		DEP0030087	Utility Payment Packet UBPKT13540	Utility Billing	Outstanding	Deposit	379,944.51
10/21/2025		DEP0030091	Utility Payment Packet UBPKT13541	Utility Billing	Outstanding	Deposit	1,472.46
10/21/2025		DEP0030094	Utility Payment Packet UBPKT13542	Utility Billing	Outstanding	Deposit	10,434.88
10/21/2025		DEP0030097	Utility Payment Packet UBPKT13543	Utility Billing	Outstanding	Deposit	1,035.68
10/21/2025		DEP0030106	Utility Payment Packet UBPKT13549	Utility Billing	Outstanding	Deposit	14,969.24
10/22/2025		DEP0030109	Utility Payment Packet UBPKT13550	Utility Billing	Outstanding	Deposit	1,905.19
10/22/2025		DEP0030112	Utility Payment Packet UBPKT13551	Utility Billing	Outstanding	Deposit	3,178.04
10/22/2025		DEP0030121	Utility Reverse Payment Packet UBPKT13555	Utility Billing	Outstanding	Deposit	-248.79
10/23/2025		DEP0030115	Utility Payment Packet UBPKT13552	Utility Billing	Outstanding	Deposit	1,135.25
10/23/2025		DEP0030118	Utility Payment Packet UBPKT13553	Utility Billing	Outstanding	Deposit	2,309.22
10/23/2025		DEP0030124	Utility Reverse Payment Packet UBPKT13556	Utility Billing	Outstanding	Deposit	-103.47
10/23/2025		DEP0030127	Utility Payment Packet UBPKT13561	Utility Billing	Outstanding	Deposit	12,203.97
10/24/2025		DEP0030130	Utility Payment Packet UBPKT13562	Utility Billing	Outstanding	Deposit	377.90
10/24/2025		DEP0030133	Utility Payment Packet UBPKT13563	Utility Billing	Outstanding	Deposit	413.07
10/24/2025		DEP0030136	Utility Payment Packet UBPKT13568	Utility Billing	Outstanding	Deposit	42,891.49
10/27/2025		DEP0030139	Utility Payment Packet UBPKT13569	Utility Billing	Outstanding	Deposit	1,553.80
10/27/2025		DEP0030142	Utility Payment Packet UBPKT13570	Utility Billing	Outstanding	Deposit	1,031.29
10/27/2025		DEP0030146	Utility Payment Packet UBPKT13575	Utility Billing	Outstanding	Deposit	8,784.44
10/28/2025		DEP0030149	Utility Payment Packet UBPKT13576	Utility Billing	Outstanding	Deposit	10,940.72
10/28/2025		DEP0030152	Utility Payment Packet UBPKT13577	Utility Billing	Outstanding	Deposit	1,737.69
10/28/2025		DEP0030155	Utility Payment Packet UBPKT13580	Utility Billing	Outstanding	Deposit	3,918.94
10/28/2025		DEP0030158	Utility Payment Packet UBPKT13584	Utility Billing	Outstanding	Deposit	8,553.28
10/29/2025		DEP0030161	Utility Payment Packet UBPKT13585	Utility Billing	Outstanding	Deposit	3,959.08

Bank Transaction Report

Issued Date Range: -

Issued Date	Cleared Date	Number	Description	Module	Status	Type	Amount
10/29/2025		DEP0030164	Utility Payment Packet UBPKT13586	Utility Billing	Outstanding	Deposit	8,660.76
10/29/2025		DEP0030167	Utility Payment Packet UBPKT13589	Utility Billing	Outstanding	Deposit	8,511.32
10/29/2025		DEP0030170	Utility Payment Packet UBPKT13591	Utility Billing	Outstanding	Deposit	8,860.09
10/30/2025		DEP0030173	Utility Payment Packet UBPKT13592	Utility Billing	Outstanding	Deposit	3,382.26
10/30/2025		DEP0030176	Utility Payment Packet UBPKT13593	Utility Billing	Outstanding	Deposit	11,089.34
10/30/2025		DEP0030179	Utility Payment Packet UBPKT13594	Utility Billing	Outstanding	Deposit	14,802.31
10/30/2025		DEP0030182	Utility Payment Packet UBPKT13595	Utility Billing	Outstanding	Deposit	5,062.58
10/31/2025		DEP0030185	Utility Payment Packet UBPKT13596	Utility Billing	Outstanding	Deposit	3,230.06
10/31/2025		DEP0030190	Utility Payment Packet UBPKT13597	Utility Billing	Outstanding	Deposit	5,512.79
10/31/2025		DEP0030193	Utility Payment Packet UBPKT13598	Utility Billing	Outstanding	Deposit	48,955.43
Deposit Total: (87)							1,467,356.75
Utility Billing Total: (88)							1,465,273.63
Report Total: (240)							403,351.09

Summary

Bank Account	Count	Amount
030866939 BMO Checking	240	403,351.09
Report Total:	240	403,351.09

Cash Account	Count	Amount
99 99-000-1004 BMO Checking (Pooled Cash)	240	403,351.09
Report Total:	240	403,351.09

Transaction Type	Count	Amount
Bank Draft	30	-562,238.97
Check	75	-2,150,064.91
Check Reversal	1	9,796.87
Deposit	111	3,488,850.00
EFT	23	-382,991.90
Report Total:	240	403,351.09

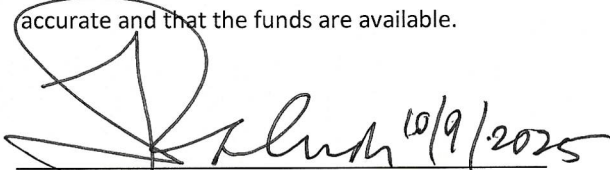


Trabuco Canyon Water District
General Fund Warrant Register
10/9/2025

Summary of Disbursements

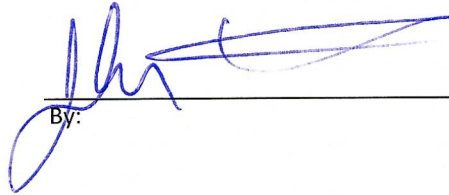
Computer Checks	1,120,201.67
UB Refund Checks	3,534.50
Void UB Refund	-
Bank Drafts	589,360.60
Bank EFTs	88,923.12
Voided Payments	-
Total Disbursements	1,802,019.89

I hereby certify that the claims or demands covered by the above listed warrants have been audited as to accuracy and the availability of funds for payment thereof; and that the said claims or demands are accurate and that the funds are available.



General Manager / Assistant General Manager

This is to certify that claims or demands covered by the above listed warrants have been audited by the Finance/Audit Committee of the Trabuco Canyon Water District and that all of the said warrants are approved for payment.



By: 10/9/25
Date:



By: 10/9/25
Date:



Trabuco Canyon Water District, CA

Bank Transaction Report

Transaction Detail

Issued Date Range: 09/10/2025 - 10/07/2025

Cleared Date Range: -

Issued Date	Cleared Date	Number	Description	Module	Status	Type	Amount
Accounts Payable							
Bank Draft							
09/10/2025	09/30/2025	DFT0004168	ADP	Accounts Payable	Cleared	Bank Draft	-2,146.54
09/10/2025	09/30/2025	DFT0004169	COX COMMUNICATIONS	Accounts Payable	Cleared	Bank Draft	-1,660.28
09/10/2025	09/30/2025	DFT0004170	WAGE WORKS, INC.	Accounts Payable	Cleared	Bank Draft	-50.00
09/15/2025	09/30/2025	DFT0004171	COX COMMUNICATIONS	Accounts Payable	Cleared	Bank Draft	-75.03
09/15/2025	09/30/2025	DFT0004172	PACE PAYMENT SYSTEMS, INC.	Accounts Payable	Cleared	Bank Draft	-262.95
09/15/2025	09/30/2025	DFT0004173	SOUTHERN CALIFORNIA EDISON	Accounts Payable	Cleared	Bank Draft	-39,483.69
09/15/2025	09/30/2025	DFT0004174	VERIZON BUSINESS	Accounts Payable	Cleared	Bank Draft	-1,566.11
09/17/2025	09/30/2025	DFT0004175	XEROX CORPORATION	Accounts Payable	Cleared	Bank Draft	-211.31
09/17/2025	09/30/2025	DFT0004176	WEX FLEET UNIVERSAL	Accounts Payable	Cleared	Bank Draft	-5,303.46
09/19/2025	09/30/2025	DFT0004180	CALPERS	Accounts Payable	Cleared	Bank Draft	-9,467.49
09/19/2025	09/30/2025	DFT0004181	COX COMMUNICATIONS	Accounts Payable	Cleared	Bank Draft	-1,029.99
09/19/2025	09/30/2025	DFT0004182	ORANGE COUNTY REGISTER - FREEDOM	Accounts Payable	Cleared	Bank Draft	-496.56
09/22/2025	09/30/2025	DFT0004183	TAB ANSWER NETWORK	Accounts Payable	Cleared	Bank Draft	-271.19
09/23/2025	09/30/2025	DFT0004177	ADP	Accounts Payable	Cleared	Bank Draft	-144,437.40
09/23/2025	09/30/2025	DFT0004178	CALPERS	Accounts Payable	Cleared	Bank Draft	-27,272.07
09/23/2025	09/30/2025	DFT0004179	ORANGE COUNTY REGISTER - FREEDOM	Accounts Payable	Cleared	Bank Draft	-33.73
09/24/2025	09/30/2025	DFT0004184	WAGE WORKS, INC.	Accounts Payable	Cleared	Bank Draft	-75.00
09/25/2025	09/30/2025	DFT0004185	HOME DEPOT CREDIT SERVICES	Accounts Payable	Cleared	Bank Draft	-466.14
09/26/2025	09/30/2025	DFT0004186	CALPERS	Accounts Payable	Cleared	Bank Draft	-105,750.56
09/26/2025	09/30/2025	DFT0004187	CSDA Commercial Card - UMPQUA BANK	Accounts Payable	Cleared	Bank Draft	-17,149.29
09/26/2025	09/30/2025	DFT0004188	GUARDIAN	Accounts Payable	Cleared	Bank Draft	-4,150.84
09/29/2025	09/30/2025	DFT0004189	WAGE WORKS, INC.	Accounts Payable	Cleared	Bank Draft	-175.00
09/30/2025	09/30/2025	DFT0004190	PITNEY BOWES GLOBAL FINANCIAL SERVICES LLC	Accounts Payable	Cleared	Bank Draft	-192.34
09/30/2025	09/30/2025	DFT0004191	SANTA MARGARITA WATER DISTRICT	Accounts Payable	Cleared	Bank Draft	-4,460.34
10/02/2025		DFT0004192	ADP	Accounts Payable	Outstanding	Bank Draft	-154,125.61
10/02/2025		DFT0004193	PACE PAYMENT SYSTEMS, INC.	Accounts Payable	Outstanding	Bank Draft	-6,569.37
10/02/2025		DFT0004194	VSP	Accounts Payable	Outstanding	Bank Draft	-775.06
10/03/2025		DFT0004195	ADP	Accounts Payable	Outstanding	Bank Draft	-112.00
10/03/2025		DFT0004196	BRINKS HOME SECURITY	Accounts Payable	Outstanding	Bank Draft	-269.99
10/06/2025		DFT0004197	THE TOLL ROADS	Accounts Payable	Outstanding	Bank Draft	-675.00
10/07/2025		DFT0004198	CALPERS	Accounts Payable	Outstanding	Bank Draft	-60,646.26
Bank Draft Total: (31)							-589,360.60
Check							
09/10/2025	09/30/2025	13636	JUAN A. QUINONEZ	Accounts Payable	Cleared	Check	-4,218.73

Bank Transaction Report

Issued Date Range: -

Issued Date	Cleared Date	Number	Description	Module	Status	Type	Amount
09/24/2025	09/30/2025	13638	AT&T	Accounts Payable	Cleared	Check	-727.69
09/24/2025		13639	AT&T MOBILITY	Accounts Payable	Outstanding	Check	-124.71
09/24/2025	09/30/2025	13640	ATKINSON, ANDELSON, LOYA, RUUD, & ROMO	Accounts Payable	Cleared	Check	-1,015.00
09/24/2025	09/30/2025	13641	BLACK KNIGHT FINANCIAL SERVICES, LCC	Accounts Payable	Cleared	Check	-9.90
09/24/2025	09/30/2025	13642	CHRIS HOLBROOK	Accounts Payable	Cleared	Check	-2,607.08
09/24/2025		13643	COUNTY OF ORANGE	Accounts Payable	Outstanding	Check	-605.11
09/24/2025	09/30/2025	13644	CS-AMSCO	Accounts Payable	Cleared	Check	-24,691.14
09/24/2025		13645	DELCO SERVICE, INC.	Accounts Payable	Outstanding	Check	-2,252.17
09/24/2025	09/30/2025	13646	DMS FACILITY SERVICES	Accounts Payable	Cleared	Check	-1,340.98
09/24/2025		13647	FEDEX	Accounts Payable	Outstanding	Check	-59.16
09/24/2025	09/30/2025	13648	FERGUSON WATERWORKS	Accounts Payable	Cleared	Check	-7,106.20
09/24/2025	09/30/2025	13649	FULLER TRUCK ACCESSORIES	Accounts Payable	Cleared	Check	-1,000.53
09/24/2025		13650	GLENN ACOSTA	Accounts Payable	Outstanding	Check	-556.56
09/24/2025	09/30/2025	13651	GRAINGER	Accounts Payable	Cleared	Check	-561.45
09/24/2025	09/30/2025	13652	HANSON BRIDGETT LLP	Accounts Payable	Cleared	Check	-32,121.00
09/24/2025	09/30/2025	13653	HYDROTECH ELECTRIC	Accounts Payable	Cleared	Check	-8,877.00
09/24/2025	09/30/2025	13654	INFOSEND, INC.	Accounts Payable	Cleared	Check	-1,892.90
09/24/2025	09/30/2025	13655	IRVINE RANCH WATER DISTRICT	Accounts Payable	Cleared	Check	-654,092.28
09/24/2025	09/30/2025	13656	LORRAINE LAUSTEN	Accounts Payable	Cleared	Check	-110.00
09/24/2025	09/30/2025	13657	NEW DIMENSION GENERAL CONSTRUCTION	Accounts Payable	Cleared	Check	-4,526.96
09/24/2025	09/30/2025	13658	OCCUPATIONAL HEALTH CENTERS OF CA	Accounts Payable	Cleared	Check	-276.00
09/24/2025		13659	ORANGE COUNTY PUMPING, INC.	Accounts Payable	Outstanding	Check	-2,485.00
09/24/2025		13660	ORKIN, INC.	Accounts Payable	Outstanding	Check	-1,460.96
09/24/2025		13661	PARKWAY ARBORIST & LANDSCAPE SUPPLIES	Accounts Payable	Outstanding	Check	-4,425.26
09/24/2025		13662	PEBBLE SPRING WATER	Accounts Payable	Outstanding	Check	-192.00
09/24/2025		13663	PROJECT PARTNERS, INC.	Accounts Payable	Outstanding	Check	-11,900.00
09/24/2025	09/30/2025	13664	SANTA MARGARITA FORD	Accounts Payable	Cleared	Check	-534.16
09/24/2025	09/30/2025	13665	SANTA MARGARITA WATER DISTRICT	Accounts Payable	Cleared	Check	-660.00
09/24/2025		13666	SECURITAS TECHNOLOGY	Accounts Payable	Outstanding	Check	-491.68
09/24/2025		13667	SHERWIN-WILLIAMS	Accounts Payable	Outstanding	Check	-492.14
09/24/2025		13668	SIERRA ANALYTICAL	Accounts Payable	Outstanding	Check	-2,285.50
09/24/2025		13669	SS MECHANICAL CONSTRUCTION CORP.	Accounts Payable	Outstanding	Check	-49,029.50
09/24/2025	09/30/2025	13670	STARTING LINE ADVISORY	Accounts Payable	Cleared	Check	-11,375.00
09/24/2025	09/30/2025	13671	SUPERIOR STORAGE TANKS & TRAILERS	Accounts Payable	Cleared	Check	-6,573.00
09/24/2025		13672	USA BLUEBOOK	Accounts Payable	Outstanding	Check	-3,662.98
09/24/2025	09/30/2025	13673	WECK LABORATORIES	Accounts Payable	Cleared	Check	-966.00
09/30/2025		13674	SUSAN M. WOOLLEY	Accounts Payable	Outstanding	Check	-15,327.00
10/07/2025		13676	ADVANCED INTEGRATION & CONTROLS	Accounts Payable	Outstanding	Check	-7,144.00
10/07/2025		13677	ARC	Accounts Payable	Outstanding	Check	-756.15
10/07/2025		13678	COMMONWEALTH LAND TITLE COMPANY	Accounts Payable	Outstanding	Check	-1,500.00
10/07/2025		13679	COUNTY OF ORANGE	Accounts Payable	Outstanding	Check	-4,548.34
10/07/2025		13680	DMV	Accounts Payable	Outstanding	Check	-20.00
10/07/2025		13681	DOVE CANYON MASTER ASSOCIATION	Accounts Payable	Outstanding	Check	-13,639.00

Bank Transaction Report

Issued Date Range: -

Issued Date	Cleared Date	Number	Description	Module	Status	Type	Amount
10/07/2025		13682	FEDEX	Accounts Payable	Outstanding	Check	-118.32
10/07/2025		13683	FERGUSON WATERWORKS	Accounts Payable	Outstanding	Check	-1,693.67
10/07/2025		13684	GRAINGER	Accounts Payable	Outstanding	Check	-1,098.08
10/07/2025		13685	HYDROTECH ELECTRIC	Accounts Payable	Outstanding	Check	-27,633.95
10/07/2025		13686	JES ENGINEERING CONTRACTORS, INC.	Accounts Payable	Outstanding	Check	-176,505.81
10/07/2025		13687	NBS	Accounts Payable	Outstanding	Check	-1,045.70
10/07/2025		13688	ORANGE COUNTY PUMPING, INC.	Accounts Payable	Outstanding	Check	-1,775.00
10/07/2025		13689	O'REILLY AUTOMOTIVE, INC.	Accounts Payable	Outstanding	Check	-220.25
10/07/2025		13690	ORKIN, INC.	Accounts Payable	Outstanding	Check	-155.99
10/07/2025		13691	QUINCY COMPRESSOR	Accounts Payable	Outstanding	Check	-237.16
10/07/2025		13692	ROBERT BARGERON	Accounts Payable	Outstanding	Check	-3,024.27
10/07/2025		13693	SIERRA ANALYTICAL	Accounts Payable	Outstanding	Check	-5,888.50
10/07/2025		13694	STADIA REALTY, INC.	Accounts Payable	Outstanding	Check	-10,000.00
10/07/2025		13695	TOUCH TEL MOBILE	Accounts Payable	Outstanding	Check	-625.00
10/07/2025		13696	TRENCH SHORING COMPANY	Accounts Payable	Outstanding	Check	-850.50
10/07/2025		13697	TYLER TECHNOLOGIES, INC.	Accounts Payable	Outstanding	Check	-42.60
10/07/2025		13698	UNDERGROUND SERVICE ALERT/SC	Accounts Payable	Outstanding	Check	-104.00
10/07/2025		13699	VORTEX INDUSTRIES, INC.	Accounts Payable	Outstanding	Check	-942.65
Check Total: (62)							-1,120,201.67
EFT							
09/19/2025	09/30/2025	806	ACWA JPIA - LIFE	Accounts Payable	Cleared	EFT	-1,225.68
09/19/2025	09/30/2025	807	IBEW Local 47	Accounts Payable	Cleared	EFT	-480.00
09/25/2025	09/30/2025	808	AMAZON	Accounts Payable	Cleared	EFT	-537.13
09/25/2025	09/30/2025	809	DUTHIE ELECTRIC SERVICE CORPORATION	Accounts Payable	Cleared	EFT	-5,410.00
09/25/2025	09/30/2025	810	JCI JONES CHEMICALS, INC	Accounts Payable	Cleared	EFT	-4,410.40
09/25/2025	09/30/2025	811	MWDOC	Accounts Payable	Cleared	EFT	-76,467.78
09/25/2025	09/30/2025	812	UNIFIRST CORPORATION	Accounts Payable	Cleared	EFT	-392.13
EFT Total: (7)							-88,923.12
Accounts Payable Total: (100)							-1,798,485.39
Utility Billing							
Check							
09/23/2025		13637	R.D. ENGINEERING & CONSTRUCTION	Utility Billing	Outstanding	Check	-1,451.38
10/06/2025		13675	SUZANNE PERRY	Utility Billing	Outstanding	Check	-2,083.12
Check Total: (2)							-3,534.50
Utility Billing Total: (2)							-3,534.50
Report Total: (102)							-1,802,019.89

Summary

Bank Account	Count	Amount
030866939 BMO Checking	102	-1,802,019.89
Report Total:	102	-1,802,019.89

Cash Account	Count	Amount
99 99-000-1004 BMO Checking (Pooled Cash)	102	-1,802,019.89
Report Total:	102	-1,802,019.89

Transaction Type	Count	Amount
Bank Draft	31	-589,360.60
Check	64	-1,123,736.17
EFT	7	-88,923.12
Report Total:	102	-1,802,019.89



Warrant Registry
Trabuco Canyon Water District
County of Orange
State of California

GENERAL FUND PAYROLL WARRANT REGISTER

For the Month of: October 2025

\$ 307,693.86

I hereby certify that the claims or demands covered by the above listed warrants have been audited as to accuracy and the availability of funds for payment thereof; and that the said claims or demands are accurate and that the funds are available.

This is to certify that claims or demands covered by the above listed warrants have been audited by the Finance/Audit Committee of the Trabuco Canyon Water District and that all of the said warrants are approved for payment.

[Signature] 11/13/2025 [Signature] 11-13-25
General Manager / Assistant General Manager Chair Date

Michael F. Saphrenski 11/13/25
Member Date

Net Pay	Checks				.00
	Direct Deposits				99,348.55
	Subtotal Net Pay				99,348.55
	Adjustments				7,218.95
	Total Net Pay Liability (Net Cash)				106,567.50

Taxes		You are responsible for		Amount debited		
		Depositing these amounts		from your account		
Federal	Agency	Rate	EE withheld	ER contrib.	EE withheld	ER contrib.
	Federal Income Tax				23,126.17	
	Earned Income Credit Advances					
	Social Security				7,156.86	7,156.84
	Medicare				2,434.18	2,434.20
	Medicare Surtax				223.41	
	Federal Unemployment Tax					
	Subtotal Federal		32,940.62	9,591.04		42,531.66
	FMLA-PSL Payments Credit					
	FMLA-PSL ER FICA Credit					
	FMLA-PSL Health Care Premium Credit					
	Employee Retention Qualified Payments Cre					
	Employee Retention Qualified Health Care					
	Cobra Premium Assistance Payments					
	Total Federal		32,940.62	9,591.04		42,531.66
State	CA State Income Tax				10,149.60	
	CA State Unemployment Insurance-ER 7000					20.88
	CA State Disability Insurance-EE				2,012.55	
	Subtotal CA		12,162.15	20.88		12,183.03
	Total Taxes	.00	.00	45,102.77	9,611.92	54,714.69
	Amount ADP Debited From Account XXXXX6939		Tran/ABA XXXXXXXXXX			54,714.69 Excludes Taxes That Are Your Responsibility

Other	ADP Direct Deposit				99,348.55	27 Employee Transactions
	Transfers Amount ADP Debited From Account XXXXX6939		Tran/ABA XXXXXXXXXX			99,348.55
	Total Amount ADP Debited From Your Accounts					154,063.24



Statistical Summary Detail

TRABUCO CANYON WATER

Region Name : GKN
Company Code : ADP RESOURCE

Batch : 6903
Quarter Number : 4
Service Center : 580

Period Ending : 10/15/2025
Pay Date : 10/20/2025
Current Date : 10/16/2025

Week 42
Page 2

Net Pay	Checks	1,589.57			
	Direct Deposits	100,138.62			
	Subtotal Net Pay				101,728.19
	Adjustments	3,434.61			
	Total Net Pay Liability (Net Cash)				105,162.80

Taxes		You are responsible for		Amount debited		
		Depositing these amounts		from your account		
Federal	Agency	Rate	EE withheld	ER contrib.	EE withheld	ER contrib.
	Federal Income Tax				22,349.08	
	Earned Income Credit Advances					
	Social Security				6,442.05	6,442.06
	Medicare				2,385.72	2,385.70
	Medicare Surtax				291.20	
	Federal Unemployment Tax					
	Subtotal Federal		31,468.05		8,827.76	40,295.81
	FMLA-PSL Payments Credit					
	FMLA-PSL ER FICA Credit					
	FMLA-PSL Health Care Premium Credit					
	Employee Retention Qualified Payments Cre					
	Employee Retention Qualified Health Care					
	Cobra Premium Assistance Payments					
	Total Federal		31,468.05		8,827.76	40,295.81
State	CA State Income Tax				9,689.70	
	CA State Unemployment Insurance-ER 7000					
	CA State Disability Insurance-EE				1,916.92	
	Subtotal CA				11,606.62	11,606.62
	Total Taxes	.00	.00	43,074.67	8,827.76	51,902.43
	Amount ADP Debited From AccountXXXX6939					51,902.43
	Tran/ABA XXXXXXXXXX					Excludes Taxes That Are Your Responsibility

Other	ADP Direct Deposit	100,138.62				30 Employee Transactions
Transfers	ADP Check	1,589.57				
	Amount ADP Debited From AccountXXXX6939					101,728.19
	Tran/ABA XXXXXXXXXX					
	Total Amount ADP Debited From Your Accounts					153,630.62



Statistical Summary Detail

TRABUCO CANYON WATER

Region Name : **GKN**
Company Code : ADP RESOURCE

Batch : **8022**
Quarter Number : **4**
Service Center : **580**

Period Ending : **10/31/2025**
Pay Date : **11/05/2025**
Current Date : **11/03/2025**

Week **45**
Page **2**

**TRABUCO CANYON WATER DISTRICT
REGULAR BOARD MEETING | NOVEMBER 19, 2025**

CONSENT CALENDAR

ITEM 3: APPROVAL OF ENGINEERING/OPERATIONAL COMMITTEE MEETING RECAP(S)

RECOMMENDED ACTION:

Approve the following Engineering/Operational Committee Meeting Recap(s) and recommend that the Board receive and file same (Consent Calendar):

1. *October 1, 2025*

CONTACTS (staff responsible): PALUDI/PEREA



**TRABUCO CANYON WATER DISTRICT
ENGINEERING/OPERATIONAL COMMITTEE MEETING RECAP | OCTOBER 1, 2025**

DIRECTORS PRESENT

Mark Anderson, Committee Chair
Glenn Acosta, Committee Member

STAFF PRESENT

Fernando Paludi, General Manager
Michael Perea, Assistant General Manager
Lorrie Lausten, District Engineer
Gary Kessler, Water Superintendent
Oscar Ulloa, Wastewater Superintendent
Jason Stroud, Maintenance Superintendent
Roseann Lejsek, Executive Assistant
Phil Serpas, CMMS/SCADA Administrator

STAFF ABSENT

None

DISTRICT CONSULTANTS

None

PUBLIC PRESENT

None

CALL MEETING TO ORDER

Director Anderson called the October 1, 2025 Engineering/Operational Committee Meeting to order at 8:00 a.m.

VISITOR PARTICIPATION

No comments were received.

ORAL COMMUNICATION

No comments were received.

COMMITTEE MEMBER COMMENTS

None

REPORT FROM THE GENERAL MANAGER

None

ITEM 1: ENGINEERING/OPERATIONAL COMMITTEE MEETING RECAP

Mr. Paludi presented the Engineering/Operational Committee Meeting Recap for Committee review in accordance with the agenda.

RECOMMENDATION: The Committee recommended forwarding this matter to the Board of Directors (Consent Calendar).

**TRABUCO CANYON WATER DISTRICT
ENGINEERING/OPERATIONAL COMMITTEE MEETING RECAP | OCTOBER 1, 2025**

ITEM 2: QUARTERLY CAPITAL IMPROVEMENT PROGRAM UPDATE

Mr. Paludi presented this matter for Committee consideration. Ms. Lausten provided a high-level status update of each project budgeted for FY25/26, and a detailed status update of the DWTP Pipeline Improvements project.

RECOMMENDATION: None – Informational item only.

ITEM 3: OTHER ENGINEERING AND OPERATIONS PROJECT UPDATES

1. Dimension Water Treatment Plant Pipeline Rehabilitation Project

Ms. Lausten reported that Phase 1A is on track to be completed in the next few weeks, and she stated that she anticipates the project to be completed by the end of the year. Ms. Lausten noted that small, unforeseen challenges have been identified as the project progresses but that these matters are being worked through. Mr. Kessler provided a brief update on the status of the filter plant project.

2. Urban Water Management Plan

Ms. Lausten reported that the Urban Water Management Plan must be updated every five years, and that staff attended a kickoff meeting with MWDOC for cost-sharing services to complete the report. Ms. Lausten added that the approximate cost to the District is \$40,000.

3. Other Projects

Staffing - Mr. Paludi reported that Mr. David Rodriguez has been hired as a full-time employee of the District. Director Acosta suggested that Mr. Rodriguez attend future meetings of the Engineering/Operational Committee.

Trabuco Oaks Community Hydrant Pressures – Mr. Perea reported that the District’s consultant, Hazen & Sawyer, was preparing a cost assessment memo that should be completed in the next couple of weeks.

Discussion occurred regarding the status of a claim with the County of Orange related to potential water quality issues stemming from the Airport Fire. Mr. Kessler reported that sample testing has been completed at the creek, and that no evidence of contamination has been found, therefore, a claim has not been filed at this time.

RECOMMENDATION: None – Informational item only.

ITEM 4: WATER SYSTEM UPDATES

Mr. Kessler reviewed the projects and repairs for the prior month, and he reported that Water Operations staff had completed the following tasks:

1. Worked with Hydrotech on EMASS at pump stations.
2. Assisted Meter Tech with angle stop repair on Old Oak in Robinson Ranch.
3. Performed site cleanup at Harris Grade Tanks (weeds and painting).
4. Assisted with both parts 1A and 1B on transmission main line repair.

Mr. Kessler presented the Water System Summary for Committee review, and he noted that the report would reflect September’s data at next month’s meeting.

RECOMMENDATION: None – Informational item only.

**TRABUCO CANYON WATER DISTRICT
ENGINEERING/OPERATIONAL COMMITTEE MEETING RECAP | OCTOBER 1, 2025**

ITEM 5: WASTEWATER SYSTEM UPDATES

Mr. Ulloa reviewed the projects and repairs for the prior month, and he reported that Wastewater Operations staff had completed the following tasks:

1. Replaced a 4" valve for filter 2 at the WWTP.
2. Installed a 4" bypass drain line at Dove Creek for weed abatement control.
3. Weed abatement completed at the WWTP to comply with the Division of Safety of Dams (DSOD).
4. Assisted with process screen replacements at Heritage Lift Station.
5. General painting at WWTP.
6. Line cleaned 1.5 miles of gravity sewer line on Santiago Rd.

Mr. Ulloa presented the Recycled Water System Summary for Committee review, and he noted that the report would reflect September's data at next month's meeting. Mr. Ulloa also presented the Sewer System Management Plan Quarterly Report for Committee review.

RECOMMENDATION: None – Informational item only.

ITEM 6: MAINTENANCE DEPARTMENT UPDATES

Mr. Stroud reviewed the projects and repairs for the prior month, and he reported that Maintenance staff completed the following tasks:

Projects and Repairs

Maintenance staff performed and/or completed the following tasks and projects:

Water Operations

1. Witnessed slip line project start up on DWTP transmission line.

Wastewater Operations

1. Received new dual head air compressor for WWTP.
2. Assisted Wastewater dept with sewer line cleaning on Santiago Canyon Road.

District Fleet Upgrades & Other Projects

1. BIT Program.
2. Prepped Porter Ranch for OCFAs USAR training.
3. Received new 200-gallon water tank skid.
4. Received five (5) new small generators: one 5500 watt two 3500 watt and two 2000 watt. These are the smaller job site type used for power tools and loss of power for our telemetry sites.
5. Cleaned up shop and Maintenance yard in preparation for facility tours.

RECOMMENDATION: None – Informational item only.

ITEM 7: OTHER MATTERS/REPORTS

No other matters were reported.

RECOMMENDATION: None

ADJOURNMENT

Director Anderson adjourned the October 1, 2025 Engineering/Operational Committee Meeting at 8:20 a.m.

**TRABUCO CANYON WATER DISTRICT
REGULAR BOARD MEETING | NOVEMBER 19, 2025**

CONSENT CALENDAR

ITEM 4: APPROVAL OF EXECUTIVE COMMITTEE MEETING RECAP(S)

RECOMMENDED ACTION:

Approve the following Engineering/Operational Committee Meeting Recap(s) and recommend that the Board receive and file same (Consent Calendar):

1. *September 8, 2025*
2. *October 13, 2025*

CONTACTS (staff responsible): PALUDI/PEREA



TRABUCO CANYON WATER DISTRICT EXECUTIVE COMMITTEE MEETING RECAP | SEPTEMBER 8, 2025

DIRECTORS PRESENT

Vice President Glenn Acosta, Committee Chair
President Edward Mandich, Committee Member

STAFF PRESENT

Fernando Paludi, General Manager
Michael Perea, Assistant General Manager
Roseann Lejsek, Executive Assistant

CONSULTANTS PRESENT (REMOTE)

Claire Collins, District General Legal Counsel – Hanson Bridgett, LLP

PUBLIC PRESENT

None

CALL MEETING TO ORDER

Vice President Acosta called the September 8, 2025 Executive Committee Meeting to order at 4:01 PM.

VISITOR PARTICIPATION

No visitor participation was received.

ORAL COMMUNICATION

No oral communication was received.

COMMITTEE MEMBER COMMENTS

None

REPORT FROM THE GENERAL MANAGER

Mr. Paludi reported that he will be on vacation the last two weeks in September.

ADMINISTRATIVE MATTERS

ITEM 1: APPROVAL OF EXECUTIVE COMMITTEE MEETING RECAP

Mr. Paludi presented the Executive Committee Meeting Recap(s) for Committee consideration in accordance with the agenda.

RECOMMENDATION: The Committee recommended forwarding this matter to the Board of Directors (Consent Calendar).

**TRABUCO CANYON WATER DISTRICT
EXECUTIVE COMMITTEE MEETING RECAP | SEPTEMBER 8, 2025**

DISCUSSION MATTERS

ITEM 2: BOARD AGENDA PLANNING CALENDAR

Mr. Paludi provided a handout that included the following agenda planning items for Committee review and consideration:

September 2025

Special Board Meeting – (9/9)

- Closed Session – GM Recruitment

Regular Board Meeting – (9/17) – GM Paludi will be on vacation

- Committee Reports
- Award Website Redesign and Maintenance Contract (F/A)
- Award Construction Management Contract for WWTP Blower Station Imp (E/O)
- Approve Equipment Purchase for WWTP Blower Station Imp (E/O)
- Approve GM Contract Amendment (month to month)
- Discussion re Water Fixed Charges (F/A)
- Quarterly CIP Update
- Closed Session
 - GM Recruitment
 - GM Contract (current)

Special Board Meeting (TBD)

- Porter Property Uses presentation and discussion

October 2025

Regular Board Meeting – (10/15)

- Award Construction Contract for Saddle Crest Res Outlet Improvements (E/O)

November 2025

Regular Board Meeting – (11/19)

- Award Heritage SLS Improvements Construction Contract (E/O)
- Award Design Contract for Dove/Tick PS Improvements (E/O)

Other Potential Future Board Items

- Approve Collective Bargaining Agreement (Exec)
- Approve Ridgeline Connection Agreement with IRWD (E/O)
- Special Board Meeting re: Sewer/Recycled Water Systems Overview

Discussion occurred concerning formation of an Ad Hoc Committee on Rate Relief, which would include Directors Mandich and Anderson, that would replace the current Shared Services Ad Hoc Committee, as well as formation of an Ad Hoc Committee on Labor Negotiations, which would include Directors Acosta and Anderson.

Director Mandich requested that a District Properties Committee meeting be scheduled ahead of the September Regular Board meeting once the consultant's report is complete.

Discussion occurred concerning potential additional closed session items for the Regular Board Meeting regarding a performance evaluation of general counsel and, separately, potential litigation.

RECOMMENDATION: None – Informational item only.

**TRABUCO CANYON WATER DISTRICT
EXECUTIVE COMMITTEE MEETING RECAP | SEPTEMBER 8, 2025**

DISCUSSION MATTERS

ITEM 3: RANCHO FAMILY FEST 2025 REQUEST FOR SPONSORSHIP

Mr. Paludi presented this matter for Committee consideration, and he reported that festival organizers reached out to the District regarding potential sponsorship of the event. Mr. Paludi also reported that last year the District partnered with Santa Margarita Water District to provide water and dual-branded cups for attendees. Discussion occurred regarding the District’s level of participation for this year’s event.

RECOMMENDATION: None

OTHER MATTERS

ITEM 4: REPORTS OR COMMENTS FROM THE GENERAL MANAGER AND/OR STAFF

There were no other matters presented.

RECOMMENDATION: None.

ADJOURNMENT

Vice President Acosta adjourned the September 8, 2025 Executive Committee Meeting at 4:43 p.m.

DRAFT



TRABUCO CANYON WATER DISTRICT EXECUTIVE COMMITTEE MEETING RECAP | OCTOBER 13 2025

DIRECTORS PRESENT

Vice President Glenn Acosta, Committee Chair
President Edward Mandich, Committee Member

STAFF PRESENT

Fernando Paludi, General Manager
Michael Perea, Assistant General Manager
Roseann Lejsek, Executive Assistant

CONSULTANTS PRESENT (REMOTE)

Claire Collins, District General Legal Counsel – Hanson Bridgett, LLP

PUBLIC PRESENT

None

CALL MEETING TO ORDER

Vice President Acosta called the October 13, 2025 Executive Committee Meeting to order at 4:00 PM.

VISITOR PARTICIPATION

No visitor participation was received.

ORAL COMMUNICATION

No oral communication was received.

COMMITTEE MEMBER COMMENTS

None

REPORT FROM THE GENERAL MANAGER

At Mr. Paludi's request, Mr. Perea gave an update on the multi-agency coordination efforts in anticipation of the upcoming rain event. Mr. Perea provided the Committee with a handout regarding an Airport Burn Scar Briefing from the National Weather Service.

ADMINISTRATIVE MATTERS

ITEM 1: APPROVAL OF EXECUTIVE COMMITTEE MEETING RECAP

Mr. Paludi presented the Executive Committee Meeting Recap(s) for Committee consideration in accordance with the agenda.

RECOMMENDATION: The Committee recommended forwarding this matter to the Board of Directors (Consent Calendar).

**TRABUCO CANYON WATER DISTRICT
EXECUTIVE COMMITTEE MEETING RECAP | OCTOBER 13, 2025**

DISCUSSION MATTERS

ITEM 2: BOARD AGENDA PLANNING CALENDAR

Mr. Paludi provided a handout that included the following agenda planning items for Committee review and consideration:

October 2025

Special Board Meeting – (10/15)

- Closed Session – GM Recruitment

Regular Board Meeting – (10/15)

- Committee Reports (E/O, F/A, Exec, Labor Neg. Ad Hoc)
- Approve GM Contract Amendment
- Mid-Year Budget Planning Update (F/A)
- DWTP Transmission Main and Filter 4 Rehab Update
- Quarterly CIP Update (E/O)
- Closed Session
 - Labor Negotiations

Special Board Meeting (10/21 @ 5pm)

- Porter Property/Wildlands Presentation
- Closed Session – Property Negotiations

Special Board Meeting (10/29 @ 9am)

- TCWD Rate Structure Review
- Closed Session
 - General Counsel Performance Review
 - Special Counsel for Consolidation

November 2025

Regular Board Meeting – (11/19)

- Award Heritage SLS Improvements Construction Contract (E/O)
- Award Construction Contract for Saddle Crest Res Outlet Improvements (E/O)

Special Board Meeting (TBD)

- Sewer/Recycled Water Systems Overview Staff Presentation

December 2025

Regular Board Meeting – (12/17)

- Elect Board Officers for 2026
- Award Design Contract for Dove/Tick PS Improvements (E/O)
- Approve Mid-Year Budget Revisions (F/A)
- Receive & File FY 2024-25 Annual Comp Financial Report (F/A)
- Approve Collective Bargaining Agreement (Exec)
- RFP Consolidation Report Out

Other Potential Future Board Items

- Approve Ridgeline Connection Agreement with IRWD (E/O)
- Approve Rate Study Consultant Contract (TBD)

**TRABUCO CANYON WATER DISTRICT
EXECUTIVE COMMITTEE MEETING RECAP | OCTOBER 13, 2025**

Discussion occurred regarding public outreach related to the Porter Property discussions.

Director Acosta advised that he will not be in attendance at the November Regular Board Meeting.

RECOMMENDATION: None – Informational item only.

OTHER MATTERS

ITEM 3: REPORTS OR COMMENTS FROM THE GENERAL MANAGER AND/OR STAFF

Public Outreach

Mr. Paludi reported that staff is requesting to meet with the Public Outreach Committee to receive direction on their preferred messaging and communication efforts/strategy in the coming months.

H2O for HOA's

Mr. Perea reported that the annual H2O for HOA's event will be held October 23rd at the Norman P. Murray Community Center in Mission Viejo and that staff will have a table at the event. Mr. Perea added that the event is free, however, registration is required.

Districting

Ms. Collins reported that she will provide the Board with a Districting report and go through the two Districting approaches for the Board's consideration.

Legislative Updates

Ms. Collins reported that she will provide the Board with updates on various bills that were recently signed into law during the last legislative session.

RECOMMENDATION: None.

ADJOURNMENT

Vice President Acosta adjourned the October 13, 2025 Executive Committee Meeting at 4:52 p.m.

**TRABUCO CANYON WATER DISTRICT
REGULAR BOARD MEETING | NOVEMBER 19, 2025**

ACTION CALENDAR

ADMINISTRATIVE MATTERS

**ITEM 5: RATIFICATION OF DIRECTORS' FEES AND EXPENSES, AND TENTATIVE FUTURE MEETINGS/
ATTENDANCE**

FEES AND EXPENSES

Consistent with Board policy, Directors are reimbursed for expenses incurred while serving in their capacity as Directors. Additionally, Directors earn a per diem stipend for attendance at meetings or functions in a Director capacity. Per Ordinance No. 91-15 (adopted July 17, 1991), Directors' per diem amount is limited to \$125 per day for a maximum of ten days per calendar month. The attached spreadsheet provides a recap of the meetings, seminars, and conferences attended by Directors along with expenses recorded to date.

TENTATIVE FUTURE MEETINGS

The attached spreadsheet provides a schedule of the tentative future meetings and attendance items.

FUNDING SOURCE:

General Fund

FISCAL IMPACT

FY 2025-26 Budgeted Board Expenses: \$45,100

Directors receive \$125.00 per diem, not to exceed ten (10) per diems per month, for meetings approved by the Board.

COMMITTEE STATUS:

This matter was reviewed with the Finance/Audit Committee.

RECOMMENDED ACTION:

Approve the tentative future meetings/attendance items and ratify the Directors' expenses and fees from the following period(s):

1. *October 2025*

EXHIBITS:

1. Directors Fees and Expenses Monthly Report for October 2025
2. Directors Future/Tentative Meeting/Attendance Schedule for Calendar Year 2025

CONTACTS (staff responsible): PALUDI/PEREA


**TRABUCO CANYON WATER DISTRICT
DIRECTORS' FEES AND EXPENSES MONTHLY REPORT | OCTOBER 2025**

MEETING DESCRIPTION	ACOSTA	ANDERSON	HORST	MANDICH	SAFRANSKI
DISTRICT MEETINGS					
Engineering/Operational Committee Meeting	10/01/25	10/01/25			
Executive Committee Meeting	10/13/25			10/13/25	
Finance/Audit Committee Meeting			10/09/25		10/09/25
Individual Meeting with General Manager	10/13/25	10/15/25	10/14/25	10/13/25	10/13/25
Labor Negotiations Ad Hoc Committee Meeting	10/06/25			10/06/25	
Public Outreach Ad Hoc Committee Meeting	10/16/25		10/16/25		
Regular Board Meeting	10/15/25	10/15/25	10/15/25	10/15/25	10/15/25
Special Board Meeting No. 1 - Public Employee Appointment - General Manager (GM)	10/15/25	10/15/25	10/15/25	10/15/25	10/15/25
Special Board Meeting No. 2 - Porter Property Disposition; GM	10/21/25	10/21/25	10/21/25	10/21/25	10/21/25
Special Board Meeting No. 3 - Porter Property Disposition; Rates Methodology Presentation; GM	10/29/25	10/29/25	10/29/25	10/29/25	10/29/25
Special Board Meeting No. 4 - Public Employee Appointment - GM	10/30/25	10/30/25	10/30/25	10/30/25	10/30/25
REPRESENTATIVE MEETINGS					
Community Associations of Rancho (CAR) Meeting					10/07/25
City of Rancho Santa Margarita - City Council Meeting					10/08/25
H2O for HOA's Event					10/23/25
Independent Special Districts of Orange County (ISDOC) Monthly Meeting					
MWDOC Administration/Finance Committee Meeting			10/08/25		
MWDOC Board Meeting			10/15/25		
Orange County Local Agency Formation Commission (OC LAFCO)		10/08/25			
Water Advisory Commission of Orange County (WACO)		10/03/25			
NUMBER OF MEETINGS ATTENDED	8	7	8	6	9
PER DIEMS (\$125 per each meeting*)	\$1,000.00	\$875.00	\$1,000.00	\$750.00	\$1,125.00
DIRECT REIMBURSABLE EXPENSES					
DIRECT REIMBURSABLE EXPENSES TOTALS					
INDIRECT REIMBURSABLE EXPENSES					
INDIRECT REIMBURSABLE EXPENSES TOTALS					
TOTAL (PER DIEMS + DIRECT REIMBURSABLE EXPENSES)	\$1,000.00	\$875.00	\$1,000.00	\$750.00	\$1,125.00
<i>* Maximum per diem per day is one; maximum per month is 10</i>					

DIRECTOR SIGNATURE

TRABUCO CANYON WATER DISTRICT | 2025 PUBLIC MEETING AND CONFERENCE CALENDAR

		2025											
LINE ITEM	MEETING DESCRIPTION	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
DISTRICT PUBLIC MEETINGS													
1	Executive Committee Meeting	01/06/25	02/03/25	03/03/25	04/07/25	05/05/25	06/02/25	07/07/25	08/04/25	09/01/25	10/06/25	11/03/25	12/01/25
2	Engineering/Operational Committee Meeting	01/08/25	02/05/25	03/05/25	04/02/25	05/07/25	06/04/25	07/02/25	08/06/25	09/03/25	10/01/25	11/05/25	12/03/25
3	Finance/Audit Committee Meeting	01/09/25	02/13/25	03/13/25	04/10/25	05/08/25	06/12/25	07/10/25	08/14/25	09/11/25	10/09/25	11/13/25	12/11/25
4	Regular Board Meeting	01/16/25	02/20/25	03/19/25	04/16/25	05/21/25	06/18/25	07/16/25	08/20/25	09/17/25	10/15/25	11/19/25	12/17/25
5	District Properties Ad Hoc Committee Meeting	-	-	-	-	-	-	-	-	-	-	-	-
PUBLIC MEETINGS													
6	City of RSM City Council Meeting - Meeting No. 1	01/08/25	02/12/25	03/12/25	04/09/25	05/14/25	06/11/25	07/09/25	08/13/25	09/10/25	10/08/25	11/12/25	12/10/25
7	City of RSM City Council Meeting - Meeting No. 2	01/22/25	02/26/25	03/26/25	04/23/25	05/28/25	06/25/25	07/23/25	08/27/25	09/24/25	10/22/25	11/26/25	12/24/25
8	City of RSM Planning Commission Meeting	01/01/25	02/05/25	03/05/25	04/02/25	05/07/25	06/04/25	07/02/25	08/06/25	09/03/25	10/01/25	11/05/25	12/03/25
9	Independent Special Districts of Orange County Meeting - Executive	01/07/25	02/04/25	03/04/25	04/01/25	05/06/25	06/03/25	07/01/25	08/05/25	09/02/25	10/07/25	11/04/25	12/09/25
10	Independent Special Districts of Orange County Meeting - Quarterly	01/30/25	-	-	04/24/25	-	-	07/31/25	-	-	10/30/25	-	-
11	Orange County Local Agency Formation Commission (OC LAFCO)	01/08/25	02/12/25	03/12/25	04/09/25	05/14/25	06/11/25	07/09/25	08/13/25	09/10/25	10/08/25	11/12/25	12/10/25
12	Municipal Water District of Orange County (MWDOC) Board Meeting	01/15/25	02/19/25	03/19/25	04/16/25	05/21/25	06/18/25	07/16/25	08/20/25	09/17/25	10/15/25	11/19/25	12/17/25
13	Santiago Aqueduct Commission Meeting	-	-	03/20/25	-	-	06/19/25	-	-	09/18/25	-	-	12/18/25
14	Quarterly South Orange County Integrated Regional Watershed Management Executive Committee												
15	Monthly South Orange County Integrated Regional Watershed Management Executive Committee												
16	South Orange County Water Agencies Group Meeting*	01/27/25	-	03/24/25	-	05/26/25	-	07/28/25	-	09/22/25	-	11/24/25	-
17	Water Advisory Committee of Orange County	01/03/25	02/07/25	03/07/25	04/04/25	05/02/25	06/06/25	07/11/25	08/01/25	09/05/25	10/03/25	11/07/25	12/05/25
CONFERENCES													
18	ACWA Spring Conference - Monterey, CA					05/13-05/15							
19	ACWA Fall Conference - San Diego, CA												12/02-12/04
20	CSDA Annual Conference -Monterey, CA								08/25-08/28				
21	CSDA GM Leadership Summit - Lake Tahoe, CA						06/29-07/01						
22	CSDA SDLA Conference - La Quinta, CA				04/21-04/24								
23	Colorado River Water User's Association (CRWUA) Annual Conference – Las Vegas, NV												12/16-12/18
24	Urban Water Institute (UWI) Annual Conference - San Diego, CA								08/20-08/22				
25	Urban Water Institute (UWI) Spring Conference - Palm Springs, CA		02/26-02/28										

LEGEND
 District Observed Holiday - Reschedule Meeting
 *4th Tuesday of the Odd Numbered Month

**TRABUCO CANYON WATER DISTRICT
REGULAR BOARD MEETING | NOVEMBER 19, 2025**

ACTION CALENDAR

ADMINISTRATIVE MATTERS

ITEM 6: INFORMATIONAL UPDATES FROM BOARD COMMITTEES

The Trabuco Canyon Water District (TCWD or District) Board of Directors have established standing committees for designated purposes, and occasionally, may establish ad hoc committees for specific purposes for a short term. Each committee has a Chair that may provide an update at the time of the meeting.

Standing Committees

1. Executive Committee
2. District Properties Committee
3. Engineering/Operational Committee
4. Finance/Audit Committee

Ad Hoc Committees

5. Labor Negotiations Ad Hoc Committee
6. Public Outreach Ad Hoc Committee
7. Shared Services Ad Hoc Committee
8. Sources of Supply Ad Hoc Committee

FUNDING SOURCE:

General Fund

FISCAL IMPACT

Not applicable

RECOMMENDED ACTION:

Receive updates and information from Board Committee Chairs/Members and take action(s) as deemed appropriate.

EXHIBITS:

None

CONTACTS (staff responsible): PALUDI/PEREA

**TRABUCO CANYON WATER DISTRICT
REGULAR BOARD MEETING | NOVEMBER 19, 2025**

ACTION CALENDAR

ADMINISTRATIVE MATTERS

ITEM 7: SPECIAL DISTRICT LEADERSHIP FOUNDATION (SDLF) TRANSPARENCY CERTIFICATE OF EXCELLENCE AWARD TO TRABUCO CANYON WATER DISTRICT

Trabuco Canyon Water District (TCWD or District) has been recognized for its commitment to open and accessible governance by being awarded the Transparency Certificate of Excellence by the Special District Leadership Foundation (SDLF). SDLF is an independent, non-profit organization formed to promote good governance and best practices among California's special districts through certification, accreditation, and other recognition programs. The award letter from SDLF, and a copy of the Transparency Certificate of Excellence, are included as Exhibits 1 and 2, respectively.

To receive the award, TCWD has demonstrated compliance with a multitude of requirements ranging from board member ethics training and open meetings to financial reporting and public outreach. As part of the transparency checklist, the District's website is required to make available to the public various financial and administrative policies, budget and audit information, public meeting schedules and archives, staff and board member biographical and contact information, and District reference information including authorizing statute, service area boundaries and mission statement.

District staff deserving special recognition for ensuring compliance and preparing the application to SDLF include Assistant General Manager Michael Perea and Executive Assistant Roseann Lejsek.

More information may be provided at the time of the meeting.

FUNDING SOURCE:

Not applicable

FISCAL IMPACT

Not applicable

RECOMMENDED ACTION:

Receive presentation at the time of the meeting and take action(s) as deemed appropriate.

EXHIBITS:

1. Award letter from Special District Leadership Foundation, November 5, 2025

CONTACTS (staff responsible): PALUDI/PEREA/LEJSEK

SDLF



SPECIAL DISTRICT
LEADERSHIP FOUNDATION

November 5th, 2025

Trabuco Canyon Water District
32003 Dove Canyon Drive
Trabuco Canyon, CA 92679

RE: District Transparency Certificate of Excellence Approval

Congratulations Trabuco Canyon Water District, who have successfully completed the district of Transparency Certificate of Excellence program through the Special District Leadership Foundation (SDLF).

On behalf of the SDLF Board of Directors, I would like to congratulate your district on achieving this important certificate. By completing the District Transparency Certificate of Excellence Program, Trabuco Canyon Water District has proven its dedication to being fully transparent as well as open and accessible to the public and other stakeholders.

Congratulations and thank you for your dedication to excellence in local government.

Most sincerely,

Sandy Raffelson
-SDLF Board President

**TRABUCO CANYON WATER DISTRICT
REGULAR BOARD MEETING | NOVEMBER 19, 2025**

ACTION CALENDAR

ADMINISTRATIVE MATTERS

ITEM 8: PRESENTATION ON BOARD DISTRICTING/ESTABLISHED VOTER DIVISIONS – GENERAL COUNSEL

The California Voting Rights Act of 2001 (CVRA) authorizes a local government that operates under at-large elections to adopt a resolution of intent to switch to by-division elections.

Recent litigation or threats of litigation throughout the state, including against Orange County water districts, indicate that Trabuco Canyon Water District risks similar threats, which could result in attorney’s fees of up to \$33,000 to the plaintiff. In 2021, Santa Margarita Water District received a demand letter under the CVRA whereby a prospective plaintiff demanded the District move to a by-division election system. SMWD subsequently adopted a resolution initiating the process of establishing elections by divisions and settled the plaintiff’s demand with a payment of \$30,000 under a settlement agreement. Irvine Ranch Water District underwent a similar process a few years earlier, with a similar outcome. In order to avoid this risk, General Counsel recommends that the District engage in a process to create 5 geographic divisions within the District from which a Director would be elected, instead of at-large.

The Trabuco Canyon Water District engaged the services of a demographer to provide the necessary analysis of the 2020 U.S. federal census data, demographic data, and any publicly submitted maps. Staff and General Counsel worked with Dr. Deborah Diep, Center for Demographic Research, to define the scope of work and provide a proposed timeline for the transition. General Counsel is recommending that the TCWD Board of Directors adopt Resolution No. 2025-1360, **RESOLUTION OF THE BOARD OF DIRECTORS OF THE TRABUCO CANYON WATER DISTRICT DECLARING ITS INTENTION TO TRANSITION FROM AN AT-LARGE ELECTION SYSTEM TO A DISTRICT-BASED ELECTION SYSTEM PURSUANT TO CALIFORNIA ELECTIONS CODE 10010**, to protect the District from potential actions under the CVRA. A draft Resolution No. 2025-1360 is included as Exhibit 1.

The California Elections Code provides the process for completing the transition from at-large to by-division elections. A minimum of two public hearings is required before the Board may consider draft division maps, and a minimum of two public hearings must be held to consider any proposed maps. The District must create a division mapping page on its website, to serve as a central repository for all information and draft maps related to the potential transition. Lastly, the District must provide opportunities for the public to engage in the districting process, including potentially drafting and submitting maps for the Board’s consideration.

The proposed timeline addresses the requirements of the Elections Code and establishes a public map submission period, providing the demographic consultant and General Counsel have sufficient time to review any proposed maps for California and Federal Voting Rights Act compliance.

Public Hearings & Timeline

Date/Location	Meeting Description
November 19, 2025 6:00 p.m. TCWD Administration Facility	Public Hearing No. 1 <ul style="list-style-type: none"> • Pre-Map • Districting process kick-off • Solicit public input • Release districting website
December 17, 2025 6:00 p.m. TCWD Administration Facility	Public Hearing No. 2 <ul style="list-style-type: none"> • Pre-Map • Solicit public input • Present existing conditions report & Public Participation Kit • Open map submission period

**TRABUCO CANYON WATER DISTRICT
REGULAR BOARD MEETING | NOVEMBER 19, 2025**

Date/Location	Meeting Description
January 21, 2026 - Noon TCWD Administration Facility	Close of the public submission period for map proposals by the public
January 21, 2026 6:00 p.m. TCWD Administration Facility	Public Hearing No. 3 <ul style="list-style-type: none"> • Pre-Map • Solicit public input
February 18, 2026 6:00 p.m. TCWD Administration Facility	Public Hearing No. 4 <ul style="list-style-type: none"> • First review of draft maps
March 18, 2026 6:00 p.m. TCWD Administration Facility	Public Hearing No. 5 <ul style="list-style-type: none"> • Consideration of maps and any revised maps • Possible map selection
April 15, 2026 6:00 p.m. TCWD Administration Facility	Public Hearing/Meeting <ul style="list-style-type: none"> • <u>If needed, final meeting to select map</u> • Adopt resolution finalizing division boundaries

More information may be provided at the time of the meeting.

FUNDING SOURCE:

General Fund

FISCAL IMPACT

Not applicable

RECOMMENDED ACTION:

1. *Receive presentation at the time of the meeting.*
2. *Adopt Resolution No. 2025-1360 – Resolution of the Board of Directors of Trabuco Canyon Water District Declaring Its Intention to Transition From An At-Large Election System to a District-Based Election System Pursuant to California Elections Code 10010....*

EXHIBITS:

1. Resolution No. 2025-1360

CONTACTS (staff responsible): PALUDI/COLLINS/PEREA

RESOLUTION NO. 2025-1360

RESOLUTION OF THE BOARD OF DIRECTORS OF THE TRABUCO CANYON WATER DISTRICT DECLARING ITS INTENTION TO TRANSITION FROM AN AT-LARGE ELECTION SYSTEM TO A DISTRICT-BASED ELECTION SYSTEM PURSUANT TO CALIFORNIA ELECTIONS CODE 10010

The Trabuco Canyon Water District ("TCWD" or "District") is a county water district formed and operating pursuant to Water Code Section 30000, *et seq.*, with five elected members of the Board of Directors elected to staggered four-year terms.

The Board of Directors is charged with managing the District's affairs, making final decisions on all important District matters, and adopting ordinances and resolutions necessary for efficient governmental operations.

Members of the Board of Directors are currently elected to staggered four-year terms in "at-large" elections in which each Board member is elected by the registered voters of the entire District.

California Elections Code section 10650 authorizes the legislative body of a special district to adopt a resolution to change its method of election from an at-large system to a district ("division")-based system in which each Board member is elected only by the registered voters in the division in which the candidate resides.

The District seeks to align its electoral system with the California Voting Rights Act ("CVRA"), ensuring it is fair, representative, and gives all residents the opportunity to elect candidates of their choice to the Board of Directors.

The District through its Board of Directors believes that a move to division-based Board elections will enhance the opportunity for all District residents – including any historically underrepresented groups – to elect candidates of their choice in the most fair and representative elections.

The District intends to make this transition from an at-large electoral system for members of the Board of Directors to a division-based system in furtherance of the CVRA, and in accordance with the procedural rules outlined in California Elections Code 10650 and Elections Code 10010.

The District will work with an experienced demographer to assist TCWD in making the transition to division-based elections to elect members of the Board; and

The District will hold at least two (2) public hearings within 30 days of the adoption of this resolution – the purpose of which is: (1) to hear presentations on both the CVRA and the move to division-based elections for members of the Board; (2) to receive public input about the District in terms of communities of interest and the contours of divisions; (3) to assist both the Board of Directors and the District's demographer in understanding what division boundaries might make sense; and, (4) to explain to District residents the rules and parameters regarding drawing divisions that comply with both state and federal election law.

These first hearings will occur and public input be received before the demographer draws any maps for the Board of Directors' consideration.

There is no limitation as to the number of public hearings or meetings the District may hold for the purpose of receiving input from District residents.

The District will then hold at least additional two public hearings at which the demographer will present draft maps drawn in accordance with both state and federal law and which take into account public input received at the first two public input hearings.

The District will publish any draft maps of new electoral divisions on its website and release them for public review at least seven days before any hearing where those maps will be considered, per Elections Code Section 21508(d).

Once the Board of Directors has selected a draft map or is further along in the draft map process, the District will take public input at its public hearings on draft maps regarding the proposed sequence of elections, because – given the District's staggered elections for Board members – three new divisions will be on the ballot in November of 2026 and the other two will be on the November 2028 ballot.

At (a fifth or) final meeting, the Board of Directors will select one of the draft maps and set the order of elections in the spirit of the CVRA.

NOW, THEREFORE, THE BOARD OF DIRECTORS OF THE TRABUCO CANYON WATER DISTRICT DOES HEREBY RESOLVE, DETERMINE AND ORDER AS FOLLOWS:

Section 1. The foregoing recitals are true and correct and are incorporated herein by this reference.

Section 2. The Board of Directors hereby resolves, pursuant to Elections Code Section 10010, to bring the transition to a district ("division")-based election system for members of the Board of Directors in furtherance of the purposes of the CVRA, and as authorized by California Elections Code section 10650, for use in the District's Election for the Board of Directors in November 2026 and November 2028.

Section 3. The Board of Directors further resolves to retain a qualified demographer and to hold at least 5 public hearings for public input, with the first two hearings being for the purpose of public input on communities of interest and how maps should be drawn, with at least two more hearings at which draft maps will be presented. Any map that the Board of Directors will consider will be published on the District's website and available to the public at least 7 days in advance of that hearing. In these later hearings, the Board of Directors will also receive public input on the sequence of elections to further the purposes of the CVRA. The District will publicly release a draft schedule of the public hearings in advance, within a reasonable timeframe from this Resolution, and post the same on its website.

Section 4. At a (fifth and/or) final meeting, the Board of Directors will select a map, and also set the order of elections in 2026 and 2028 in the spirit of the CVRA.

Section 5. Working with the demographer, staff is directed to publicize relevant maps, information, notices, agendas and other materials regarding district-based elections and to establish means of communication to answer questions from the public.

Section 6. The District will post notices for all public hearings on its website and, in addition, publish them at least seven days before the hearing through methods that notify residents, including local newspapers or other means.

Section 7. The District will adopt a proposed schedule to complete the transition from an at-large elections system to a division-based elections system. The currently proposed schedule of the required public hearings is as follows. Future Board actions may change or augment this schedule.

Date	Event
November 19, 2025	Public Hearing No. 1
December 17, 2025	Public Hearing No. 2
January 21, 2026	Public Hearing No. 3
February 18, 2026	Public Hearing No. 4
March 18, 2026	Public Hearing No. 5
April 15, 2026	Public Hearing No. 6 (if needed)

Section 8. This Resolution shall become effective immediately upon its adoption.

ADOPTED, SIGNED AND APPROVED this 19th day of November, 2025.

TRABUCO CANYON WATER DISTRICT:

President/Vice President

Secretary/Assistant Secretary

STATE OF CALIFORNIA)
) ss.
COUNTY OF ORANGE)

I, Michael Perea, Secretary of the Board of the Trabuco Canyon Water District, do hereby certify that the foregoing resolution was duly adopted by the Board of said District at a meeting of said Board held on November 19, 2025, of which meeting all of the members of the Board had due notice and at which a quorum thereof were present and acting throughout and for which notice and an agenda was prepared and posted as required by law and that at such meeting such resolution was adopted by the following vote:

AYES:

NOES:

ABSTAIN:

ABSENT:

Secretary of the Board,
Trabuco Canyon Water District

STATE OF CALIFORNIA)
) ss.
COUNTY OF ORANGE)

I, Michael Perea, Secretary of the Board of the Trabuco Canyon Water District, do hereby certify that the foregoing is a full, true and correct copy of Resolution No. 2025-1360 of such Board and that the same has not been amended or repealed.

Dated this 19th day of November, 2025.

Secretary of the Board,
Trabuco Canyon Water District

**TRABUCO CANYON WATER DISTRICT
REGULAR BOARD MEETING | NOVEMBER 19, 2025**

ACTION CALENDAR

FINANCIAL MATTERS

**ITEM 9: DISCUSSION AND POSSIBLE ACTION(S) CONCERNING TRABUCO CANYON WATER DISTRICT'S
CURRENT RATES & CHARGES**

Trabuco Canyon Water District's (TCWD or District) current rates and charges were adopted by the Board of Directors at the June 29, 2023 special meeting [Resolution 2023-1319]. The 2023 Rate Study was prepared by IB Consulting, LLC.

At the October 29, 2025 special meeting, the Board of Directors received a presentation from IB Consulting, LLC regarding the methodologies used in determining the 2023 rates and charges and approved a new rate study and request a proposal from IB Consulting, LLC for the Board's consideration. Attached is the IB Consulting proposal for Board consideration.

More information may be presented at the time of the meeting.

FUNDING SOURCE:

General Fund

FISCAL IMPACT

To be determined

COMMITTEE STATUS:

This matter was not reviewed at the Committee level

RECOMMENDED ACTION:

Receive information at the time of the meeting and take action(s) as deemed appropriate.

EXHIBITS:

1. Resolution 2023-1319
2. Utility Rate Cost-Of-Service Study Proposal - IB Consulting, LLC – November 10, 2025

CONTACTS (staff responsible): PALUDI/PEREA/COLLINS

RESOLUTION NO. 2023-1319

RESOLUTION OF THE TRABUCO CANYON WATER DISTRICT BOARD OF DIRECTORS DETERMINING COMPLIANCE WITH PROCEDURAL REQUIREMENTS, MAKING FINDINGS AND DETERMINATIONS, REVISING RATES FOR POTABLE WATER SERVICES, WASTEWATER (SEWER) SERVICES, RECYCLED WATER SERVICES, AMENDING THE CORRESPONDING RATE AND CHARGE SCHEDULES OF THE TRABUCO CANYON WATER DISTRICT AND TAKING RELATED ACTIONS

- A. Authority. The Trabuco Canyon Water District (“**District**”) is a county water district authorized to set and collect rates and charges for its potable water, wastewater (sewer), and recycled water services pursuant to the provisions of Water Code Sections 31000, 31001, 31024, 31025, 30253 and 31101 (“**Rates and Charges**”).
- B. Prop. 218. The Rates and Charges are subject to Section 6 of Article XIID of the California Constitution, also known as Proposition 218.
- C. Rate Change Policy. The District’s Board of Directors (“**Board**”) has previously adopted, and amended, its “Policy Concerning Rate Change Proceedings” (“**Policy**”) [Resolution No. 2015-1220] in order to provide directives, guidance and policies for changes in and collection of the District’s Rates and Charges.
- D. Proposed Rate Changes and Notice. The Board has previously undertaken proceedings and provided direction for proposed changes in the District’s Rates and Charges, and has directed that notice of the proposed changes in, and adoption of, the Rates and Charges be provided to property owners and customers and that a public hearing be conducted as required by State law, as described in the Policy and as further described below. Written notice of the public hearing, the proposed revised Rates and Charges and implementation schedule has been provided to the District’s property owners and customers as required under State law and is attached to this Resolution as Attachment A.
- E. Prior Meetings. The Board has previously conducted a series of special board meetings and workshops to discuss and review the District’s financial planning and the proposed adjusted Rates and Charges.
- F. Cost of Service Study. The Board has received and filed that certain report entitled “*Trabuco Canyon Water District Comprehensive Cost-of-Service Utility Rate Study*” prepared by IB Consulting, LLC (“**Rate Study**”), which contains the analysis and basis for the proposed revisions to, and implementation of, the Rates and Charges. The Rate Study is attached as Attachment B, is on file with the District Secretary, was posted on the District's website on May 15, 2023, and has been available at the District’s Business Offices for public review since that date.
- G. Public Hearing. On June 29, 2023, the Board conducted a noticed public hearing to receive public input, comments and protests with regard to the proposed rates and charges, which public hearing was held at the District’s Board Room/Business Offices located at 32003 Dove Canyon Drive, Trabuco Canyon, California and as a virtual (teleconference) meeting pursuant to current State law.
- H. CEQA Exemption. Section 21080(b)(8) of the Public Resources Code provides that the

establishment, modification, structuring, restructuring or approval of rates, tolls, fares, or other charges by public agencies are exempt from the requirements of the California Environmental Quality Act (“CEQA”) provided that certain findings are made specifying the basis for the claim of exemption.

- I. The Board intends to make certain findings and determinations and approve and adopt proposed Rates and Charges described in Attachment A and Attachment B.

NOW, THEREFORE, THE BOARD OF DIRECTORS OF THE TRABUCO CANYON WATER DISTRICT HEREBY RESOLVES, DETERMINES, AND ORDERS AS FOLLOWS:

Section 1. Recitals. The foregoing recitals are true and correct and are incorporated herein by this reference.

Section 2. Notice of Hearing and Proposed Rate Increase.

(A) Mailing. Pursuant to the provisions Proposition 218 and California Government Code Section 53755, the District provided written notice by mail of the proposed Rates and Charges to District customers and property owners within the District’s service area 45 days prior to the date set for the public hearing. The form of notice is on file with the District’s Secretary, has been presented to the Board as part of its proceedings, and is attached as Attachment A. The notice includes the proposed maximum amount of the proposed Rates and Charges to be effective for District’s customers, an identification of the reasons for the proposed revisions and link to the Rate Study, the proposed implementation schedule for the Rates and Charges, and a method of calculation for District’s customers to determine the impact of Rates and Charges on their bills. The notice also includes a statement of the date, time and location of the public hearing to be conducted on such proposed Rates and Charges by the Board and the opportunity to present protests. The address list to which written notice was mailed is on file with the District’s Secretary.

(B) Posting. The District also posted notice of the hearing and the proposed Rates and Charges on the District’s internet web site for a period of 45 days prior to the date the public hearing was conducted; and posted a printed notice at the public information board outside District’s Administrative Facility located at 32003 Dove Canyon Drive, Trabuco Canyon, California, on May 15, 2023.

Section 3. Data and Information Relating to Determination to Adopt and Implement Revised Rates and Charges. The Board has been provided with, and/or had available to it, various reports, data and information supporting the findings set forth herein and the determination of the Board to impose the proposed Rates and Charges, which material is also available to the public. That data and information includes, but it not limited to, the following:

- (a) The Rate Study (specifically including the long-term financial plan and cost-of-service analysis) attached as Attachment B;
- (b) The District’s Capital Improvement Program, and supporting documents, as submitted to, and reviewed by, the Board;
- (c) District’s adopted Fiscal Year 2023-2024 Budget;
- (d) Financial projections relating to the District’s financial and operating requirements, including, but not limited to, installment payments to be made by the District as part of

the District's outstanding and project debt issuances and the costs and financing requirements for the District to meet its future facilities needs and service delivery requirements; and

- (e) Financial considerations relating to the prudent and financially responsible level of the District's financial dedicated funds and accounts, including reserves.

Section 4. Public Hearing. Pursuant to the provisions of Section 6(a)(2) of Article XIID of the California Constitution, the Board conducted a public hearing on the proposed Rates and Charges at District's Administrative Facility located at 32003 Dove Canyon Drive, Trabuco Canyon, California commencing at 5:30 p.m. on June 29, 2023 and included an opportunity for members of the public to participate both in person and through phone access. The Board was presented with and considered the results of all qualified protests to the proposed Rates and Charges and heard and considered all public comments submitted to the Board during the public hearing.

Section 5. No Majority Protest. Pursuant to the provisions of Section 6(a)(2) of Article XIID of the California Constitution and the Policy, the District Secretary has reviewed those protests received by District with regard to the imposition of the proposed adjusted rates and charges. The District Secretary has provided the Board with a statement of all such protests. Based thereon, the Board hereby determines that a majority of owners of parcels/customer accounts within District's service area have not protested the proposed increase to the Rates and Charges.

Section 6. Findings and Determinations. The Board hereby finds and determines as follows:

- (a) The District's current and projected finances, financial condition and revenue requirements, and the costs and financing requirements for drought-measure potable water usage limitations and the need for the District to meet its future facilities, water storage and delivery requirements have been considered and the Board has adopted a balanced budget for Fiscal Year 2023-2024. Correspondingly, the Board hereby finds and determines that the revenues derived from the proposed Rates and Charges set forth herein do not exceed the funds required by the District in order to provide the corresponding services the District provides to its customers.
- (b) The Board hereby determines and directs that revenues derived from the proposed Rates and Charges will be used for the purposes for which District was formed and operates, including, but not limited to, the provision of water availability (including, but not limited to, emergency water availability), potable water service, recycled water services and wastewater (sewer) services to the District's customers, as applicable, and will not be used for other purposes.
- (c) The District's proposed Rates and Charges are based on the availability of service to each District customer, as applicable, within each billing period. Correspondingly, the amount of the proposed Rates and Charges applicable to the District's customers does not exceed the proportional cost of the District's provision of the corresponding services to those customers.
- (d) Section 6(b)(4) of Article XIID of the California Constitution provides that no fee or charge may be imposed for a service unless that service is actually used by, or immediately available to, the owner of the property in question. In the case of District's proposed

adjusted rates and charges, District's services for water availability and delivery, recycled water availability and delivery and wastewater (sewer) collection, transportation, treatment and disposal are imposed on District customers where such services are, as applicable, actually used by, or are immediately available to, District customers which are, and will be, subject to the proposed Rates and Charges. The District's proposed Rates and Charges do not constitute any form of standby charge as set forth in such section of the California Constitution.

- (e) The District's proposed Rates and Charges are imposed only on District customers for the particular and specific services provided by the District. The District's proposed Rates and Charges will be imposed pursuant to District's Rules and Regulations. The District does not, and will not, impose any rates and charges for purposes of the provision of general governmental services such as police, fire, ambulance or library services which are available to the public at large.
- (f) District's proposed Rates and Charges, as set forth herein, are part of an integrated finance and revenue system including rates and charges, revenue sources, projected expenditures, debt service requirements, dedicated funds (reserves) and other financial considerations. The District's Rates and Charges are structured and implemented by the District in order to meet District's financial obligations and responsibilities to operate, maintain and improve its potable water, recycled water and wastewater (sewer) systems and facilities, meet service demand requirements, address anticipated emergency service needs, meet its legal and operational obligations and requirements and to conduct its business, administrative and governmental operations.
- (g) The reasons and basis for the adoption and implementation of the proposed Rates and Charges, and the method of calculation thereof, have been identified in the notices provided as set forth in Section 2 and in the documentation and information referenced in Section 3.
- (h) The Rates and Charges adopted and implemented hereby are not taxes under Section 1(e)(2) and (7) of the provisions of Article XIIC of the California Constitution inasmuch as the referenced rates and charges are: (i) services/products provided directly to the District customer of record and do not exceed the reasonable costs to the District for such corresponding service(s) so provided; and (ii) under current California law the Rates and Charges are considered to be property-related fees and/or charges for which the District has complied with the applicable requirements of Article XIID of the California Constitution.

Section 7. Imposition and Implementation of Proposed Adjusted Rates and Charges.

- (a) The District's potable (drinking) water, wastewater (sewer), and recycled water rates are hereby revised to conform to the schedules shown in Attachment A.
- (b) The General Manager is hereby directed to take all actions necessary to amend or revise schedules of rates and charges as set out in the District's Rules and Regulations or other policies or publications of the District, in order to conform to the Rates and Charges shown in Attachment A.

Section 8. Actions for Pass-Through of Changes in Wholesale Charges for Water. The Board reserves the right to take actions in the future pursuant to Government Code Section 53756 to adjust the rate for potable water service based on changes in wholesale charges for untreated and/or potable water imposed on the District. In such event, the Board shall comply with the requirements under then-applicable law.

Section 9. Other Actions. District's General Manager and other District officers and staff and District legal counsel and consultants are hereby authorized and directed to take all necessary and appropriate actions as may be required or desirable to carry out the findings, determinations, and directives of this Resolution.

Section 10. Partial Invalidity; Severability. If any one or more of the findings or directives set forth in this Resolution are determined to be contrary to law, then such findings or directives, or such portions thereof, will be void and deemed separable from the remaining findings and directives or portions thereof and will in no way affect the validity of this Resolution or the other directives set out herein. The Board hereby declares that it would have adopted this Resolution and each and every section, paragraph, subdivision, sentence, clause and phrase hereof and would have authorized and approved the findings or directives set forth herein irrespective of the fact that any one or more sections, paragraphs, subdivisions sentences, clauses or phrases of this Resolution or the application thereof to any person or circumstance may be held to be unconstitutional, unenforceable or invalid.

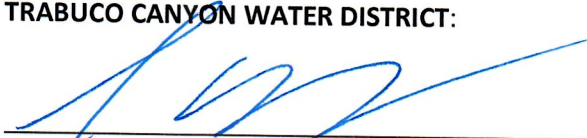
Section 11. Authority. This Resolution is adopted pursuant to the provisions of Water Code Sections 31000, 31001, 31024, 31025, 30523 and 31101 and the requirements of Government Code Sections 53755 and 53756.

Section 12. CEQA Exemption. It is hereby found and determined that the proposed changes to the Rates and Charges as set forth in Attachment A are within the purposes set forth in Section 21080(b) of the Public Resources Code including but not by way of limitation, the purposes of (1) meeting operating expenses, (2) purchasing or leasing supplies, equipment or materials, (3) meeting financial reserve needs and requirements, and (4) obtaining funds for capital projects necessary to maintain service within existing areas, and therefore, that such changes are exempt from CEQA.

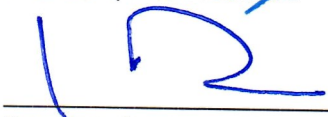
Section 13. Effective Date. This Resolution is effective upon adoption and will apply to Rates and Charges billed beginning July 1, 2023.

ADOPTED, SIGNED and APPROVED this 29th day of June 2023.

TRABUCO CANYON WATER DISTRICT:



President/Vice President



Secretary/Assistant Secretary

STATE OF CALIFORNIA)
) ss.
COUNTY OF ORANGE)

I, Michael Perea, Secretary of the Board of Trabuco Canyon Water District, do hereby certify that the foregoing resolution was duly adopted by the Board of such District at a meeting of such Board held on the 29th day of June 2023, of which meeting all of the members of the Board had due notice and at which a quorum thereof were present and acting throughout and for which notice and an agenda was prepared and posted as required by law and that at such meeting such resolution was adopted by the following vote:

AYES: Dopudja, Mandich, Acosta, Chadd, Safranski
NOES: None
ABSTAIN: None
ABSENT: None



District Secretary,
Trabuco Canyon Water District

STATE OF CALIFORNIA)
) ss.
COUNTY OF ORANGE)

I, Michael Perea, Secretary of the Board of Trabuco Canyon Water District, do hereby certify that the foregoing is a full, true, and correct copy of Resolution No. 2023-1319 of such Board and that the same has not been amended or repealed.

Dated this 29th day of June 2023.



District Secretary,
Trabuco Canyon Water District

ATTACHMENT A

Notice of Public Hearing on Proposed New Water, Wastewater, and Recycled Water Rates (2023)



TRABUCO CANYON WATER DISTRICT
**Notice of Public Hearing on
Proposed New Water, Wastewater,
and Recycled Water Rates**

**June 29, 2023 at 5:30 p.m. at the
District Administration Facility
32003 Dove Canyon Drive, Trabuco Canyon, CA 92679**

**NOTICE OF PUBLIC HEARING
ON PROPOSED NEW WATER, WASTEWATER,
AND RECYCLED WATER RATES
June 29, 2023 at 5:30 p.m.**

The Board of Directors of the Trabuco Canyon Water District (the "District") will conduct a public hearing on **June 29, 2023, at 5:30 PM at the Administration Facility, 32003 Dove Canyon Drive, Trabuco Canyon, CA 92679**. Members of the public may attend the public hearing in person, or may participate by phone by dialing (669) 900-6833 [Access Code: 913-8681-1652]. If you have any questions regarding the proposed rate increases or have questions on how to submit a written protest, please contact the District Secretary at 949.858.0277.

At the public hearing, the Board will consider adopting increases to the District's current water, wastewater, and recycled water rates and charges.

Why are Rate Increases Needed?

The District's costs to operate, maintain and replace the water, wastewater and recycled utilities continue to increase. These costs include:

1. The costs to purchase, treat, store and deliver water which includes energy costs to move water throughout the system;
2. Wastewater collection, treatment and biosolid disposal costs;
3. Recycled water treatment, storage and distribution costs; and
4. Critical reinvestment in aging capital facilities for all three utilities.

The District purchases water from the Metropolitan Water District through the Municipal Water District of Orange County. The cost of water from these two agencies has increased, and will continue to increase, every year. Additionally, the District will be investing approximately \$24 million to repair and replace critical water, wastewater and recycled water facilities over the next five years. Compliance with regulatory requirements, maintaining emergency and fire response capabilities, labor and employment costs, energy costs, increasing costs for materials and the need for prudent reserves are also drivers of costs that were factored into the proposed new rates and charges described in this notice and in the Rate Study.

How did the District Determine the Rate Increases?

The District, along with an independent financial consultant, assessed its financial health over the next 5 years by assessing and projecting revenues and expenses as part of a rate study ("Rate Study"). Many factors were considered in the financial assessment including the operating and capital investments required to safely and reliably provide water, wastewater and recycled water service to District customers. The full Rate Study is available both online at www.tcwd.ca.gov and for review at the District offices at the above-referenced address.

Pass-through Provision

The District may elect to pass-through wholesale water rate increases that are beyond the annual adjustments that are assumed in the Rate Study and incorporated into the proposed rate/charge schedules. Water rate increases that are imposed on the District by its water wholesaler - the Municipal Water District of Orange County - may impact District costs of service and may require adjustments of rates over and above the rates/charges set out in the schedules below. If such an adjustment is implemented, the water pass-through rate for each subsequent fiscal year will be calculated as the difference between actual wholesale purchased water costs and projected wholesale water purchased costs imposed on the District divided by the estimated water use for that fiscal year. Future year wholesale water costs and the resulting pass-through costs/rates are not known at this time, but customers will receive at least 30 days' notice prior to an increase greater than that shown in this notice.

Proposed Rates for the Next Five Years

This notice summarizes the proposed rates/charges for the listed services as shown in the tables below.

Drinking Water Rates/Charges

The District’s current drinking water rates consist of: 1) a meter fixed charge, and 2) a volumetric water use rate for customers who reside in the base zone (which is described in the Rate Study). The volumetric water use rate is in dollars per hundred cubic feet (\$/hcf). One hundred cubic feet is equal to 748 gallons. The District operates at some of the highest elevations of any water provider in Orange County. If a customer resides in one of the pump zones (Topanga, Canyon Creek, Falcon or Joplin - your bill will identify whether you are in one of these pump zones) they are charged an additional rate (\$/hcf) to cover energy and maintenance costs to pump water up to these zones. The proposed monthly 5-year water rates are shown in Tables 1-3 below.

Table 1- Drinking (Potable) Water Fixed Meter Charges (\$/Month)

Meter Size	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
5/8"	\$46.84	\$55.28	\$65.24	\$71.77	\$78.95
3/4"	46.84	55.28	65.24	71.77	78.95
1"	94.93	112.02	132.19	145.41	159.96
1 1/2"	175.08	206.60	243.79	268.17	294.99
2"	271.26	320.09	377.71	415.49	457.04
3"	575.83	679.48	801.79	881.97	970.17
4"	1,024.67	1,209.12	1,426.77	1,569.45	1,726.40
6"	2,098.68	2,476.45	2,922.22	3,214.45	3,535.90

Table 2- Drinking (Potable) Water Variable Rates (\$/hcf)

Customer Class	Tier Definitions (HCF)	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Single-Family						
Tier 1	0 - 13	\$4.40	\$5.20	\$6.14	\$6.76	\$7.44
Tier 2	14 - 21	5.12	6.05	7.14	7.86	8.65
Tier 3	>21	5.64	6.66	7.86	8.65	9.52
Multi-Family						
Tier 1	0 - 6	4.62	5.46	6.45	7.10	7.81
Tier 2	>6	5.64	6.66	7.86	8.65	9.52
Commercial		4.73	5.59	6.60	7.26	7.99
Irrigation		4.73	5.59	6.60	7.26	7.99
Agricultural		4.73	5.59	6.60	7.26	7.99
Portola Hills		5.25	6.20	7.32	8.06	8.87

Table 3- Drinking (Potable) Water Variable Pumping Rates (\$/hcf)

Pumping Zone	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Zone 1 - Base	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Zone 2 - Topanga/Saddlecrest	0.53	0.63	0.75	0.83	0.92
Zone 3 - Canyon Creek	0.94	1.11	1.31	1.45	1.60
Zone 4 - Falcon	1.44	1.70	2.01	2.22	2.45
Zone 5 - Joplin	0.14	0.17	0.21	0.24	0.27

Wastewater Charges

The District charges customers connected to the wastewater system for the costs of collecting, treating and disposing of wastewater flows. The wastewater charge is based upon the volume and treatment requirements for wastewater flows through the District’s system. The proposed District wastewater rates/charges are shown in Tables 4 and 5:

Table 4- Wastewater Flat Charges (\$/Month)

Customer Class	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Residential	\$45.92	\$53.27	\$61.80	\$69.22	\$77.53
Commercial	12.58	14.60	16.94	18.98	21.26

Table 5- Wastewater Variable Rates (\$/hcf)

Customer Class	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Commercial					
Low	\$4.78	\$5.55	\$6.44	\$7.22	\$8.09
Medium	8.00	9.28	10.77	12.07	13.52
High	12.36	14.34	16.64	18.64	20.88

Recycled Water Rates/Charges

The current recycled water rates consist of 1) a meter fixed charge, and 2) a volumetric water use rate for recycled water customers. Recycled water is not used for human consumption, but is used for other purposes such as irrigation. The proposed recycled water rates/charges are shown in Tables 6 and 7.

Table 6- Recycled Water Fixed Meter Charges (\$/Month)

Meter Size	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
5/8"	\$25.76	\$30.40	\$35.88	\$39.47	\$43.42
3/4"	25.76	30.40	35.88	39.47	43.42
1"	52.21	61.61	72.70	79.98	87.98
1 1/2"	96.29	113.63	134.08	147.49	162.24
2"	149.19	176.05	207.74	228.52	251.37
3"	316.71	373.71	440.98	485.08	533.59
4"	563.57	665.02	784.72	863.20	949.52
6"	1,154.27	1,362.05	1,607.22	1,767.95	1,944.75
8"	2,476.75	2,922.57	3,448.63	3,793.50	4,172.85
10"	3,711.06	4,379.05	5,167.28	5,684.01	6,252.42

Table 7- Recycled Water Variable Rates (\$/hcf)

Customer Class	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Recycled	\$4.08	\$4.90	\$5.89	\$6.81	\$7.49

How Will the Total Water and Wastewater Costs for a Typical Single-Family Home Change?

The District plans to collect the wastewater charges on the property tax bill instead of the monthly utility bill. The table below shows the projected water and wastewater charges for a typical single family home, with a ¾ inch meter using 17 hundred cubic feet (12,716 gallons) of water per month. The table also shows how the charges will be collected between monthly utility bills and the property tax bill if approved.

Average Single-Family Monthly Cost	Current	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Drinking (Potable) Water Cost	\$93.92	\$124.59	\$147.08	\$173.62	\$191.09	\$210.27
Wastewater Cost	39.56	45.92	53.27	61.80	69.22	77.53
Total Average Monthly Cost	\$133.48	\$170.51	\$200.35	\$235.42	\$260.31	\$287.80
Recovery Between Utility Bill and Property Tax Bill						
Average Single-Family Utility Bill						
Drinking (Potable) Water	\$93.92	\$124.59	\$147.08	\$173.62	\$191.09	\$210.27
Wastewater	39.56	-	-	-	-	-
Average Single-Family Utility Bill	\$133.48	\$124.59	\$147.08	\$173.62	\$191.09	\$210.27
\$ Change		(\$8.89)	\$22.49	\$26.54	\$17.47	\$19.18
% Change		-6.7%	18.1%	18.0%	10.1%	10.0%
Property Tax Bill						
Single-Family Wastewater Charges	<i>Monthly</i>	\$45.92	\$53.27	\$61.80	\$69.22	\$77.53
Amount on Tax Bill	<i>Annual</i>	\$551.04	\$639.24	\$741.60	\$830.64	\$930.36

Public Hearing and Protest Procedures

Any District customer or property owner within the District may file a written protest by mailing or hand-delivering it to be received at the District office by June 29, 2023 at 5:30 PM, and should be addressed to District Secretary, 32003 Dove Canyon Drive, Trabuco Canyon, CA 92679. Each written protest must: (i) clearly identify the person submitting the protest (ii) clearly state that the identified property owner, tenant (if such tenant is directly liable for payment of District bills) or customer is opposed to the proposed rate changes; (iii) clearly identify the property or customer account (by assessor’s parcel number or street address); and (iv) include the original signature of the property owner or tenant, as applicable. Written protests may also be submitted during the public hearing by hand. Only one written protest per parcel or customer address/account will be considered by the Board. Oral comments made at the public hearing will qualify as formal protests of the proposed rate *if accompanied by a written protest setting forth the required information (as set forth above)*.

Pursuant to Government Code Section 53759, there is a 120-day statute of limitations for any judicial action or proceeding challenging any new, increased, or extended water or sewer fee or charge.

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Trabuco Canyon Water District
32003 Dove Canyon Drive
Trabuco Canyon, CA 92679
www.tcwd.ca.gov

**NOTICE OF
PUBLIC HEARING**

June 29, 2023
5:30 p.m.

LOCATION:
Administration Building
32003 Dove Canyon Drive
Trabuco Canyon, CA 92679
(949) 858-0277

**NOTICE OF PUBLIC HEARING ON
PROPOSED NEW WATER,
WASTEWATER, AND RECYCLED
WATER RATES**

JUNE 29, 2023 at 5:30 PM



ATTACHMENT B
2023 Comprehensive Cost-of-Service Utility Rate Study

Public Hearing
June 29, 2023

*Trabuco Canyon Water District
2023 Cost-of-Service Study*



IB Consulting, LLC

31938 Temecula Parkway, Suite A #350

Temecula, CA. 92592

Trabuco Canyon Water District – 2023 Cost-of-Service Study

TABLE OF CONTENTS

- Executive Summary6
- Water Utility12
 - Financial Plan Overview – Water Utility.....16
 - Proposed Financial Plan – Water Utility28
 - Cost-of-Service Analysis – Water Utility33
 - Rate Design – Water Utility40
 - FY 2024 Cost-of-Service Rates – Water Utility.....48
- Wastewater Utility49
 - Financial Plan Overview - Wastewater Utility51
 - Proposed Financial Plan – Wastewater Utility58
 - Cost of Service Analysis – Wastewater Utility63
 - Rate Design – Wastewater Utility67
- Recycled Water74
 - Financial Plan Overview – Recycled Water Utility76
 - Proposed Financial Plan – Recycled Water Utility.....82
 - Cost-of-Service Analysis – Recycled Water Utility.....86
 - Rate Design – Recycled Water Utility.....87
- Cost-Based Rates – Water, Wastewater, and Recycled Water89
- Rate Schedules – Water, Wastewater, and Recycled Water.....90
- Appendix A – Water Supply Analysis93

Trabuco Canyon Water District – 2023 Cost-of-Service Study

TABLES

Table 1: Proposed Monthly Water Fixed Charges	8
Table 2: Proposed Variable Water Rates.....	9
Table 3: Variable Pumping Water Rates.....	9
Table 4: Proposed Wastewater Rates	10
Table 5: Proposed Recycled Water Fixed Charges.....	11
Table 6: Proposed Recycled Water Variable Rates.....	11
Table 7: Potable Water Meters by Meter Size	13
Table 8: FY 2023 Monthly Base Fixed Charges	14
Table 9: FY 2023 Monthly WRES Fixed Charges.....	14
Table 10: FY 2023 Variable Water Rates	15
Table 11: FY 2023 Variable Water Pumping Rates	15
Table 12: Assumptions for Forecasting Revenues	17
Table 13: Accounts by Meter Size – FY 2024 through FY 2028.....	18
Table 14: Projected Consumption (HCF) – FY 2024 through FY 2028	18
Table 15: Projected Pumping Consumption (HCF) – FY 2024 through FY 2028	19
Table 16: Assumptions for Forecasting Expense Requirements	19
Table 17: Water Calculated Rate Revenues.....	20
Table 18: Water Projected Revenues	21
Table 19: Projected O&M Expenses	22
Table 20: Reserve Requirements and Targets	23
Table 21: Water Financial Plan at Existing Rates.....	25
Table 22: Water – Transfers and Reserve Activity at Existing Rates	26
Table 23: Proposed Water Financial Plan.....	29
Table 24: Water – Transfers and Reserves Activity through FY 2028.....	30
Table 25: Water Revenue Requirements.....	34
Table 26: Water Supply and Pumping Expense Allocation to Cost Components (%).....	36
Table 27: Water Supply and Pumping Expense Allocation to Cost Components (\$)	37
Table 28: O&M Expense Allocation to Cost Components (%).....	37
Table 29: O&M Expense Allocation to Cost Components (\$).....	37
Table 30: Water Debt Allocation to Cost Components (%).....	38
Table 31: Water Debt Allocation to Cost Components (\$).....	38
Table 32: Other Funding to Cost Components (%).....	39
Table 33: Other Funding Allocation to Cost Components (\$).....	39
Table 34: FY 2024 Water Cost-of-Service Requirements by Cost Component.....	39
Table 35: Accounts and Meter Equivalents	41
Table 36: Projected Usage by Customer Class and Tier (HCF).....	41
Table 37: Projected Usage by Pumping Zone (HCF)	42
Table 38: FY 2024 Fixed Purchased Water Monthly Unit Rate	43
Table 39: FY 2024 Account Services Monthly Unit Rate	44
Table 40: FY 2024 Meter Capacity Monthly Unit Rate.....	44
Table 41: FY 2024 Water Supply Unit Rates per HCF	45
Table 42: FY 2024 Customer Class and Tier Water Supply Unit Rates per HCF	46
Table 43: FY 2024 Portola Hills Cost Unit Rate per HCF	46
Table 44: FY 2024 Delivery Cost Unit Rate per HCF	47
Table 45: FY 2024 Treatment Unit Rate per HCF	47
Table 46: FY 2024 Monthly Fixed Charges by Meter Size	48
Table 47: FY 2024 Variable Rates by Customer Class and Tier (HCF)	48
Table 48: Wastewater Billable Units by Customer Class.....	50
Table 49: Existing Wastewater Monthly Fixed Charges	50
Table 50: Wastewater Assumptions for Forecasting Revenues	51
Table 51: Wastewater Assumptions for Forecasting Expense Requirements.....	51

Trabuco Canyon Water District – 2023 Cost-of-Service Study

Table 52: Wastewater Calculated Rate Revenues	52
Table 53: Wastewater Projected Wastewater Revenues.....	52
Table 54: Wastewater Projected O&M Expenses.....	53
Table 55: Wastewater Reserve Requirements and Targets.....	54
Table 56: Wastewater Financial Plan at Existing Rates	55
Table 57: Wastewater – Transfers and Reserve Activity at Existing Rates.....	56
Table 58: Proposed Wastewater Financial Plan	59
Table 59: Wastewater – Undesignated Reserves Activity through FY 2028	60
Table 60: Wastewater Revenue Requirements	63
Table 61: Wastewater O&M Expense Allocation to Cost Components (%).....	65
Table 62: Wastewater O&M Expense Allocation to Cost Components (\$).....	65
Table 63: Wastewater Debt Allocation to Cost Components (%)	65
Table 64: Wastewater Debt Allocation to Cost Components (\$)	65
Table 65: Wastewater Other Funding to Cost Components (%).....	66
Table 66: Wastewater Other Funding to Cost Components (\$).....	66
Table 67: FY 2024 Wastewater Cost-of-Service Requirements by Cost Component.....	66
Table 68: Residential Projected Flows.....	67
Table 69: Non-Residential Projected Flows (HCF)	68
Table 70: Wastewater Units of Service	68
Table 71: FY 2024 Wastewater Account Services Monthly Unit Rate	69
Table 72: FY 2024 Wastewater Collection Allocation by Customer Class	70
Table 73: FY 2024 Wastewater COD Allocation by Customer Class	71
Table 74: FY 2024 Wastewater TSS Allocation by Customer Class	72
Table 75: FY 2024 Wastewater Total Revenue Requirement by Customer Class.....	72
Table 76: FY 2024 Residential Flat Monthly Charge	73
Table 77: FY 2024 Commercial Monthly Fixed Charge	73
Table 78: FY 2024 Commercial Variable Rates.....	73
Table 79: Recycled Water Accounts by Meter Size	74
Table 80: FY 2023 Recycled Water Monthly Base Fixed Charges.....	75
Table 81: FY 2023 Recycled Water Monthly WRES Fixed Charges	75
Table 82: FY 2023 Recycled Water Variable Rate	75
Table 83: Recycled Water Assumptions for Forecasting Revenues.....	76
Table 84: Recycled Water Assumptions for Forecasting Expenses	76
Table 85: Recycled Water Calculated Rate Revenues.....	77
Table 86: Recycled Water Projected Revenues	77
Table 87: Recycled Water Projected O&M Expenses	78
Table 88: Recycled Water Reserve Requirements and Targets	78
Table 89: Recycled Water Financial Plan at Existing Rates	79
Table 90: Recycled Water – Transfers and Reserve Activity at Existing Rates	80
Table 91: Recycled Water Proposed Financial Plan.....	82
Table 92: Recycled Water Transfers and Reserve Activity.....	83
Table 93: Recycled Water Revenue Requirements.....	86
Table 94: Proposed Recycled Water Monthly Meter Charges.....	87
Table 95: Proposed Recycled Water Variable Rates.....	88
Table 96: Proposed Water Monthly Fixed Charge (FY 2024 – FY 2028).....	90
Table 97: Proposed Water Variable Charge (FY 2024 – FY 2028)	90
Table 98: Proposed Water Variable Pumping Rates (FY 2024 – FY 2028)	91
Table 99: Proposed Wastewater Monthly Fixed Charge (FY 2024 – FY 2028)	91
Table 100: Proposed Recycled Water Monthly Fixed Charge (FY 2024 – FY 2028).....	92
Table 101: Proposed Recycled Water Variable Rates (FY 2024 – FY 2028).....	92
Table 102: Water Supply Analysis	93
Table 103: Water Supply Analysis Summary.....	94

Trabuco Canyon Water District – 2023 Cost-of-Service Study

FIGURES

- Figure 1: District Water System12
- Figure 2: Water Capital Improvement Plan13
- Figure 3: Financial Plan Key Elements16
- Figure 4: Water Utility Reserves23
- Figure 5: Current Operating Financial Position27
- Figure 6: Projected Ending Reserves at Existing Rates27
- Figure 7: Water – Proposed Operating Position31
- Figure 8: Water – Capital Improvement Plan with Funding Sources31
- Figure 9: Water – Proposed Ending Reserves32
- Figure 10: Cost-of-Service Process33
- Figure 11: Cost Components35
- Figure 12: Distribution Basis and Units of Service by Cost Component43
- Figure 13: Wastewater System49
- Figure 14: Wastewater Capital Improvement Plan49
- Figure 15: Wastewater Current Operating Financial Position56
- Figure 16: Wastewater Projected Ending Reserves at Existing Rates57
- Figure 17: Wastewater Proposed Operating Position61
- Figure 18: Wastewater Capital Improvement Plan with Funding Sources61
- Figure 19: Wastewater Proposed Ending Reserves62
- Figure 20: Wastewater Cost Components64
- Figure 21: Wastewater Distribution Basis and Units of Service by Cost Component69
- Figure 22: Recycled Water Capital Improvement Plan74
- Figure 23: Recycled Water Current Operating Financial Position80
- Figure 24: Recycled Water Projected Ending Reserves at Existing Rates81
- Figure 25: Recycled Water Proposed Operating Position84
- Figure 26: Recycled Water Capital Improvement Plan with Funding Sources84
- Figure 27: Recycled Water Proposed Ending Reserves85

Executive Summary

The Trabuco Canyon Water District (District) is a local public agency that provides water, wastewater, and recycled water services to customers in portions of the cities of Rancho Santa Margarita, Mission Viejo, Lake Forest, and unincorporated Orange County. The District provides these services to its customers at cost and does not have shareholders or derive any profit. The District must collect sufficient revenues from its customers to pay the costs to (1) prudently operate and maintain each of its three enterprise systems or “utilities” - water, wastewater, and recycled water; (2) build, renew, replace, and upgrade its infrastructure, which includes pipelines, treatment plants, reservoirs, and pumps, as well as administration buildings and related facilities; and (3) ensure a prudent reserve of funds.

The District collects revenues primarily through user fees (rates and charges) that are designed to ensure that each customer pays their fair share of their total use of the District’s systems. This Cost-of-Service Study is intended to (1) establish the total projected cost for each system over a five-year period (the financial plan); (2) allocate those costs among customers in a way that ensures that each customer pays its fair share of those costs in compliance with California Constitution Article XIII D, section 6, also known as Proposition 218 (the rate structure).

The District’s most recent 5-year rate schedule was adopted in December 2020. Due to increases in capital expenses and the recent hyper-inflationary climate, the District determined that the financial plan needed to be updated to reflect increased costs, and that rate increases would be needed to replace the current noticed rates for Fiscal Year 2023-24 (FY 2024) and FY 2025. The District selected IB Consulting to conduct a comprehensive cost-of-service analysis to establish rates for the District’s three systems for the 5-year period from FY 2024 through FY 2028 (Rate Setting Period). That analysis is set forth below.

Water Utility Summary

Financial Plan

Updating the water utility’s long-term financial plan and performing a comprehensive cost-of-service analysis is a prudent business practice to ensure that the District can fully fund its revenue needs through FY 2028 and beyond. In reviewing and updating water rates, the first step is to thoroughly check the financial health of the District’s water utility. Based on a financial review of the water utility at current rates and noticed rates through FY 2025, the District is projected to end FY 2024 with an operating deficit of \$833k, which will grow to approximately \$1.48M by FY 2028. Separate from operating expenses, the water utility also has significant capital projects over the next five years totaling \$13.2M, which includes a transmission pipeline upsizing (\$2.5M) and a new reservoir at Harris Grade (\$5.9M). The District has an existing loan with almost \$3M of available funding remaining to support the planned capital projects, with the balance of funding coming from reserves. However, without increases to rates, reserves would be depleted by FY 2026. The proposed financial plan generates an additional \$21.3M in rate revenue, phased in over the Rate Setting Period. In addition, a new debt issuance is proposed to occur in FY 2024 that will convert the District’s existing short-term credit line into long-term debt over a 30-year amortization schedule, and will provide additional proceeds of \$3M to cover the capital expenses projected for FY 2025 and a portion of FY 2026 capital projects. The new debt issue and related proceeds will allow rate revenue to increase more slowly over time and fund capital on a Pay-As-You-Go (PAYGO) basis by FY 2027.

Trabuco Canyon Water District – 2023 Cost-of-Service Study

The total proposed debt issue, covering all three utilities, is expected to equal \$18M, with \$10M for the water utility (\$7M of short-term debt refinanced and \$3M in new money), \$7M for the wastewater utility (\$2.5M of short-term debt refinanced and \$4.5M in new money), and \$1M for the recycled water utility (\$500k of short-term debt refinanced and \$500k in new money). The debt financing assumes a 30-year term at a 5% annual interest rate, with a 10% debt reserve requirement and 2% in cost of issuance. As such, to generate \$10M in proceeds, the total debt amount is estimated at \$11.4M.

Rate Structure

The District's water rate structure has both fixed and variable components. The fixed component includes a base fixed charge and a separate Water Reliability and Emergency Storage (WRES) fixed charge. Both fixed charges vary by meter size and are charged to all customers, except that customers in the area known as Portola Hills no longer pay the WRES (the Portola Hills area was only obligated to pay the WRES fixed charge through FY 2018 for that area's share of certain applicable project costs).

Variable rates differ by customer class due to variations in their use of the system and therefore the costs to serve those customer classes. Single-Family customers are currently subject to a four-tiered rate structure, charged in Hundred Cubic Feet¹ (HCF) increments. All other customer classes pay their proportionate share of costs through uniform rates per HCF. The District also has variable pumping rates for certain areas of the District that require booster pumps (and hence additional energy costs) to cover the cost of conveying water up to the higher elevations.

The detailed cost-of-service analysis within this report includes adjustments to the existing rate structure. The WRES will sunset after FY 2023 as the remaining facilities associated with the WRES-dedicated funding are part of this rate cycle's capital improvement plan. However, fixed charges will continue to fund a portion of capital needs and will be adjusted upward to recover approximately 40% of total rate revenue to ensure revenue stability. Single-Family tiers will reduce from four tiers to a three-tiered rate structure reflecting water usage characteristics throughout the year (Tier 1 = winter average, Tier 2 = summer average, and Tier 3 = greater than Tier 2). The differentials between the proposed tiered rates have been adjusted and solely reflect the differences in water supply costs as allocated among the tiers. A detailed analysis of the District's water supplies was conducted to determine the variable unit cost of water supply. The District's four water supplies include water from the Baker Water Treatment Plant (operated by Irvine Ranch Water District or IRWD), Dimension Water Treatment Plant (owned and operated by the District), imported treated water from IRWD (IRWD – Treated) and imported treated water from Santa Margarita Water District (SMWD – Treated).

The total projected water demand within each tier is served by first allocating the lowest cost water supplies among all Single-Family customers up to the winter average consumption volume, representing average indoor water use among all Single-Family customers. Each successively more expensive source of water is then allocated among all Single-Family customers up to the summer average consumption (representing average indoor + outdoor water use among all Single-Family customers), and then up to the most expensive source of water. In some cases, multiple water supplies are needed to serve the total demand within each tier and a weighted unit rate is derived.

Multi-Family customers will adjust to a 2-tiered rate structure based on usage characteristics (Tier 1 = winter average and Tier 2 = usage above Tier 1). This rate structure reflects the assumption that multi-family customers have minimal irrigation water uses. Due to the broad spectrum of land uses within the Commercial category, the Commercial rate structure will maintain a uniform rate to ensure equity between accounts within the customer class and a blended water supply unit rate is applied to ensure Commercial customers are paying their proportionate share of costs. The Portola Hills uniform rate has been adjusted to account for

¹ 1 HCF = 748 gallons

Trabuco Canyon Water District – 2023 Cost-of-Service Study

operational costs of the District to distribute water to Portola Hills, in line with all other customers, but this area only receives water from Irvine Ranch Water District (IRWD) and is not subject to treatment-related costs from the Dimension water treatment plant. The District’s variable pumping rates have been recalibrated based on the most recent known current energy costs, except for the Portola Hills pumping charge, which has been eliminated and incorporated into a fully loaded water supply unit rate.

If customers as a whole were able to limit their water use levels, then the District would not need to purchase more expensive sources of supply. Allocating water costs to customer classes, including to residential tiers ensures that the burden of the District’s costs to buy more expensive water supplies are borne by those creating the demand, and avoids lower-volume users from subsidizing higher-volume users.

By adopting the proposed financial plan and approving rates through FY 2028, the water utility will generate positive net income above operating expenses, cover its system reinvestments and exceed its minimum reserve requirement by FY 2028.

The proposed rates have been incorporated into a Proposition 218 Notice and mailed to each customer. A Public Hearing is scheduled for June 29, 2023, on the proposed rates identified in Table 1 through Table 3. If there is no majority protest, and the Board of Directors approves this Cost-of-Service study and the proposed rates, then the proposed rates for FY 2024 will go into effect on July 1, 2023, with subsequent adjustments occurring each July 1st thereafter.

Table 1: Proposed Monthly Water Fixed Charges

Potable Fixed Meter Charges (\$/Month)					
Meter Size	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
5/8"	\$ 46.84	\$ 55.28	\$ 65.24	\$ 71.77	\$ 78.95
3/4"	46.84	55.28	65.24	71.77	78.95
1"	94.93	112.02	132.19	145.41	159.96
1 1/2"	175.08	206.60	243.79	268.17	294.99
2"	271.26	320.09	377.71	415.49	457.04
3"	575.83	679.48	801.79	881.97	970.17
4"	1,024.67	1,209.12	1,426.77	1,569.45	1,726.40
6"	2,098.68	2,476.45	2,922.22	3,214.45	3,535.90

Trabuco Canyon Water District – 2023 Cost-of-Service Study

Table 2: Proposed Variable Water Rates

Potable Variable Rates (\$/HCF)						
Customer Class	Tier Definitions (HCF)	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Single-Family						
Tier 1	0 - 13	\$ 4.40	\$ 5.20	\$ 6.14	\$ 6.76	\$ 7.44
Tier 2	14 - 21	5.12	6.05	7.14	7.86	8.65
Tier 3	>21	5.64	6.66	7.86	8.65	9.52
Multi-Family						
Tier 1	0 - 6	\$ 4.62	\$ 5.46	\$ 6.45	\$ 7.10	\$ 7.81
Tier 2	>6	5.64	6.66	7.86	8.65	9.52
Commercial		\$ 4.73	\$ 5.59	\$ 6.60	\$ 7.26	\$ 7.99
Irrigation		\$ 4.73	\$ 5.59	\$ 6.60	\$ 7.26	\$ 7.99
Agricultural		\$ 4.73	\$ 5.59	\$ 6.60	\$ 7.26	\$ 7.99
Portola Hills		\$ 5.25	\$ 6.20	\$ 7.32	\$ 8.06	\$ 8.87

Table 3: Variable Pumping Water Rates

Pumping Variable Rates (\$/HCF)					
Pumping Zone	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Zone 1 - Base	\$ -	\$ -	\$ -	\$ -	\$ -
Zone 2 - Topanga / Saddlecrest	0.53	0.63	0.75	0.83	0.92
Zone 3 - Canyon Creek	0.94	1.11	1.31	1.45	1.60
Zone 4 - Falcon	1.44	1.70	2.01	2.22	2.45
Zone 5 - Joplin	0.14	0.17	0.21	0.24	0.27

Trabuco Canyon Water District – 2023 Cost-of-Service Study

Wastewater Utility Summary

Based on a financial review of the wastewater utility at current rates and approved rates through FY 2025, the District will cover operating expenses and generate positive net income for each fiscal year over the Financial Plan Period. However, net annual operating income alone cannot cover the capital spending needs for system reinvestment. Therefore, additional rate revenue is needed to fund system reinvestment and build up reserves to satisfy the utility’s minimum reserve requirements. The proposed financial plan and recommended adjustments would generate an additional \$5.285M over the Rate Setting Period, and the proposed FY 2024 debt issuance would provide \$4.5M in new money to fund capital costs in FY 2024 and FY 2025. The proposed financial plan would leverage debt to fund capital in the short-term, while rate revenue increases through a phase-in approach to cover the capital spending needs on a PAYGO by FY 2026.

The District's existing wastewater rate structure consists of flat monthly fixed charges to residential customers for each dwelling unit that vary between Single-Family and Multi-Family. Commercial customers are charged a monthly fixed charge and variable rates based on the level of strength concentration generated by the type of commercial use. Variable rates are categorized between three Low, Medium, and High.

The proposed wastewater rates derived within this report include a restructuring of wastewater rates. All residential customers will be charged the same monthly rate as the residential density factors in the area reflect 2.75 people per household (pph), based on population statistics from the E-5 Table of the Department of Finance and the multi-family complex within the District’s service area does not have any age restrictions limiting the household size. Residential rates are currently noticed and collected on a monthly basis but will transition to recovery on the Property Tax Bill. The Residential charges herein will still be derived as a monthly charge for comparison to existing rates. Within the Proposition 218 Notice, residential charges will show the month charge as well as the annual amount levied and collected on the Property Tax Bill. Commercial customers will continue to be a monthly fixed charge and variable rates that vary between Low, Medium, and High. However, the current monthly fixed charge to Commercial is low (\$5.69 per month) and will be recalibrated to generate slightly more fixed revenue. The recommended wastewater rates are included within the Proposition 218 Notice, and a Public Hearing is scheduled for June 29, 2023, on the proposed rates identified in Table 4. If there's not a majority protest, proposed rates for FY 2024 will go into effect on July 1, 2023, with subsequent adjustments occurring each July 1st thereafter.

Table 4: Proposed Wastewater Rates

Flat Charges (\$/Month)						
Customer Class	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	
Residential	\$ 45.92	\$ 53.27	\$ 61.80	\$ 69.22	\$ 77.53	
Commercial	\$ 12.58	\$ 14.60	\$ 16.94	\$ 18.98	\$ 21.26	

Variable Rates (\$/HCF)						
Customer Class	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	
Commercial						
Low	\$ 4.78	\$ 5.55	\$ 6.44	\$ 7.22	\$ 8.09	
Medium	8.00	9.28	10.77	12.07	13.52	
High	12.36	14.34	16.64	18.64	20.88	

Trabuco Canyon Water District – 2023 Cost-of-Service Study

Recycled Water Utility

Based on a financial review of the recycled water utility at current rates and approved rates through FY 2025, the recycled water utility generates sufficient revenue to cover operating expenses and \$1.2M in net income over the Rate Setting Period, but the capital improvement plan for recycled water over the same period exceeds \$2.5M with an additional \$1.7M in capital projects the following year (FY 2029) related to the Dove Dam Outlet Replacement. With these critical capital needs, rate increases are needed to cover the system reinvestment and build up reserve to satisfy minimum reserve requirements. The proposed financial plan and recommended adjustments would generate \$4.1M in additional revenue over the Rate Setting Period and \$500k in debt proceeds from the proposed FY 2024 debt issuance. Collectively, the increased rate revenue and debt-financing would cover the utility’s revenue requirements and build up reserves to the ideal target by FY 2028 in anticipation of drawing it down for the Dove Dam project.

The District's recycled water rates include the same fixed charges as potable rates and a uniform variable rate. The proposed recycled water rates will continue to be pegged to the proposed potable meter charges, equal to 55% of potable meter charges and variable rates will remain as a uniform rate applied to all recycled water customers. The recommended recycled water rates are included within the Proposition 218 Notice, and a Public Hearing is scheduled for June 29, 2023, on the proposed rates identified in Table 5 and Table 6. If there is no majority protest, then the Board may adopt the proposed rates for FY 2024, which will go into effect on July 1, 2023, with subsequent adjustments occurring each July 1st thereafter.

Table 5: Proposed Recycled Water Fixed Charges

Recycled Fixed Meter Charges (\$/Month)					
Meter Size	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
5/8"	\$ 25.76	\$ 30.40	\$ 35.88	\$ 39.47	\$ 43.42
3/4"	25.76	30.40	35.88	39.47	43.42
1"	52.21	61.61	72.70	79.98	87.98
1 1/2"	96.29	113.63	134.08	147.49	162.24
2"	149.19	176.05	207.74	228.52	251.37
3"	316.71	373.71	440.98	485.08	533.59
4"	563.57	665.02	784.72	863.20	949.52
6"	1,154.27	1,362.05	1,607.22	1,767.95	1,944.75
8"	2,476.75	2,922.57	3,448.63	3,793.50	4,172.85
10"	3,711.06	4,379.05	5,167.28	5,684.01	6,252.42

Table 6: Proposed Recycled Water Variable Rates

Proposed Recycled Variable Rates (\$/HCF)					
Variable Rates	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Recycled	\$4.08	\$4.90	\$5.89	\$6.81	\$7.49

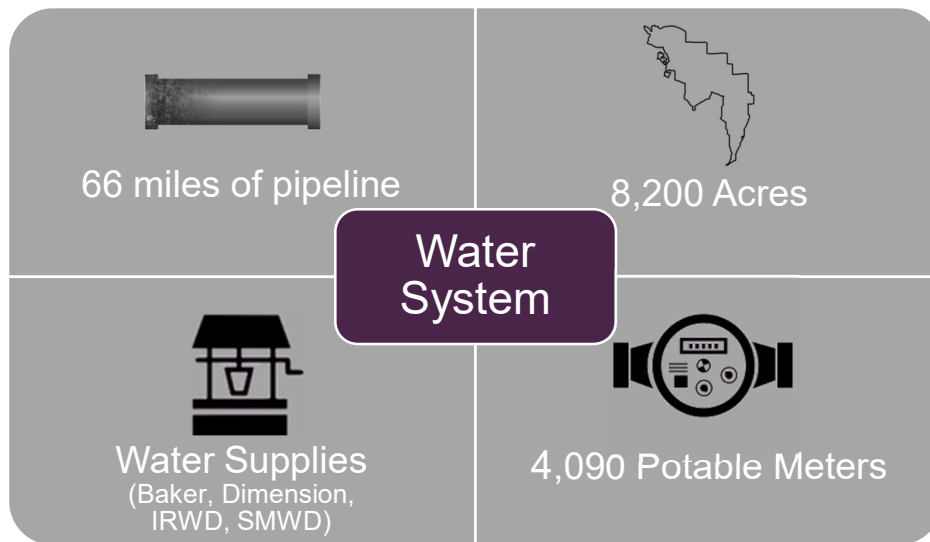
Trabuco Canyon Water District – 2023 Cost-of-Service Study

Water Utility

Water System

The District encompasses an area of approximately 8,200 acres in the southeastern portion of Orange County at the foothills of the Santa Ana Mountains and its service area includes communities within the City of Rancho Santa Margarita, City of Lake Forest, City of Mission Viejo, Trabuco Canyon and other areas of unincorporated Orange County. The District is a regional partner in the Baker Water Treatment Plant and operates the Dimension Water Treatment Plant. The District water facilities also include two wells, nine pump stations, eight treated water storage reservoirs and 66 miles of water distribution pipelines with approximately 4,090 service connections (excluding temporary construction meters).

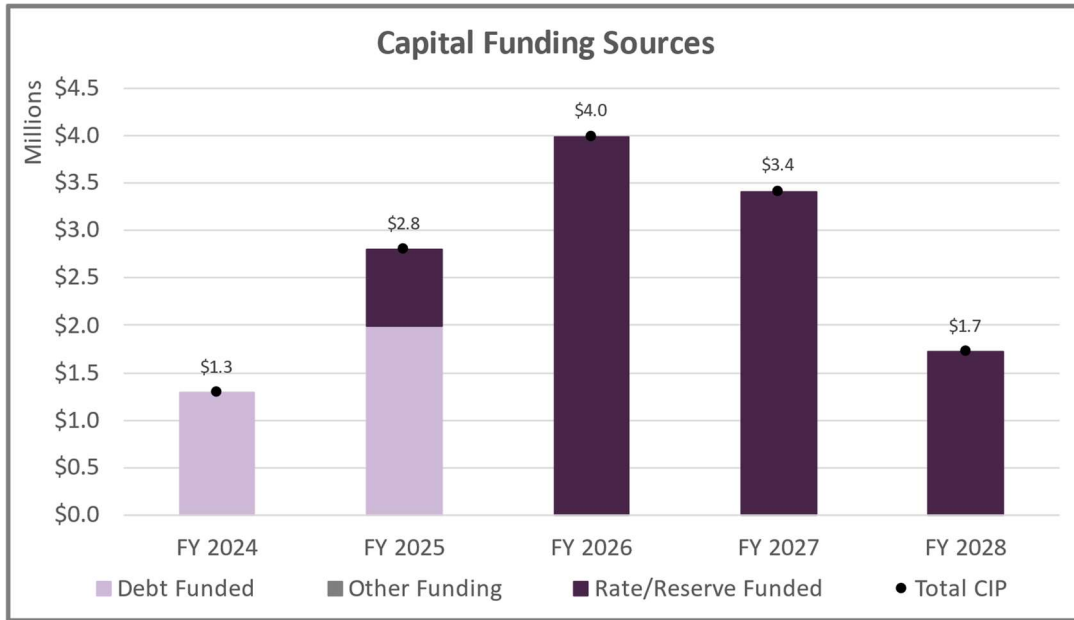
Figure 1: District Water System



The District recently completed a new asset management plan that identified capital project needs of \$30M over the next ten years. Through the District's review of the asset management plan and prioritizing projects between critical, less critical, and non-critical improvements, a final proposed Capital Improvement Plan (CIP) for this study was provided requiring \$13.2M in capital spending over the Rate Setting Period. Figure 2 shows the District's CIP through FY 2028 with current funding sources.

Trabuco Canyon Water District – 2023 Cost-of-Service Study

Figure 2: Water Capital Improvement Plan



Customers

The District serves 4,090 water meters, with over 80% of accounts classified as residential. Table 7 provides a summary of meters by meter size.

Table 7: Water Meters by Meter Size

Meter Size	Single-Family	Multi-Family	Commercial	Irrigation	Agricultural	Portola Hills	Total
5/8"	2,143	0	17	1	0	463	2,624
3/4"	795	0	7	0	1	68	871
1"	359	18	15	1	1	0	394
1 1/2"	19	13	7	4	1	0	44
2"	45	0	30	70	0	0	145
3"	1	0	1	5	0	0	7
4"	0	0	1	0	2	0	3
6"	0	0	2	0	0	0	2
Total	3,362	31	80	81	5	531	4,090

As previously mentioned, the existing rate structure consists of a base monthly fixed meter charge, a WRES fixed charge for capital spending, and variable rates that vary by customer class, with Single-Family subject to a four-tiered rate structure. Current monthly fixed charges are identified in Table 8 and Table 9, followed by variable rates shown in Table 10 and Table 11.

Trabuco Canyon Water District – 2023 Cost-of-Service Study

Table 8: FY 2023 Monthly Base Fixed Water Charges

Base Fixed Meter Charges (\$/Month)	
Meter Size	Existing
5/8"	\$ 21.04
3/4"	21.04
1"	30.70
1 1/2"	54.85
2"	83.81
3"	175.57
4"	310.77
6"	779.18

Table 9: FY 2023 Monthly WRES Fixed Water Charges

WRES Fixed Meter Charges (\$/Month)	
Meter Size	Existing
5/8"	\$ 16.04
3/4"	16.04
1"	25.25
1 1/2"	38.48
2"	51.30
3"	76.95
4"	102.60
6"	153.90

Trabuco Canyon Water District – 2023 Cost-of-Service Study

Table 10: FY 2023 Variable Water Rates

Potable Variable Rates (\$/HCF)	
Customer Class	Existing
Single-Family	
Tier 1	\$ 2.92
Tier 2	3.72
Tier 3	7.06
Tier 4	9.16
Multi-Family	\$ 3.43
Commercial	\$ 3.76
Irrigation	\$ 4.86
Agricultural	\$ 6.17
Portola Hills	\$ 2.56

Table 11: FY 2023 Variable Water Pumping Rates

Pumping Variable Rates (\$/HCF)	
Pumping Zone	Existing
Zone 1 - Base	\$ -
Zone 2 - Topanga / Saddlecrest	0.99
Zone 3 - Canyon Creek	4.36
Zone 4 - Falcon	2.08
Zone 5 - Joplin	1.69
Zone 6 - Portola Hills	0.35

Financial Plan Overview – Water Utility

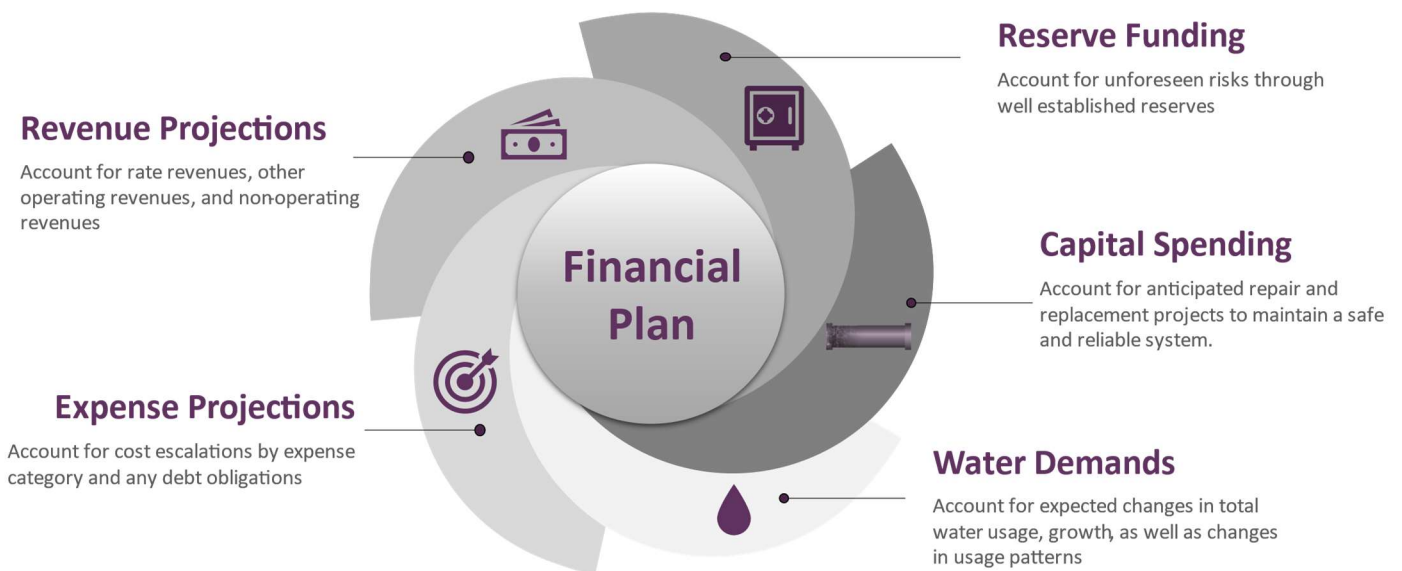
Financial Planning

Financial planning incorporates numerous considerations, including projecting revenues and forecasting expected costs using various inflationary adjustments. Utilities also need to account for changes in water demand driven by variations in weather, changes to water supplies and water availability, state mandates, growth, and economic factors. In addition, system maintenance and reinvestment, reserves, and debt service requirements all influence the revenues needed in future years. Therefore, a comprehensive financial plan reviews the following:

- 1) Historical water sales and consumption patterns to determine an appropriate usage level for projecting future water demands.
- 2) Operational costs that may change over the planning period because of inflation, unique circumstances of the agency, new expenditures added to meet strategic goals, state mandates, or changes in operations.
- 3) Multi-year system improvement needs, and scheduling based on priority. This review also considers available funding sources to complete projects such as PAYGO, grants, loans, and debt financing.
- 4) Reserve funding to meet adopted reserve policies. The goal is to generate adequate cash on hand to mitigate financial risks related to operating cashflow needs, unexpected increases in expenses, shortages in system reinvestment, and mitigating potential system failures.

Figure 3 illustrates the key elements when developing a long-term financial plan.

Figure 3: Financial Plan Key Elements



Trabuco Canyon Water District – 2023 Cost-of-Service Study

Financial Planning Assumptions

Developing a long-term financial plan requires an understanding of the District’s financial position by evaluating existing revenue streams, ongoing expenses, how those expenses will change over time, existing debt requirements, and reserve policies. With these considerations, certain assumptions are required for projecting revenues, expenses, and expected ending fund balances. Through discussions with staff and their understanding of historical budget data and future obligations, Table 12 identifies assumptions used for forecasting revenues. Table 13 provides details on the number of accounts by meter size and Table 14 identifies projected usage by customer class and tier. For forecasting revenues, our analysis assumes no growth in accounts as a conservative assumption so projected revenues do not rely on growth to occur. In addition, water sales assume a slight reduction to 2,323 AF for FY 2024 and beyond. Table 15 identifies the amount of projected usage through each elevation zone.

Table 12: Assumptions for Forecasting Revenues

Key Assumptions	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Revenue Escalation					
Non-Rate Revenues	0%	0%	0%	0%	0%
Reserve Interest	2.0%	2.0%	2.0%	2.0%	2.0%
Account Growth					
	0%	0%	0%	0%	0%
Water Sales					
Customer Usage (AF)	2,323	2,323	2,323	2,323	2,323
Customer Usage (HCF)	1,011,889	1,011,889	1,011,889	1,011,889	1,011,889

Trabuco Canyon Water District – 2023 Cost-of-Service Study

Table 13: Accounts by Meter Size – FY 2024 through FY 2028

Customer Accounts	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
All Potable Meters					
Meter Size					
5/8"	2,624	2,624	2,624	2,624	2,624
3/4"	871	871	871	871	871
1"	394	394	394	394	394
1 1/2"	44	44	44	44	44
2"	145	145	145	145	145
3"	7	7	7	7	7
4"	3	3	3	3	3
6"	2	2	2	2	2
Total All Potable Meters	4,090	4,090	4,090	4,090	4,090

Table 14: Projected Consumption (HCF) – FY 2024 through FY 2028

Consumption by Customer Class	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Single-Family					
Tier 1	297,504	297,504	297,504	297,504	297,504
Tier 2	229,662	229,662	229,662	229,662	229,662
Tier 3	95,704	95,704	95,704	95,704	95,704
Tier 4	40,603	40,603	40,603	40,603	40,603
Subtotal Single-Family Consumption (HCF)	663,473	663,473	663,473	663,473	663,473
Multi-Family	12,075	12,075	12,075	12,075	12,075
Commercial	34,008	34,008	34,008	34,008	34,008
Irrigation	143,718	143,718	143,718	143,718	143,718
Agricultural	95,593	95,593	95,593	95,593	95,593
Portola Hills	63,022	63,022	63,022	63,022	63,022
Total Potable Consumption (HCF)	1,011,889	1,011,889	1,011,889	1,011,889	1,011,889

Trabuco Canyon Water District – 2023 Cost-of-Service Study

Table 15: Projected Pumping Consumption (HCF) – FY 2024 through FY 2028

Potable Consumption by Pumping Zone	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Pumping Zone					
Zone 1 - Base	932,738	932,738	932,738	932,738	932,738
Zone 2 - Topanga / Saddlecrest	8,282	8,282	8,282	8,282	8,282
Zone 3 - Canyon Creek	2,179	2,179	2,179	2,179	2,179
Zone 4 - Falcon	2,632	2,632	2,632	2,632	2,632
Zone 5 - Joplin	3,036	3,036	3,036	3,036	3,036
Zone 6 - Portola Hills	63,022	63,022	63,022	63,022	63,022
Total Potable Consumption by Pumping Zone (HCF)	1,011,889	1,011,889	1,011,889	1,011,889	1,011,889

Table 16 identifies assumptions used for forecasting increases in expenses over the Rate Setting Period. Purchased water costs are held constant and any increases will be captured through the pass-through provisions of Government Code section 53756.

Table 16: Assumptions for Forecasting Expense Requirements²

Key Assumptions	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Expenditure Escalation					
Benefits	7.00%	7.00%	7.00%	7.00%	7.00%
Capital Construction	6.63%	3.93%	3.93%	3.93%	3.93%
Energy Costs	8.00%	8.00%	5.00%	5.00%	5.00%
Fuel	20.00%	20.00%	5.00%	5.00%	5.00%
General Costs	6.20%	3.95%	3.95%	3.95%	3.95%
Retirement	5.00%	5.00%	5.00%	5.00%	5.00%
Salaries	5.00%	5.00%	5.00%	5.00%	5.00%
Water Purchases	Pass-Through	Pass-Through	Pass-Through	Pass-Through	Pass-Through

Current Financial Position

Revenues

Based on the forecasting assumptions, fixed revenues were calculated using account data by meter size (Table 13) and existing fixed charges (Table 8 and Table 9³). Variable revenues were calculated using existing variable rates (Table 10 and Table 11) and projected total water sales by customer class (Table 14) and projected usage by pumping zone (Table 15). Table 17 shows the calculated rate revenues through the Rate Setting Period. Table 18 summarizes calculated rate revenues from Table 17 and other operating and non-rate revenues available through the Rate Setting Period with projections rounded to the nearest thousands.

² Capital Construction inflation and General Costs for FY 2024 were increased to 6.63% and 6.2%, respectively, to account for recent increases due to inflation. Outer years reduce to 3.93% and 3.95%, reflecting the 5-year average of the Engineering News-Record – Construction Cost index and the Los Angeles Area Consumer Price Index, respectively.

³ Portola Hills customers do not get charged the WRES fixed charge.

Trabuco Canyon Water District – 2023 Cost-of-Service Study

Table 17: Water Calculated Rate Revenues

Potable Fixed Revenues	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Meter Flat Rates					
Single-Family	\$ 933,912	\$ 933,912	\$ 933,912	\$ 933,912	\$ 933,912
Multi-Family	15,188	15,188	15,188	15,188	15,188
Commercial	70,901	70,901	70,901	70,901	70,901
Irrigation	84,188	84,188	84,188	84,188	84,188
Agricultural	8,738	8,738	8,738	8,738	8,738
Portola Hills	134,067	134,067	134,067	134,067	134,067
Total Meter Flat Rates	\$ 1,246,993	\$ 1,246,993	\$ 1,246,993	\$ 1,246,993	\$ 1,246,993
WRES Fees					
Single-Family	\$ 711,682	\$ 711,682	\$ 711,682	\$ 711,682	\$ 711,682
Multi-Family	11,457	11,457	11,457	11,457	11,457
Commercial	36,713	36,713	36,713	36,713	36,713
Irrigation	50,052	50,052	50,052	50,052	50,052
Agricultural	3,420	3,420	3,420	3,420	3,420
Portola Hills	0	0	0	0	0
Total WRES Fees	\$ 813,323	\$ 813,323	\$ 813,323	\$ 813,323	\$ 813,323
Variable Revenues	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Single-Family					
Tier 1	\$ 868,712	\$ 868,712	\$ 868,712	\$ 868,712	\$ 868,712
Tier 2	854,343	854,343	854,343	854,343	854,343
Tier 3	675,670	675,670	675,670	675,670	675,670
Tier 4	371,923	371,923	371,923	371,923	371,923
Single-Family Variable Revenue	\$ 2,770,648	\$ 2,770,648	\$ 2,770,648	\$ 2,770,648	\$ 2,770,648
Multi-Family	\$ 41,417	\$ 41,417	\$ 41,417	\$ 41,417	\$ 41,417
Commercial	\$ 127,870	\$ 127,870	\$ 127,870	\$ 127,870	\$ 127,870
Irrigation	\$ 698,469	\$ 698,469	\$ 698,469	\$ 698,469	\$ 698,469
Agricultural	\$ 589,809	\$ 589,809	\$ 589,809	\$ 589,809	\$ 589,809
Portola Hills	\$ 161,462	\$ 161,462	\$ 161,462	\$ 161,462	\$ 161,462
Total Potable Variable Rate Revenue	\$ 4,389,676	\$ 4,389,676	\$ 4,389,676	\$ 4,389,676	\$ 4,389,676
Pumping - Variable					
Zone 1 - Base	\$ -	\$ -	\$ -	\$ -	\$ -
Zone 2 - Topanga / Saddlecrest	8,199	8,199	8,199	8,199	8,199
Zone 3 - Canyon Creek	9,500	9,500	9,500	9,500	9,500
Zone 4 - Falcon	5,475	5,475	5,475	5,475	5,475
Zone 5 - Joplin	5,131	5,131	5,131	5,131	5,131
Zone 6 - Portola Hills	22,058	22,058	22,058	22,058	22,058
Total Variable Pumping Revenue	\$ 50,363	\$ 50,363	\$ 50,363	\$ 50,363	\$ 50,363
Total Rate Revenue	\$ 6,541,772	\$ 6,541,772	\$ 6,541,772	\$ 6,541,772	\$ 6,541,772

Trabuco Canyon Water District – 2023 Cost-of-Service Study

Table 18: Water Projected Revenues

Revenue Summary	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Rate Revenues					
Fixed Revenue	\$ 1,247,000	\$ 1,247,000	\$ 1,247,000	\$ 1,247,000	\$ 1,247,000
Variable Revenue	4,440,000	4,440,000	4,440,000	4,440,000	4,440,000
WRES Revenue	813,000	813,000	813,000	813,000	813,000
Subtotal Rate Revenues	\$ 6,500,000	\$ 6,500,000	\$ 6,500,000	\$ 6,500,000	\$ 6,500,000
Operating Revenues					
Backflow/Fireflow Test	\$ 11,000	\$ 11,000	\$ 11,000	\$ 11,000	\$ 11,000
Late Charges	143,000	143,000	143,000	143,000	143,000
New Account Fee	2,000	2,000	2,000	2,000	2,000
Standby Charges	46,000	46,000	46,000	46,000	46,000
BTP Water Sales	717,000	717,000	717,000	717,000	717,000
BTP Sales - O&M	225,000	225,000	225,000	225,000	225,000
BTP Sales - Capital	167,000	167,000	167,000	167,000	167,000
Subtotal Operating Revenues	\$ 1,311,000	\$ 1,311,000	\$ 1,311,000	\$ 1,311,000	\$ 1,311,000
Non-Operating Revenues					
Uncollectable Accounts	(26,000)	(26,000)	(26,000)	(26,000)	(26,000)
Property Taxes	1,070,000	1,070,000	1,070,000	1,070,000	1,070,000
Other Non-Operating Revenue	59,000	59,000	59,000	59,000	59,000
Interest Revenue	0	0	25,000	16,000	0
Subtotal Non-Operating Revenues	\$ 1,103,000	\$ 1,103,000	\$ 1,128,000	\$ 1,119,000	\$ 1,103,000
Total Revenues	\$ 8,914,000	\$ 8,914,000	\$ 8,939,000	\$ 8,930,000	\$ 8,914,000

Trabuco Canyon Water District – 2023 Cost-of-Service Study

Expenses

The FY 2023 budget was used as the baseline expenses of the utility and adjusted in subsequent years based on the escalation factors shown in Table 16. Table 19 provides projected Operational & Maintenance (O&M) costs through the Rate Setting Period, with future projections (except for debt) rounded to the nearest thousands. Each O&M expense category includes detailed line-item expenditures that were discussed with staff to determine the appropriate escalation factor for forecasting how costs will increase over time. The projected price of purchased water for FY 2024 is held constant for all years because any increase will be captured through the pass-through provisions of Government Code section 53756 and will be identified within the Proposition 218 notice.

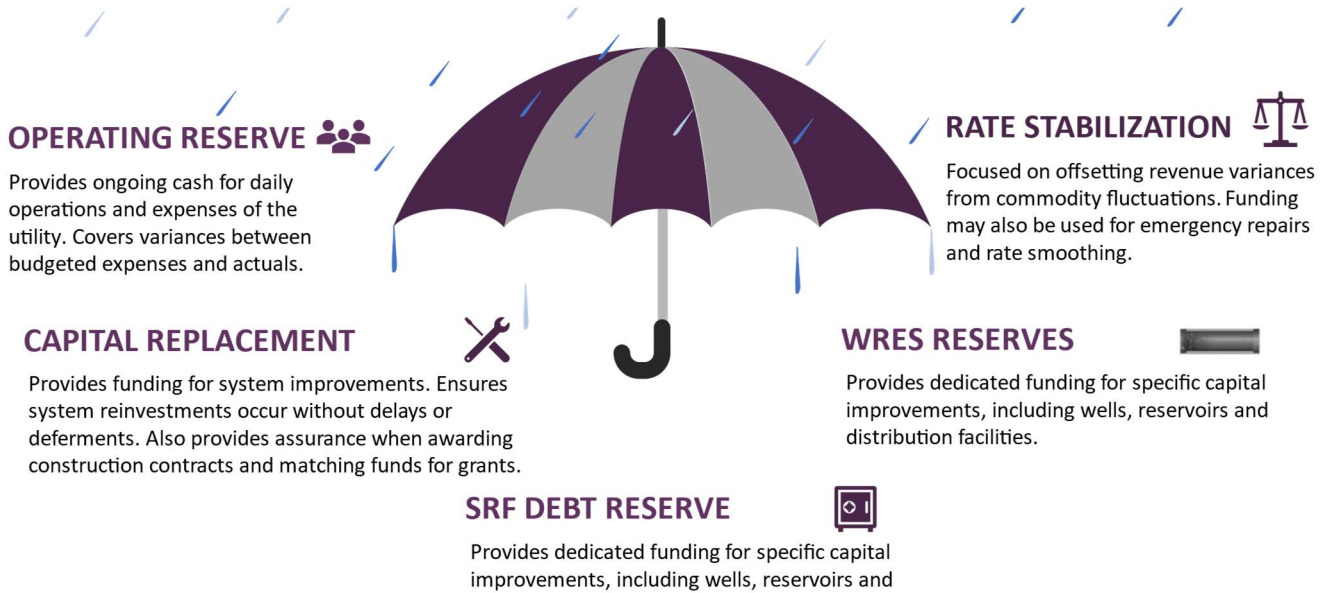
Table 19: Projected O&M Expenses

O&M Expenses	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Water Supply Costs					
Fixed Purchased Water Costs					
MWDOC	\$ 281,000	\$ 281,000	\$ 281,000	\$ 281,000	\$ 281,000
SMWD	16,000	16,000	16,000	16,000	16,000
IRWD	320,000	320,000	320,000	320,000	320,000
Portola Hills	44,000	44,000	44,000	44,000	44,000
Subtotal Fixed Purchased Water Costs	\$ 661,000	\$ 661,000	\$ 661,000	\$ 661,000	\$ 661,000
Variable Purchased Water Costs					
TCWD					
Baker (BTP)	320,000	320,000	320,000	320,000	320,000
SMWD - Treated	32,000	32,000	32,000	32,000	32,000
IRWD - Treated	805,000	805,000	805,000	805,000	805,000
Dimension (DWTP)	1,168,000	1,168,000	1,168,000	1,168,000	1,168,000
Portola Hills	202,000	202,000	202,000	202,000	202,000
Water Sales - BTP	742,000	742,000	742,000	742,000	742,000
Subtotal Variable Purchased Water Cos	\$ 3,269,000	\$ 3,269,000	\$ 3,269,000	\$ 3,269,000	\$ 3,269,000
Pumping Costs					
T&D - Electricity	\$ 264,000	\$ 285,000	\$ 299,000	\$ 314,000	\$ 330,000
Subtotal Pumping Costs	\$ 264,000	\$ 285,000	\$ 299,000	\$ 314,000	\$ 330,000
Water Supply Costs	\$ 4,194,000	\$ 4,215,000	\$ 4,229,000	\$ 4,244,000	\$ 4,260,000
Operating Expenses					
General and Administrative	\$ 1,279,000	\$ 1,338,000	\$ 1,400,000	\$ 1,464,000	\$ 1,531,000
Salaries & Benefits	2,878,000	3,036,000	3,203,000	3,379,000	3,565,000
Transmission & Distribution	438,000	465,000	484,000	504,000	524,000
Treatment	284,000	303,000	317,000	331,000	347,000
CalPERS & OPEB	169,000	163,000	152,000	140,000	125,000
Subtotal Operating Expenses	\$ 5,048,000	\$ 5,305,000	\$ 5,556,000	\$ 5,818,000	\$ 6,092,000
Debt Service					
SRF Loan	\$ 230,382	\$ 230,380	\$ 230,380	\$ 230,381	\$ 230,382
Refinancing/Proposed New Debt	397,727	517,455	517,455	517,455	517,455
Subtotal Debt Service	\$ 628,109	\$ 747,835	\$ 747,835	\$ 747,836	\$ 747,837
Total Expenses	\$ 9,870,109	\$ 10,267,835	\$ 10,532,835	\$ 10,809,836	\$ 11,099,837

Trabuco Canyon Water District – 2023 Cost-of-Service Study

Reserves

Figure 4: Water Utility Reserves



Established reserves include Operating, Capital Replacement, Rate Stabilization, SFR Debt, and WRES. These reserves help mitigate risks to the utility by ensuring sufficient cash is on hand for daily operations, cover funding for annual system improvements, and secure outstanding debt obligations. In addition, these reserves help smooth rates and mitigate rate spikes due to emergencies or above-average system costs. The WRES Reserves will be closed, and remaining funds will be transferred to the Operating Reserve because the remaining facilities associated with the WRES dedicated funding are part of this rate cycle’s CIP. Table 20 summarizes the minimum reserve requirements and ideal targets of each reserve.

Table 20: Reserve Requirements and Targets

Reserve	Minimum Requirement	Reserve Target
Unrestricted		
Operating	90 days of operating expenses	180 days of operating expenses
Capital Replacement	Annual CIP costs based on 5-year average	2 years of CIP costs based on 5-year average
Rate Stabilization	10% of operating revenue	N/A
Restricted		
WRES	N/A	N/A
SFR Debt	Annual debt payment	N/A

The reserve balance as of July 1, 2022, equaled approximately \$4.0M, excluding the debt reserve.

Trabuco Canyon Water District – 2023 Cost-of-Service Study

Financial Outlook at Existing Rates

Calculating revenue using existing rates and projecting expenses helps determine the current financial health of the utility. Revenues from current rates and the noticed rates through FY 2025 will not cover operating expenses. In addition, capital spending towards repair & replacement would require the use of reserves as the primary funding source once the remaining debt proceeds are expended, which is not sustainable. Table 21 forecasts existing revenues and expenses through the Rate Setting Period. Table 22 identifies reserve transfers and reserve activity, with projected FY 2024 starting reserve balances shown for each reserve.

Trabuco Canyon Water District – 2023 Cost-of-Service Study

Table 21: Water Financial Plan at Existing Rates

Revenue		FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Rate Revenues						
Fixed Revenue		\$ 1,247,000	\$ 1,247,000	\$ 1,247,000	\$ 1,247,000	\$ 1,247,000
Variable Revenue	Table 18	4,440,000	4,440,000	4,440,000	4,440,000	4,440,000
WRES Revenue		813,000	813,000	813,000	813,000	813,000
Total Rate Revenues		\$ 6,500,000	\$ 6,500,000	\$ 6,500,000	\$ 6,500,000	\$ 6,500,000
Operating Revenues						
Backflow/Fireflow Test		\$ 11,000	\$ 11,000	\$ 11,000	\$ 11,000	\$ 11,000
Late Charges		143,000	143,000	143,000	143,000	143,000
New Account Fee		2,000	2,000	2,000	2,000	2,000
Standby Charges	Table 18	46,000	46,000	46,000	46,000	46,000
BTP Water Sales		717,000	717,000	717,000	717,000	717,000
BTP Sales - O&M		225,000	225,000	225,000	225,000	225,000
BTP Sales - Capital		167,000	167,000	167,000	167,000	167,000
Subtotal Operating Revenues		\$ 1,311,000	\$ 1,311,000	\$ 1,311,000	\$ 1,311,000	\$ 1,311,000
Non-Operating Revenues						
Supplemental Water DIF		\$ -	\$ -	\$ -	\$ -	\$ -
Uncollectable Accounts	Table 18	(26,000)	(26,000)	(26,000)	(26,000)	(26,000)
Property Taxes		1,070,000	1,070,000	1,070,000	1,070,000	1,070,000
Other Non-Operating Revenue		59,000	59,000	59,000	59,000	59,000
Subtotal Non-Operating Revenues		\$ 1,103,000	\$ 1,103,000	\$ 1,103,000	\$ 1,103,000	\$ 1,103,000
Total Revenues		\$ 8,914,000	\$ 8,914,000	\$ 8,914,000	\$ 8,914,000	\$ 8,914,000
O&M Expenses						
Water Supply Costs						
Fixed Purchased Water Costs						
MWDOC		\$ 281,000	\$ 281,000	\$ 281,000	\$ 281,000	\$ 281,000
SMWD	Table 19	16,000	16,000	16,000	16,000	16,000
IRWD		320,000	320,000	320,000	320,000	320,000
Portola Hills		44,000	44,000	44,000	44,000	44,000
Subtotal Fixed Purchased Water Costs		\$ 661,000	\$ 661,000	\$ 661,000	\$ 661,000	\$ 661,000
Variable Purchased Water Costs						
TCWD						
Baker (BTP)		320,000	320,000	320,000	320,000	320,000
SMWD - Treated		32,000	32,000	32,000	32,000	32,000
IRWD - Treated	Table 19	805,000	805,000	805,000	805,000	805,000
Dimension (DWTP)		1,168,000	1,168,000	1,168,000	1,168,000	1,168,000
Portola Hills		202,000	202,000	202,000	202,000	202,000
Water Sales - BTP		742,000	742,000	742,000	742,000	742,000
Subtotal Variable Purchased Water Costs		\$ 3,269,000	\$ 3,269,000	\$ 3,269,000	\$ 3,269,000	\$ 3,269,000
Pumping Costs						
T&D - Electricity	Table 19	\$ 264,000	\$ 285,000	\$ 299,000	\$ 314,000	\$ 330,000
Subtotal Pumping Costs		\$ 264,000	\$ 285,000	\$ 299,000	\$ 314,000	\$ 330,000
Water Supply Costs		\$ 4,194,000	\$ 4,215,000	\$ 4,229,000	\$ 4,244,000	\$ 4,260,000
Operating Expenses						
General and Administrative		\$ 1,279,000	\$ 1,338,000	\$ 1,400,000	\$ 1,464,000	\$ 1,531,000
Salaries & Benefits		2,878,000	3,036,000	3,203,000	3,379,000	3,565,000
Transmission & Distribution	Table 19	438,000	465,000	484,000	504,000	524,000
Treatment		284,000	303,000	317,000	331,000	347,000
CalPERS & OPEB		169,000	163,000	152,000	140,000	125,000
Subtotal Operating Expenses		\$ 5,048,000	\$ 5,305,000	\$ 5,556,000	\$ 5,818,000	\$ 6,092,000
Debt Service						
SRF Loan		\$ 230,382	\$ 230,380	\$ 230,380	\$ 230,381	\$ 230,382
Credit Line	Table 19	101,500	50,750	-	-	-
Refinancing/Proposed New Debt		397,727	517,455	517,455	517,455	517,455
Subtotal Debt Service		\$ 729,609	\$ 798,585	\$ 747,835	\$ 747,836	\$ 747,837
Total Expenses		\$ 9,971,609	\$ 10,318,585	\$ 10,532,835	\$ 10,809,836	\$ 11,099,837
Net Cashflow		\$ (1,057,609)	\$ (1,404,585)	\$ (1,618,835)	\$ (1,895,836)	\$ (2,185,837)

Trabuco Canyon Water District – 2023 Cost-of-Service Study

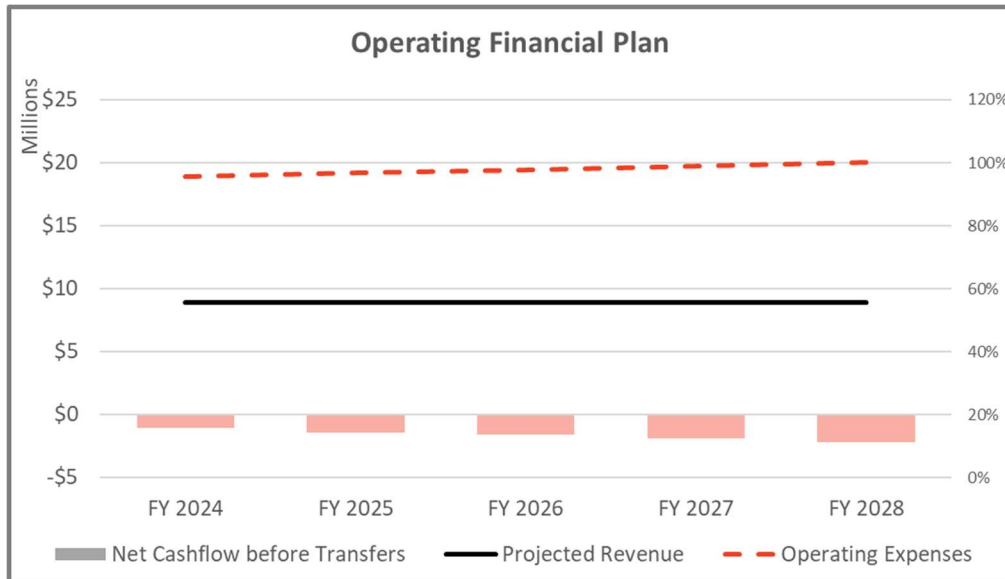
Table 22: Water – Transfers and Reserve Activity at Existing Rates

Transfers	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Net Cashflow	\$ (1,057,609)	\$ (1,404,585)	\$ (1,618,835)	\$ (1,895,836)	\$ (2,185,837)
Transfers to Reserves					
Water Storage DIF	\$0	\$0	\$1,051,427	\$0	\$0
WRES - Wells	1,629,973	0	0	0	0
WRES - Res/DIST	2,676,069	0	0	0	0
Subtotal Transfers to Reserves	\$4,306,041	\$0	\$1,051,427	\$0	\$0
Net Cashflow (after Transfers)	\$ 3,248,432	\$ (1,404,585)	\$ (567,408)	\$ (1,895,836)	\$ (2,185,837)
Operating Reserve	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Beginning Balance	\$ (1,936,270)	\$ 1,312,161	\$ (92,423)	\$ (659,831)	\$ (2,555,667)
Transfers (Net Cashflow)	3,248,432	(1,404,585)	(567,408)	(1,895,836)	(2,185,837)
Transfers from/(to) Capital Reserve	-	-	-	-	-
Ending Balance	\$ 1,312,161	\$ (92,423)	\$ (659,831)	\$ (2,555,667)	\$ (4,741,503)
Capital Reserve	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Beginning Balance	\$ 328,403	\$ 2,010,989	\$ (786,870)	\$ (4,775,416)	\$ (8,184,555)
Plus:					
Use of Existing Debt Proceeds	2,947,600	-	-	-	-
Less:					
CIP	(1,288,176)	(2,797,858)	(3,988,546)	(3,409,139)	(1,717,060)
Transfers from/(to) Water Rate Stabilization	-	-	-	-	-
Subtotal Capital Reserve	\$ 1,987,826	\$ (786,870)	\$ (4,775,416)	\$ (8,184,555)	\$ (9,901,615)
Interest Earnings	23,162	-	-	-	-
Ending Balance	\$ 2,010,989	\$ (786,870)	\$ (4,775,416)	\$ (8,184,555)	\$ (9,901,615)
Water Rate Stabilization Reserve	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Beginning Balance	\$ -	\$ -	\$ -	\$ -	\$ -
Transfers from/(to) Capital Reserve	-	-	-	-	-
Ending Balance	\$ -	\$ -	\$ -	\$ -	\$ -
Ending Unrestricted Reserves Balance	\$ 3,323,150	\$ (879,293)	\$ (5,435,247)	\$ (10,740,222)	\$ (14,643,118)
Restricted Reserves					
Water Storage DIF	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Beginning Balance	\$ 1,051,427	\$ 1,051,427	\$ 1,051,427	\$ -	\$ -
Direct Transfer	-	-	(1,051,427)	-	-
Ending Balance	\$ 1,051,427	\$ 1,051,427	\$ -	\$ -	\$ -
WRES - Wells	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Beginning Balance	\$ 1,629,973	\$ -	\$ -	\$ -	\$ -
Direct Transfer	(1,629,973)	-	-	-	-
Ending Balance	\$ -	\$ -	\$ -	\$ -	\$ -
WRES - Res/Dist	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Beginning Balance	\$ 2,676,069	\$ -	\$ -	\$ -	\$ -
Direct Transfer	(2,676,069)	-	-	-	-
Ending Balance	\$ -	\$ -	\$ -	\$ -	\$ -
SRF Loan	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Beginning Balance	\$ 236,996	\$ 236,996	\$ 236,996	\$ 236,996	\$ 236,996
Direct Transfer	-	-	-	-	-
Subtotal SRF Loan	\$ 236,996	\$ 236,996	\$ 236,996	\$ 236,996	\$ 236,996
Release of Final Debt Payment	-	-	-	-	-
Ending Balance	\$236,996	\$236,996	\$236,996	\$236,996	\$236,996

Trabuco Canyon Water District – 2023 Cost-of-Service Study

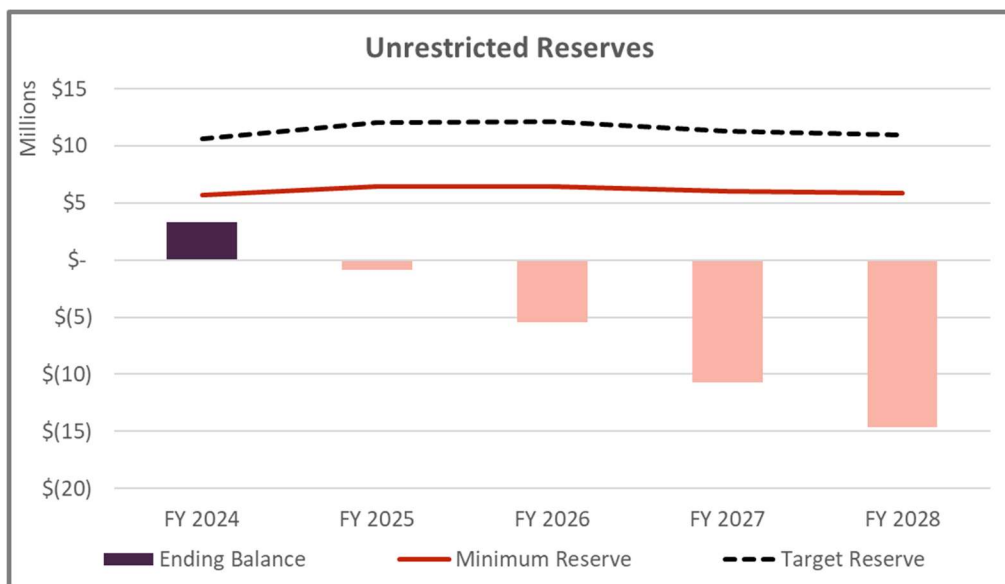
Figure 5 illustrates the operating position of the utility, where O&M expenses are identified with the dashed red trendline, and the horizontal black trendline shows total revenues at existing rates. The bars represent the net operating income, with grey bars reflecting positive net income for capital spending and reserve funding and red bars reflecting an operating deficit absorbed by reserves.

Figure 5: Current Operating Financial Position



With capital spending of \$13.2M over the Rate Setting Period, as shown in Figure 2, reserves would be depleted and there would be no capital funding available by FY 2025. Figure 6 reflects the projected ending balances of undesignated reserves after funding operating and capital projects. Undesignated reserves include Operating, Replacement, Rate Stabilization, and the release of WRES reserves.

Figure 6: Projected Ending Reserves at Existing Rates



Proposed Financial Plan – Water Utility

From our review of the utility's financial outlook at existing rates, a proposed financial plan is developed to fund the multi-year revenue requirements. The proposed financial plan generates approximately \$24.2M in additional revenue over the Rate Setting Period. The additional revenue generates positive net operating income each year to go towards capital spending and satisfy reserve requirements. Table 23 forecasts projected revenues, **with annual revenue adjustments**, and expenses through FY 2028, including \$10M in proposed debt that converts the existing short-term debt of \$7M to long-term debt plus an additional \$3M in new proceeds. Table 24 identifies the projected FY 2024 total starting reserve balances, activity within each reserve (including net income transfer from Table 23, transfers between reserves, use of capacity fees, and annual CIP), and projected ending balances for each fiscal year of the Rate Setting Period.

Trabuco Canyon Water District – 2023 Cost-of-Service Study

Table 23: Proposed Water Financial Plan

Revenue			FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Rate Revenues							
Fixed Revenue			\$ 1,247,000	\$ 1,247,000	\$ 1,247,000	\$ 1,247,000	\$ 1,247,000
Variable Revenue	Table 18		4,440,000	4,440,000	4,440,000	4,440,000	4,440,000
WRES Revenue			813,000	813,000	813,000	813,000	813,000
Total Rate Revenues			\$ 6,500,000	\$ 6,500,000	\$ 6,500,000	\$ 6,500,000	\$ 6,500,000
Additional Revenue (from revenue adjustments):							
Fiscal Year	Revenue Adjustment	Effective Month					
FY 2024	22.0%	July	1,430,000	1,430,000	1,430,000	1,430,000	1,430,000
FY 2025	18.0%	July		1,427,000	1,427,000	1,427,000	1,427,000
FY 2026	18.0%	July			1,684,000	1,684,000	1,684,000
FY 2027	10.0%	July				1,104,000	1,104,000
FY 2028	10.0%	July					1,214,000
Total Additional Revenue			\$ 1,430,000	\$ 2,857,000	\$ 4,541,000	\$ 5,645,000	\$ 6,859,000
Projected Rate Revenues			\$ 7,930,000	\$ 9,357,000	\$ 11,041,000	\$ 12,145,000	\$ 13,359,000
Operating Revenues							
Backflow/Fireflow Test			\$ 11,000	\$ 11,000	\$ 11,000	\$ 11,000	\$ 11,000
Late Charges			143,000	143,000	143,000	143,000	143,000
New Account Fee			2,000	2,000	2,000	2,000	2,000
Standby Charges	Table 18		46,000	46,000	46,000	46,000	46,000
BTP Water Sales			717,000	717,000	717,000	717,000	717,000
BTP Sales - O&M			225,000	225,000	225,000	225,000	225,000
BTP Sales - Capital			167,000	167,000	167,000	167,000	167,000
Subtotal Operating Revenues			\$ 1,311,000	\$ 1,311,000	\$ 1,311,000	\$ 1,311,000	\$ 1,311,000
Non-Operating Revenues							
Supplemental Water DIF			\$ -	\$ -	\$ -	\$ -	\$ -
Uncollectable Accounts	Table 18		(26,000)	(26,000)	(26,000)	(26,000)	(26,000)
Property Taxes			1,070,000	1,070,000	1,070,000	1,070,000	1,070,000
Other Non-Operating Revenue			59,000	59,000	59,000	59,000	59,000
Subtotal Non-Operating Revenues			\$ 1,103,000	\$ 1,106,000	\$ 1,149,000	\$ 1,151,000	\$ 1,152,000
Total Revenues			\$10,344,000	\$11,774,000	\$ 13,501,000	\$ 14,607,000	\$ 15,822,000
O&M Expenses			FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Water Supply Costs							
Fixed Purchased Water Costs							
MWDOC			\$ 281,000	\$ 281,000	\$ 281,000	\$ 281,000	\$ 281,000
SMWD	Table 19		16,000	16,000	16,000	16,000	16,000
IRWD			320,000	320,000	320,000	320,000	320,000
Portola Hills			44,000	44,000	44,000	44,000	44,000
Subtotal Fixed Purchased Water Costs			\$ 661,000	\$ 661,000	\$ 661,000	\$ 661,000	\$ 661,000
Variable Purchased Water Costs							
TCWD							
Baker (BTP)			320,000	320,000	320,000	320,000	320,000
SMWD - Treated			32,000	32,000	32,000	32,000	32,000
IRWD - Treated	Table 19		805,000	805,000	805,000	805,000	805,000
Dimension (DWTP)			1,168,000	1,168,000	1,168,000	1,168,000	1,168,000
Portola Hills			202,000	202,000	202,000	202,000	202,000
Water Sales - BTP			742,000	742,000	742,000	742,000	742,000
Subtotal Variable Purchased Water Costs			\$ 3,269,000	\$ 3,269,000	\$ 3,269,000	\$ 3,269,000	\$ 3,269,000
Pumping Costs							
T&D - Electricity	Table 19		\$ 264,000	\$ 285,000	\$ 299,000	\$ 314,000	\$ 330,000
Subtotal Pumping Costs			\$ 264,000	\$ 285,000	\$ 299,000	\$ 314,000	\$ 330,000
Water Supply Costs			\$ 4,194,000	\$ 4,215,000	\$ 4,229,000	\$ 4,244,000	\$ 4,260,000
Operating Expenses							
General and Administrative			\$ 1,279,000	\$ 1,338,000	\$ 1,400,000	\$ 1,464,000	\$ 1,531,000
Salaries & Benefits			2,878,000	3,036,000	3,203,000	3,379,000	3,565,000
Transmission & Distribution	Table 19		438,000	465,000	484,000	504,000	524,000
Treatment			284,000	303,000	317,000	331,000	347,000
CalPERS & OPEB			169,000	163,000	152,000	140,000	125,000
Subtotal Operating Expenses			\$ 5,048,000	\$ 5,305,000	\$ 5,556,000	\$ 5,818,000	\$ 6,092,000
Debt Service							
SRF Loan			\$ 230,382	\$ 230,380	\$ 230,380	\$ 230,381	\$ 230,382
Credit Line	Table 19		101,500	50,750	-	-	-
Refinancing/Proposed New Debt			568,182	739,221	739,221	739,221	739,221
Subtotal Debt Service			\$ 900,064	\$ 1,020,351	\$ 969,601	\$ 969,602	\$ 969,603
Total Expenses			\$10,142,064	\$10,540,351	\$ 10,754,601	\$ 11,031,602	\$ 11,321,603
Net Cashflow			\$ 201,936	\$ 1,233,649	\$ 2,746,399	\$ 3,575,398	\$ 4,500,397

Trabuco Canyon Water District – 2023 Cost-of-Service Study

Table 24: Water – Transfers and Reserves Activity through FY 2028

Transfers	Source	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Net Cashflow		\$ 201,936	\$ 1,233,649	\$ 2,746,399	\$ 3,575,398	\$ 4,500,397
Transfers to Reserves						
Water Storage DIF	(Dashboard)	\$0	\$0	\$1,051,427	\$0	\$0
WRES - Wells	(Dashboard)	1,629,973	0	0	0	0
WRES - Res/DIST	(Dashboard)	2,676,069	0	0	0	0
Subtotal Transfers to Reserves		\$4,306,041	\$0	\$1,051,427	\$0	\$0
Net Cashflow (after Transfers)		\$ 4,507,977	\$ 1,233,649	\$ 3,797,826	\$ 3,575,398	\$ 4,500,397
Operating Reserve	Source	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Beginning Balance	(Input Tab)	\$ (1,936,270)	\$ 2,278,849	\$ 2,347,397	\$ 2,412,740	\$ 2,481,041
Transfers (Net Cashflow)	(Formula)	4,507,977	1,233,649	3,797,826	3,575,398	4,500,397
Transfers from/(to) Capita	(Formula)	(292,857)	(1,165,101)	(3,732,484)	(3,507,097)	(4,428,890)
Ending Balance		\$ 2,278,849	\$ 2,347,397	\$ 2,412,740	\$ 2,481,041	\$ 2,552,548
Capital Reserve	Source	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Beginning Balance	(Input Tab)	\$ 328,403	\$ 5,336,399	\$ 3,794,043	\$ 3,611,300	\$ 3,782,463
Plus:						
Use of Existing Debt Proce	(Input Tab)	2,947,600	-	-	-	-
Less:						
CIP	(CIP Tab)	(1,288,176)	(2,797,858)	(3,988,546)	(3,409,139)	(1,717,060)
Transfers from/(to) Water	(Formula)	(372)	-	-	-	(1,454,218)
Subtotal Capital Reserve		\$ 5,280,312	\$ 3,703,642	\$ 3,537,980	\$ 3,709,258	\$ 5,040,076
Interest Earnings		56,087	90,400	73,320	73,206	88,225
Ending Balance		\$ 5,336,399	\$ 3,794,043	\$ 3,611,300	\$ 3,782,463	\$ 5,128,301
Water Rate Stabiliza	Source	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Beginning Balance	(Input Tab)	\$ -	\$ 372	\$ 372	\$ 372	\$ 372
Transfers from/(to) Capita	(Formula)	372	-	-	-	1,454,218
Ending Balance		\$ 372	\$ 372	\$ 372	\$ 372	\$ 1,454,590
Ending Unrestricted Reserves Balance		\$ 7,615,620	\$ 6,141,812	\$ 6,024,412	\$ 6,263,876	\$ 9,135,439
Restricted Reserves						
Water Storage DIF	Source	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Beginning Balance	(Input Tab)	\$ 1,051,427	\$ 1,051,427	\$ 1,051,427	\$ -	\$ -
Direct Transfer	(Dashboard)	-	-	(1,051,427)	-	-
Ending Balance		\$ 1,051,427	\$ 1,051,427	\$ -	\$ -	\$ -
WRES - Wells	Source	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Beginning Balance	(Input Tab)	\$ 1,629,973	\$ -	\$ -	\$ -	\$ -
Direct Transfer	(Dashboard)	(1,629,973)	-	-	-	-
Ending Balance		\$ -	\$ -	\$ -	\$ -	\$ -
WRES - Res/Dist	Source	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Beginning Balance	(Input Tab)	\$ 2,676,069	\$ -	\$ -	\$ -	\$ -
Direct Transfer	(Dashboard)	(2,676,069)	-	-	-	-
Ending Balance		\$ -	\$ -	\$ -	\$ -	\$ -
SRF Loan	Source	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Beginning Balance	(Input Tab)	\$ 236,996	\$ 236,996	\$ 236,996	\$ 236,996	\$ 236,996
Direct Transfer	(Dashboard)	-	-	-	-	-
Subtotal SRF Loan		\$ 236,996	\$ 236,996	\$ 236,996	\$ 236,996	\$ 236,996
Release of Final Debt Payn	(Formula)	-	-	-	-	-
Ending Balance		\$236,996	\$236,996	\$236,996	\$236,996	\$236,996

Trabuco Canyon Water District – 2023 Cost-of-Service Study

The operating position based on the proposed financial plan is identified in Figure 7, including debt service coverage. Figure 8 and Figure 9 show the capital plan with funding sources and projected ending reserve balances, respectively.

Figure 7: Water – Proposed Operating Position

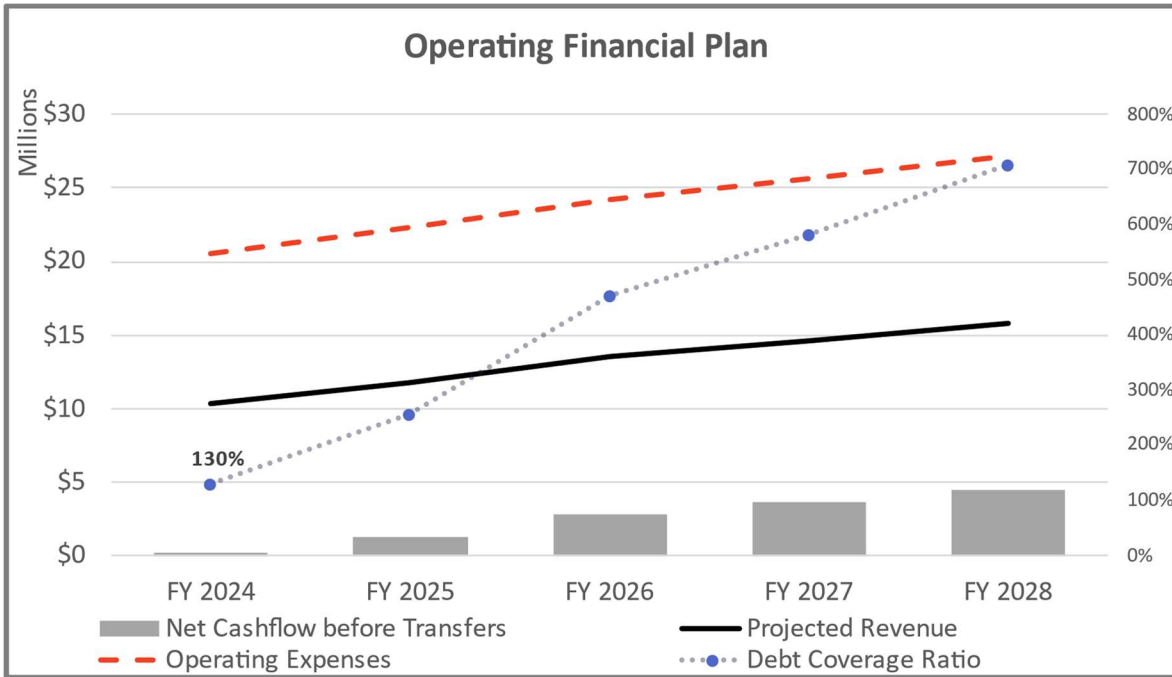
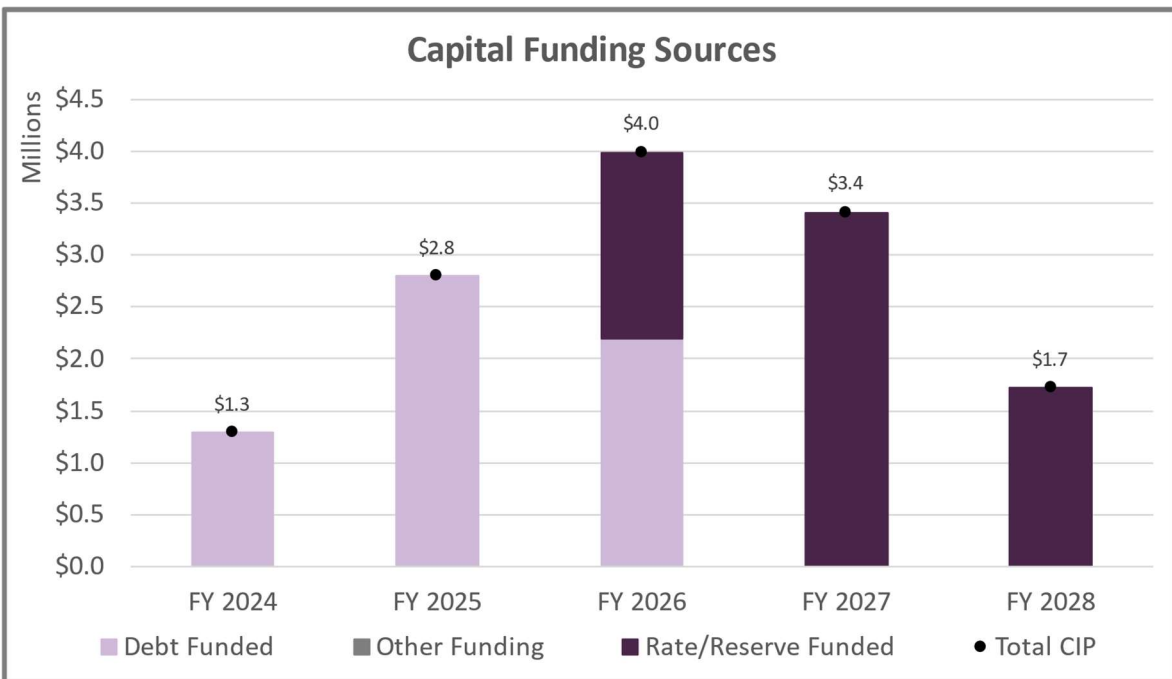
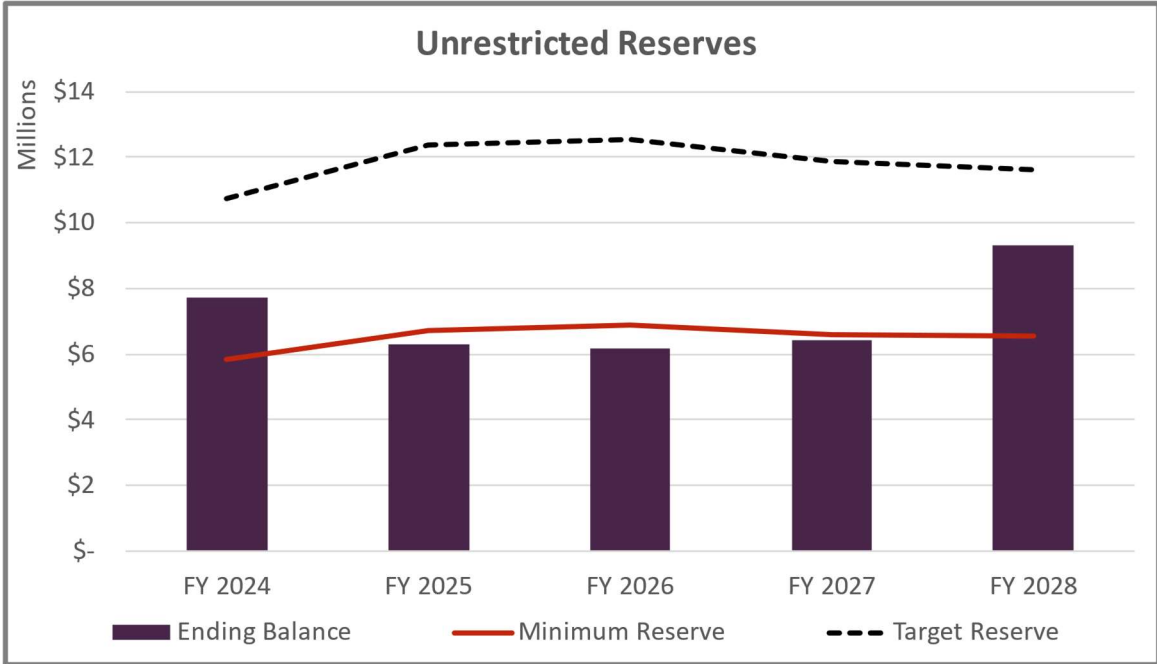


Figure 8: Water – Capital Improvement Plan with Funding Sources



Trabuco Canyon Water District – 2023 Cost-of-Service Study

Figure 9: Water – Proposed Ending Reserves



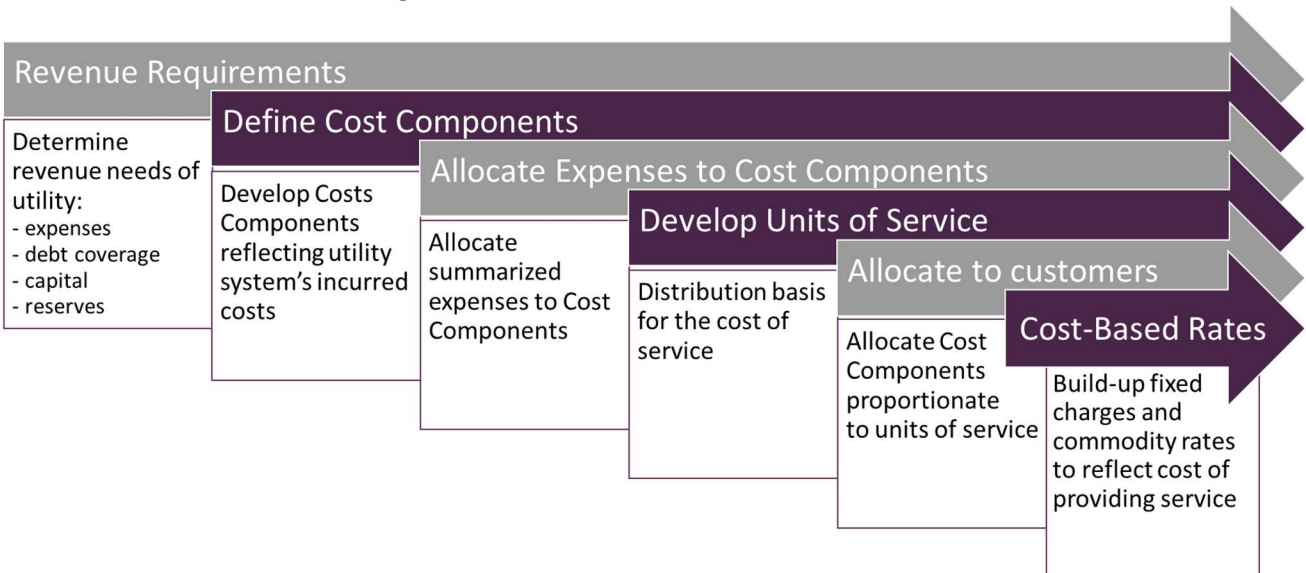
Cost-of-Service Analysis – Water Utility

Cost-of-Service Process

The next step in developing rates is to perform a cost-of-service analysis. This step develops proposed water rates that are cost-based and equitable. Meeting the requirements of Proposition 218 is of paramount importance in developing utility rates. Proposition 218 does not provide a particular methodology for establishing cost-based rates. This study and analysis herein, allocates costs proportionately to each parcel served by the District and derives water rates that adheres to the cost-of-service provisions of Proposition 218.

It is important to understand **how** costs are incurred to determine the most appropriate way to recover them. The following graphic summarizes the cost-of-service process. This process allocates costs incurred to customer classes and tiers based on their proportional share. As a result, the proposed rates are cost-based and reflect the costs incurred to deliver water service to all customers.

Figure 10: Cost-of-Service Process



Revenue Requirements

With FY 2024 as the first year of the proposed rate schedule, revenue requirements are determined for FY 2024 and used for the cost-of-service. Revenue requirements include O&M expenses, available offsets from other operating and non-operating revenues, annual net income, and any mid-year adjustments if rates are implemented after the start of the fiscal year. The proposed revenue adjustments and corresponding rates collectively accumulate the necessary funding over the Rate Setting Period to fund total revenue requirements, including capital, while meeting minimum reserve requirements by FY 2028. The results of the financial plan analysis are summarized in Table 25 and represent the revenue required from rates over the Rate Setting Period.

Trabuco Canyon Water District – 2023 Cost-of-Service Study

Table 25: Water Revenue Requirements

Revenue Requirements	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
	Total	Total	Total	Total	Total
Water Supply Costs					
<i>Fixed Purchased Water Costs</i>					
MWDOC	\$ 281,000	\$ 281,000	\$ 281,000	\$ 281,000	\$ 281,000
SMWD	16,000	16,000	16,000	16,000	16,000
IRWD	320,000	320,000	320,000	320,000	320,000
Portola Hills	44,000	44,000	44,000	44,000	44,000
<i>Variable Purchased Water Costs</i>					
TCWD					
Baker (BTP)	320,000	320,000	320,000	320,000	320,000
SMWD - Treated	32,000	32,000	32,000	32,000	32,000
IRWD - Treated	805,000	805,000	805,000	805,000	805,000
Dimension (DWTP)	1,168,000	1,168,000	1,168,000	1,168,000	1,168,000
Portola Hills	202,000	202,000	202,000	202,000	202,000
Water Sales - BTP	742,000	742,000	742,000	742,000	742,000
<i>Pumping Costs</i>					
T&D - Electricity	264,000	285,000	299,000	314,000	330,000
Total Water Supply Costs	\$ 4,194,000	\$ 4,215,000	\$ 4,229,000	\$ 4,244,000	\$ 4,260,000
Operating Expenses					
General and Administrative	\$ 1,279,000	\$ 1,338,000	\$ 1,400,000	\$ 1,464,000	\$ 1,531,000
Salaries & Benefits	2,878,000	3,036,000	3,203,000	3,379,000	3,565,000
Transmission & Distribution	438,000	465,000	484,000	504,000	524,000
Treatment	284,000	303,000	317,000	331,000	347,000
CalPERS & OPEB	169,000	163,000	152,000	140,000	125,000
Total Operating Expenses	\$ 5,048,000	\$ 5,305,000	\$ 5,556,000	\$ 5,818,000	\$ 6,092,000
Debt Service					
SRF Loan	\$ 230,382	\$ 230,380	\$ 230,380	\$ 230,381	\$ 230,382
Credit Line	101,500	50,750	-	-	-
Refinancing/Proposed New Debt	568,182	739,221	739,221	739,221	739,221
Total Debt Service	\$ 900,064	\$ 1,020,351	\$ 969,601	\$ 969,602	\$ 969,603
Other Funding					
<i>Revenue Offsets</i>					
Operating Revenues	(202,000)	(202,000)	(202,000)	(202,000)	(202,000)
BTP Sales	(1,109,000)	(1,109,000)	(1,109,000)	(1,109,000)	(1,109,000)
Non-Operating Revenues	(1,103,000)	(1,106,000)	(1,149,000)	(1,151,000)	(1,152,000)
Subtotal Revenue Offsets	\$ (2,414,000)	\$ (2,417,000)	\$ (2,460,000)	\$ (2,462,000)	\$ (2,463,000)
<i>Adjustments</i>					
Reserve Funding	\$ 201,936	\$ 1,233,649	\$ 2,746,399	\$ 3,575,398	\$ 4,500,397
Subtotal Adjustments	\$ 201,936	\$ 1,233,649	\$ 2,746,399	\$ 3,575,398	\$ 4,500,397
Total Other Funding	\$ (2,212,064)	\$ (1,183,351)	\$ 286,399	\$ 1,113,398	\$ 2,037,397
Revenue Requirement from Rates	\$ 7,930,000	\$ 9,357,000	\$ 11,041,000	\$ 12,145,000	\$ 13,359,000

Trabuco Canyon Water District – 2023 Cost-of-Service Study

Define Cost Components

The utility incurs costs to accommodate total water demand throughout the year, including water supply costs, treatment, operating expenses, and pumping to name a few. Therefore, to determine the most appropriate way to recover the utility's expenses, cost components are identified to allocate expenses based on how they are incurred. The cost components shown in Figure 11 reflect the cost components used for this study.

Figure 11: Cost Components



Fixed Purchased Water – Fixed monthly water supply costs incurred by the District from its water wholesalers.

Account Services – Fixed expenses that do not necessarily fluctuate based on usage or meter size.

Meter Capacity – O&M expenses, including an executive staff, legal, professional services, and a portion of capital and reserves.

Water Supplies – variable costs related to the District's four water supplies.

Portola Hills – A subsection of the District's service area that allows specific costs allocations to the area.

Delivery – Operating and capital expenses of the water system associated with conveying water to customers throughout the year. These costs tend to vary with the total water used.

Treatment – Treatment costs associated with water from the Dimension water treatment plant.

Pumping – Energy costs incurred to pump water to the five elevation zones.

Allocate Expenses to Cost Components

When allocating expenses to the defined costs components, it is important to have a sound basis as to why an expense was allocated to a certain fixed cost component versus a variable cost component or split between both fixed and variable. The distribution of expenses to the cost components should be straightforward to ensure the method of apportionment is **understandable** and easily **correlates to how expenses are incurred**. A description of each expense category is identified on the next page.

Trabuco Canyon Water District – 2023 Cost-of-Service Study

O&M Expense Categories:

Fixed Purchased Water Costs: Fixed charges from the various water supplies of the District that are incurred irrespective of water usage.

Variable Purchased Water Costs: Variable charges from the various water supplies of the District that vary with total water demand.

Pumping: Energy costs to pump water to higher elevations.

General and Administrative: Administrative expenses associated with the District as a whole, including office supplies, insurance, financial services, legal, professional services, and other miscellaneous expenses.

General and Administrative: Personnel costs of the District

Transmission & Distribution: Costs associated with the daily operation of the water system and related facilities, including capital outlay, lab testing, fuel, tools, and vehicles.

Treatment: Costs associated with the treatment of water from the District’s treatment plant, including energy, chemicals, and repairs & maintenance.

CalPERS & OPEB: Retirement related obligations of the District.

Table 26 summarizes the percent allocation of water supply costs to the water supply cost components. Table 27 reflects the dollars to each cost component based on the percent allocations in Table 26. All the fixed charges are allocated to the Fixed Purchased Water cost component and each variable water supply expense is allocated 100% to its respective water supply cost component to clearly identify the variable cost of each water supply and provide the ability to develop unit rates for each. Pumping costs is also included and allocated between Delivery and Pumping cost components. The amount of electricity costs to pump water to the surface level was allocated to Delivery (96%) with the remainder of 4% allocated to Pumping, which is the costs incurred to pump water to the higher elevations.

Table 26: Water Supply and Pumping Expense Allocation to Cost Components (%)

Water Supply Costs	Methodology / Allocation Basis	Fixed Purchased Water	Baker (BTP)	SMWD - Treated	IRWD - Treated	Dimension (DWTP)	Portola Hills	Delivery	Pumping	Total
<i>Fixed Purchased Water Costs</i>										
MWDOC	Specific	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100%
SMWD	Specific	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100%
IRWD	Specific	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100%
Portola Hills	Specific	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100%
<i>Variable Purchased Water Costs</i>										
<i>TCWD</i>										
IRWD - Untreated	Specific	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100%
Baker (BTP)	Specific	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100%
SMWD - Treated	Specific	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100%
IRWD - Treated	Specific	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	100%
Dimension (DWTP)	Specific	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	100%
Portola Hills	Specific	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
Water Sales - BTP	Specific	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	100%
<i>Pumping Costs</i>										
T&D - Electricity	Specific	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	96.0%	4.0%	100%

Trabuco Canyon Water District – 2023 Cost-of-Service Rate Study

Table 27: Water Supply and Pumping Expense Allocation to Cost Components (\$)

Water Supply Costs	Methodology / Allocation Basis	Fixed Purchased Water	Baker (BTP)	SMWD - Treated	IRWD - Treated	Dimension (DWTP)	Portola Hills	Delivery	Pumping	Total
<i>Fixed Purchased Water Costs</i>										
MWDOC	Specific	\$ 281,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 281,000
SMWD	Specific	16,000	0	0	0	0	0	0	0	16,000
IRWD	Specific	320,000	0	0	0	0	0	0	0	320,000
Portola Hills	Specific	44,000	0	0	0	0	0	0	0	44,000
<i>Variable Purchased Water Costs</i>										
<i>TCWD</i>										
IRWD - Untreated	Specific	0	0	0	0	0	0	0	0	0
Baker (BTP)	Specific	0	320,000	0	0	0	0	0	0	320,000
SMWD - Treated	Specific	0	0	32,000	0	0	0	0	0	32,000
IRWD - Treated	Specific	0	0	0	805,000	0	0	0	0	805,000
Dimension (DWTP)	Specific	0	0	0	0	1,168,000	0	0	0	1,168,000
Portola Hills	Specific	0	0	0	0	0	202,000	0	0	202,000
Water Sales - BTP	Specific	0	0	0	0	0	0	742,000	0	742,000
<i>Pumping Costs</i>										
T&D - Electricity	Specific	0	0	0	0	0	0	253,445	10,555	264,000
Total Allocation (\$)		\$ 661,000	\$ 320,000	\$ 32,000	\$ 805,000	\$ 1,168,000	\$ 202,000	\$ 995,445	\$ 10,555	\$ 4,194,000

Table 28 summarizes the percent allocation of O&M revenue requirements to the cost components, and Table 29 uses the percent allocations in Table 28 to allocate expenses in dollars to each cost component. The General and Administrative expense is allocated 100% to the fixed cost components of Account Services and Meter Capacity, with the percentage of cost associated with legal and professional services assigned to Meter Capacity (40.7%), with the remaining 59.3% allocated to Account Services. Legal and Professional Services encompass matters of the entire system and therefore, assigned to Meter Capacity, which reflects the demand on the entire system. Salaries & Benefits were split between fixed and variable, with executive staff, such as the General Manager and the Assistance General Manager, assigned to Meter Capacity and the remainder of District staffing allocated to Delivery. Executive Staff accounts for 35% of total personnel costs and 65% includes staffing in the field.

Table 28: O&M Expense Allocation to Cost Components (%)

Operating Expenses	Methodology / Allocation Basis	Fixed Purchased Water	Account Services	Meter Capacity	Delivery	Treatment	Total
General and Administrative	Specific	0.0%	59.3%	40.7%	0.0%	0.0%	100%
Salaries & Benefits	Specific	0.0%	0.0%	35.0%	65.0%	0.0%	100%
Transmission & Distribution	Average Day	0.0%	0.0%	0.0%	100.0%	0.0%	100%
Treatment	Specific	0.0%	0.0%	0.0%	0.0%	100.0%	100%
CalPERS & OPEB	Specific	0.0%	100.0%	0.0%	0.0%	0.0%	100%

Table 29: O&M Expense Allocation to Cost Components (\$)

Operating Expenses	Methodology / Allocation Basis	Fixed Purchased Water	Account Services	Meter Capacity	Delivery	Treatment	Total
General and Administrative	Specific	\$ -	\$ 759,000	\$ 520,000	\$ -	\$ -	\$ 1,279,000
Salaries & Benefits	Specific	0	0	1,007,300	1,870,700	0	2,878,000
Transmission & Distribution	Average Day	0	0	0	438,000	0	438,000
Treatment	Specific	0	0	0	0	284,000	284,000
CalPERS & OPEB	Specific	0	169,000	0	0	0	169,000
Total Allocation (\$)		\$ -	\$ 928,000	\$ 1,527,300	\$ 2,308,700	\$ 284,000	\$ 5,048,000
O&M Allocation (%)		0.0%	18.4%	30.3%	45.7%	5.6%	100%

Trabuco Canyon Water District – 2023 Cost-of-Service Study

The District's debt was allocated to Meter Capacity because the debt is used for capital improvements of the water system, and Meter Capacity is a fixed cost recovery component that reflects the demand each meter places on the water system. Table 30 identifies the percent allocation of the debt expense to the cost components, and Table 31 reflects the debt expense in dollars.

Table 30: Water Debt Allocation to Cost Components (%)

Debt Service	Methodology / Allocation Basis	Fixed Purchased Water	Account Services	Meter Capacity	Delivery	Treatment	Total
SRF Loan	Specific	0.0%	0.0%	100.0%	0.0%	0.0%	100%
Refinancing/Proposed New Debt	Specific	0.0%	0.0%	100.0%	0.0%	0.0%	100%

Table 31: Water Debt Allocation to Cost Components (\$)

Debt Service	Methodology / Allocation Basis	Fixed Purchased Water	Account Services	Meter Capacity	Delivery	Treatment	Total
SRF Loan	Specific	\$ -	\$ -	\$ 230,382	\$ -	\$ -	\$ 230,382
Refinancing/Proposed New Debt	Specific	0	0	568,182	0	0	568,182
Total Allocation (\$)		\$ -	\$ -	\$ 798,564	\$ -	\$ -	\$ 798,564

Other Funding includes other operating and non-operating revenues, water sales to San Clemente and Reserve Funding. For water sales to San Clemente, a portion of revenue may be used to offset the fixed costs incurred by the District associated with the Baker water treatment plant. Based on these water sales, approximately 33% of the revenue may be used to offset the Baker fixed costs and the remaining amount covers the variable expenses. All other items are allocated based on O&M percentages derived in Table 29 to allocate revenue offsets and reserve funding proportionately to the cost components. Table 32 summarizes the percent allocation to the cost components, and Table 33 uses the percent allocations in Table 32 to allocate expenses in dollars to each cost component. Table 34 summarizes the revenue requirement derived in Table 25 by cost component.

Trabuco Canyon Water District – 2023 Cost-of-Service Study

Table 32: Other Funding to Cost Components (%)

Other Funding	Methodology / Allocation Basis	Fixed Purchased Water	Account Services	Meter Capacity	Delivery	Treatment	Total
<i>Revenue Offsets</i>							
Operating Revenues	O&M Allocation	0.0%	18.4%	30.3%	45.7%	5.6%	100%
BTP Sales	Specific	33.1%	0.0%	0.0%	66.9%	0.0%	100%
Non-Operating Revenues	O&M Allocation	0.0%	18.4%	30.3%	45.7%	5.6%	100%
<i>Adjustments</i>							
Reserve Funding	O&M Allocation	0.0%	18.4%	30.3%	45.7%	5.6%	100%

Table 33: Other Funding Allocation to Cost Components (\$)

Other Funding	Methodology / Allocation Basis	Fixed Purchased Water	Account Services	Meter Capacity	Delivery	Treatment	Total
<i>Revenue Offsets</i>							
Operating Revenues	O&M Allocation	\$ -	\$ (37,135)	\$ (61,116)	\$ (92,385)	\$ (11,365)	\$ (202,000)
BTP Sales	Specific	(367,000)	0	0	(742,000)	0	(1,109,000)
Non-Operating Revenues	O&M Allocation	0	(202,770)	(333,719)	(504,456)	(62,055)	(1,103,000)
<i>Adjustments</i>							
Reserve Funding	O&M Allocation	0	55,782	91,806	138,776	17,071	303,436
Total Allocation (\$)		\$ (367,000)	\$ (184,123)	\$ (303,029)	\$ (1,200,065)	\$ (56,348)	\$ (2,110,564)

Table 34: FY 2024 Water Cost-of-Service Requirements by Cost Component

Revenue Requirement	Fixed Purchased Water	Account Services	Meter Capacity	Baker (BTP)	SMWD - Treated	IRWD - Treated	Dimension (DWTP)	Portola Hills	Delivery	Pumping	Total
Water Supply	\$ 661,000	\$ -	\$ -	\$ 320,000	\$ 32,000	\$ 805,000	\$ 1,168,000	\$ 202,000	\$ 995,445	\$ 10,555	\$ 4,194,000
Operating	0	928,000	1,527,300	0	0	0	0	0	2,308,700	0	5,048,000
Debt Service	0	0	900,064	0	0	0	0	0	0	0	900,064
Other Funding	(367,000)	(202,782)	(333,738)	0	0	0	0	0	(1,246,486)	0	(2,212,064)
COS Requirement	\$ 294,000	\$ 725,218	\$ 2,093,626	\$ 320,000	\$ 32,000	\$ 805,000	\$ 1,168,000	\$ 202,000	\$ 2,057,659	\$ 10,555	\$ 7,930,000

Rate Design – Water Utility

Develop Units of Service

Unit rates for each cost component are derived by spreading the corresponding revenue requirements over appropriate units of service (distribution basis). This approach provides a clear connection between costs incurred and the proportionate share attributable to each customer class, corresponding tier, and customer account. When designing rates, the most critical component is to connect costs to the proposed rates, resulting in a rate structure that is cost-based and in compliance with Proposition 218. The previous section summarized costs by expense category and then allocated to cost components based on how each cost is incurred. The next step in designing rates is to allocate each cost component to customers in relation to their use of the system and facilities. The method of apportionment considers each customer's share of system costs and is reflected by the units of service used to equitably distribute the cost components to each customer account. The distribution basis varies by cost component and includes total accounts, Meter Equivalents (MEs), which reflect demand placed on the system based on meter size, total water sales, and usage by tier. In Table 35 each meter size was assigned an equivalency factor using the flow characteristics of a 5/8" meter. The District's meter inventory was reviewed, and 3/4" meters were used in the past by a developer for 871 accounts, but it wasn't a requirement, and these accounts could've been served by a 5/8" meter. Therefore, historically, 3/4" meters have been assigned the same gallons per minute (gpm) as a 5/8". Based on the District's meter inventory, the safe maximum operating flow capacity for these meter types, as identified in the AWWA M1 Manual, 6th Edition, Table B-2, were used for determining meter equivalencies.

The safe maximum operating flow capacity for each meter was divided by the 5/8" meters' safe operating flow capacity of 20 gpm to determine the equivalent meter ratio. In other words, the calculations convert all larger sized meters to an equivalent number of 5/8" meters based on the safe operating flow capacity of 20 gpm. The Capacity Ratio represent the potential flow through each meter size compared to the flow through the base 5/8" meter to establish parity between meter sizes. Total MEs are determined by multiplying the number of meters by the Capacity Ratio and then multiplying the result by the billing periods in a year (12 billing periods)⁴. Table 35 summarizes the units of service related to Total Annual Bills and Annual MEs.

⁴ The District bills customers on a monthly basis; therefore, there are 12 billing periods during the fiscal year.

Trabuco Canyon Water District – 2023 Cost-of-Service Study

Table 35: Accounts and Meter Equivalents

Meter Size	AWWA Capacity (gpm)	Capacity Ratio	Number of Accounts	Meter Equivalents
	[A]	[B] = A ÷ 20	[C]	[D] = B x C
5/8"	20	1.00	2,624	2,624
3/4"	20	1.00	871	871
1"	50	2.50	394	985
1 1/2"	100	5.00	44	220
2"	160	8.00	145	1,160
3"	350	17.50	7	123
4"	630	31.50	3	95
6"	1,300	65.00	2	130
Total			4,090	6,207
Annual Units (Total x 12 Bills)			49,080	74,484

Total usage by customer class and tier must be known to derive the units of service for allocating variable costs. Table 36 provides the projected usage for FY 2024 from Table 12, broken out by customer class and proposed tiers for Single-Family and Multi-Family.

Table 36: Projected Usage by Customer Class and Tier (HCF)

Customer Class & Tier	Tier Definitions (HCF)	Projected Usage (HCF)
Single-Family		
Tier 1	0 - 13	436,062
Tier 2	14 - 21	127,345
Tier 3	>21	100,066
Multi-Family		
Tier 1	0 - 6	10,829
Tier 2	>6	1,246
Commercial	Uniform	34,008
Irrigation	Uniform	143,718
Agricultural	Uniform	95,593
Portola Hills	Uniform	63,022
Total		1,011,889

Trabuco Canyon Water District – 2023 Cost-of-Service Study

Table 37: Projected Usage by Pumping Zone (HCF)

Pump Zone	All Pumping Usage (HCF)
Zone 1 - Base	932,738
Zone 2 - Topanga / Saddlecrest	8,282
Zone 3 - Canyon Creek	2,179
Zone 4 - Falcon	2,632
Zone 5 - Joplin	3,036
Total	948,867

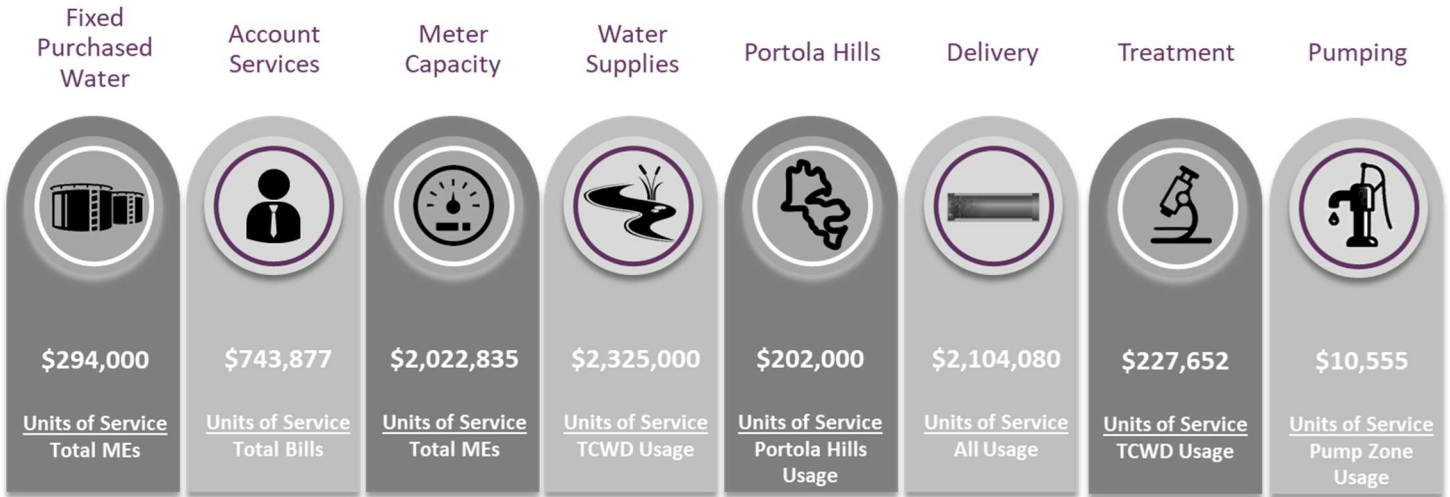
Table 36 identifies the tiered usage for Single-Family and Multi-Family based on the revised tiered allotments. The Tier 1 allotments for both residential customer classes are based on the lowest winter usage period, primarily comprised of indoor use, as outdoor watering needs are limited in the winter. Single-Family Residential Tier 1 equals 13 HCF per dwelling unit, and Multi-Family Residential equals 6 HCF per dwelling unit. Single-Family Residential also includes two additional tiers, with Tier 2 covering the maximum month (August) usage per dwelling unit equal to 21 HCF, and Tier 3 capturing all remaining usage over Tier 2.

Multi-Family only includes two tiers because multi-family units have limited outdoor needs. Therefore, a two-tiered rate structure is recommended and proposed as part of this study. The tiered usage characteristics will be used to further apportion the total variable costs allocated to each residential customer class to the corresponding tiers. Allocating variable costs to customer classes first, then to tiers, ensures each customer class is only recovering its proportionate share of costs. The proposed Commercial, Irrigation, Agricultural, and Portola Hills rate structure reflects a uniform rate that captures each customer class's proportional share of the revenue requirements over its corresponding usage. A uniform rate is recommended for Commercial to enhance equity between accounts within the customer class due to the broad spectrum of commercial uses that vary substantially with water needs that wouldn't fit into one tiered rate structure applied to all. Irrigation and Agricultural are also structured as uniform rates because the landscape areas and crop areas, respectively, would need to be known for structuring appropriate tiered rates. Lastly, Portola Hills is structured as a uniform a rate because they currently only receive one water supply source, and a tiered rate structure would not reflect different rates as each tier would reflect the same water supply.

With the units of service shown in Table 35, Table 36, and Table 38, we can select the appropriate distribution basis for each cost component. Figure 12 identifies the total revenue requirements by cost component from Table 34 and the corresponding units of service.

Trabuco Canyon Water District – 2023 Cost-of-Service Study

Figure 12: Distribution Basis and Units of Service by Cost Component



Using the FY 2024 revenue requirements, the cost-of-service allocates expenses to customers based on the service demands that each place on the system (cost causation). This approach ensures that each customer proportionately shares in the financial obligation of the water utility. For the following unit rate computations for each cost component, unit rates were rounded up to the nearest penny.

Fixed Cost Recovery

Fixed Purchased Water

Fixed costs are incurred by the District from its various available water supplies regardless of total amount of water used. Therefore, these costs are spread based on meter size similar to how the costs are incurred by the District. The revenue requirement for Fixed Purchased Water is apportioned based on meter size as represented by total annual MEs (Table 35) in Table 39.

Table 38: FY 2024 Fixed Purchased Water Monthly Unit Rate

Fixed Purchased Water Component Unit Rate	
Revenue Requirement	\$ 294,000
÷ Total ME's	74,484
Monthly Unit Rate	\$3.95

Trabuco Canyon Water District – 2023 Cost-of-Service Study

Account Services

Each customer incurs Account Services costs regardless of the type of land use, meter size, or total amount of water used. These costs should be spread equally across all accounts. This is achieved by using the distribution basis of Total Bills. Total Bills are determined by multiplying the total accounts by the number of billing periods over the fiscal year (12 billing periods). Therefore, the revenue requirement for Account Services is apportioned based on the Total Bills (Table 35) to determine the monthly unit cost-of-service shown in Table 39.

Table 39: FY 2024 Account Services Monthly Unit Rate

Account Services Component Unit Rate	
Revenue Requirement	\$ 725,218
÷ Total Bills	49,080
Monthly Unit Rate	\$14.78

Meter Capacity

The Meter Capacity Component includes operational costs, debt and a portion of system-wide operations capital and reserve funding. The revenue requirement for Meter Capacity is apportioned based on meter size. Larger sized meters can generate a greater demand on the system from the amount of potential water flow that may pass through the meter in gpm. The revenue requirement for Meter Capacity is apportioned to meter size as represented by total annual MEs as shown in Table 40.

Table 40: FY 2024 Meter Capacity Monthly Unit Rate

Meter Capacity Component Unit Rate	
Revenue Requirement	\$ 2,093,626
÷ Total ME's	74,484
Monthly Unit Rate	\$28.11

Trabuco Canyon Water District – 2023 Cost-of-Service Study

Variable Cost Recovery

The remaining cost components are recovered through the variable rates. The proposed variable rate structure includes tiers for Single-Family Residential and Multi-Family Residential and a uniform rate for Non-Residential. Tiered rates differ solely by water supplies available to serve each tier, with the lowest water supply unit rate applied to tier 1 followed by more expensive water supplies as total water demand increases through the higher tiers. As part of this study, a detailed analysis was conducted to first separate fixed costs and variable costs of each water supply, and then a decoupling of variable costs between each water supply source to derive water supply unit rates. Through this approach, water supply variable costs were separated between Baker Treatment Plant (BTP), SMWD Treated, IRWD – Treated, and Dimension Treatment Plant (DWTP). The District’s water loss is 7.1%, which is caused by evaporation, exfiltration, and leaks/breaks in the distribution system. The water loss percentage was applied to the water production to derive the net amount of each water supply available to serve customer demands. Table 41 summarizes the unit rates for each water supply available to the District. Appendix A includes a detailed analysis of water supply costs.

Table 41: FY 2024 Water Supply Unit Rates per HCF

Water Supplies	Production/Purchases [A] = Acre Feet	Water Loss [B]	Net Water Supply [C] = A x (1-B)	Available Supply (AS) [D] = C x 435.6	Revenue Requirement [E]	Unit Rate [F] = E ÷ D
Baker (BTP)	368	7.1%	342	149,104	\$ 320,000	\$2.15
SMWD - Treated	26	7.1%	24	10,519	32,000	\$3.04
IRWD - Treated	591	7.1%	549	239,280	805,000	\$3.36
Dimension (DWTP)	1,359	7.1%	1,263	549,964	1,168,000	\$2.12
Total Water Supply	2,344		2,178	948,867	\$ 2,325,000	

Unit rates must be determined for each tier that corresponds to the water source serving the usage within each tier. Table 42 summarizes the amount of water - by source - used to serve total water demand in each tier and the corresponding unit rate rounded up to the nearest penny. Each customer class is allocated a proportionate share of each water supply (except Portola Hills which only receives water from IRWD as a pass through and is shown separately) based on percentage of total water sales. As such, irrespective of a customer class rate structure reflecting tiers or uniform rates, each customer class is receiving and paying its fair share of water supplies. As shown in Table 42, Dimension (DWTP) cannot cover the total demand in Tier 1 of Single-Family on its own and a portion of Baker (BTP) is required to meet the total demand in Single-Family Tier 1. Similarly, Single-Family Tier 2 requires Baker (BTP), all of SMWD – Treated, and a portion of IRWD – Treated to meet total demand. Single-Family Tier 3 uses IRWD – Treated as all other water supplies are no longer available. This approach is also applied to Multi-Family. For non-residential customer classes (Commercial, Irrigation, and Agricultural), all four water supplies are applied to each customer class based on their percentage of total water demand (Table 42 – Column B).

Trabuco Canyon Water District – 2023 Cost-of-Service Rate Study

Table 42: FY 2024 Customer Class and Tier Water Supply Unit Rates per HCF

Water Supply Allocation	Projected Usage (HCF)	% Allocation	Dimension (DWTP)	Baker (BTP)	SMWD - Treated	IRWD - Treated	Total Cost	Unit rate
	[A]	[B] = A as %	[C] = AS x B	[D] = AS x B	[E] = AS x B	[F] = AS x B	[G] = Sum Product (Unit Rate x Usage)	[H] = G ÷ A
Available Supply (AS)			549,964	149,104	10,519	239,280		
Effective Unit Cost (\$/HCF)			\$2.12	\$2.15	\$3.04	\$3.36		
Single-Family								
Tier 1	436,062		384,550	51,512	-	-	\$ 927,250	\$2.13
Tier 2	127,345		-	52,745	7,355	67,244	361,802	\$2.85
Tier 3	100,066		-	-	-	100,066	336,649	\$3.37
Subtotal Single-Family	663,473	69.9%	384,550	104,258	7,355	167,311	1,625,702	
Multi-Family								
Tier 1	10,829		6,999	1,897	134	1,799	\$ 25,396	\$2.35
Tier 2	1,246		-	-	-	1,246	4,192	\$3.37
Subtotal Multi-Family	12,075	1.3%	6,999	1,897	134	3,045	29,587	
Commercial	34,008	3.6%	19,711	5,344	377	8,576	\$ 83,329	\$2.46
Irrigation	143,718	15.1%	83,299	22,584	1,593	36,242	\$ 352,151	\$2.46
Agricultural	95,593	10.1%	55,406	15,021	1,060	24,106	\$ 234,231	\$2.46
Total	948,867	100%	549,964	149,104	10,519	239,280	\$ 2,325,000	

Portola Hills

Based on the location of Portola Hills and connectivity to IRWD, this area of the District only receives water from IRWD as a fully-loaded pass through. Therefore, the Portola Hills cost component isolates water supply costs attributable to Portola Hills customers. The cost includes a 5% surcharge by IRWD for water loss and cost associated with pumping. The revenue requirement for Portola Hills is apportioned based on the projected total potable usage identified in Table 36 to determine the unit cost-of-service, as shown in Table 44.

Table 43: FY 2024 Portola Hills Cost Unit Rate per HCF

Portola Hills Component Unit Rate

Revenue Requirement	\$	202,000
÷ Portola Usage		63,022
Unit Rate		\$3.21

Trabuco Canyon Water District – 2023 Cost-of-Service Study

Delivery

Delivery costs are incurred based on the total volume of water produced and delivered to customers throughout the year. Therefore, the revenue requirement for Delivery is apportioned based on the projected total potable usage identified in Table 36 to determine the unit cost-of-service, irrespective of tier, as shown in Table 44.

Table 44: FY 2024 Delivery Cost Unit Rate per HCF

Delivery Component Unit Rate		
Revenue Requirement	\$	2,057,659
÷ All Usage		1,011,889
Unit Rate		\$2.04

Treatment

Treatment costs of the District are associated with the operations of the Dimension water treatment plant. These costs are recovered over all water usage, except for Portola Hills as their primary water source is Irvine Ranch Water District. Therefore, the revenue requirement for Treatment is apportioned over projected total usage identified in Table 36, less Portola Hills (TCWD Usage) to determine the unit cost-of-service, as shown in Table 45.

Table 45: FY 2024 Treatment Unit Rate per HCF

Treatment Component Unit Rate		
Revenue Requirement	\$	221,942
÷ TCWD Usage		948,867
Unit Rate		\$0.23

Trabuco Canyon Water District – 2023 Cost-of-Service Study

FY 2024 Cost-of-Service Rates – Water Utility

Proposed FY 2024 Monthly Fixed Charges

Table 46 reflects the combined charges of the District's proposed fixed charge of Fixed Purchased Water, Account Services and Meter Capacity. Account Services are constant for all meter sizes. Fixed Purchased Water and Meter Capacity are multiplied by the corresponding Capacity Ratios of each meter size to derive the FY 2024 fixed charges.

Table 46: FY 2024 Monthly Fixed Charges by Meter Size

Meter Size	Capacity Ratio	TCWD Meters	Fixed Purchased Water	Account Services	Meter Capacity	FY 2024 Proposed Base Fixed Charge
	[A]		[B] = \$3.95 x A	[C] = \$15.16	[D] = 27.16 x A	[E] = B+C+D
5/8"	1.00	2,161	\$ 3.95	\$ 14.78	\$ 28.11	\$ 46.84
3/4"	1.00	803	3.95	14.78	28.11	46.84
1"	2.50	394	9.88	14.78	70.28	94.93
1 1/2"	5.00	44	19.75	14.78	140.55	175.08
2"	8.00	145	31.60	14.78	224.88	271.26
3"	17.50	7	69.13	14.78	491.93	575.83
4"	31.50	3	124.43	14.78	885.47	1,024.67
6"	65.00	2	256.75	14.78	1,827.15	2,098.68

Proposed FY 2024 Variable Rates

The proposed variable rates for FY 2024 are shown in Table 47 for each customer class and tier, reflecting the combined rate components of Water Supply, Portola Hills, Delivery and Treatment.

Table 47: FY 2024 Variable Rates by Customer Class and Tier (HCF)

Customer Class & Tier	Tier Definitions (HCF)	Projected Usage (HCF)	Water Supply [A]	Portola Hills [B]	Delivery [C]	Treatment [D]	FY 2024 Proposed Base Variable Rate [E] = A+B+C+D
Single-Family							
Tier 1	0 - 13	436,062	\$ 2.13	\$ -	\$ 2.04	\$ 0.23	\$ 4.40
Tier 2	14 - 21	127,345	2.85	-	2.04	0.23	5.12
Tier 3	>21	100,066	3.37	-	2.04	0.23	5.64
Multi-Family							
Tier 1	0 - 6	10,829	\$ 2.35	\$ -	\$ 2.04	\$ 0.23	\$ 4.62
Tier 2	>6	1,246	3.37	-	2.04	0.23	5.64
Commercial	Uniform	34,008	\$ 2.46	\$ -	\$ 2.04	\$ 0.23	\$ 4.73
Irrigation	Uniform	143,718	\$ 2.46	\$ -	\$ 2.04	\$ 0.23	\$ 4.73
Agricultural	Uniform	95,593	\$ 2.46	\$ -	\$ 2.04	\$ 0.23	\$ 4.73
Portola Hills	Uniform	63,022	\$ -	\$ 3.21	\$ 2.04	\$ -	\$ 5.25

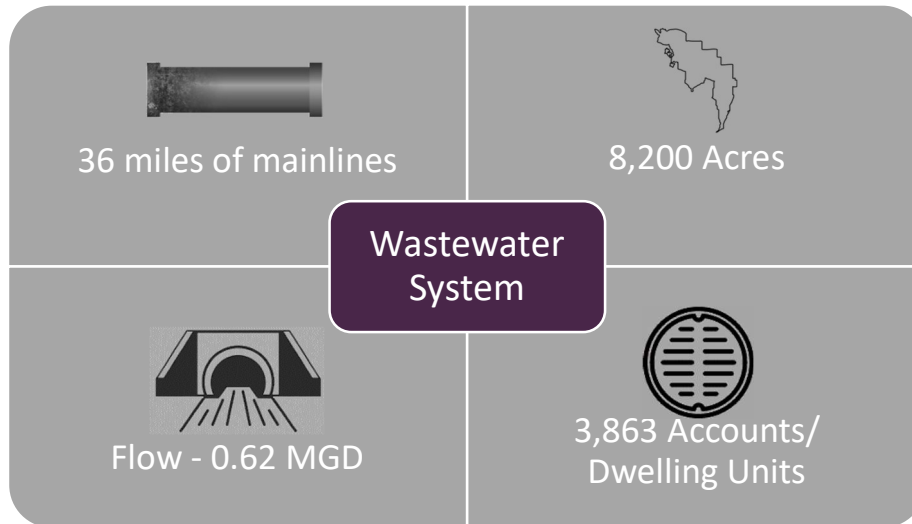
Trabuco Canyon Water District – 2023 Cost-of-Service Study

Wastewater Utility

Wastewater System

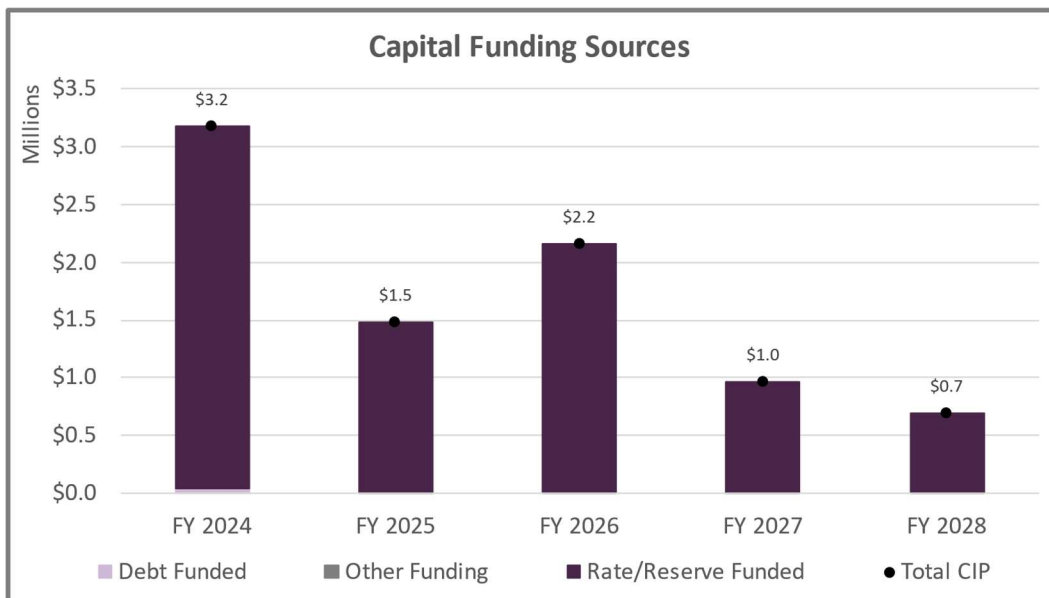
The District owns and operates gravity sewer pipelines and force mains, sewer lift stations, and pump stations and treats collected wastewater at its Robinson Wastewater Treatment Plant (WWTP) and Chiquita WWTP.

Figure 13: Wastewater System



The District recently completed asset management plan identified capital project needs of \$15M over the next ten years. Through the District's review of the asset management plan and prioritizing projects between critical, less critical, and non-critical improvements, a final proposed Capital Improvement Plan (CIP) for this study was provided requiring \$15M in capital spending over the next ten years, of which \$8.5M is needed during the Rate Setting Period. Figure 14 shows the District's CIP through FY 2028 with funding sources.

Figure 14: Wastewater Capital Improvement Plan



Trabuco Canyon Water District – 2023 Cost-of-Service Study

Customers

At the start of FY 2023, the District had 3,863 active billable units, which includes total residential dwelling units and commercial accounts. Table 48 provides a summary of billable units by customer class.

Table 48: Wastewater Billable Units by Customer Class

Customer Class	Accounts [A]	Billing Units [B]	Annual Billing Units [C] = B x 12
Residential	3,664	3,819	45,828
Commercial	44	44	528
Total	3,708	3,863	46,356

The current wastewater rate structure consists of monthly fixed charges charged against each billing unit, which includes accounts and additional dwelling units, and variable rates charged against commercial accounts. Variable rates are separated into three different categories of strength levels of discharge – Low, Medium, and High. Existing charges and rates are identified in Table 49.

Table 49: Existing Wastewater Monthly Fixed Charges

Flat Charges (\$/Month)	
Customer Class	Existing
Residential	\$ 39.56
Commercial	\$ 5.14

Variable Rates (\$/HCF)	
Customer Class	Existing
Commercial	
Low	\$ 5.69
Medium	7.21
High	9.44

Financial Plan Overview - Wastewater Utility

Financial Planning Assumptions

Developing a long-term financial plan requires understanding the utility's financial position by evaluating existing revenue streams, ongoing expenses, how those expenses will change over time, new strategic objectives, and reserve policies. These considerations require certain assumptions for projecting revenues, expenses, and expected ending fund balances. Table 50 identifies assumptions used for forecasting revenues, and Table 51 identifies assumptions used for forecasting increases in expenses through the Rate Setting Period.

Table 50: Wastewater Assumptions for Forecasting Revenues

Key Assumptions	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Revenue Escalation					
Non-Rate Revenues	0%	0%	0%	0%	0%
Reserve Interest	2.0%	2.0%	2.0%	2.0%	2.0%
Account Growth	0%	0%	0%	0%	0%
Billing Units	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Single-Family	3,633	3,633	3,633	3,633	3,633
Multi-Family	186	186	186	186	186
Commercial	44	44	44	44	44
Total Billing Units	3,863	3,863	3,863	3,863	3,863
Billed Flow by Customer Class	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Commercial					
Low	7,784	7,784	7,784	7,784	7,784
Medium	5,752	5,752	5,752	5,752	5,752
High	1,615	1,615	1,615	1,615	1,615
Total Billed Flow (HCF)	15,151	15,151	15,151	15,151	15,151

Table 51: Wastewater Assumptions for Forecasting Expense Requirements⁵

Key Assumptions	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Expenditure Escalation					
Benefits	7.00%	7.00%	7.00%	7.00%	7.00%
Capital Construction	6.63%	3.93%	3.93%	3.93%	3.93%
Energy Costs	8.00%	8.00%	5.00%	5.00%	5.00%
Fuel	20.00%	20.00%	5.00%	5.00%	5.00%
General Costs	6.20%	3.95%	3.95%	3.95%	3.95%
Non-Inflated	0.00%	0.00%	0.00%	0.00%	0.00%
Retirement	5.00%	5.00%	5.00%	5.00%	5.00%
Salaries	5.00%	5.00%	5.00%	5.00%	5.00%

⁵ Capital Construction inflation and General Costs for FY 2024 and FY 2025 were increased to 6.6% and 6.2%, respectively to account for recent annual increase due to inflation. Outer years reduce to 3.93% and 3.95%, reflecting the 5-year average of the Engineer's News Record – CCI index and the LA Consumer Price Index, respectively.

Trabuco Canyon Water District – 2023 Cost-of-Service Study

Current Financial Position

Revenues

Based on the forecasting assumptions, revenues were calculated using billable units (Table 48) and existing wastewater rates (Table 49). Table 52 shows the calculated revenues for FY 2024 through the Rate Setting Period. Table 53 summarizes calculated rate revenues (rounded to thousands) and other non-rate revenues available through the Rate Setting Period.

Table 52: Wastewater Calculated Rate Revenues

Fixed Revenues	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Base Fixed Charge					
Single-Family	\$ 1,724,658	\$ 1,724,658	\$ 1,724,658	\$ 1,724,658	\$ 1,724,658
Multi-Family	79,169	79,169	79,169	79,169	79,169
Commercial	2,714	2,714	2,714	2,714	2,714
Total Base Fixed Charge	\$ 1,806,541	\$ 1,806,541	\$ 1,806,541	\$ 1,806,541	\$ 1,806,541
Variable Revenues	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Commercial					
Low	\$ 44,291	\$ 44,291	\$ 44,291	\$ 44,291	\$ 44,291
Medium	41,472	41,472	41,472	41,472	41,472
High	15,246	15,246	15,246	15,246	15,246
Total Non-Potable Variable Rate Revenue	\$ 101,008	\$ 101,008	\$ 101,008	\$ 101,008	\$ 101,008
Total Rate Revenue	\$ 1,907,549	\$ 1,907,549	\$ 1,907,549	\$ 1,907,549	\$ 1,907,549

Table 53: Wastewater Projected Wastewater Revenues

Revenue Summary	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Rate Revenues					
Residential	\$ 1,804,000	\$ 1,804,000	\$ 1,804,000	\$ 1,804,000	\$ 1,804,000
Commercial	104,000	104,000	104,000	104,000	104,000
Subtotal Rate Revenues	\$ 1,908,000	\$ 1,908,000	\$ 1,908,000	\$ 1,908,000	\$ 1,908,000
Operating Revenues					
Late Charges	\$ 39,000	\$ 39,000	\$ 39,000	\$ 39,000	\$ 39,000
New Account Fee	2,000	2,000	2,000	2,000	2,000
Wastewater Discharge Permit	1,000	1,000	1,000	1,000	1,000
Sewer Contracts	53,000	53,000	53,000	53,000	53,000
Chiquita/El Toro Fixed Cost	64,000	64,000	64,000	64,000	64,000
ETRLS (SMWD)	92,000	92,000	92,000	92,000	92,000
Subtotal Operating Revenues	\$ 251,000	\$ 251,000	\$ 251,000	\$ 251,000	\$ 251,000
Non-Operating Revenues					
Uncollectable Accounts	\$ (1,000)	\$ (1,000)	\$ (1,000)	\$ (1,000)	\$ (1,000)
Property Taxes	780,000	790,000	800,000	810,000	820,000
Other Non-Operating Revenue	16,000	16,000	16,000	16,000	16,000
Interest Revenue	14,000	12,000	12,000	13,000	13,000
Subtotal Non-Operating Revenues	\$ 809,000	\$ 817,000	\$ 827,000	\$ 838,000	\$ 848,000
Total Revenues	\$ 2,968,000	\$ 2,976,000	\$ 2,986,000	\$ 2,997,000	\$ 3,007,000

Trabuco Canyon Water District – 2023 Cost-of-Service Study

Expenses

The FY 2023 budget was used as the utility's baseline expenses and adjusted over the Rate Setting Period based on the escalation factors shown in Table 51. Table 54 provides projected O&M expenses through the Rate Setting Period (rounded to thousands). Each expense category includes detailed line-item expenditures that were discussed with staff to determine the appropriate escalation factor to use for forecasting how costs will increase over time.

Table 54: Wastewater Projected O&M Expenses

O&M Expenses	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Operating Expenses					
General and Administrative	563,000	589,000	616,000	645,000	675,000
Salaries & Benefits	1,242,000	1,310,000	1,382,000	1,459,000	1,539,000
Treatment	539,000	573,000	598,000	624,000	652,000
CalPERS & OPEB	74,000	71,000	66,000	61,000	55,000
Subtotal Operating Expenses	\$2,418,000	\$2,543,000	\$2,662,000	\$2,789,000	\$2,921,000
Debt Service					
Credit Line	\$ -	\$ -	\$ -	\$ -	\$ -
Refinancing/New Proposed Debt	184,805	184,805	184,805	184,805	184,805
Subtotal Debt Service	\$ 184,805	\$ 184,805	\$ 184,805	\$ 184,805	\$ 184,805
Total Expenses	\$2,602,805	\$2,727,805	\$2,846,805	\$2,973,805	\$3,105,805

Trabuco Canyon Water District – 2023 Cost-of-Service Study

Reserves

The wastewater utility reserves include Operating, Replacement and Emergency. Similar to the water utility, these reserves help mitigate risks to the utility by ensuring sufficient cash is on hand for daily operations and to fund annual system improvements, including unforeseen system failures. Table 55 summarizes the minimum reserve requirements and the ideal funding targets of each reserve.

Table 55: Wastewater Reserve Requirements and Targets

Reserve	Minimum Requirement	Reserve Target
Operating	90 days of operating expenses	120 days of operating expenses
Capital Replacement	Annual CIP costs based on 5-year average	2 years of CIP costs based on 5-year average
Rate Stabilization	10% of Operating Expenses	N/A

The reserve balance as of July 1, 2022, equaled approximately \$1.35M.

Financial Outlook at Existing Rates

Calculating revenue using existing rates and projecting expenses helps determine the current financial health of the utility. Revenues from current rates and noticed rates through FY 2025 noticed rates will cover operating expenses through the Rate Setting Period. Net operating income is limited and reduces annually as projected expenses increase and can only fund a limited amount of capital needs. Therefore, reserves would need to cover the remaining capital costs, which would not be sustainable long-term, as reserves would be depleted in FY 2024 due to the \$3.2M in capital costs. Table 57 forecasts existing revenues and expenses through the Rate Setting Period. Table 57 identifies reserve transfers and reserves activity, with projected FY 2024 starting reserve balances shown for each reserve.

Trabuco Canyon Water District – 2023 Cost-of-Service Study

Table 56: Wastewater Financial Plan at Existing Rates

Revenue		FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Rate Revenues						
Residential	Table 53	\$ 1,804,000	\$ 1,804,000	\$ 1,804,000	\$ 1,804,000	\$ 1,804,000
Commercial		104,000	104,000	104,000	104,000	104,000
Total Rate Revenues		\$ 1,908,000	\$ 1,908,000	\$ 1,908,000	\$ 1,908,000	\$ 1,908,000
Projected Rate Revenues		\$ 1,908,000	\$ 1,908,000	\$ 1,908,000	\$ 1,908,000	\$ 1,908,000
Operating Revenues						
Late Charges		\$ 39,000	\$ 39,000	\$ 39,000	\$ 39,000	\$ 39,000
New Account Fee		2,000	2,000	2,000	2,000	2,000
Wastewater Discharge Permit	Table 53	1,000	1,000	1,000	1,000	1,000
Sewer Contracts		53,000	53,000	53,000	53,000	53,000
Chiquita/El Toro Fixed Cost		64,000	64,000	64,000	64,000	64,000
ETRLS (SMWD)		92,000	92,000	92,000	92,000	92,000
Subtotal Operating Revenues		\$ 251,000	\$ 251,000	\$ 251,000	\$ 251,000	\$ 251,000
Non-Operating Revenues						
Uncollectable Accounts		\$ (1,000)	\$ (1,000)	\$ (1,000)	\$ (1,000)	\$ (1,000)
Property Taxes	Table 53	780,000	790,000	800,000	810,000	820,000
Other Non-Operating Revenue		16,000	16,000	16,000	16,000	16,000
Interest Revenue		14,000	12,000	12,000	13,000	13,000
Subtotal Non-Operating Revenues		\$ 809,000	\$ 817,000	\$ 827,000	\$ 838,000	\$ 848,000
Total Revenues		\$ 2,968,000	\$ 2,976,000	\$ 2,986,000	\$ 2,997,000	\$ 3,007,000
O&M Expenses		FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Operating Expenses						
General and Administrative		563,000	589,000	616,000	645,000	675,000
Salaries & Benefits	Table 54	1,242,000	1,310,000	1,382,000	1,459,000	1,539,000
Treatment		539,000	573,000	598,000	624,000	652,000
CalPERS & OPEB		74,000	71,000	66,000	61,000	55,000
Subtotal Operating Expenses		\$ 2,418,000	\$ 2,543,000	\$ 2,662,000	\$ 2,789,000	\$ 2,921,000
Debt Service						
Credit Line	Table 54	\$ 36,250	\$ 18,125	\$ -	\$ -	\$ -
Refinancing/New Proposed Debt		184,805	184,805	184,805	184,805	184,805
Subtotal Debt Service		\$ 221,055	\$ 202,930	\$ 184,805	\$ 184,805	\$ 184,805
Total Expenses		\$ 2,639,055	\$ 2,745,930	\$ 2,846,805	\$ 2,973,805	\$ 3,105,805
Net Cashflow		\$ 328,945	\$ 230,070	\$ 139,195	\$ 23,195	\$ (98,805)

Trabuco Canyon Water District – 2023 Cost-of-Service Study

Table 57: Wastewater – Transfers and Reserve Activity at Existing Rates

Operating/Working Capital	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Beginning Balance	\$ 566,384	\$ 596,219	\$ 627,041	\$ 656,384	\$ 679,578
Transfers (Net Cashflow)	328,945	230,070	139,195	23,195	(98,805)
Transfers from/(to) Capital Reserve	(299,109)	(199,248)	(109,852)	0	0
Ending Balance	\$ 596,219	\$ 627,041	\$ 656,384	\$ 679,578	\$ 580,773

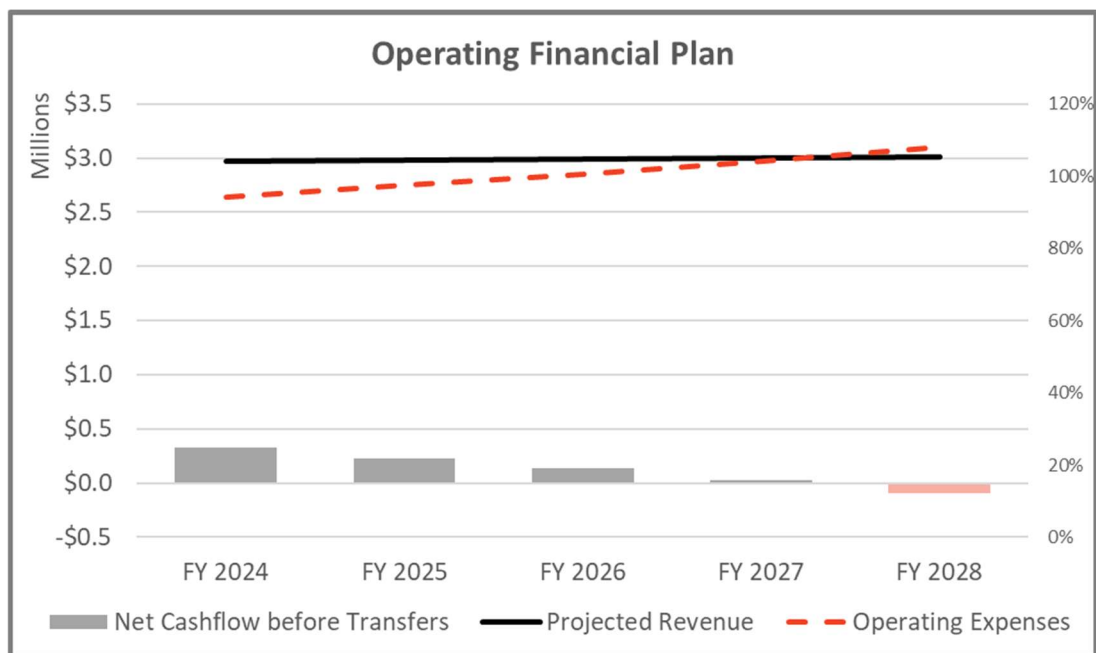
Capital Reserve	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Beginning Balance	\$ 1,472,018	\$ (1,406,662)	\$ (2,690,309)	\$ (4,742,213)	\$ (5,712,473)
<u>Plus:</u>					
Transfers from/(to) Operating/Working Capital	299,109	199,248	109,852	0	0
<u>Less:</u>					
CIP	(3,177,790)	(1,482,895)	(2,161,756)	(970,260)	(693,336)
Transfers from/(to) Sewer Rate Stabilization Reserve	-	-	-	-	-
Subtotal Capital Reserve	\$ (1,406,662)	\$ (2,690,309)	\$ (4,742,213)	\$ (5,712,473)	\$ (6,405,808)
Interest Earnings	0	0	0	0	0
Ending Balance	\$ (1,406,662)	\$ (2,690,309)	\$ (4,742,213)	\$ (5,712,473)	\$ (6,405,808)

Sewer Rate Stabilization Reserve	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Beginning Balance	\$ -	\$ -	\$ -	\$ -	\$ -
Transfers from/(to) Capital Reserve	-	-	-	-	-
Ending Balance	\$ -	\$ -	\$ -	\$ -	\$ -

Ending Unrestricted Reserve Balance	\$ (810,443)	\$ (2,063,268)	\$ (4,085,829)	\$ (5,032,895)	\$ (5,825,035)
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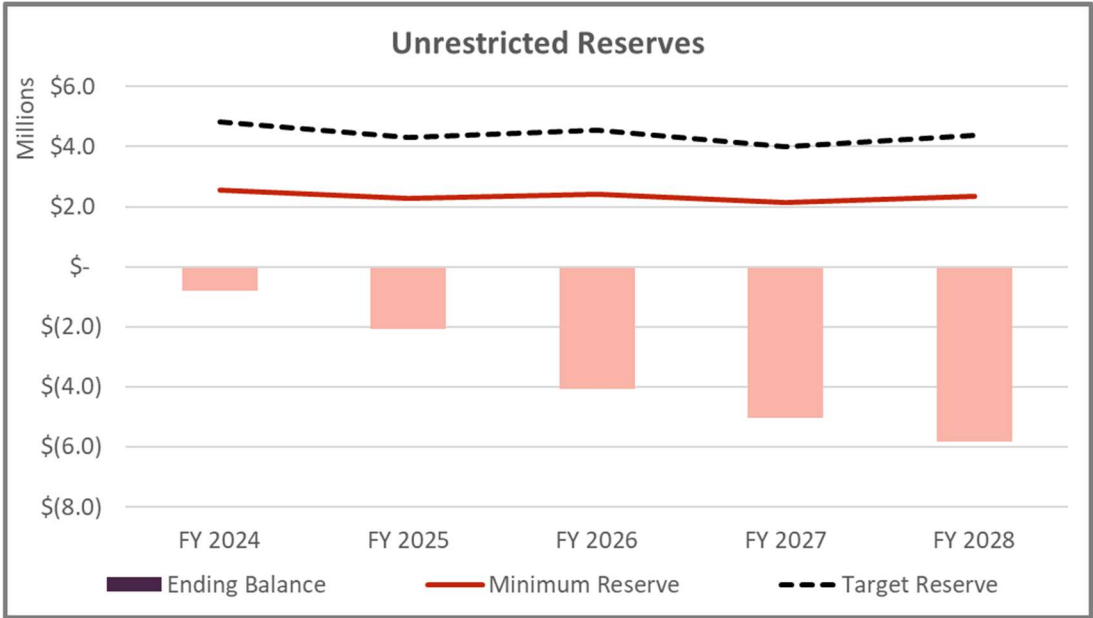
Figure 15 illustrates the operating position of the utility, where O&M expenses are identified with the dashed red trendline, and the horizontal black trendline shows total revenues at existing rates. The bars represent the amount of net operating income available. Figure 16 reflects the projected ending balances of unrestricted reserves after funding operating and capital projects through the Rate Setting Period. Unrestricted reserves include the Operating, Capital Replacement, and Rate Stabilization reserves.

Figure 15: Wastewater Current Operating Financial Position



Trabuco Canyon Water District – 2023 Cost-of-Service Study

Figure 16: Wastewater Projected Ending Reserves at Existing Rates



Proposed Financial Plan – Wastewater Utility

From the financial outlook at existing rates, a proposed financial plan can be developed to adequately fund the multi-year revenue requirements, while meeting reserve requirements. The proposed financial plan generates approximately \$5.285M in additional revenue over the Rate Setting Period. The additional revenue generates positive net operating income each year to go towards capital spending and satisfy reserve requirements. Table 23 forecasts projected revenues, **with annual revenue adjustments**, and expenses through FY 2028, including \$7M in proposed debt that converts the existing short-term debt of \$2.5M to long-term debt plus an additional \$4.5M in new proceeds. Table 24 identifies the projected FY 2024 total starting reserve balances, activity within each reserve (including net income transfer from Table 23, transfers between reserves, and annual CIP), and projected ending balances for each fiscal year of the Rate Setting Period.

Trabuco Canyon Water District – 2023 Cost-of-Service Study

Table 58: Proposed Wastewater Financial Plan

Revenue			FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Rate Revenues							
Residential	Table 53		\$ 1,804,000	\$ 1,804,000	\$ 1,804,000	\$ 1,804,000	\$ 1,804,000
Commercial			104,000	104,000	104,000	104,000	104,000
Total Rate Revenues			\$ 1,908,000	\$ 1,908,000	\$ 1,908,000	\$ 1,908,000	\$ 1,908,000
Additional Revenue (from revenue adjustments):							
Fiscal Year	Revenue Adjustment	Effective Month					
FY 2024	16.0%	July	305,000	305,000	305,000	305,000	305,000
FY 2025	16.0%	July		354,000	354,000	354,000	354,000
FY 2026	16.0%	July			410,000	410,000	410,000
FY 2027	12.0%	July				357,000	357,000
FY 2028	12.0%	July					400,000
Total Additional Revenue			\$ 305,000	\$ 659,000	\$ 1,069,000	\$ 1,426,000	\$ 1,826,000
Projected Rate Revenues			\$ 2,213,000	\$ 2,567,000	\$ 2,977,000	\$ 3,334,000	\$ 3,734,000
Operating Revenues							
Late Charges			\$ 39,000	\$ 39,000	\$ 39,000	\$ 39,000	\$ 39,000
New Account Fee			2,000	2,000	2,000	2,000	2,000
Wastewater Discharge Permit	Table 53		1,000	1,000	1,000	1,000	1,000
Sewer Contracts			53,000	53,000	53,000	53,000	53,000
Chiquita/El Toro Fixed Cost			64,000	64,000	64,000	64,000	64,000
ETRLS (SMWD)			92,000	92,000	92,000	92,000	92,000
Subtotal Operating Revenues			\$ 251,000	\$ 251,000	\$ 251,000	\$ 251,000	\$ 251,000
Non-Operating Revenues							
Uncollectable Accounts			\$ (1,000)	\$ (1,000)	\$ (1,000)	\$ (1,000)	\$ (1,000)
Property Taxes	Table 53		780,000	790,000	800,000	810,000	820,000
Other Non-Operating Revenue			16,000	16,000	16,000	16,000	16,000
Interest Revenue			14,000	12,000	12,000	13,000	13,000
Subtotal Non-Operating Revenues			\$ 809,000	\$ 817,000	\$ 827,000	\$ 838,000	\$ 848,000
Total Revenues			\$ 3,273,000	\$ 3,635,000	\$ 4,055,000	\$ 4,423,000	\$ 4,833,000
O&M Expenses							
Operating Expenses							
General and Administrative			563,000	589,000	616,000	645,000	675,000
Salaries & Benefits	Table 54		1,242,000	1,310,000	1,382,000	1,459,000	1,539,000
Treatment			539,000	573,000	598,000	624,000	652,000
CalPERS & OPEB			74,000	71,000	66,000	61,000	55,000
Subtotal Operating Expenses			\$ 2,418,000	\$ 2,543,000	\$ 2,662,000	\$ 2,789,000	\$ 2,921,000
Debt Service							
Credit Line	Table 54		\$ 36,250	\$ 18,125	\$ -	\$ -	\$ -
Refinancing/New Proposed Debt			517,455	517,455	517,455	517,455	517,455
Subtotal Debt Service			\$ 553,705	\$ 535,580	\$ 517,455	\$ 517,455	\$ 517,455
Total Expenses			\$ 2,971,705	\$ 3,078,580	\$ 3,179,455	\$ 3,306,455	\$ 3,438,455
Net Cashflow			\$ 301,295	\$ 556,420	\$ 875,545	\$ 1,116,545	\$ 1,394,545

Trabuco Canyon Water District – 2023 Cost-of-Service Study

Table 59: Wastewater – Undesignated Reserves Activity through FY 2028

Operating/Working Capital	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Beginning Balance	\$ 566,384	\$ 596,219	\$ 627,041	\$ 656,384	\$ 687,699
Transfers (Net Cashflow)	301,295	556,420	875,545	1,116,545	1,394,545
Transfers from/(to) Capital Reserve	(271,460)	(525,598)	(846,203)	(1,085,230)	(1,361,997)
Ending Balance	\$ 596,219	\$ 627,041	\$ 656,384	\$ 687,699	\$ 720,247
Capital Reserve	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Beginning Balance	\$ 1,472,018	\$ 3,111,065	\$ 2,206,417	\$ 921,837	\$ 1,056,394
<u>Plus:</u>					
Transfers from/(to) Operating/Working Capital	271,460	525,598	846,203	1,085,230	1,361,997
<u>Less:</u>					
CIP	(3,177,790)	(1,482,895)	(2,161,756)	(970,260)	(693,336)
Transfers from/(to) Sewer Rate Stabilization Reserve	-	-	-	-	(403,479)
Subtotal Capital Reserve	\$ 3,065,688	\$ 2,153,769	\$ 890,865	\$ 1,036,808	\$ 1,321,577
Interest Earnings	45,377	52,648	30,973	19,586	23,780
Ending Balance	\$ 3,111,065	\$ 2,206,417	\$ 921,837	\$ 1,056,394	\$ 1,345,356
Sewer Rate Stabilization Reserve	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Beginning Balance	\$ -	\$ -	\$ -	\$ -	\$ -
Transfers from/(to) Capital Reserve	-	-	-	-	403,479
Ending Balance	\$ -	\$ -	\$ -	\$ -	\$ 403,479
Ending Unrestricted Reserves Balance	\$ 3,707,284	\$ 2,833,458	\$ 1,578,221	\$ 1,744,093	\$ 2,469,082

Trabuco Canyon Water District – 2023 Cost-of-Service Study

The operating position based on the proposed financial plan is identified in Figure 17, including debt service coverage. Figure 18 shows the capital plan with funding sources. Figure 19 identifies the ending undesignated reserve balances after funding capital expenses.

Figure 17: Wastewater Proposed Operating Position

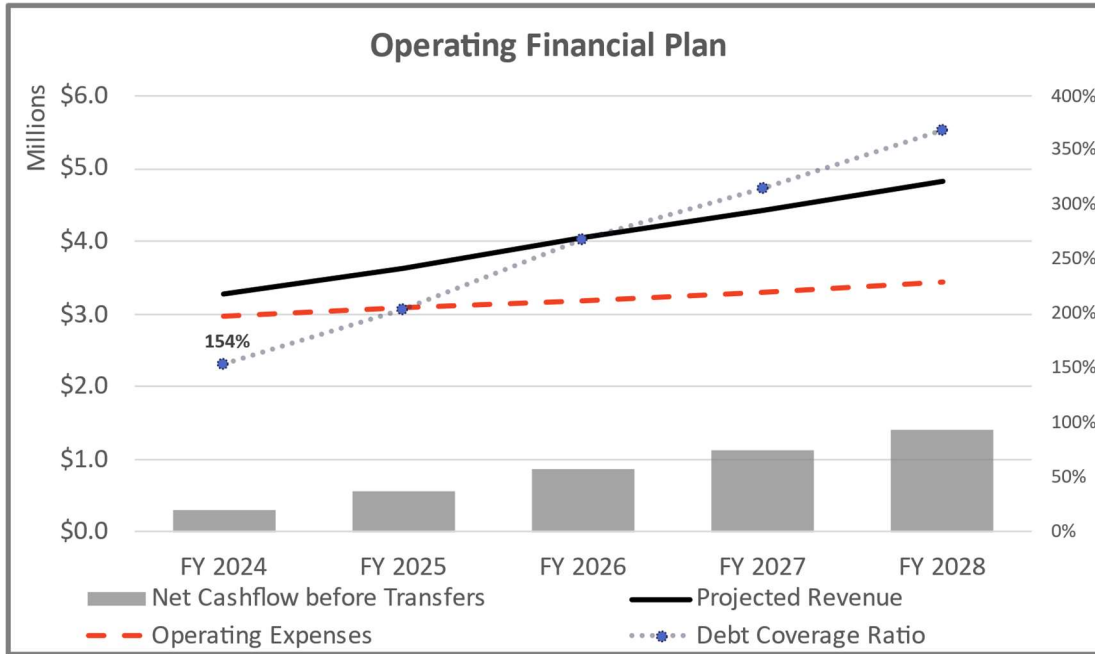
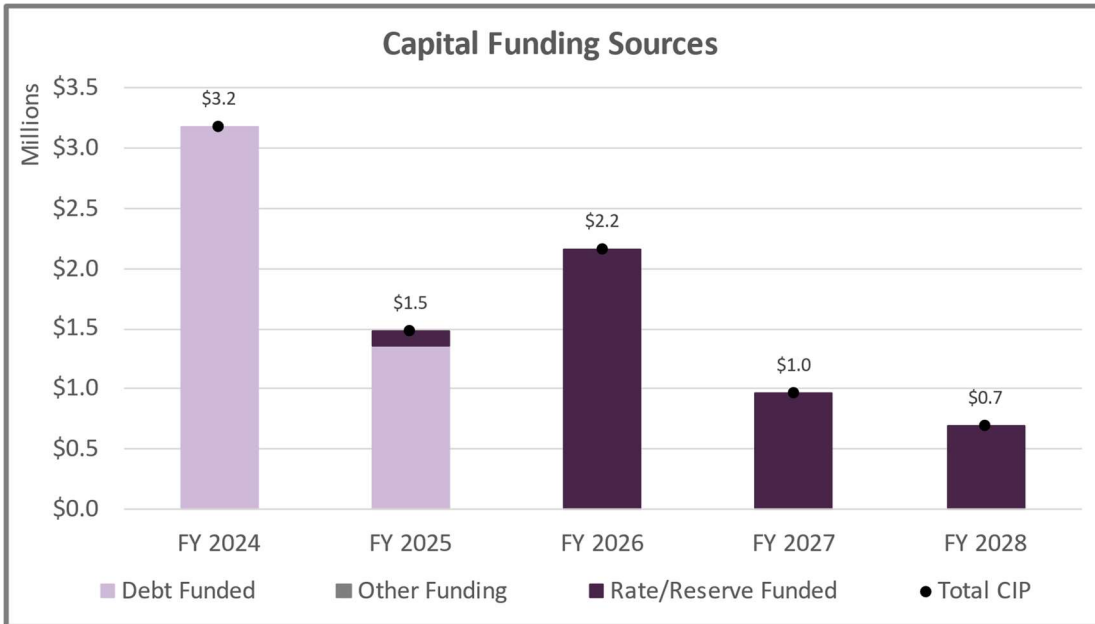
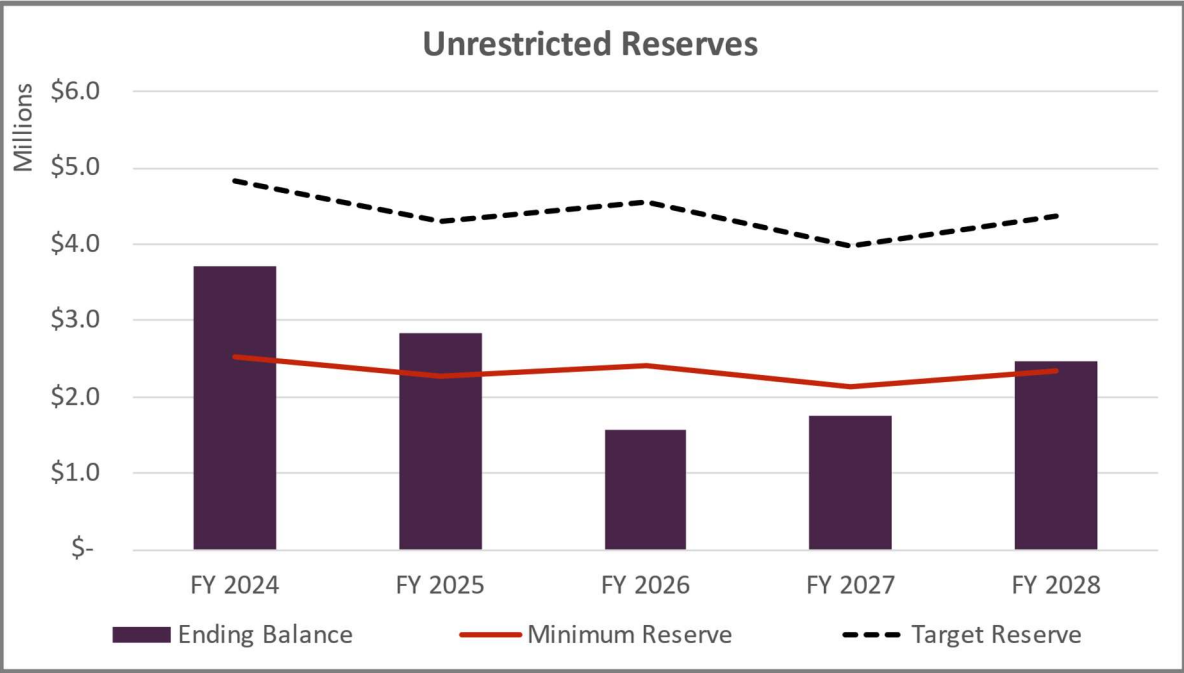


Figure 18: Wastewater Capital Improvement Plan with Funding Sources



Trabuco Canyon Water District – 2023 Cost-of-Service Study

Figure 19: Wastewater Proposed Ending Reserves



Trabuco Canyon Water District – 2023 Cost-of-Service Study

Cost of Service Analysis – Wastewater Utility

Cost of Service Process

The next step in developing wastewater rates is to perform a cost-of-service analysis. Through this process, costs incurred are allocated to customer classes based on their proportional share. As a result, proposed rates are cost-based and reflect the costs incurred to provide service to customers.

Revenue Requirements

FY 2024 revenue requirements were used for the cost-of-service analysis. Revenue requirements include O&M expenses, treatment expenses, available revenue offsets, non-rate revenues, and reserve funding. The proposed revenue adjustments and corresponding rates accumulate the necessary funding over the Rate Setting Period to fund O&M, capital projects, and meet minimum reserve requirements. The results of the financial plan analysis are summarized in Table 60 and represent the revenue required from rates over the Rate Setting Period.

Table 60: Wastewater Revenue Requirements

	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Revenue Requirements	Total	Total	Total	Total	Total
Operating Expenses					
General and Administrative	\$ 563,000	\$ 589,000	\$ 616,000	\$ 645,000	\$ 675,000
Salaries & Benefits	1,242,000	1,310,000	1,382,000	1,459,000	1,539,000
Treatment	539,000	573,000	598,000	624,000	652,000
CalPERS & OPEB	74,000	71,000	66,000	61,000	55,000
Total Operating Expenses	\$ 2,418,000	\$ 2,543,000	\$ 2,662,000	\$ 2,789,000	\$ 2,921,000
Debt Service					
Credit Line	\$ 36,250	\$ 18,125	\$ -	\$ -	\$ -
Refinancing/New Proposed Debt	517,455	517,455	517,455	517,455	517,455
Total Debt Service	\$ 553,705	\$ 535,580	\$ 517,455	\$ 517,455	\$ 517,455
Other Funding					
Revenue Offsets					
Operating Revenues	\$ (251,000)	\$ (251,000)	\$ (251,000)	\$ (251,000)	\$ (251,000)
Non-Operating Revenues	(809,000)	(817,000)	(827,000)	(838,000)	(848,000)
Total Revenue Offsets	\$ (1,060,000)	\$ (1,068,000)	\$ (1,078,000)	\$ (1,089,000)	\$ (1,099,000)
Adjustments					
Reserve Funding	\$ 301,295	\$ 556,420	\$ 875,545	\$ 1,116,545	\$ 1,394,545
Total Adjustments	\$ 301,295	\$ 556,420	\$ 875,545	\$ 1,116,545	\$ 1,394,545
Subtotal Other Funding	\$ (758,705)	\$ (511,580)	\$ (202,455)	\$ 27,545	\$ 295,545
Revenue Requirement from Rates	\$2,213,000	\$2,567,000	\$2,977,000	\$3,334,000	\$3,734,000

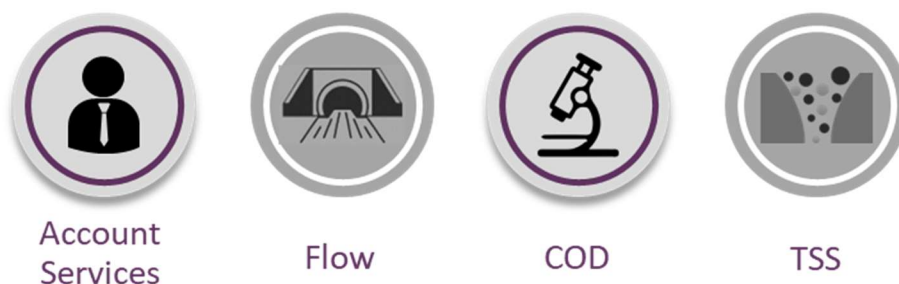
Trabuco Canyon Water District – 2023 Cost-of-Service Rate Study

Define Cost Components

The District's wastewater cost-of-service requirements were allocated to cost components and then to customers classes to develop cost-based rates in compliance with Proposition 218. The utility incurs costs to accommodate the total flow demand generated by different customer classes. Therefore, to determine the most appropriate way to recover the utility's expenses, cost components are identified and used to allocate expenses based on how they are incurred. Through our review of the revenue requirements and understanding of the wastewater system, the cost-of-service allocation documented in this report is based on total billing units (accounts plus additional dwelling units), flow (volume influent in HCF), and the strength characteristics of each customer class.

Strength loading factors for chemical oxygen demand (COD) and total suspended solids (TSS) are based on the Los Angeles County Sanitation District (LACSD) 2007 update. The LACSD's 2007 update reflects a substantial dataset of the most up-to-date discharge characteristics for various commercial uses, which typically would not vary by geographical location. The cost components shown in Figure 20 are used within the cost-of-service to allocate costs to customer classes in relation to the demand that each place on the system.

Figure 20: Wastewater Cost Components



Account Services – Fixed expenses related to the collection system and treatment plants that do not necessarily fluctuate based on flow. Administration, utility billing services, and overhead costs are incurred based on having an account. In addition, a portion of maintenance is recovered as part of Account Services.

Flow – Expenses associated with the collection system and volume of flow treated at the WWTPs.

COD – Expenses associated with treating microbial and organic compounds at the WWTP.

TSS – Expenses associated with treating TSS at the WWTP.

Allocate Expenses to Cost Components

When allocating expenses to the defined cost components, it is important to have a sound basis as to why an expense was allocated to a certain fixed cost component versus a variable cost component or split between both fixed and variable. The distribution of expenses to the cost components should be straightforward to ensure the method of apportionment is **understandable** and easily **correlates to how expenses are incurred**. A description of each expense category is identified below.

Table 61 summarizes the percent allocation of Operating expenses to the cost components with Account Services as a fixed component and Flow, COD, and TSS as variable cost components. General and Administration and CalPERS & OPEB were allocated to the cost component of Account Services. Salaries & Benefits and Treatment expense categories are associated with the daily operating costs of the treatment plants and allocated to Flow, COD and TSS based on the District's review of its treatment plant processes

Trabuco Canyon Water District – 2023 Cost-of-Service Study

and how costs are incurred at the plants in treated influent, equal to 20% Flow, 40% COD and 40% TSS. Table 62 uses the percent allocations in Table 61 to allocate expenses in dollars to each cost component.

Table 61: Wastewater O&M Expense Allocation to Cost Components (%)

Operating Expenses	Methodology / Allocation Basis	Account Services	Flow	COD	TSS	Total
General and Administrative	Specific	100.0%	0.0%	0.0%	0.0%	100.0%
Salaries & Benefits	Treatment	0.0%	20.0%	40.0%	40.0%	100.0%
Treatment	Treatment	0.0%	20.0%	40.0%	40.0%	100.0%
CalPERS & OPEB	Specific	100.0%	0.0%	0.0%	0.0%	100.0%

Table 62: Wastewater O&M Expense Allocation to Cost Components (\$)

Operating Expenses	Methodology / Allocation Basis	Account Services	Flow	COD	TSS	Total
General and Administrative	Specific	\$ 563,000	\$ -	\$ -	\$ -	\$ 563,000
Salaries & Benefits	Treatment	-	248,400	496,800	496,800	1,242,000
Treatment	Treatment	-	107,800	215,600	215,600	539,000
CalPERS & OPEB	Specific	74,000	-	-	-	74,000
Total Allocation (\$)		\$ 637,000	\$ 356,200	\$ 712,400	\$ 712,400	\$ 2,418,000
O&M Allocation (%)		26.3%	14.7%	29.5%	29.5%	100.0%

The District's debt was allocated based on O&M percentages derived in Table 62 to equitable charge commercial customers their proportionate share of debt based on their percentage of total flow and strength, instead of solely based on percentage of accounts. Table 30 identifies the percent allocation of the debt expense to the cost components, and Table 31 reflects the debt expense in dollars.

Table 63: Wastewater Debt Allocation to Cost Components (%)

Debt Service	Methodology / Allocation Basis	Account Services	Flow	COD	TSS	Total
Credit Line	O&M Allocation	26.3%	14.7%	29.5%	29.5%	100.0%
Refinancing/New Proposed Debt	O&M Allocation	26.3%	14.7%	29.5%	29.5%	100.0%

Table 64: Wastewater Debt Allocation to Cost Components (\$)

Debt Service	Methodology / Allocation Basis	Account Services	Flow	COD	TSS	Total
Credit Line	O&M Allocation	\$ 9,550	\$ 5,340	\$ 10,680	\$ 10,680	\$ 36,250
Refinancing/New Proposed Debt	O&M Allocation	136,319	76,227	152,454	152,454	517,455
Total Allocation (\$)		\$ 145,868	\$ 81,567	\$ 163,134	\$ 163,134	\$ 553,705

Trabuco Canyon Water District – 2023 Cost-of-Service Study

Other Funding includes other operating revenue, non-operating revenue, and reserve funding. All line items under "Other Funding" are allocated based on O&M percentages derived in Table 62 to allocate each line item to the cost components proportionately. Table 65 summarizes the percent allocation to the cost components, and Table 66 uses the percent allocations in Table 65 to allocate expenses in dollars to each cost component. Table 67 summarizes the FY 2024 revenue requirement derived in Table 60 by cost component

Table 65: Wastewater Other Funding to Cost Components (%)

Other Funding	Methodology / Allocation Basis	Account Services	Flow	COD	TSS	Total
<i>Revenue Offsets</i>						
Operating Revenues	O&M Allocation	26.3%	14.7%	29.5%	29.5%	100.0%
Non-Operating Revenues	O&M Allocation	26.3%	14.7%	29.5%	29.5%	100.0%
<i>Adjustments</i>						
Reserve Funding	O&M Allocation	26.3%	14.7%	29.5%	29.5%	100.0%
Adjustment for Mid-Year Increase	O&M Allocation	26.3%	14.7%	29.5%	29.5%	100.0%

Table 66: Wastewater Other Funding to Cost Components (\$)

Other Funding	Methodology / Allocation Basis	Account Services	Flow	COD	TSS	Total
<i>Revenue Offsets</i>						
Operating Revenues	O&M Allocation	\$ (66,124)	\$ (36,975)	\$ (73,951)	\$ (73,951)	\$ (251,000)
Non-Operating Revenues	O&M Allocation	(213,124)	(119,175)	(238,351)	(238,351)	(809,000)
<i>Adjustments</i>						
Reserve Funding	O&M Allocation	79,374	44,384	88,769	88,769	301,295
Total Allocation (\$)		\$ (199,874)	\$ (111,766)	\$ (223,532)	\$ (223,532)	\$ (758,705)

Table 67: FY 2024 Wastewater Cost-of-Service Requirements by Cost Component

Revenue Requirement	Account Services	Flow	COD	TSS	Total
Operating	\$ 637,000	\$ 356,200	\$ 712,400	\$ 712,400	\$ 2,418,000
Debt Service	145,868	81,567	163,134	163,134	553,705
Other Funding	(199,874)	(111,766)	(223,532)	(223,532)	(758,705)
COS Requirement	\$ 582,995	\$ 326,001	\$ 652,002	\$ 652,002	\$ 2,213,000

Rate Design – Wastewater Utility

Develop Units of Service

Residential customer flows were projected using expected indoor use based on a gallons per capita per day (gpcd) and people per household (pph) basis. Residential pph was based on the Department of Finance E-5 report for 2022, reflecting 2.75 pph, which is the weighted average based on population of Lake Forest, Mission Viejo, and Rancho Santa Margarita. Residential projected flows were based on 55 gpcd for indoor use with a 95% return factor ($55 \text{ gpcd} \times 0.95 = 52.3 \text{ gpcd}$). The 5% reduction accounts for indoor water use that does not return to the collection system (i.e., does not go down the drain). The annual residential flow reflects the product of Net Flow GPCD, total residential billing units, and 365 days. The result is then converted to HCF for a total annual projected residential flow of 268,201 HCF, as shown in Table 68.

Table 68: Residential Projected Flows

Residential Flow Projections	Assumptions
Gallons per capita per day (GPCD)	55.0
Projected indoor return factor	95%
Net Flow GPCD	52.3
× People per household (Residential)	2.75
× Number of Residential accounts	3,819
Projected Residential Flow	549,665 GPD
Annual Residential Flow (× 365)	200,627,556
Converted to HCF (÷ 748.05)	268,201

Commercial customer flows were determined by estimating flow return factors for the Commercial customer class. To determine the appropriate flow return factor, we used the amount of total influent conveyed in FY 2022 to the District wastewater treatment plants of Robinson WWTP and Chiquita WWTP. The total treated influent is reduced by percentage of infiltration/inflow (known as I/I, which is a measure of the amount of water that enters the collection system that is not sewage, such as stormwater or groundwater that infiltrates into the collection system), equal to 7%, and less the projected residential flow derived in Table 68. The remainder is the estimated amount generated by Commercial customers. Table 69 provides the calculations used to derive the amount of projected flow expected to be generated by Commercial customers.

Trabuco Canyon Water District – 2023 Cost-of-Service Study

Table 69: Non-Residential Projected Flows (HCF)

Flow Assumptions (HCF)		FY 2022
Total Treated Flow		302,506
Less: Inflow and Infiltration (I&I)	7.0%	(21,175)
Flow from Customers		281,330
Less Projected Residential Flow		268,201
Projected Non-Residential Flows		13,130

Customer Class	Water Usage [A]	Flow Return [B]	Projected Flow [C] = A x B
Commercial	15,151	86.7%	13,130

Applying a return factor of 86.7% against Commercial water usage generates a calculated flow of 13,130 HCF, which is in-line with what is expected when compared to the amount of projected treated flow from Commercial.

Unit rates for the cost components are derived by identifying the units of service for each cost component (distribution basis). The distribution basis varies by cost component and includes billable units (total accounts/dwelling units) and projected flow, weighted COD, and weighted TSS. Table 70 summarizes the units of service for each cost component. Strength concentrations are weighted by total flow in Million Gallons (MG) to develop COD units of service (Weighted COD) and TSS units of service (Weighted TSS).

Table 70: Wastewater Units of Service

Annual Fixed Units of Service

Customer Class	Accounts [A]	Billing Units [B]	Annual Billing Units [C] = B x 12
Residential	3,664	3,819	45,828
Commercial	44	44	528
Total	3,708	3,863	46,356

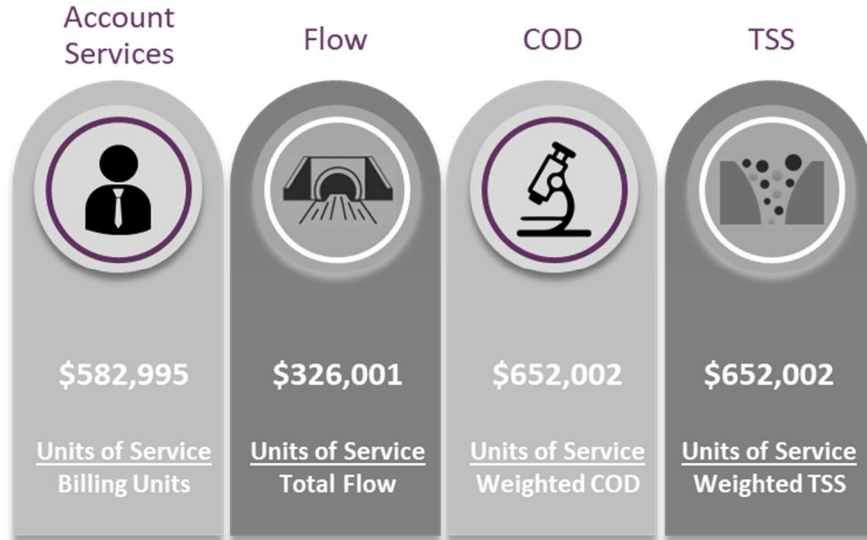
Annual Variable Units of Service

Customer Class	Commercial Water Usage (HCF) [A]	Return Factor [B]	Projected Flow (HCF) [C] = (A x B)	Conversion Factor (HCF to MG) [D]	COD (ppm) [E]	TSS (ppm) [F]	Weighted COD [G] = (C x D x E)	Weighted TSS [H] = (C x D x F)
Residential			268,201	0.075%	562	272	112,805	54,553
Commercial								
Low	7,784	86.7%	6,746	0.075%	515	271	2,597	1,370
Medium	5,752	86.7%	4,985	0.075%	1,106	431	4,124	1,609
High	1,615	86.7%	1,400	0.075%	1,798	699	1,883	732
Total	15,151		281,331				121,410	58,264

Trabuco Canyon Water District – 2023 Cost-of-Service Rate Study

With the units of service shown in Table 70, the distribution basis can be identified for each cost component. The total revenue requirements by cost component from Table 67 is shown in Figure 21 with the corresponding units of service.

Figure 21: Wastewater Distribution Basis and Units of Service by Cost Component



Allocate to Customer Class

Using the FY 2024 revenue requirements, the cost-of-service allocates expenses to customer classes based on the service demands that each place on the system (cost causation). Using this approach provides a clear connection between costs incurred and the proportionate share attributable to each customer class. When designing rates, the most critical component is to connect costs to the proposed rates, resulting in a cost-based rate structure in compliance with Proposition 218. In the previous section, costs were summarized by expense category and allocated to cost components based on how each cost is incurred. The next step in designing rates is to allocate each cost component to customers in relation to their use of the system and facilities. This ensures that each customer proportionately shares in the financial obligation of the wastewater utility. For the following unit rate computations, unit rates were rounded up to the nearest penny.

Fixed Cost Recovery

Account Services

Account Services costs are spread equally across all billable units over 12 months. Therefore, the revenue requirement for Account Services is apportioned based on the annual billing units to determine the monthly unit cost-of-service shown in Table 71.

Table 71: FY 2024 Wastewater Account Services Monthly Unit Rate

Account Services Component - Unit Rate	
Revenue Requirement	\$ 582,995
÷ Annual Billing Units	46,356
Monthly Unit Rate	\$12.58

Trabuco Canyon Water District – 2023 Cost-of-Service Study

Variable Cost Recovery

Flow

Flow is a function of total volume of influent conveyed through the collection system and pumped through the treatment plants. Therefore, the revenue requirement for Flow is apportioned to each customer class based on their percentage of the total projected flow, as summarized in Table 72.

Table 72: FY 2024 Wastewater Collection Allocation by Customer Class

Flow Charge Component - Unit Rate	
Revenue Requirement (RR)	\$ 326,001
÷ Projected Flow (HCF)	281,331
Monthly Unit Rate	\$1.16

Customer Class	Projected Flow (HCF) [A]	% Allocation [B] = A as a %	Revenue Requirement [C] = RR x B
Residential	268,201	95.3%	\$ 310,786
Commercial			
Low	6,746	2.4%	7,817
Medium	4,985	1.8%	5,776
High	1,400	0.5%	1,622
Total	281,331	100%	\$ 326,001

Trabuco Canyon Water District – 2023 Cost-of-Service Study

COD

COD costs relate to the treatment process of breaking down organic material in wastewater. Higher COD strengths require increased costs and longer periods of treatment time to dilute the high levels of COD prior to discharging effluent into waterways. Therefore, the revenue requirement for COD is apportioned based on Weighted COD for each customer class, as shown in Table 73.

Table 73: FY 2024 Wastewater COD Allocation by Customer Class

COD Charge Component - Unit Rate	
Revenue Requirement (RR)	\$ 652,002
÷ Weighted COD	121,410
Monthly Unit Rate	\$5.38

Customer Class	Weighted COD [A]	% Allocation [B] = A as a %	Revenue Requirement [C] = RR x B
Residential	112,805	92.9%	\$ 605,794
Commercial			
Low	2,597	2.1%	13,949
Medium	4,124	3.4%	22,149
High	1,883	1.6%	10,110
Total	121,410	100%	\$ 652,002

Trabuco Canyon Water District – 2023 Cost-of-Service Study

TSS

TSS costs relate to the treatment process of removing solids from wastewater through settling, screening, and filtering. Higher TSS strengths require increased costs and additional filtration to treat and remove the high levels of TSS prior to discharging effluent into waterways. Therefore, the revenue requirement for TSS is apportioned based on Weighted TSS for each customer class, as shown in Table 74.

Table 74: FY 2024 Wastewater TSS Allocation by Customer Class

TSS Charge Component - Unit Rate	
Revenue Requirement (RR) \$	652,002
÷ Weighted TSS	58,264
Monthly Unit Rate	\$11.20

Customer Class	Weighted TSS [A]	% Allocation [B] = A as a %	Revenue Requirement [C] = RR x B
Residential	54,553	93.6%	\$ 610,483
Commercial			
Low	1,370	2.4%	15,329
Medium	1,609	2.8%	18,000
High	732	1.3%	8,189
Total	58,264	100%	\$ 652,002

Collectively, the total allocation of costs associated with Account Services, Flow, COS and TSS (Total Revenue Requirement) derives the cost of providing service to each customer class. Table 75 summarizes the combined revenue requirement by customer class.

Table 75: FY 2024 Wastewater Total Revenue Requirement by Customer Class

Customer Class	Account Services	Flow	COD	TSS	Allocated Revenue Requirements
Residential	\$ 576,354	\$ 310,786	\$ 605,794	\$ 610,483	\$ 2,103,418
Commercial	6,640	-	-	-	6,640
Low		7,817	13,949	15,329	37,095
Medium		5,776	22,149	18,000	45,926
High		1,622	10,110	8,189	19,921
Total	\$ 582,995	\$ 326,001	\$ 652,002	\$ 652,002	\$ 2,213,000

The revenue requirements for residential customers are noticed as flat monthly charges as residential flows are relatively constant throughout the year and will be collected on the property tax bill. Table 76 derives the monthly flat charges for Residential customers.

Trabuco Canyon Water District – 2023 Cost-of-Service Study

Table 76: FY 2024 Residential Flat Monthly Charge

Customer Class	Account Services	Flow	COD	TSS	Total Monthly Flat Charge
Residential					
Revenue Requirement	\$ 576,354	\$ 310,786	\$ 605,794	\$ 610,483	
÷ Units of Service	45,828	45,828	45,828	45,828	
Unit Rate	\$12.58	\$6.79	\$13.22	\$13.33	\$45.92

For Commercial customer classes, each account is charged a monthly fixed amount for Account Services and commodity rates that vary between the categories of Low, Medium, and High. Variable rates are derived for the variable components of Flow, COD, and TSS by dividing the total allocated cost by total water usage as wastewater flows are not metered. Table 77 and Table 78 derives the monthly fixed charges and variable rates for Commercial, respectively.

Table 77: FY 2024 Commercial Monthly Fixed Charge

Customer Class	Annual Billing Units	Account Services	Total Monthly Fixed Charge
	[A]	[B]	[C] = B ÷ A
Commercial	528	\$ 6,640	\$12.58

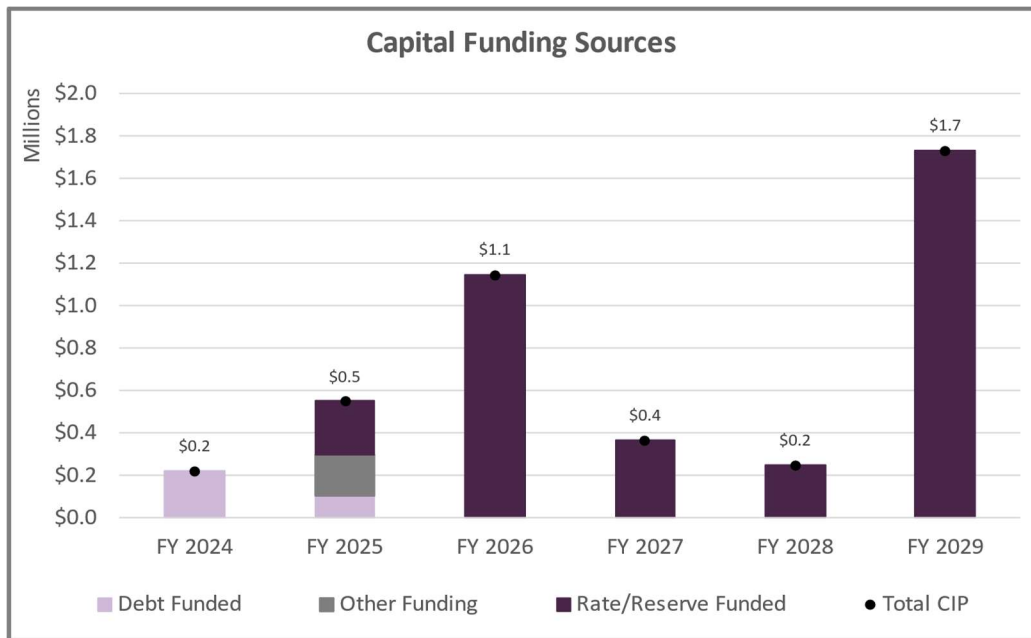
Table 78: FY 2024 Commercial Variable Rates

Customer Class	Commercial Water Usage (HCF)	Flow	COD	TSS	Flow	COD	TSS	Total Variable Rates
	[A]	[B]	[C]	[D]	[E] = B ÷ A	[F] = C ÷ A	[G] = D ÷ A	[H] = E + F + G
Commercial								
Low	7,784	\$ 7,817	\$ 13,949	\$ 15,329	\$ 1.01	\$ 1.80	\$ 1.97	\$4.78
Medium	5,752	5,776	22,149	18,000	1.01	3.86	3.13	\$8.00
High	1,615	1,622	10,110	8,189	1.01	6.27	5.08	\$12.36

Recycled Water

The wastewater system produces approximately 800 AF of recycled water annually. The District has major repair and replacement projects over the next six years, including Booster Station Improvements, Dove Creek Pump Station Improvement and the Dove Lake Dam Outlet Works Replacement planned in FY 2029. With the significant Dove Dam replacement project occurring outside the Rate Setting Period, the financial plan tables and related charts extend through FY 2029 (Financial Plan Period). Figure 22 shows the District’s CIP through the Financial Plan Period.

Figure 22: Recycled Water Capital Improvement Plan



Customers

As of July 1, 2022, the District serves a total of 28 recycled water accounts as shown in Table 79 by meter size.

Table 79: Recycled Water Accounts by Meter Size

Meter Size	Number of Accounts
1 1/2"	4
2"	17
3"	3
4"	2
10"	2
Total	28

Trabuco Canyon Water District – 2023 Cost-of-Service Rate Study

The current recycled water rate structure is charged the same monthly base and WRES fixed charges as potable customers and a uniform variable rate. Existing meter charges and variable rate are identified in Table 80 through Table 82.

Table 80: FY 2023 Recycled Water Monthly Base Fixed Charges

Base Fixed Meter Charges (\$/Month)	
Meter Size	Existing
5/8"	\$ 21.04
3/4"	21.04
1"	30.70
1 1/2"	54.85
2"	83.81
3"	175.57
4"	310.77
6"	779.18

Table 81: FY 2023 Recycled Water Monthly WRES Fixed Charges

WRES Fixed Meter Charges (\$/Month)	
Meter Size	Existing
5/8"	\$ 16.04
3/4"	16.04
1"	25.25
1 1/2"	38.48
2"	51.30
3"	76.95
4"	102.60
6"	153.90

Table 82: FY 2023 Recycled Water Variable Rate

Recycled Variable Rates (\$/HCF)	
Customer Class	Existing
Recycled	3.47

Financial Plan Overview – Recycled Water Utility

Financial Planning Assumptions

Similar to the other utilities, certain assumptions are required for projecting revenues, expenses, and expected ending fund balances for the recycled water utility. Table 83 identifies assumptions used for forecasting revenues. Table 84 identifies assumptions used for forecasting increases in expenses through the Financial Plan Period.

Table 83: Recycled Water Assumptions for Forecasting Revenues

Key Assumptions	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029
Revenue Escalation						
Non-Rate Revenues	0%	0%	0%	0%	0%	0%
Reserve Interest	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%
Account Growth	0%	0%	0%	0%	0%	0%
All Non-Potable Meters						
Meter Size						
1 1/2"	4	4	4	4	4	4
2"	17	17	17	17	17	17
3"	3	3	3	3	3	3
4"	2	2	2	2	2	2
10"	2	2	2	2	2	2
Total All Non-Potable Meters	28	28	28	28	28	28
Total Non-Potable Consumption (HCF)	306,630	306,630	306,630	306,630	306,630	306,630

Table 84: Recycled Water Assumptions for Forecasting Expenses⁶

Key Assumptions	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029
Expenditure Escalation						
Benefits	7.0%	7.0%	7.0%	7.0%	7.0%	7.0%
Capital Construction	6.6%	3.9%	3.9%	3.9%	3.9%	3.9%
Energy Costs	8.0%	8.0%	5.0%	5.0%	5.0%	5.0%
Fuel	20.0%	20.0%	5.0%	5.0%	5.0%	5.0%
General Costs	6.2%	4.0%	4.0%	4.0%	4.0%	4.0%
Non-Inflated	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Retirement	5.0%	5.0%	5.0%	5.0%	5.0%	5.0%
Salaries	5.0%	5.0%	5.0%	5.0%	5.0%	5.0%
Water Purchases (Fixed)	5.0%	5.0%	5.0%	5.0%	5.0%	5.0%
Water Purchases SMWD - Recycled	5.0%	5.0%	5.0%	5.0%	5.0%	5.0%

⁶ Capital Construction inflation and General Costs for FY 2024 were increased to 6.63% and 6.2%, respectively, to account for recent increases due to inflation. Outer years reduce to 3.93% and 3.95%, reflecting the 5-year average of the Engineer's News Record – CCI index and the LA Consumer Price Index, respectively.

Trabuco Canyon Water District – 2023 Cost-of-Service Study

Current Financial Position

Revenues

Based on the forecasting assumptions, revenues were calculated using existing fixed charges (Table 80 and Table 81), multiplied by meters by size and variable rates (Table 83) multiplied by recycled water usage. Table 85 shows the calculated revenues through the Financial Plan Period. Table 86 provides a summary of calculated rate revenues and other non-rate revenues available through the Financial Plan Period (rounded to thousands).

Table 85: Recycled Water Calculated Rate Revenues

Calculated Recycled Revenue	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029
Rate Revenues						
Fixed Revenue	\$ 82,342	\$ 82,342	\$ 82,342	\$ 82,342	\$ 82,342	\$ 82,342
Variable Revenue	1,064,006	1,064,006	1,064,006	1,064,006	1,064,006	1,064,006
WRES Revenue	20,145	20,145	20,145	20,145	20,145	20,145
Total Rate Revenues	\$ 1,166,493	\$ 1,166,493	\$ 1,166,493	\$ 1,166,493	\$ 1,166,493	\$ 1,166,493

Table 86: Recycled Water Projected Revenues

Revenue Summary	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029
Rate Revenues						
Fixed Revenue	\$ 82,000	\$ 82,000	\$ 82,000	\$ 82,000	\$ 82,000	\$ 82,000
Variable Revenue	1,064,000	1,064,000	1,064,000	1,064,000	1,064,000	1,064,000
WRES Revenue	20,000	20,000	20,000	20,000	20,000	20,000
Subtotal Rate Revenues	\$ 1,166,000	\$ 1,166,000	\$ 1,166,000	\$ 1,166,000	\$ 1,166,000	\$ 1,166,000
Operating Revenues						
Late Charges	\$ 3,000	\$ 3,000	\$ 3,000	\$ 3,000	\$ 3,000	\$ 3,000
Subtotal Operating Revenues	\$ 3,000	\$ 3,000	\$ 3,000	\$ 3,000	\$ 3,000	\$ 3,000
Non-Operating Revenues						
Other Non-Operating Revenue	1,000	1,000	1,000	1,000	1,000	1,000
Interest Revenue	-	-	-	4,000	6,000	6,000
Property Tax	290,000	280,000	270,000	260,000	250,000	250,000
Subtotal Non-Operating Revenues	\$ 291,000	\$ 281,000	\$ 271,000	\$ 265,000	\$ 257,000	\$ 257,000
Total Revenues	\$ 1,460,000	\$ 1,450,000	\$ 1,440,000	\$ 1,434,000	\$ 1,426,000	\$ 1,426,000

Trabuco Canyon Water District – 2023 Cost-of-Service Study

Expenses

The FY 2023 budget was used as the utility's baseline expenses and adjusted in subsequent years based on the escalation factors shown in Table 84. Table 87 provides projected O&M expenses through the Financial Plan Period (rounded to thousands). Each expense category includes detailed line-item expenditures that were discussed with staff to determine the appropriate escalation factor to use for forecasting how costs will increase over time.

Table 87: Recycled Water Projected O&M Expenses

O&M Expenses	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029
Operating Expenses						
Source of Supply	\$ 64,000	\$ 67,000	\$ 70,000	\$ 73,000	\$ 77,000	\$ 80,000
General and Administrative	115,000	120,000	125,000	131,000	137,000	143,000
Salaries & Benefits	316,000	333,000	352,000	372,000	392,000	414,000
Transmission & Distribution	459,000	491,000	514,000	538,000	563,000	589,000
CalPERS & OPEB	17,000	16,000	15,000	14,000	13,000	13,000
Other Expenses	69,000	72,000	75,000	78,000	81,000	84,000
Subtotal Operating Expenses	\$ 1,040,000	\$ 1,099,000	\$ 1,151,000	\$ 1,206,000	\$ 1,263,000	\$ 1,323,000
Debt Service						
Refinancing/New Proposed Debt	36,961	36,961	36,961	36,961	36,961	36,961
Subtotal Debt Service	\$ 36,961	\$ 36,961	\$ 36,961	\$ 36,961	\$ 36,961	\$ 36,961
Total Expenses	\$ 1,076,961	\$ 1,135,961	\$ 1,187,961	\$ 1,242,961	\$ 1,299,961	\$ 1,359,961

Reserves

For financial planning, similar reserve targets for water and wastewater were used, except for the rehabilitation fund. The rehabilitation target was set at a rolling 5-year average of upcoming capital due to the increase in capital spending planned. These reserves help mitigate risks to the utility by ensuring sufficient cash is on hand for daily operations and to fund annual system improvements. These reserves help smooth rates and mitigate rate spikes due to emergencies or above-average system costs. Table 88 summarizes the recommended minimum reserve requirements and the ideal funding targets of each reserve.

Table 88: Recycled Water Reserve Requirements and Targets

Reserve	Minimum Requirement	Reserve Target
Operating	90 days of operating expenses	180 days of operating expenses
Capital Replacement	Annual CIP costs based on 5-year average	2 years of CIP costs based on 5-year average
Rate Stabilization	20% of operating revenues	N/A

The reserve balance as of July 1, 2022, reflected a deficit of approximately (\$908k).

Trabuco Canyon Water District – 2023 Cost-of-Service Study

Financial Outlook at Existing Rates

Calculating revenue using existing rates and projecting expenses helps determine the current financial health of the utility. Revenues from existing rates are sufficient to fund O&M through the Financial Plan Period. However, only a portion of the system rehabilitation needs can be funded with projected net operating income resulting in a growing deficit shown as a negative reserve ending balance. Without rate increases, there would not be available funding for capital spending. Table 89 forecasts existing revenues and expenses through the Financial Plan Period. Table 90 identifies reserve transfers and reserves activity, with projected FY 2024 starting reserve balances shown for each reserve.

Table 89: Recycled Water Financial Plan at Existing Rates

Revenue		FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029
Rate Revenues							
Fixed Revenue		\$ 82,000	\$ 82,000	\$ 82,000	\$ 82,000	\$ 82,000	\$ 82,000
Variable Revenue	Table 86	1,064,000	1,064,000	1,064,000	1,064,000	1,064,000	1,064,000
WRES Revenue		20,000	20,000	20,000	20,000	20,000	20,000
Total Rate Revenues		\$ 1,166,000	\$ 1,166,000	\$ 1,166,000	\$ 1,166,000	\$ 1,166,000	\$ 1,166,000
Operating Revenues							
Late Charges	Table 86	\$ 3,000	\$ 3,000	\$ 3,000	\$ 3,000	\$ 3,000	\$ 3,000
Subtotal Operating Revenues		\$ 3,000	\$ 3,000	\$ 3,000	\$ 3,000	\$ 3,000	\$ 3,000
Non-Operating Revenues							
Other Non-Operating Revenue		\$ 1,000	\$ 1,000	\$ 1,000	\$ 1,000	\$ 1,000	\$ 1,000
Property Tax	Table 86	290,000	280,000	270,000	260,000	250,000	250,000
Subtotal Non-Operating Revenues		\$ 291,000	\$ 281,000	\$ 271,000	\$ 265,000	\$ 257,000	\$ 257,000
Total Revenues		\$ 1,460,000	\$ 1,450,000	\$ 1,440,000	\$ 1,434,000	\$ 1,426,000	\$ 1,426,000
O&M Expenses							
Operating Expenses							
Source of Supply		\$ 64,000	\$ 67,000	\$ 70,000	\$ 73,000	\$ 77,000	\$ 80,000
General and Administrative		115,000	120,000	125,000	131,000	137,000	143,000
Salaries & Benefits	Table 87	316,000	333,000	352,000	372,000	392,000	414,000
Transmission & Distribution		459,000	491,000	514,000	538,000	563,000	589,000
CalPERS & OPEB		17,000	16,000	15,000	14,000	13,000	13,000
Other Expenses		69,000	72,000	75,000	78,000	81,000	84,000
Subtotal Operating Expenses		\$ 1,040,000	\$ 1,099,000	\$ 1,151,000	\$ 1,206,000	\$ 1,263,000	\$ 1,323,000
Debt Service							
Credit Line		\$ 7,250	\$ 3,625	\$ -	\$ -	\$ -	\$ -
Refinancing/New Proposed Debt	Table 87	\$ 36,961	\$ 36,961	\$ 36,961	\$ 36,961	\$ 36,961	\$ 36,961
Subtotal Debt Service		\$ 44,211	\$ 40,586	\$ 36,961	\$ 36,961	\$ 36,961	\$ 36,961
Total Expenses		\$ 1,084,211	\$ 1,139,586	\$ 1,187,961	\$ 1,242,961	\$ 1,299,961	\$ 1,359,961
Net Cashflow		\$ 375,789	\$ 310,414	\$ 252,039	\$ 191,039	\$ 126,039	\$ 66,039

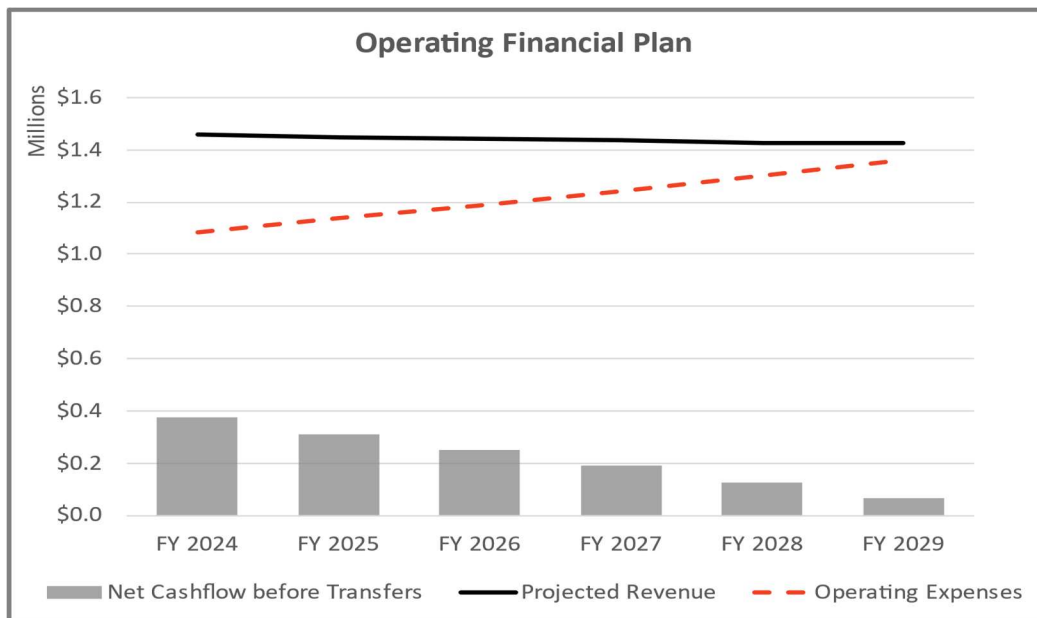
Trabuco Canyon Water District – 2023 Cost-of-Service Study

Table 90: Recycled Water – Transfers and Reserve Activity at Existing Rates

Operating/Working Capital	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029
Beginning Balance	\$ (542,569)	\$ (166,780)	\$ 143,634	\$ 283,808	\$ 297,370	\$ 311,425
Transfers (Net Cashflow)	375,789	310,414	252,039	191,039	126,039	66,039
Transfers from/(to) Capital Reserve	-	-	(111,865)	(177,477)	(111,984)	(51,244)
Ending Balance	\$ (166,780)	\$ 143,634	\$ 283,808	\$ 297,370	\$ 311,425	\$ 326,219
Capital Reserve	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029
Beginning Balance	\$ (221,206)	\$ (221,206)	\$ (475,246)	\$ (1,507,215)	\$ (1,696,653)	\$ (1,833,509)
Plus:						
Transfers from/(to) Operating/Working Capital	-	-	111,865	177,477	111,984	51,244
Grant Revenue	-	194,750	-	-	-	-
Use of Existing Debt Proceeds	220,347	100,353	-	-	-	-
Less:						
CIP	(220,347)	(549,143)	(1,143,834)	(366,915)	(248,840)	(1,733,318)
Transfers from/(to) Recycled Water Rate Stabilization Reserve	-	-	-	-	-	-
Subtotal Capital Reserve	\$ (221,206)	\$ (475,246)	\$ (1,507,215)	\$ (1,696,653)	\$ (1,833,509)	\$ (3,515,582)
Interest Earnings	-	-	-	-	-	-
Ending Balance	\$ (221,206)	\$ (475,246)	\$ (1,507,215)	\$ (1,696,653)	\$ (1,833,509)	\$ (3,515,582)
Recycled Water Rate Stabilization Reserve	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029
Beginning Balance	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Transfers from/(to) Capital Reserve	-	-	-	-	-	-
Ending Balance	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Ending Unrestricted Reserves Balance	\$ (387,986)	\$ (331,612)	\$ (1,223,407)	\$ (1,399,283)	\$ (1,522,084)	\$ (3,189,363)

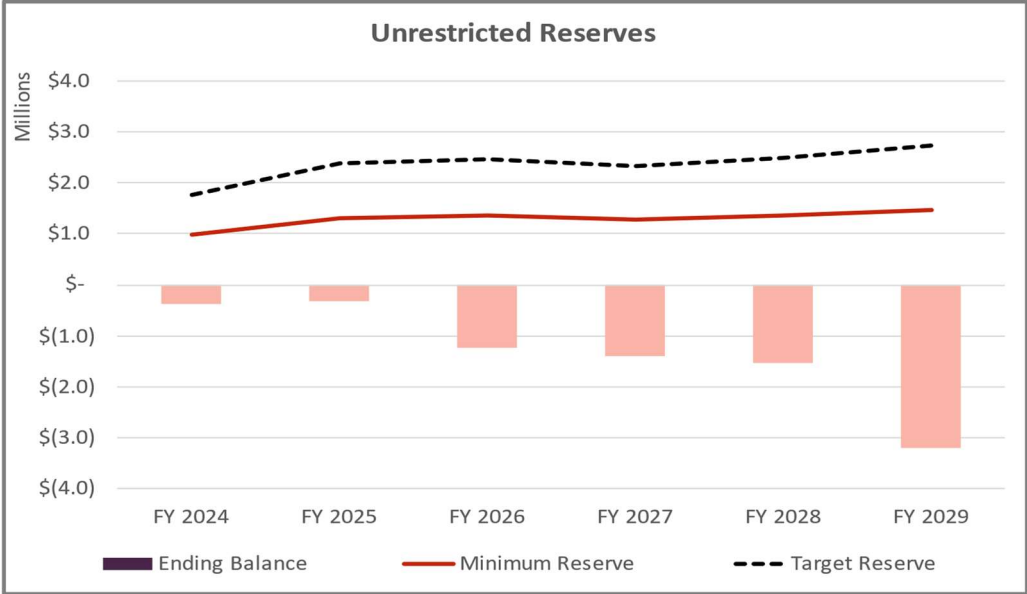
Figure 23 illustrates the operating position of the utility, where O&M expenses are identified with the dashed red trendline, and total revenues at existing rates are shown by the horizontal black trendline. The bars represent the amount of net operating income available. Figure 24 reflects the projected ending balances of reserves after operating, and capital projects are funded through the Financial Plan Period.

Figure 23: Recycled Water Current Operating Financial Position



Trabuco Canyon Water District – 2023 Cost-of-Service Study

Figure 24: Recycled Water Projected Ending Reserves at Existing Rates



Trabuco Canyon Water District – 2023 Cost-of-Service Study

Proposed Financial Plan – Recycled Water Utility

From the financial outlook at existing rates, a proposed financial plan can be developed to adequately fund the multi-year revenue requirements while meeting reserve requirements. Based on funding the capital plan and ensuring reserves meet minimum targets over the Rate Setting Period, Table 91 forecasts projected revenues and expenses over the Financial Plan Period.

Table 91: Recycled Water Proposed Financial Plan

Revenue		FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029
Rate Revenues							
Fixed Revenue		\$ 82,000	\$ 82,000	\$ 82,000	\$ 82,000	\$ 82,000	\$ 82,000
Variable Revenue	Table 86	1,064,000	1,064,000	1,064,000	1,064,000	1,064,000	1,064,000
WRES Revenue		20,000	20,000	20,000	20,000	20,000	20,000
Total Rate Revenues		\$ 1,166,000	\$ 1,166,000	\$ 1,166,000	\$ 1,166,000	\$ 1,166,000	\$ 1,166,000
Additional Revenue (from revenue adjustments):							
Fiscal Year	Revenue Adjustment	Effective Month					
FY 2024	20.0%	July	233,000	233,000	233,000	233,000	233,000
FY 2025	20.0%	July		279,000	279,000	279,000	279,000
FY 2026	20.0%	July			335,000	335,000	335,000
FY 2027	15.0%	July				301,000	301,000
FY 2028	10.0%	July					231,000
FY 2029	0.0%	July					-
Total Additional Revenue		\$ 233,000	\$ 512,000	\$ 847,000	\$ 1,148,000	\$ 1,379,000	\$ 1,379,000
Projected Rate Revenues		\$ 1,399,000	\$ 1,678,000	\$ 2,013,000	\$ 2,314,000	\$ 2,545,000	\$ 2,545,000
Operating Revenues							
Late Charges	Table 86	\$ 3,000	\$ 3,000	\$ 3,000	\$ 3,000	\$ 3,000	\$ 3,000
Subtotal Operating Revenues		\$ 3,000	\$ 3,000	\$ 3,000	\$ 3,000	\$ 3,000	\$ 3,000
Non-Operating Revenues							
Other Non-Operating Revenue	Table 86	\$ 1,000	\$ 1,000	\$ 1,000	\$ 1,000	\$ 1,000	\$ 1,000
Property Tax		290,000	280,000	270,000	260,000	250,000	250,000
Subtotal Non-Operating Revenues		\$ 291,000	\$ 281,000	\$ 274,000	\$ 267,000	\$ 257,000	\$ 267,000
Total Revenues		\$ 1,693,000	\$ 1,962,000	\$ 2,290,000	\$ 2,584,000	\$ 2,805,000	\$ 2,815,000
O&M Expenses							
Operating Expenses							
Source of Supply		\$ 64,000	\$ 67,000	\$ 70,000	\$ 73,000	\$ 77,000	\$ 80,000
General and Administrative		115,000	120,000	125,000	131,000	137,000	143,000
Salaries & Benefits	Table 87	316,000	333,000	352,000	372,000	392,000	414,000
Transmission & Distribution		459,000	491,000	514,000	538,000	563,000	589,000
CalPERS & OPEB		17,000	16,000	15,000	14,000	13,000	13,000
Other Expenses		69,000	72,000	75,000	78,000	81,000	84,000
Subtotal Operating Expenses		\$ 1,040,000	\$ 1,099,000	\$ 1,151,000	\$ 1,206,000	\$ 1,263,000	\$ 1,323,000
Debt Service							
Credit Line	Table 87	\$ 7,250	\$ 3,625	\$ -	\$ -	\$ -	\$ -
Refinancing/New Proposed Debt		73,922	73,922	73,922	73,922	73,922	73,922
Subtotal Debt Service		\$ 81,172	\$ 77,547	\$ 73,922	\$ 73,922	\$ 73,922	\$ 73,922
Total Expenses		\$ 1,121,172	\$ 1,176,547	\$ 1,224,922	\$ 1,279,922	\$ 1,336,922	\$ 1,396,922
Net Cashflow		\$ 571,828	\$ 785,453	\$ 1,065,078	\$ 1,304,078	\$ 1,468,078	\$ 1,418,078

Trabuco Canyon Water District – 2023 Cost-of-Service Study

Table 92: Recycled Water Transfers and Reserve Activity

Operating/Working Capital	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029
Beginning Balance	\$ (542,569)	\$ 29,259	\$ 270,986	\$ 283,808	\$ 297,370	\$ 311,425
Transfers (Net Cashflow)	571,828	785,453	1,065,078	1,304,078	1,468,078	1,418,078
Transfers from/(to) Capital Reserve	-	(543,726)	(1,052,256)	(1,290,516)	(1,454,023)	(1,403,283)
Ending Balance	\$ 29,259	\$ 270,986	\$ 283,808	\$ 297,370	\$ 311,425	\$ 326,219
Capital Reserve	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029
Beginning Balance	\$ (221,206)	\$ 279,370	\$ 577,540	\$ 496,597	\$ 1,439,366	\$ 1,662,101
<u>Plus:</u>						
Transfers from/(to) Operating/Working Capital	-	543,726	1,052,256	1,290,516	1,454,023	1,403,283
Grant Revenue	-	194,750	-	-	-	-
Use of Existing Debt Proceeds	220,347	100,353	-	-	-	-
<u>Less:</u>						
CIP	(220,347)	(549,143)	(1,143,834)	(366,915)	(248,840)	(1,733,318)
Transfers from/(to) Recycled Water Rate Stabilization Reserve	-	-	-	-	(1,013,155)	-
Subtotal Capital Reserve	\$ 278,794	\$ 569,055	\$ 485,962	\$ 1,420,198	\$ 1,631,394	\$ 1,332,067
Interest Earnings	576	8,484	10,635	19,168	30,708	29,942
Ending Balance	\$ 279,370	\$ 577,540	\$ 496,597	\$ 1,439,366	\$ 1,662,101	\$ 1,362,009
Recycled Water Rate Stabilization Reserve	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029
Beginning Balance	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,013,155
Transfers from/(to) Capital Reserve	-	-	-	-	1,013,155	-
Ending Balance	\$ -	\$ -	\$ -	\$ -	\$ 1,013,155	\$ 1,013,155
Ending Unrestricted Reserves Balance	\$ 308,629	\$ 848,526	\$ 780,405	\$ 1,736,736	\$ 2,986,681	\$ 2,701,383

Trabuco Canyon Water District – 2023 Cost-of-Service Study

Figure 25 identifies the operating position based on the proposed financial plan, and Figure 26 show the capital plan with funding sources. Figure 27 identifies the ending reserve balances.

Figure 25: Recycled Water Proposed Operating Position

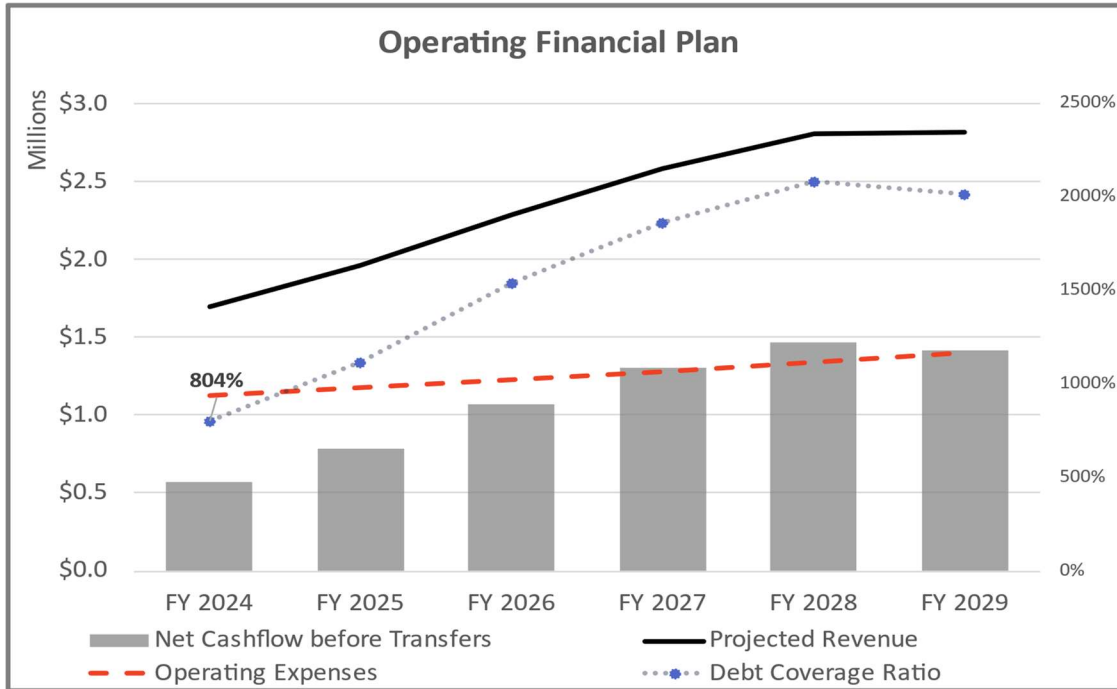
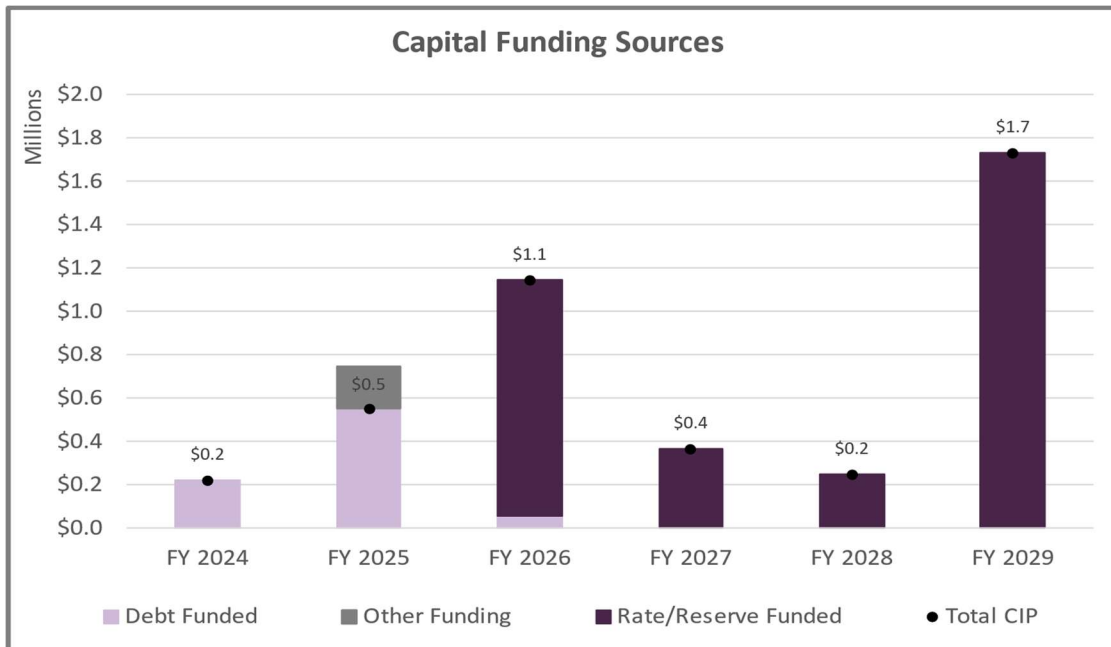
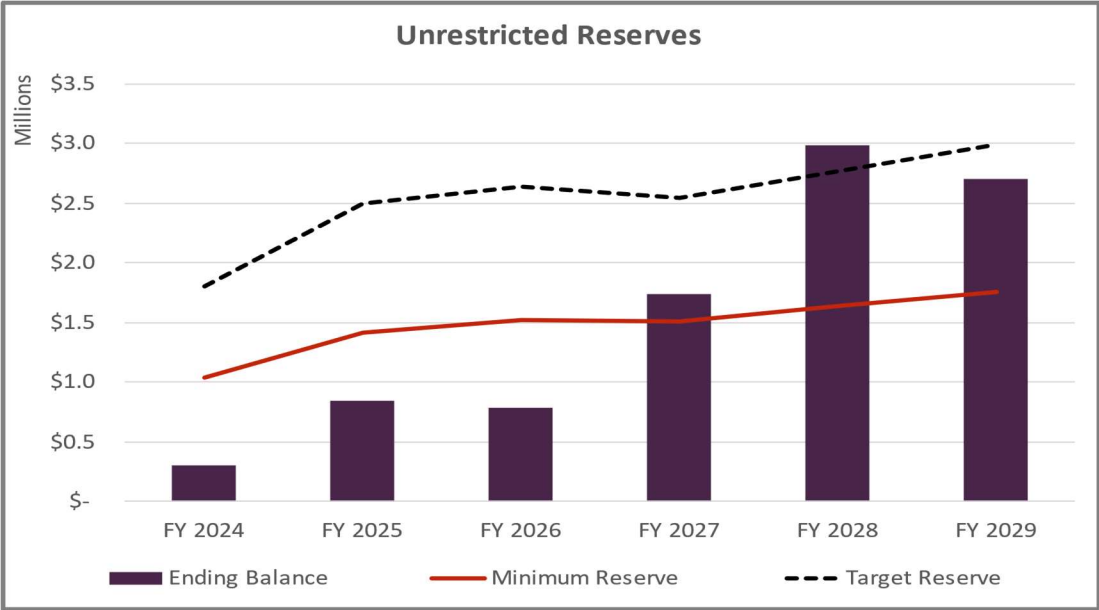


Figure 26: Recycled Water Capital Improvement Plan with Funding Sources



Trabuco Canyon Water District – 2023 Cost-of-Service Study

Figure 27: Recycled Water Proposed Ending Reserves



Trabuco Canyon Water District – 2023 Cost-of-Service Study

Cost-of-Service Analysis – Recycled Water Utility

Cost-of-Service Process

The next step in developing recycled water rates is to perform a cost-of-service analysis. Through this process, costs incurred are allocated to customers based on their proportional share. As a result, proposed rates are cost-based and reflect the costs incurred to provide service to customers.

Revenue Requirements

FY 2024 revenue requirements were used for the cost-of-service analysis. Revenue requirements include O&M expenses, treatment plant expenses, debt, revenue offsets, and reserve funding. The proposed revenue adjustments and corresponding rates accumulate the necessary funding over the Rate Setting Period to fund O&M, capital projects, and comply with minimum reserve requirements by FY 2027. The results of the financial plan analysis are summarized in Table 93 and represent the revenue required from rates over the Rate Setting Period.

Table 93: Recycled Water Revenue Requirements

	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Revenue Requirements	Total	Total	Total	Total	Total
Operating Expenses					
Source of Supply	\$ 64,000	\$ 67,000	\$ 70,000	\$ 73,000	\$ 77,000
General and Administrative	115,000	120,000	125,000	131,000	137,000
Salaries & Benefits	316,000	333,000	352,000	372,000	392,000
Transmission & Distribution	459,000	491,000	514,000	538,000	563,000
CalPERS & OPEB	17,000	16,000	15,000	14,000	13,000
Other Expenses	69,000	72,000	75,000	78,000	81,000
Total Operating Expenses	\$ 1,040,000	\$ 1,099,000	\$ 1,151,000	\$ 1,206,000	\$ 1,263,000
Debt Service					
Credit Line	\$ 7,250	\$ 3,625	\$ -	\$ -	\$ -
Refinancing/New Proposed Debt	73,922	73,922	73,922	73,922	73,922
Total Debt Service	\$ 81,172	\$ 77,547	\$ 73,922	\$ 73,922	\$ 73,922
Total Operating Expenditures	\$ 1,121,172	\$ 1,176,547	\$ 1,224,922	\$ 1,279,922	\$ 1,336,922
Revenue Offsets					
Operating Revenues	\$ (3,000)	\$ (3,000)	\$ (3,000)	\$ (3,000)	\$ (3,000)
Non-Operating Revenues	(291,000)	(281,000)	(274,000)	(267,000)	(257,000)
Total Revenue Offsets	\$ (294,000)	\$ (284,000)	\$ (277,000)	\$ (270,000)	\$ (260,000)
Adjustments					
Reserve Funding	\$ 571,828	\$ 785,453	\$ 1,065,078	\$ 1,304,078	\$ 1,468,078
Total Adjustments	\$ 571,828	\$ 785,453	\$ 1,065,078	\$ 1,304,078	\$ 1,468,078
Revenue Requirement from Rates	\$1,399,000	\$1,678,000	\$2,013,000	\$2,314,000	\$2,545,000

Trabuco Canyon Water District – 2023 Cost-of-Service Study

Rate Design – Recycled Water Utility

Currently, recycled water fixed charges are set at 100% of potable fixed charges; however, given the proposed revenue adjustments within the water utility and the shift in fixed cost recovery from 31% up to approximately 40%, maintaining the 100% equivalency would cause recycled water variable rates to reduce substantially. Therefore, based on direction from District Staff, recycled water fixed charges will be set to 55% of potable, with the remaining multi-year revenue requirements recovered from variable rates. to cover the cost of providing service. Therefore, the amount of annual revenues generated by the meter rates for each fiscal year are determined and then used to derive variable rates for the Rate Setting Period.

Fixed Cost Recovery

Table 94 derives the recycled water monthly meter charges based on 55% potable meter charges over the Rate Setting Period and calculates total revenue generated by the proposed fixed charges based on the meter counts by size in Table 83.

Table 94: Proposed Recycled Water Monthly Meter Charges

Potable Fixed Meter Charges (\$/Month)						
Meter Size	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	
5/8"	\$ 46.84	\$ 55.28	\$ 65.24	\$ 71.77	\$ 78.95	
3/4"	46.84	55.28	65.24	71.77	78.95	
1"	94.93	112.02	132.19	145.41	159.96	
1 1/2"	175.08	206.60	243.79	268.17	294.99	
2"	271.26	320.09	377.71	415.49	457.04	
3"	575.83	679.48	801.79	881.97	970.17	
4"	1024.67	1,209.12	1,426.77	1,569.45	1,726.40	
6"	2098.68	2,476.45	2,922.22	3,214.45	3,535.90	
8"	4503.18	5,313.76	6,270.24	6,897.27	7,587.00	
10"	6747.38	7,961.91	9,395.06	10,334.57	11,368.03	
% of Potable	55.0%	55.0%	55.0%	55.0%	55.0%	
Recycled Fixed Meter Charges (\$/Month)						
Meter Size	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	
5/8"	\$ 25.76	\$ 30.40	\$ 35.88	\$ 39.47	\$ 43.42	
3/4"	25.76	30.40	35.88	39.47	43.42	
1"	52.21	61.61	72.70	79.98	87.98	
1 1/2"	96.29	113.63	134.08	147.49	162.24	
2"	149.19	176.05	207.74	228.52	251.37	
3"	316.71	373.71	440.98	485.08	533.59	
4"	563.57	665.02	784.72	863.20	949.52	
6"	1,154.27	1,362.05	1,607.22	1,767.95	1,944.75	
8"	2,476.75	2,922.57	3,448.63	3,793.50	4,172.85	
10"	3,711.06	4,379.05	5,167.28	5,684.01	6,252.42	
Total	\$149,050	\$175,880	\$207,539	\$228,294	\$251,123	

Trabuco Canyon Water District – 2023 Cost-of-Service Study

Variable Cost Recovery

Table 95 derives the proposed variable rates by taking the total revenue requirement identified in Table 93 and reducing the amount by total fixed revenue calculated in Table 94. The net amount is divided by total recycled water sales to determine the recycled water variable rate for the Rate Setting Period.

Table 95: Proposed Recycled Water Variable Rates

Proposed Recycled Variable Rates (\$/HCF)					
Variable Rates	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Recycled Revenue Requirement	\$ 1,399,000	\$ 1,678,000	\$ 2,013,000	\$ 2,314,000	\$ 2,545,000
Less: Projected Revenue from Fixed	(149,050)	(175,880)	(207,539)	(228,294)	(251,123)
Variable Revenue Requirement	\$ 1,249,950	\$ 1,502,120	\$ 1,805,461	\$ 2,085,706	\$ 2,293,877
÷ Units of Service (Projected Non-Potable Usage)	306,630	306,630	306,630	306,630	306,630
Recycled	\$4.08	\$4.90	\$5.89	\$6.81	\$7.49

Cost-Based Rates – Water, Wastewater, and Recycled Water

Cost-of-Service and Rate Summary

The comprehensive cost-of-service analysis and rate development meet the requirements of Proposition 218 and identify the cost components that make up the proposed water, wastewater, and recycled water fixed charges and variable rates. Proposition 218 requires the following conditions:

1. An agency cannot collect revenue beyond what is necessary to provide service.
The long-term financial plan identifies the District's revenue requirements for each utility, including operating expenses, capital improvement programs, debt, and reserves.
2. Revenues derived by the charge shall not be used for any other purpose other than that for which the charge was imposed.
The District's water, wastewater, and recycled water utilities are analyzed as separate business enterprises to track revenues and expenses and do not fund services other than those necessary for the provision of water, wastewater, and recycled water, respectively.
3. The amount of the fee may not exceed the proportional cost-of-service for the parcel.
The comprehensive cost-of-service analysis, updated fixed charges, and variable rates reflect each customer's fair share of water, wastewater, and recycled water costs, respectively. Through this updated analysis, each customer will pay the proportional cost of providing service to that parcel.
4. No charge may be imposed for a service unless that service is actually used or immediately available to the owner of a property.
Only properties that are actually receiving utility service or have service immediately available to them are required to pay the fixed and variable charges described in this study.
5. A written notice of the proposed charge shall be mailed to the record owner of each parcel at least 45 days prior to the public hearing.
Notices were mailed to each affected parcel owner on May 15, 2023 which is 45 days before the June 29, 2023, Public Hearing.

The proposed water, wastewater, and recycled water 5-year rate schedules (FY 2024 through FY 2028) are shown in the following section. If a majority protest does not occur by or at the June 29th Public Hearing, the District Board may adopt the rates with an effective date of July 1, 2023.

Trabuco Canyon Water District – 2023 Cost-of-Service Study

Rate Schedules – Water, Wastewater, and Recycled Water

Water

Table 96 through Table 98 provide the five-year water rate schedule over the Rate Setting Period for monthly fixed charges, variable rates, and variable pumping rates, respectively. For FY 2025 through FY 2028, the revenue adjustments are applied across the board to the cost-of-service rates derived for FY 2024 as account growth and usage characteristics are projected to remain constant for financial planning.

Table 96: Proposed Water Monthly Fixed Charge (FY 2024 – FY 2028)

Potable Fixed Meter Charges (\$/Month)						
Revenue Adjustment:	18%		18%		10%	10%
Meter Size	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	
5/8"	\$ 46.84	\$ 55.28	\$ 65.24	\$ 71.77	\$ 78.95	
3/4"	46.84	55.28	65.24	71.77	78.95	
1"	94.93	112.02	132.19	145.41	159.96	
1 1/2"	175.08	206.60	243.79	268.17	294.99	
2"	271.26	320.09	377.71	415.49	457.04	
3"	575.83	679.48	801.79	881.97	970.17	
4"	1,024.67	1,209.12	1,426.77	1,569.45	1,726.40	
6"	2,098.68	2,476.45	2,922.22	3,214.45	3,535.90	

Table 97: Proposed Water Variable Charge (FY 2024 – FY 2028)

Potable Variable Rates (\$/HCF)						
Revenue Adjustment:	18%		18%		10%	10%
Customer Class	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	
Single-Family						
Tier 1	\$ 4.40	\$ 5.20	\$ 6.14	\$ 6.76	\$ 7.44	
Tier 2	5.12	6.05	7.14	7.86	8.65	
Tier 3	5.64	6.66	7.86	8.65	9.52	
Multi-Family						
Tier 1	\$ 4.62	\$ 5.46	\$ 6.45	\$ 7.10	\$ 7.81	
Tier 2	5.64	6.66	7.86	8.65	9.52	
Commercial	\$ 4.73	\$ 5.59	\$ 6.60	\$ 7.26	\$ 7.99	
Irrigation	\$ 4.73	\$ 5.59	\$ 6.60	\$ 7.26	\$ 7.99	
Agricultural	\$ 4.73	\$ 5.59	\$ 6.60	\$ 7.26	\$ 7.99	
Portola Hills	\$ 5.25	\$ 6.20	\$ 7.32	\$ 8.06	\$ 8.87	

Trabuco Canyon Water District – 2023 Cost-of-Service Study

Table 98: Proposed Water Variable Pumping Rates (FY 2024 – FY 2028)

Pumping Variable Rates (\$/HCF)					
Revenue Adjustment:		18%	18%	10%	10%
Pumping Zone	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Zone 1 - Base	\$ -	\$ -	\$ -	\$ -	\$ -
Zone 2 - Topanga / Saddlecrest	0.53	0.63	0.75	0.83	0.92
Zone 3 - Canyon Creek	0.94	1.11	1.31	1.45	1.60
Zone 4 - Falcon	1.44	1.70	2.01	2.22	2.45
Zone 5 - Joplin	0.14	0.17	0.21	0.24	0.27

Wastewater

Table 99 provides the five-year wastewater rate schedule over the Rate Setting Period for monthly fixed charges and variable rates. For FY 2025 through FY 2028, the revenue adjustments are applied across the board to the cost-of-service rates derived for FY 2024 as account growth and usage characteristics are projected to remain constant for financial planning.

Table 99: Proposed Wastewater Monthly Fixed Charge (FY 2024 – FY 2028)

Wastewater Rates					
Revenue Adjustment:		16.0%	16.0%	12.0%	12.0%
Flat Charges (\$/Month)					
Customer Class	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Residential	\$ 45.92	\$ 53.27	\$ 61.80	\$ 69.22	\$ 77.53
Commercial	\$ 12.58	\$ 14.60	\$ 16.94	\$ 18.98	\$ 21.26
Variable Rates (\$/HCF)					
Commercial					
Low	\$ 4.78	\$ 5.55	\$ 6.44	\$ 7.22	\$ 8.09
Medium	8.00	9.28	10.77	12.07	13.52
High	12.36	14.34	16.64	18.64	20.88

Trabuco Canyon Water District – 2023 Cost-of-Service Rate Study

Recycled Water

Table 100 and Table 101 provide the five-year recycled water fixed charges and variable rates over the Rate Setting Period, respectively. For FY 2025 through FY 2028, fixed charges are 55% of potable rates and the remaining revenue requirements for recycled water services are recovered from the variable rates.

Table 100: Proposed Recycled Water Monthly Fixed Charge (FY 2024 – FY 2028)

% of Potable	55.0%	55.0%	55.0%	55.0%	55.0%
Non-Potable Fixed Meter Charges (\$/Month)					
Meter Size	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
5/8"	\$ 25.45	\$ 30.03	\$ 35.44	\$ 38.98	\$ 42.88
3/4"	25.45	30.03	35.44	38.98	42.88
1"	51.11	60.32	71.18	78.30	86.14
1 1/2"	93.89	110.79	130.74	143.81	158.19
2"	145.22	171.36	202.21	222.44	244.68
3"	307.77	363.18	428.55	471.41	518.55
4"	547.32	645.84	762.09	838.30	922.14
6"	1,120.52	1,322.22	1,560.22	1,716.24	1,887.87
8"	2,403.81	2,836.50	3,347.07	3,681.78	4,049.96
10"	3,601.54	4,249.82	5,014.80	5,516.28	6,067.91
Total	\$144,784	\$170,846	\$201,600	\$221,760	\$243,937

Table 101: Proposed Recycled Water Variable Rates (FY 2024 – FY 2028)

Proposed Recycled Variable Rates (\$/HCF)					
Variable Rate Analysis	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Recycled Revenue Requirement	\$ 1,399,000	\$ 1,678,000	\$ 2,013,000	\$ 2,314,000	\$ 2,545,000
Less: Projected Revenue from Fixed	(144,784)	(170,846)	(201,600)	(221,760)	(243,937)
Variable Revenue Requirement	\$ 1,254,216	\$ 1,507,154	\$ 1,811,400	\$ 2,092,240	\$ 2,301,063
÷ Units of Service (Projected Non-Potable Usage)	306,630	306,630	306,630	306,630	306,630
Proposed Variable Rates	\$4.10	\$4.92	\$5.91	\$6.83	\$7.51

Trabuco Canyon Water District – 2023 Cost-of-Service Study

Appendix A – Water Supply Analysis

Table 102: Water Supply Analysis

Key Inputs / Assumptions	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Water Loss	7.1%	7.1%	7.1%	7.1%	7.1%
Purchased Water Rates					
Variable Purchased Water Costs (\$/AF)					
Baker (BTP)					
Commodity Rate	\$ 858	\$ 858	\$ 858	\$ 858	\$ 858
SAC Operational Surcharge	0.97	0.97	0.97	0.97	0.97
SCP Operational Surcharge	8.14	8.14	8.14	8.14	8.14
SMWD - Treated					
Commodity Rate	\$ 1,209	\$ 1,209	\$ 1,209	\$ 1,209	\$ 1,209
SCP Operational Surcharge	8.14	8.14	8.14	8.14	8.14
IRWD - Treated					
Treated Commodity Rate	\$ 1,209	\$ 1,209	\$ 1,209	\$ 1,209	\$ 1,209
SCP Operational Surcharge	0.00	0.00	0.00	0.00	0.00
Pumping Surcharge	152	152	152	152	152
Dimension (DWTP)					
Untreated Commodity Rate	\$ 858	\$ 858	\$ 858	\$ 858	\$ 858
SAC Operational Surcharge	0.97	0.97	0.97	0.97	0.97
Portola Hills					
Commodity Rate	\$ 1,396	\$ 1,396	\$ 1,396	\$ 1,396	\$ 1,396
City of San Clemente					
BTP Commodity Rate	\$ 855	\$ 855	\$ 855	\$ 855	\$ 855
Fixed Purchased Water Costs					
MWDOC					
Capacity Charge - 1st Half (Jul - Dec)	\$ 28,796	\$ 28,796	\$ 28,796	\$ 28,796	\$ 28,796
Capacity Charge - 2nd Half (Jan - Jun)	28,796	28,796	28,796	28,796	28,796
Readiness to Serve	166,838	166,838	166,838	166,838	166,838
Annual Connection Fees	56,073	56,073	56,073	56,073	56,073
SMWD					
Chiquita Fixed O&M	12,191	12,191	12,191	12,191	12,191
Chiquita Variable O&M	2,952	2,952	2,952	2,952	2,952
IRWD					
BTP O&M	305,227	305,227	305,227	305,227	305,227
BTP Standby Charge	13,878	13,878	13,878	13,878	13,878
Portola Hills					
Fixed Charge	43,541	43,541	43,541	43,541	43,541
Subtotal Fixed Purchased Water Costs	\$ 658,291	\$ 658,291	\$ 658,291	\$ 658,291	\$ 658,291
Variable Purchased Water Costs					
Total Billings/Sales (AF)	2,323 AF	2,323 AF	2,323 AF	2,323 AF	2,323 AF
Portola Sales (AF)	145 AF	145 AF	145 AF	145 AF	145 AF
Sales less Portola	2,178 AF	2,178 AF	2,178 AF	2,178 AF	2,178 AF
Water Purchases (AF)					
TCWD Demand (AF) (including water loss)	2,344 AF	2,344 AF	2,344 AF	2,344 AF	2,344 AF
Baker (BTP)	368 AF	368 AF	368 AF	368 AF	368 AF
SMWD - Treated	26 AF	26 AF	26 AF	26 AF	26 AF
IRWD - Treated	591 AF	591 AF	591 AF	591 AF	591 AF
Dimension (DWTP)	1,359 AF	1,359 AF	1,359 AF	1,359 AF	1,359 AF
Portola Hills	145 AF	145 AF	145 AF	145 AF	145 AF
Water Sales - BTP	867 AF	867 AF	867 AF	867 AF	867 AF
Calculated Variable Purchased Water Costs					
TCWD					
Baker (BTP)	\$ 319,442	\$ 319,442	\$ 319,442	\$ 319,442	\$ 319,442
SMWD - Treated	31,633	31,633	31,633	31,633	31,633
IRWD - Treated	804,895	804,895	804,895	804,895	804,895
Dimension (DWTP)	1,167,189	1,167,189	1,167,189	1,167,189	1,167,189
Portola Hills	201,954	201,954	201,954	201,954	201,954
Water Sales - BTP	741,392	741,392	741,392	741,392	741,392
Total Calculated Variable Purchased Water Costs	\$ 3,266,506	\$ 3,266,506	\$ 3,266,506	\$ 3,266,506	\$ 3,266,506
Pumping Costs					
T&D - Electricity	\$ 263,412	\$ 284,485	\$ 298,709	\$ 313,645	\$ 329,327
Subtotal Pumping Costs	\$ 263,412	\$ 284,485	\$ 298,709	\$ 313,645	\$ 329,327

Trabuco Canyon Water District – 2023 Cost-of-Service Study

Table 103: Water Supply Analysis Summary

Purchased Water Costs Summary	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Fixed Purchased Water Costs					
MWDOC	\$ 281,000	\$ 281,000	\$ 281,000	\$ 281,000	\$ 281,000
SMWD	16,000	16,000	16,000	16,000	16,000
IRWD	320,000	320,000	320,000	320,000	320,000
Portola Hills	44,000	44,000	44,000	44,000	44,000
Subtotal Fixed Purchased Water Costs	\$ 661,000	\$ 661,000	\$ 661,000	\$ 661,000	\$ 661,000
Variable Purchased Water Costs					
TCWD					
Baker (BTP)	\$ 320,000	\$ 320,000	\$ 320,000	\$ 320,000	\$ 320,000
SMWD - Treated	32,000	32,000	32,000	32,000	32,000
IRWD - Treated	805,000	805,000	805,000	805,000	805,000
Dimension (DWTP)	1,168,000	1,168,000	1,168,000	1,168,000	1,168,000
Portola Hills	202,000	202,000	202,000	202,000	202,000
Water Sales - BTP	742,000	742,000	742,000	742,000	742,000
Subtotal Variable Purchased Water Costs	\$ 3,269,000	\$ 3,269,000	\$ 3,269,000	\$ 3,269,000	\$ 3,269,000
Pumping Costs					
T&D - Electricity	\$ 264,000	\$ 285,000	\$ 299,000	\$ 314,000	\$ 330,000
Subtotal Pumping Costs	\$ 264,000	\$ 285,000	\$ 299,000	\$ 314,000	\$ 330,000
Total Water Supply Costs	\$ 4,194,000	\$ 4,215,000	\$ 4,229,000	\$ 4,244,000	\$ 4,260,000



Solutions through Collaboration

Utility Rate Cost-of-Service Study

Submittal Due Date:

November 10, 2025

Trabuco Canyon Water District
Attn: Fernando Paludi
32003 Dove Canyon Drive
Trabuco Canyon, CA 92679

Dear Fernando Paludi,

IB Consulting LLC (IB Consulting) is excited to submit this proposal to assist the Trabuco Canyon Water District (District) with updating its long-term financial plan and developing cost-based rates for its water, wastewater, and recycled enterprises. Our scope includes a detailed work plan that will recover the utility's revenue requirements and establish rates that comply with Proposition 218 and account for recent court rulings in California.

Based on our recent interactions with District staff and the Board, we feel we have a solid understanding of the District's needs. We are aware of the objectives for this study and incorporated multiple meetings with the Board. We anticipate presenting our findings and receiving Board direction and input at each major milestone of the study. At each Board workshop, key policy decisions will be identified that requires direction from the Board for developing updated rates.

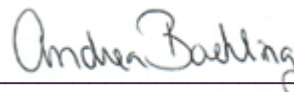
Our scope includes ongoing engagement with District staff throughout the study to foster open communication, keep the project team aligned, and ensure staff is actively involved in reviewing our recommendations and exploring available options. We'll conduct a comprehensive cost-of-service analysis that is thorough, transparent, and tailored to reflect the District's unique characteristics.

Our scope also recognizes our previous and ongoing work with the District, which provides efficiencies and cost savings when compared to performing this work from scratch. If you have any questions regarding the proposal or would like to discuss any section in more detail, please contact us directly.

Sincerely,



Habib Isaac - Principal | Managing Partner
951-595-9354
hisaac@IBconsultinginc.com
Salem, OR 97302



Andrea Boehling - Principal | Managing Partner
615-870-9371
aboehling@IBconsultinginc.com
Winchester, CA 92596



Background & Approach

The District is seeking a well-versed and experienced project team to assist with updating each of its utility's long-term financial plans, developing sound capital funding plans, reviewing existing rates and the current rate structure, evaluating rate alternatives, and deriving cost-based rates in compliance with Proposition 218. Our approach includes a series of meetings with the Board to present findings, discuss key assumptions, and explore policy-driven options that will shape rate development. These meetings are designed to promote transparency and encourage community engagement throughout the process. We anticipate the project spanning approximately 9 months, and our management includes periodic check-ins with District staff and meeting minutes to ensure that decisions are documented.

From the outset, we will establish clear lines of communication with District staff. We will review relevant data, identify if any additional data is required, and allocate time to walk through model development at each milestone prior to Board presentations.

Collaborating with staff is a cornerstone of our business practice and generates tailored results reflecting each client's unique characteristics

We will develop technically defensible rates, account for changes in water demand, satisfy revenue requirements, attempt to minimize rate spikes, while maintaining healthy reserves.

Obtaining community buy-in is essential to utility rate studies. The best way to achieve community buy-in is to hold meetings throughout the project and separate the project into easily digestible components that build upon one another. We must also understand competing objectives between what's best for the utility and what's important to various stakeholders. The key is to clearly explain why certain options are recommended and obtain feedback from the Board for each major milestone of the study.

Through this process, we will present viable rate recommendations to the Board for consideration. The preferred rate alternative selected by the Board will be incorporated into the Proposition 218 Notice and Cost-of-Service Report.

Within our work plan, ***we have included details regarding required tasks, meetings, and deliverables.*** The detailed scope below describes each task and sets forth how we envision working through this engagement to develop rates.

Task 1: Data Collection and Kick-off Meeting

As part of project initiation, we will meet with staff to discuss the overall approach to the project, an initial timeline for completion, and identify key milestones. To ensure a productive kick-off meeting, we will first provide a data request of the items required to complete the rate study. Ideally, the kick-off meeting will be scheduled two to three weeks after providing the data request to allow ample time for the District to compile the data and for us to review it. During our meeting, we will discuss the following items:

1. Any questions we have regarding the data received.
2. Overview of current financial position.
3. Review District water supplies, including total production and cost.
4. Capital needs, project scheduling, with potential funding sources.
5. Reserve policies and funding levels.
6. Policy considerations, state mandates, and any regulatory requirements to address.
7. Identify any areas of concern to the rate structure (fixed charges will be a primary focus).
8. Our initial recommended adjustments to rates based on recent court rulings.



The kick-off meeting will conclude with an initial framework of the study, clear lines of communication between us and staff, and specific dates for scheduled meetings.

Meetings: One (1) in-person kick-off meeting with staff.

Deliverable: Data request, agenda for kick-off discussion, and meeting minutes.

Task 2: Financial Plan Development

Financial planning incorporates numerous considerations besides projecting operating expenses. Utilities need to account for changes in water/flow demand driven by variations in usage, growth, and weather. In addition, reserves, new regulatory mandates, and debt compliance also influence revenue needs in future years.

Therefore, a comprehensive financial plan reviews various aspects of each utility.

We will review the revenue requirements to capture all costs, including existing debt coverage, anynew proposed debt issuances, and reserve funding. We will include historical financials andprojected revenue requirements, including the Capital Improvement Plan (CIP).



CAPITAL PLANNING

Developing a funding approach for the CIP is critical to ensure rates generate adequate revenue for maintaining and reinvesting in the utility system. With the array of capital spending needs, identifying the timing of projects and funding sources can generate various scenarios to consider as part of prioritizing short-term and long-term needs. Our model will incorporate the ability to select from different capital plan scenarios and instantly review how the capital spending plan folds into the total revenue requirements. Our modeling will include:

1. Projections of the utility's revenue needs for the next 10 years and beyond to capture any significant capital costs on the horizon.
2. Ability to develop and select up to five different CIP scenarios that may vary by the inclusion/exclusion of projects, estimated project costs, and timing of projects.
3. CIP funding sources, including reserves, capacity fees, grants, and debt-financing. We will evaluate if any projects should be debt-financed based on the project size and useful life.
4. Rate impacts due to varying levels of capital funding.

A sound capital facility funding plan is one of the primary ways to minimize rate spikes by slowly building up reserves for future capital needs. Our capital planning assessment will provide a means to determine impacts on customers and show how certain scenarios can smooth out rates.

REVIEW EXISTING RESERVE POLICIES

Ensuring a utility is a self-sufficient business enterprise requires a review of the fiscal policies, established reserves and related targets. Reserves are a critical component of a utility's long-term financial health and overall revenue requirements. Reserves also assist with minimizing rate spikes and mitigates financial risk to ensure revenue stability. With new Board members, we recommend a review of current reserve policies, which is a key driver in determining the District's multi-year revenue requirements. Any adjustments to reserve policies will be incorporated into the financial plan model to identify the fiscal impacts of any changes.

REVENUE REQUIREMENTS

We will update the existing models to determine revenue adjustments for the planning period. Expenses will be projected and will incorporate separate inflationary categories including, but not limited to, salaries, benefits, energy costs for pumping zones, treatment, and water supply costs. During the 2023 Rate Study, a substantial amount of time was required to accurately derive the District's unit rates for each water supply and model total water supply costs. We anticipate less time than the 2023 Rate Study, but we still anticipate this will be a significant part of the new rate study.

Our financial plans include a comprehensive consumption analysis. We will calculate rate revenue using the raw billing data and compare it to actual revenues within the latest audited financials. Doing so will provide an initial quality assurance check that the raw billing data and units of service driving the updated model are fundamentally sound for forecasting future revenue needs. This will also allow us to model "what-if" scenarios with changes to growth, potable and recycled water demand, wastewater flows, and projected usage between customer classes.

The updated financial plan models will include the ability to develop different financial plan options based on changes to CIP, and reserve funding. The financial plan model will also include an infographic interface (Financial Dashboard) created with the end-user in mind. The Financial Dashboard will include the current financial operating position and projected annual net income, required capital needs with funding sources, reserves, ending reserve balances, and toggles to dynamically change assumptions and compare scenarios. Our Financial Dashboards are a key element to our models and assist with communicating the financial health of each utility.

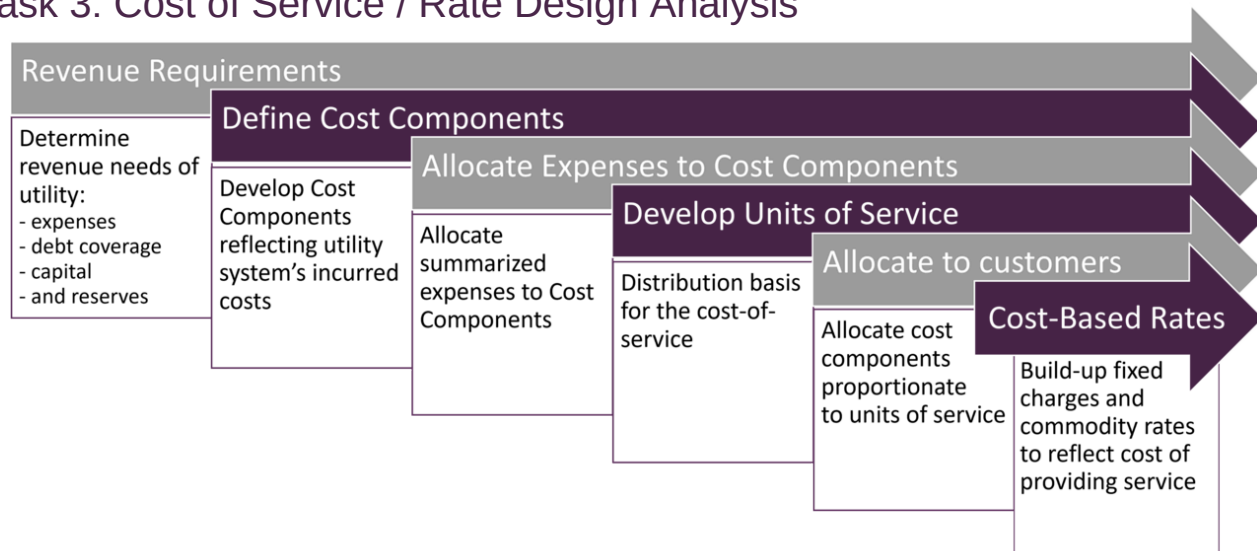
We will hold a financial plan workshop with the Board to review the District's current financial position at current approved rates and the proposed long-term financial plan. As part of our workshop, we will identify key drivers to the District's revenue requirements and how adjustments to those key drivers impact the District's revenue needs. We will also discuss our initial approach to the next steps of the project, including cost-of-service analysis and rate development.



Meetings: Webinars with staff as needed during the development of financial plan and to finalize proposed financial plan options. One (1) in-person Board workshop to review the proposed financial plan and one (1) additional meeting with the Board if adjustments are requested.

Deliverable: Financial plan model, which will include information on total accounts by customer class, consumption by class, and current fixed / variable revenue profile.

Task 3: Cost of Service / Rate Design Analysis



The cost-of-service analysis is a critical component of any rate study and directly ties to how rates will adjust, which ultimately impacts customer bills and provides a sound nexus between costs incurred and proposed rates. Through our discussions with staff at the kick-off meeting and our collaboration in developing the financial plan, the initial cost-of-service analysis will reflect our recommendations for Proposition 218 compliance, account for recent court rulings, and feedback received from District staff and the Board. We will walk staff through the cost-of-service, identify recommended adjustments based on the specific goals of this study, and provide multiple viable options for consideration. Discussion points will include:

1. Comparison of revenue recovered from fixed charges versus how much is recovered from variable rates and percent change from the current rate recover
2. Any adjustments to the meter grouping and meter equivalent
3. Comprehensive consumption analysis to capture new usage trends and provide insight into the amount of revenue recovered between customer classes
4. Cost components to show how updated rates were derived and expenses recovered.

As part of this engagement, we will review existing rates and identify objectives/goals to achieve with the proposed rates, evaluate rate alternatives, and document the nexus between costs incurred and proposed rates. Our analysis and rate design will incorporate the following



Existing Rates
What's working and what's not?



Rate Objectives
What should be achieved with proposed rates?



Rate Alternatives
What type of rate options should be evaluated?



Cost-of-Service
Are rates justifiable and do they comply with Prop. 218?

The primary objective of this project is to develop equitable, cost-based rates that recover the utility's multi-year revenue requirements, satisfy debt service coverage, maintain healthy reserves, and are palatable to District customers. We will provide an evolution of rates that will provide insight with recent court cases and why certain rate options might be eliminated during the project and why other rate options continue to be evaluated. Each option will be discussed with District staff, along with the following:

1. Sensitivity analysis with any changes to the rate structure and demand projections.
2. If tiers will remain, the basis for the tiered allotments and break points between each tier. Identify the costs that make up each tier justifying the corresponding rate.
3. Review and update wholesale water supply costs and pass-through provisions.
4. Level of capital spending and funding strategy, including with and without debt-financing.
5. Water Shortage Surcharges that connect to the various stages of the District's Water Shortage Contingency Plan (WSCP).
6. Customer impacts for each rate alternative.

Water Shortage Surcharges

Water Shortage Surcharges are not only to combat drought, but may also be implemented due to other circumstances such as, a system failure, contaminated water supply, or other event that isn't directly related to drought conditions.



Water Shortage Surcharges will maintain the necessary revenue recovery during a water shortage. Water Shortage Surcharges will curtail any revenue losses from significant usage reductions outside the District's control. We will model various reductions in water usage based on the District's WSCP and develop rates that continue to meet the District's revenue needs.

Water Shortage Surcharges may be structured differently than how base rates are developed. The revenue loss could be recovered solely through increased variable rates (which is where the revenue loss occurred), or the revenue loss may be recovered through higher fixed charges when certain stages are reached. These policy decisions will be discussed along with bill impacts.

Meetings: Webinars with staff to review cost-of-service analysis and rate design options to finalize proposed rates for the rate workshops.

Deliverable: Rate model, including Water Shortage Surcharges.

Task 4: Rate Workshops

With the proposed rates completed and thoroughly discussed with staff, rate workshops will be held with the Board to discuss proposed rates, rate alternatives that may vary by changes to the financial plan, level of revenue increases, and adjustments to the current rate structure. IB Consulting will prepare presentation materials and attend the workshops. At the first Board rate workshop, we will present our initial proposed rate options based on the financial plan options presented as part of Task 2.

During the first workshop, the primary drivers for rate increases will be discussed as well as any rate alternatives. For each option, we will identify how each impacts the District's short-term and long-term financial health, and how the corresponding rates impact customer bills.

A second workshop will be conducted, based on direction received from the Board at the first workshop and feedback from the Community Workshops (Task 5). We will include financial metrics for the Board to consider when determining the best rate option for its constituency. In addition, we will perform a rate survey comparing the District's proposed rates to that of neighboring agencies to determine how customers' monthly bills compare to the local area.

Meetings: Webinars with staff to review presentation materials. Up to two (2) Board rate workshops.

Deliverable: Presentation materials and rate survey.

Task 5: Community Workshops

IB Consulting recommends scheduling two workshops with the community (one on the morning and one in the evening) to obtain feedback and answer questions that District customers may have regarding the proposed rates. It is important to determine when is the best time to meet with the District customers over the course of the project. To ensure we receive feedback before rates are finalized, we recommend holding Community Workshops after the first rate workshop is held with the Board. We will walk customers through the development of the proposed rates, identify key drivers, and summarize the feedback/direction that we received from the Board. After the conclusion of the Community Meetings, we will determine if any other rate adjustments should be considered based on the feedback received from customers. We will provide a summary of the feedback we received from the community as part of the second Rate Workshop with the Board.

Meetings: Two (2) Community Workshops on the same day, with one meeting schedule in the morning and the other in the evening.

Deliverable: PowerPoint and any other presentation materials.

Task 6: Rate Study Report

Once the analysis is completed and rates finalized, we will draft a report in compliance with Proposition 218 to serve as part of the administrative record. Our report will document assumptions, current financial position, capital needs, describe the methodology, and walk the reader through the underlying calculations that derive the proposed utility rates. We'll include an Executive Summary highlighting the primary drivers of each utility's revenue and rate adjustments.

Meetings: Webinars as needed to finalize the report.

Deliverable: Draft report and final report.

Task 7: Noticing and Public Hearing

IB Consulting will review the District's Proposition 218 to ensure it ties directly to our analysis and report. We will also provide rate tables and graphics showing customer impacts. We will be in attendance at the Public Hearing to answer any technical questions and will provide a brief presentation summarizing the report, our findings, and proposed rates, if desired.

Meetings: One (1) in-person meeting to attend the Public Hearing.

Deliverable: Proposition 218 Notice comments/edits and Public Hearing presentation.

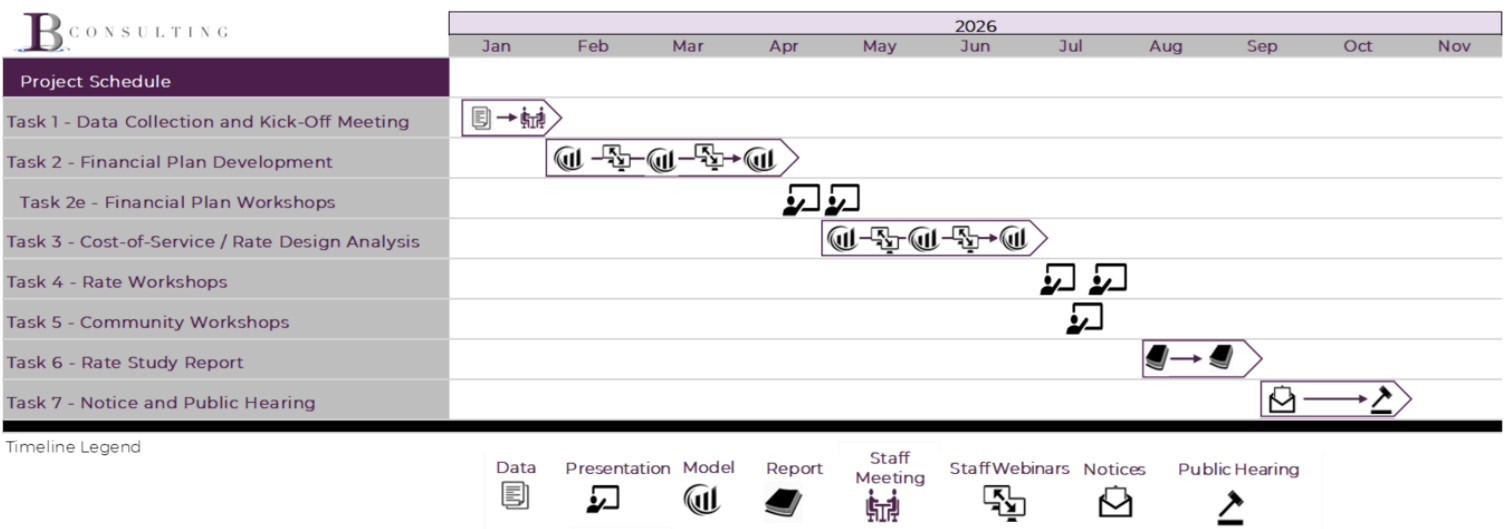
We recognize that the Final Report serves two distinct purposes:

- 1) Backup to our technical analysis.
- 2) A clear and concise story of the drivers related to proposed rates.



Project Schedule

Below is an initial timeline of the project schedule for completion of the report and Proposition 218 Notice by September 2026, with a Public Hearing in October. The project schedule identifies specific tasks, expected deliverables, and anticipated meetings throughout the project for the completion of this study. The schedule will be updated with specific dates for deliverables as part of our kick-off meeting with District staff.



* Community Workshops will be on the same day, one in the morning and one in the evening.

Cost Proposal

Below is our *not-to-exceed* cost proposal for the scope of services outlined herein. **Our cost estimate recognizes that we previously performed the last rate study and have continued to assist the District through on-call consulting services, which generates cost-savings.** Our last study, including the extra meetings, totaled \$137,508. Our new proposed budget is (~\$41,500) less than the original study, even with one extra meeting and our current 2025 rates at \$250/hour versus \$210/hour. Our scope for the financial plan updates assume one budget file update per utility, additional budget file updates/processing will be an charged based on our hourly rates.

We will bill monthly based on our hourly rates and direct travel expenses. In addition, the cost for printing and mailing the Proposition 218 Notice is not part of the cost proposal. We also provided our hourly rates for any additional services or meetings.

Task	Description	In-Person Meetings	Principal \$250	Sr. Consultant \$200	Estimated Hours	Total Cost
1	Data Collection and Kick-Off Meeting	1	24	4	28	\$6,800
2	Financial Plan Development		88	88	176	\$39,600
2a	Account and Consumption Analysis		16	32		
2b	Potable Financial Plan		32	24		
2c	Recycled Financial Plan		8	16		
2d	Wastewater Financial Plan		8	16		
2e	Financial Plan Workshops	2	24	-		
3	Cost-of-Service / Rate Design Analysis		56	30	86	\$20,000
3a	Potable Rate Design Development		24	8		
3b	Recycled Rate Design Development		12	6		
3c	Wastewater Rate Design Development		16	8		
3d	Water Shortage Surcharges		4	8		
4	Rate Workshops	2	24	12	36	\$8,400
5	Community Workshops	2	24	-	24	\$6,000
6	Rate Study Report		32	8	40	\$9,600
7	Notice and Public Hearing	1	14	-	14	\$3,500
	Travel Expenses					\$2,060
Total		8	262	142	404	\$95,960

Hourly Rate Schedule

Principal	\$250 / Hr
Sr. Consultant	\$200 / Hr
Additional In-Person Meetings (includes Labor [8 hrs] + Direct Travel Expense)	\$4,000

**TRABUCO CANYON WATER DISTRICT
REGULAR BOARD MEETING | NOVEMBER 19, 2025**

**ACTION CALENDAR
FINANCIAL MATTERS**

ITEM 10: ADOPTION OF RESOLUTION FOR REIMBURSEMENT OF CERTAIN COSTS FROM PROCEEDS OF TAX EXEMPT OBLIGATIONS

Trabuco Canyon Water District (TCWD or District) is implementing a long-term Capital Improvement Program (CIP) to ensure continued safe and reliable water, sewer, and recycled water services to its customers. An essential element of the financing plan for the CIP is to strategically borrow funds, in addition to the use of reserves and revenue from rates and charges. Given the District's current level of reserves and planned capital projects over the next several years, the District's Treasurer has identified the need to borrow additional funds in the near future. The exact timing of a new loan will be dependent upon ongoing construction timelines and the rate of drawdown of existing loan proceeds.

In preparation for additional borrowing, staff recommends the adoption of a reimbursement resolution. A reimbursement resolution allows the District to reimburse itself for certain project costs expended prior to the incurrence of a tax-exempt borrowing, from the proceeds of the borrowing. The draft reimbursement resolution is included as Exhibit 1.

Adopting a reimbursement resolution does not commit the District to incur additional debt; it is a tool that adds flexibility to financial planning so that if unrestricted reserves (which are currently below target levels) are needed to cover capital costs prior to issuing debt, those reserve funds can be restored at the time of the transaction.

FUNDING SOURCE:

Not applicable.

FISCAL IMPACT

None at this time.

COMMITTEE STATUS:

This matter was reviewed with the Finance/Audit Committee.

RECOMMENDED ACTION:

Adopt Resolution No. 2025-1359 – A Resolution of the Board of Directors of the Trabuco Canyon Water District Regarding Its Intention to Reimburse Certain Costs from Proceeds of Tax-Exempt Obligations.

EXHIBITS:

1. Resolution No. 2025-1359 – A Resolution of the Board of Directors of the Trabuco Canyon Water District Regarding Its Intention to Reimburse Certain Costs from Proceeds of Tax-Exempt Obligations.

CONTACTS (staff responsible): PALUDI/BERG/WARNER

RESOLUTION NO. 2025-1359

RESOLUTION OF THE BOARD OF DIRECTORS OF THE TRABUCO CANYON WATER DISTRICT REGARDING ITS INTENTION TO REIMBURSE CERTAIN COSTS FROM PROCEEDS OF TAX-EXEMPT OBLIGATIONS

The Board of Directors of the Trabuco Canyon Water District (the "District") desires to finance the costs of certain public facilities and improvements, all as more fully described in Exhibit A attached hereto and incorporated herein (the "Project").

The District expects to utilize funding sources to pay for eligible costs of the Project, including proceeds of bonds and other securities (the "Obligations") to be issued by the Trabuco Canyon Public Financing Authority, the interest upon which is excluded from gross income for federal income tax purposes.

Prior to the execution and delivery of the Obligations, the District desires to incur certain expenditures with respect to the Project from available monies of the District, which expenditures are desired to be reimbursed by the District from a portion of the proceeds of the sale of the Obligations.

THEREFORE, THE BOARD OF DIRECTORS OF THE TRABUCO CANYON WATER DISTRICT HEREBY RESOLVES, DETERMINES AND ORDERS AS FOLLOWS:

Section 1: The District hereby states its intention and reasonably expects to reimburse Project costs incurred prior to the execution and delivery of the Obligations with proceeds of the Obligations. Exhibit A describes either the general character, type, purpose, and function of the Project, or the fund or account from which Project costs are to be paid and the general functional purpose of the fund or account.

Section 2: The reasonably expected maximum principal amount of the Obligations is \$25 million.

Section 3: This resolution is being adopted not later than 60 days after the date ("Expenditure Date or Dates") that the District will expend monies for the portion of the Project costs to be reimbursed from proceeds of the Obligations.

Section 4: Except as described below, the expected date of execution and delivery of the Obligations will be within eighteen months of the later of the Expenditure Date or Dates and the date the Project is placed in service; provided, however, that the reimbursement may not be made more than three years after the original expenditure is paid. For Obligations subject to the small issuer exception of Section 148(f)(4)(D) of the Internal Revenue Code, the "eighteen month limit" of the previous sentence is changed to "three years" and the limitation of the previous sentence beginning with "; provided, . . ." is not applicable.

Section 5: Proceeds of the Obligations to be used to reimburse Project costs are not expected to be used, within one year of reimbursement, directly or indirectly to pay debt service with respect to any obligation (other than to pay current debt service coming due within the next succeeding one-year period on any tax-exempt obligation of the District) or to be held as a reasonably required reserve or replacement fund with respect to an obligation of the District or any entity related in any manner to the District, or to reimburse any expenditure that was originally paid with the proceeds of any obligation, or to replace funds that are or will be used in such manner.

Section 6: This resolution is consistent with the budgetary and financial circumstances of the District as of the date hereof. No monies from sources other than the Obligation issue are, or are reasonably expected to be reserved, allocated on a long-term basis, or otherwise set aside by the District (or any related party) pursuant to their budget or financial policies with respect to the Project costs. To the best of our knowledge, this Board of Directors is not aware of the previous adoption of official intents by the District that have been made as a matter of course for the purpose of reimbursing expenditures and for which tax-exempt obligations have not been issued.

Section 7: The limitations described in Section 3 and Section 4 of this resolution do not apply to: (a) costs of issuance with respect to the Obligations; (b) an amount not in excess of the lesser of \$100,000 or five percent (5%) of the proceeds of the Obligations; or (c) any preliminary expenditures, such as architectural, engineering, surveying, soil testing, and similar costs other than land acquisition, site preparation, and similar costs incident to commencement of construction, not in excess of twenty percent (20%) of the aggregate issue price of the Obligations that finances the Project for which the preliminary expenditures were incurred.

Section 8: This resolution is adopted as official action of the District in order to comply with Treasury Regulation § 1.150-2 and any other regulations of the Internal Revenue Service relating to the qualification for reimbursement of District expenditures incurred prior to the date of execution and delivery of the Obligations, is part of the District's official proceedings, and will be available for inspection by the general public at the main administrative office of the District.

Section 9: This resolution shall take effect immediately.

ADOPTED, SIGNED AND APPROVED November 19, 2025:

President

District Secretary

APPROVED AS TO FORM:

Claire Collins, General Counsel

DRAFT

EXHIBIT A

DESCRIPTION OF PROJECT

Capital Improvement Program projects identified in the 10-year plan as adopted in the Trabuco Canyon Water District Fiscal Year 2026 budget document.

DRAFT

**TRABUCO CANYON WATER DISTRICT
REGULAR BOARD MEETING | NOVEMBER 19, 2025**

**ACTION CALENDAR
ENGINEERING MATTERS**

ITEM 11: AWARD OF CONSTRUCTION CONTRACT FOR HERITAGE SEWER LIFT STATION IMPROVEMENTS

Trabuco Canyon Water District (District) owns and operates the Heritage Sewer Lift Station (Heritage SLS) located on Heritage Drive between Robinson Ranch Road and Silvertree Lane in the Trabuco Highlands Community. The Heritage SLS is a critical pump station that conveys pumped wastewater flows from a portion of the lower Dove Canyon community and Rancho Cielo community (from Via Alegre SLS), Walden Homes, Trabuco Marketplace, Dahlia Court community, and lower Robinson Ranch (from Plano Trabuco SLS) via a sewer force main. The facility also receives gravity sewer flows from the upper Robinson Ranch community and Trabuco Highlands community and serves as the final pump station of the sanitary sewer system before the Robinson Ranch Wastewater Treatment Plant (WWTP).

In FY 22/23, operations requested the installation of a sewer bypass valve assembly for emergency and maintenance work. This work was completed in February 2023. In FY 24/25, construction was completed to install a back-up in stock pump, including new discharge header improvements and isolation valves. The remaining full site upgrades were budgeted for FY 25/26 and FY 26/27, which include dry pit and yard piping improvements, installation of a bypass wet well, gravity sewer main, wet well improvements, MCC upgrades and site/security improvements (Exhibit 1).

In October 2025, staff solicited bids from five contractors, and the following bids were received on November 3, 2025:

Heritage SLS Bids	
Contractor	Cost
Ferreira Construction	\$1,984,813
Pacific Hydrotech	\$2,466,800

Staff have reviewed the bids and checked the references and are recommending awarding the project with the alternative bid item 17A for with the CMU façade and chain link perimeter fence vs. bid item 17, which includes a CMU wall around the perimeter. Staff are recommending the award of Bid Items 1-16, 17A, & 18-20 to Ferreira Construction.

Staff is working with the District’s treasurer on revising the CIP Budget, which includes a contingency that will cover the construction, inspection and engineering services during construction. The revised budget will be brought to the board during the mid-year review. The detailed bid comparison is included as Exhibit 2.

FUNDING SOURCE:

Capital Improvement Program

FISCAL IMPACT (PROJECT BUDGET):

\$1,506,360 (Original)
\$2,500,000 (Proposed)

ENVIRONMENTAL COMPLIANCE:

Notice of Exemption was filed with the County of Orange on October 21, 2021.

RECOMMENDED ACTION:

Authorize the General Manager to award a construction contract for the Heritage SLS Improvement Project to Ferreria Construction Co., Inc DBA Ferreria Coastal Construction, in the amount of \$1,799,813 plus a 10% contingency of \$179,981, for a not-to-exceed amount of \$1,979,794.

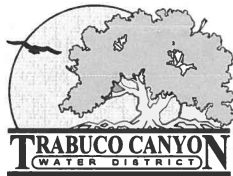
**TRABUCO CANYON WATER DISTRICT
REGULAR BOARD MEETING | NOVEMBER 19, 2025**

EXHIBIT(S):

1. Bid Plans
2. Bid Comparison Summary

CONTACTS (staff responsible): PALUDI/LAUSTEN

TRABUCO CANYON WATER DISTRICT
HERITAGE SEWER LIFT STATION IMPROVEMENTS PROJECT
PROJECT NO. FY24-104



SEPTEMBER 2025

APPROVED:
TRABUCO CANYON WATER DISTRICT

 9/8/25
LORRAINE S. LAUSTEN R.C.E. 67027 DATE
DISTRICT ENGINEER

JIG
CONSULTANTS
318 W KATELLA AVE, SUITE A
ORANGE, CA 92667
(714) 978-4407
www.jigconsultants.com



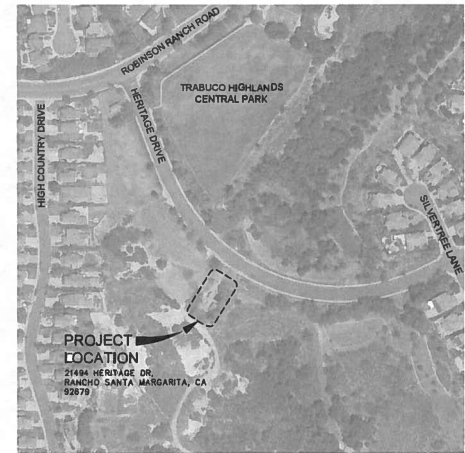
GENERAL NOTES

- NOTIFY TRABUCO CANYON WATER DISTRICT (DISTRICT) 714-856-0277 AT LEAST 48 HOURS BUT NOT MORE THAN 72 HOURS BEFORE STARTING WORK, OR AFTER ANY DELAY, BEFORE RESUMING WORK.
- THE CONTRACTOR SHALL CONTACT UNDERGROUND SERVICE ALERT (U.S.A.) AT 811 AT LEAST 48 HOURS PRIOR TO STARTING WORK.
- ALL WORK IS TO BE DONE IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS AND THE "STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION" (GREEN BOOK) LATEST EDITION, AND THE DISTRICT'S STANDARD SPECIFICATIONS AND DRAWINGS. THE CONTRACTOR SHALL HAVE A COPY OF THESE PLANS AND THE SPECIFICATIONS AND THE STANDARD SPECIFICATIONS ON THE JOB AT ALL TIMES.
- CONCRETE WORK SHALL BE PER PLANS AND SPECIFICATIONS UNLESS OTHERWISE INDICATED.
- PIPELINES SHALL BE PRESSURE TESTED TO 150 PSI IN ACCORDANCE WITH SECTION 33 08 11.
- CONTRACTOR SHALL MAINTAIN THE WORK AREA IN A NEAT, SAFE, CLEAN AND SANITARY CONDITION AT ALL TIMES. STREETS SHALL BE KEPT CLEAN OF DEBRIS, WITH DUST AND NUISANCE BEING CONTROLLED AT ALL TIMES. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR ANY CLEANUP OF ADJACENT STREETS AFFECTED BY HIS CONSTRUCTION. CONTRACTOR TO CLEAN STREET WITH SWEEPERS OR EQUAL, PRIOR TO END OF EACH WORK DAY AS A MINIMUM.
- ALL SURPLUS MATERIAL REMOVED, INCLUDING EXCAVATED MATERIALS WHICH ARE NOT SUITABLE FOR USE IN THIS PROJECT SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF AWAY FROM THE JOB SITE IN A MANNER AND AT LOCATION ACCEPTABLE TO ALL APPLICABLE AGENCIES.
- THE CONTRACTOR SHALL POT-HOLE AND LOCATE EXISTING CROSSING UNDERGROUND UTILITIES AND POINTS OF CONNECTION TWO WEEKS, IN ADVANCE OF THE PIPELINE CONSTRUCTION. THE CONTRACTOR SHALL BE LIABLE FOR ANY ADDITIONAL COST REQUIRED IN THE EVENT THAT HE HAS NOT CORRECTLY LOCATED THE EXISTING UTILITIES.
- THE CONTRACTOR SHALL DESIGN, CONSTRUCT AND MAINTAIN ALL SAFETY DEVICES INCLUDING SHORING AND BE RESPONSIBLE FOR CONFORMING TO ALL LOCAL, STATE, AND FEDERAL SAFETY AND HEALTH STANDARDS, LAWS, AND REGULATIONS. NEITHER THE DISTRICT NOR THE DISTRICT'S ENGINEER SHALL ENFORCE SAFETY MEASURES OR REGULATIONS. THE CONTRACTOR IS RESPONSIBLE FOR SITE SAFETY.
- ALL BOLTS AND NUTS SHALL BE 316 STAINLESS STEEL. AFTER INSTALLATION, ALL BURED BOLTS, NUTS, ETC., SHALL BE COATED WITH DEW WRAP OR AN APPROVED EQUAL.
- THE SURROUNDING AREA SHALL BE RETURNED TO THE CONDITION ENCOUNTERED AT THE START OF CONSTRUCTION.
- CONTRACTOR SHALL CONTACT THE DISTRICT A MINIMUM OF 48 HOURS IN ADVANCE FOR SCHEDULING OF ACCESS TO THE PROJECT SITE. CONTRACTOR SHALL ADHERE TO ALL DISTRICT REQUIREMENTS FOR SITE ACCESS AND MAINTAIN CONTINUAL COORDINATION WITH DISTRICT FOR THE DURATION OF CONSTRUCTION.
- PRIOR TO COMMENCEMENT OF WORK, ALL SURVEY MONUMENTS IN THE PROJECT AREA SHALL BE LOCATED AND TIED OUT BY THE CONTRACTOR. ALL CENTERLINE MONUMENTS OR TIES LOST OR DESTROYED BY THIS WORK SHALL BE REPLACED AND NEW TIE SHEETS PROVIDED. METHOD OF ESTABLISHMENT SHALL BE STATED ON THE TIE SHEET. TIE SHEETS SHALL BE PREPARED AND STAMPED BY A LICENSED ENGINEER OR SURVEYOR AND SHALL BE DELIVERED TO THE COUNTY OF ORANGE PRIOR TO CONSTRUCTION.
- THE CONTRACTOR SHALL PROTECT IN PLACE EXISTING SEWER, GAS, WATER LATERALS AND OTHER UTILITIES OR REPLACE IN KIND. LOCATIONS OF EXISTING UTILITIES AND SUBSTRUCTURES SHOWN ON THE DRAWINGS ARE APPROXIMATE ONLY. CONTRACTOR SHALL VERIFY EXACT LOCATIONS, ELEVATIONS AND DIMENSIONS IN THE FIELD PRIOR TO CONSTRUCTION IN THE AREA OF THE SPECIFIC SUB-STRUCTURE.
- CONTRACTOR SHALL VERIFY THE HORIZONTAL AND VERTICAL LOCATION OF ALL POINTS OF CONNECTION PRIOR TO COMMENCING CONSTRUCTION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE TO ALL EXISTING UTILITIES, PAYMENT, CURB, STRUCTURE, TREES, LANDSCAPING, AND IRRIGATION SYSTEMS AS A RESULT OF HIS OPERATIONS, AND WILL BE REQUIRED TO REPAIR OR REPLACE SAME TO THE SATISFACTORY OF, AND AS DIRECTED BY, THE DISTRICT REPRESENTATIVE OR IMPACTED UTILITY COMPANY.
- CONSTRUCTION SURVEYS FOR THIS PROJECT SHALL BE PROVIDED BY THE DISTRICT. SURVEY POINTS DESTROYED AS A RESULT OF THE CONTRACTORS NEGLIGENCE OR FAILURE TO PROVIDE PROPER PROTECTION, SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
- THE CONTRACTOR SHALL MAINTAIN AND PROVIDE THE DISTRICT WITH A "RECORD" SET OF AS BUILT DRAWINGS AT THE COMPLETION OF ALL WORK PER THE PLANS AND SPECIFICATIONS.
- TRENCH COMPACTION AND SUBGRADE COMPACTIONS TESTS SHALL BE PERFORMED BY LABORATORY DESIGNATED BY THE DISTRICT, UTILIZING CALIFORNIA TEST METHOD NO. 216 AND 231. THE DISTRICT WILL FURNISH FIRST TESTS; WHEN REQUESTED, AT NO COST TO THE CONTRACTOR. ANY RE-TESTING REQUIRED DUE TO FIRST TEST FAILURES SHALL BE MADE AT LOCATIONS ORDERED BY THE ENGINEER, AND SHALL BE AT THE CONTRACTOR'S EXPENSE - COST OF WHICH WILL BE DEDUCTED FROM THE CONTRACTOR'S FINAL PAYMENT.
- LOOSE EXCAVATED MATERIAL SHALL NOT BE PLACED OR STORED IN WATERWAYS OR STORM DRAIN CHANNELS. ALL EXCESS EXCAVATED SOIL AND MATERIALS SHALL BE REMOVED AND DISPOSED OF IN A PROPER AND LEGAL MANNER BY THE CONTRACTOR. ALL DISTURBED SURFACE AREAS SHALL BE SHAPED TO FACILITATE DRAINAGE AND AVOID PONDING AND SHALL BE RESTORED TO NEAR NATURAL OR PRE-CONSTRUCTION CONDITIONS.
- THE CONTRACTOR SHALL CONDUCT HIS CONSTRUCTION OPERATIONS IN SUCH A MANNER THAT STORM OR OTHER WATERS MAY PROCEED UNINTERRUPTED ALONG THE STREET OR DRAINAGE COURSES.

SHEET INDEX

DWG. NO.	SHT. NO.	SHEET TITLE
G-01	1	TITLE SHEET
G-02	2	GENERAL NOTES, SHEET INDEX, VICINITY AND LOCATION MAPS
D-01	3	SITE DEMOLITION PLAN
D-02	4	SEWER MAIN DEMOLITION PLAN
D-03	5	MECHANICAL DEMOLITION PLAN
C-01	6	HERITAGE SEWER LIFT STATION CONCEPTUAL STAGE 2 SEWER BYPASS PLAN
C-02	7	SITE PLAN AND 8-INCH INFLUENT SEWER - PLAN AND PROFILE
C-03	8	BYPASS WET WELL - PLAN AND SECTIONS
C-04	9	MISCELLANEOUS CIVIL DETAILS
C-05	10	SITE GRADING AND UTILITY PLAN
C-06	11	RETAINING WALL PLAN
C-07	12	WALL DETAILS AND SECTIONS
C-08	13	WALL DETAILS AND SECTIONS
M-01	14	MECHANICAL PLAN & SECTIONS
M-02	15	FLOW METER MECHANICAL - PLAN AND SECTIONS
M-03	16	MISCELLANEOUS MECHANICAL DETAILS
M-04	17	MISCELLANEOUS MECHANICAL DETAILS
E-01	18	STANDARD ELECTRICAL SYMBOLS AND ABBREVIATIONS
E-02	19	SITE ELECTRICAL PLAN
E-03	20	SINGLE LINE DIAGRAM
E-04	21	ELECTRICAL SCHEDULES AND EQUIPMENT ELEVATIONS
E-05	22	ELECTRICAL DEMOLITION PLANS
E-06	23	EXISTING CONDITIONS PHOTOS
E-07	24	LIGHTING AND RECEPTACLE PLANS
E-08	25	POWER AND CONTROLS PLAN
E-09	26	DETAILS
E-10	27	PUMP-VFD CONTROL DIAGRAM
E-11	28	(E) SCADA CONTROL PANEL POWER DISTRIBUTION
E-12	29	(E) SCADA CONTROL PANEL DIGITAL INPUT MODULE SLOT 1
E-13	30	(E) SCADA CONTROL PANEL DIGITAL INPUT MODULE SLOT 2
E-14	31	(E) SCADA CONTROL PANEL DIGITAL OUTPUT MODULE SLOT 3
E-15	32	(E) SCADA CONTROL PANEL ANALOG INPUT MODULE SLOT 4
E-16	33	(E) SCADA CONTROL PANEL ANALOG OUTPUT MODULE SLOT 5

- CONSTRUCTION SITES SHALL BE MAINTAINED IN SUCH A CONDITION THAT AN UNANTICIPATED STORM DOES NOT CARRY WASTES OR POLLUTANTS OFF THE SITE. SUCH "DISCHARGES" OF MATERIAL OTHER THAN STORM WATER ARE ALLOWED ONLY WHEN NECESSARY FOR PERFORMANCE AND COMPLETIONS OF CONSTRUCTION PRACTICES AND WHERE THEY DO NOT CAUSE OR CONTRIBUTE TO A VIOLATION OF ANY WATER QUALITY STANDARD, CAUSE OR THREATEN TO CAUSE POLLUTION, CONTAMINATION, OR NUISANCE, OR CONTAIN A HAZARDOUS SUBSTANCE IN A QUANTITY REPORTABLE UNDER FEDERAL REGULATIONS 40 CFR PARTS 117 AND 302. MATERIALS WHICH MAY HAVE EFFECTS OF POLLUTION INCLUDE BUT ARE NOT LIMITED TO: SOLID OR LIQUID CHEMICAL SPILLS; WASTES FROM PAINTS, STAINS, SEALANTS, GLUES, LIMES, PESTICIDES, HERBICIDES, WOOD PRESERVATIVES AND SOLVENTS; ASBESTOS FIBERS, PAINT FLAKES OR STUCCO FRAGMENTS; FUELS, OILS, LUBRICANTS, AND HYDRAULIC, RADIATOR OR BATTERY FLUIDS; FERTILIZERS, VEHICLE/EQUIPMENT WASH WATER AND CONCRETE WASH WATER; CONCRETE DETERGENT OR FLATABLE WASTES; WASTES FROM ANY ENGINE/EQUIPMENT STEAM CLEANING OR CHEMICAL DEGREASING, AND SUPER CHLORINATED WATER LINE FLUSHINGS.
- DURING CONSTRUCTION, DISPOSAL OF SUCH MATERIALS SHOULD OCCUR IN A SPECIFIED AND CONTROLLED TEMPORARY AREA OR SITE PHYSICALLY SEPARATED FROM POTENTIAL STORM WATER RUN-OFF, WITH ULTIMATE DISPOSAL IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REQUIREMENTS.
- CONTRACTOR SHALL DEMONSTRATE EXTREME CAUTION WHEN TRENCHING IN CLOSE PROXIMITY TO OTHER UTILITIES. ANY SIGN OF DEGRADATION OF THE TRENCH WALL OR STRUCTURE INTEGRITY WILL NOT BE TOLERATED AND WILL FORCE THE STOPPAGE OF WORK UNTIL THE TRENCH OR STRUCTURE INTEGRITY IS ADEQUATELY RESTORED.
- CONSTRUCTION WORK HOURS SHALL BE 7:30 AM TO 4:00 PM EXCLUSIVE OF SATURDAYS, SUNDAYS, OR HOLIDAYS, UNLESS OTHERWISE NOTED.
- BY ACCEPTING THIS CONTRACT, CONTRACTOR HEREBY RELEASES AND AGREES TO INDEMNIFY, DEFEND, HOLD HARMLESS THE OWNER, TRABUCO CANYON WATER DISTRICT AND ITS REPRESENTATIVES, ENGINEER (HEREINAFTER JIG CONSULTANTS) THEIR PARENT AND SUBSIDIARY COMPANIES, EMPLOYEES, CONSULTANTS AND REPRESENTATIVES FOR ANY AND ALL DAMAGE TO PERSONS OR PROPERTY OR WRONGFUL DEATH REGARDLESS OF WHETHER OR NOT SUCH CLAIM, DAMAGE LOSS OR EXPENSE IS CAUSED IN WHOLE OR IN PART BY THE NEGLIGENCE, ACTIVE OR PASSIVE, OF OWNER, ENGINEER, THEIR PARENT OR SUBSIDIARY COMPANIES, AS WELL AS THEIR AGENTS AND EMPLOYEES, EXCEPTING ONLY THE SOLE NEGLIGENCE OF OWNER. ENGINEER, THEIR PARENT OR SUBSIDIARY COMPANIES AND THEIR AGENTS AND EMPLOYEES TO THE FULLEST EXTENT PERMITTED BY LAW. SUCH INDEMNIFICATION SHALL EXTEND TO ALL CLAIMS, DEMANDS, ACTIONS, OR LIABILITY FOR INJURIES, DEATH OR DAMAGES OCCURRING AFTER COMPLETION OF THE PROJECT, AS WELL AS DURING THE WORK'S PROGRESS. CONTRACTOR FURTHER AGREES THAT IT SHALL ACCOMPLISH THE ABOVE AT ITS OWN COST, EXPENSE AND RISK EXCLUSIVE OF AND REGARDLESS OF ANY APPLICABLE INSURANCE COMPANY REGARDING COVERAGE.
- TRENCH BACKFILL FOR PIPELINES SHALL BE PER $\frac{3}{4}$ "-2" SPEC.
- THE CONTRACTOR SHALL SUBMIT A SHORING PLAN PREPARED BY A REGISTERED CIVIL OR STRUCTURAL ENGINEER AS REQUIRED PER SECTION 7-9 OF THE GENERAL PROVISIONS.



DIGALERT
CALL TOLL FREE 811
TWO WORKING DAYS BEFORE YOU DIG
Underground Service Alert

CONTRACTOR SHALL NOTIFY UNDERGROUND SERVICE ALERT A MINIMUM OF 48 HOURS PRIOR TO BEGINNING ANY CONSTRUCTION WORK. SEE GENERAL NOTES FOR FURTHER INFORMATION.

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(714) 978-4407
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VICINITY MAP
NOT TO SCALE

PROJECT LOCATION MAP
NOT TO SCALE

NO.	DATE	REVISIONS	DESIGN:	DATE
			MM	9/08/25
			DRAWN: KS	
			CHECKED: JD	

TRABUCO CANYON WATER DISTRICT	DATE
HERITAGE SEWER LIFT STATION IMPROVEMENTS PROJECT	9/08/25
PROJECT NO. FY24-104	9/08/25

GENERAL NOTES, SHEET INDEX, VICINITY AND LOCATION MAPS	SHEET 2 OF 33
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SITE DEMOLITION NOTES

- 1 SAW CUT EXISTING AC PAVEMENT
- 2 REMOVE EXISTING AC PAVEMENT, SUBGRADE TO ACCOMMODATE PROPOSED SITE IMPROVEMENTS
- 3 REMOVE EXISTING TREE AND GRIND DOWN STUMP
- 4 CLEAR AND GRUB
- 5 REMOVE EXISTING BOLLARD AND FOUNDATION
- 6 OVEREXCAVATE AND/OR REMOVE AND RECOMPACT SITE AS REQUIRED BY THE DISTRICT'S GEOTECHNICAL ENGINEER
- 7 REMOVE EXISTING SIGN AND FOUNDATION
- 8 REMOVE EXISTING FENCE, FENCE POST AND FENCE POST FOUNDATIONS
- 9 REMOVE EXISTING A.C. BERM & SAWCUT EDGE OF PAVEMENT TO JOIN
- 10 REMOVE EXISTING CONCRETE PAD MINIMUM 18" BELOW FINISH GRADE
- P PROTECT IN PLACE
- R REMOVE PER SHEET D-02

NOTES

- 1. SEE SHEET D-02 FOR ADDITIONAL DEMOLITION AND REMOVAL.
- 2. CONTRACTOR TO PROVIDE CONSTRUCTION FENCE TO SECURE AREA OF WORK. FENCE LOCATION REQUIRES DISTRICT APPROVAL.
- 3. CONTRACTOR TO PROVIDE CONTINUOUS ACCESS TO EXISTING DISTRICT ACCESS ROAD THROUGHOUT PROJECT. ANY WORK THAT INTERRUPTS ACCESS WILL BE REQUIRED ON THE WEEKEND.
- 4. ACCESS WILL BE REQUIRED ON THE WEEKEND.
- 5. CONTRACTOR TO ACCOMMODATE PERIODIC DISTRICT ACCESS TO EXISTING BUILDING.

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180 WORKING DAYS BEFORE YOU DIG
Underground Utilities Alert

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DMC ENGINEERING
Civil • Surveying • Planning • Construction
111 Technology Drive, Suite 100, Irvine, CA 92618
E-Mail: dmc@dmceeng.com (949) 753-9393



NO.	DATE	REVISIONS

DESIGN: DM
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CHECKED: DM

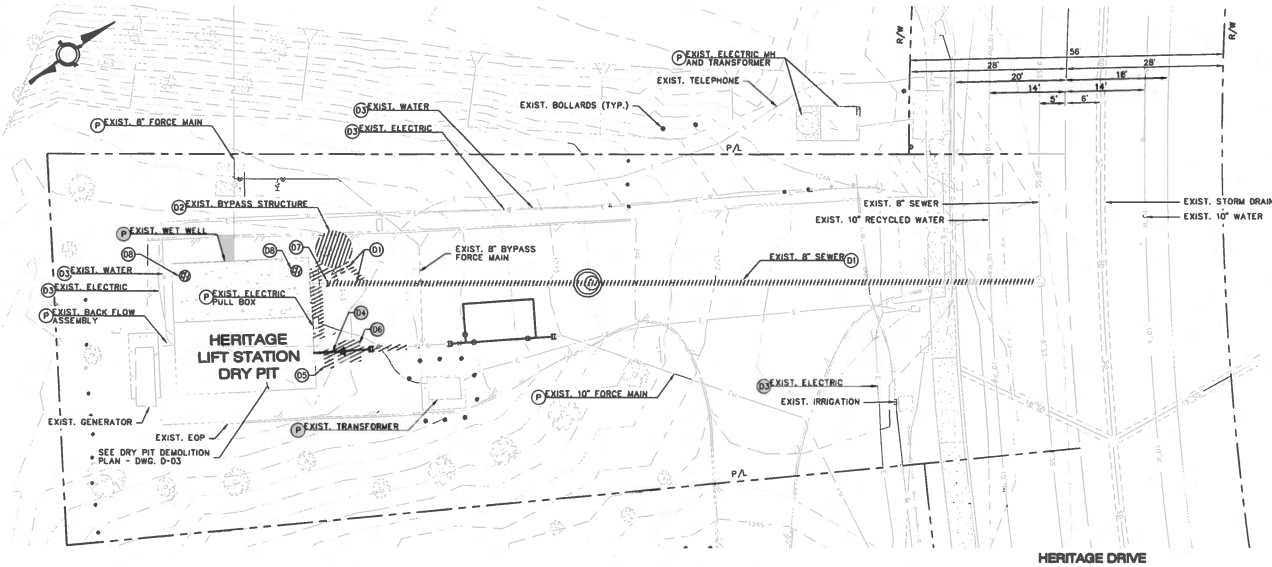


DATE: 8/11/25
ENGINEER: DEREK J. MCGREGOR, C 38483
DISTRICT ENGINEER: [Signature], REG 67027

TRABUCO CANYON WATER DISTRICT
HERITAGE SEWER LIFT STATION IMPROVEMENTS PROJECT
PROJECT NO. FY24-104

SITE DEMOLITION PLAN

D-01
SHEET 3 OF 33



SITE DEMOLITION PLAN
SCALE: 1" = 10'

DEMOLITION NOTES

- (01) DEMOLISH AND DISPOSE OF EXISTING PIPING, VALVES, AND APPURTENANCES
- (02) REMOVE AND DISPOSE OF ALL EQUIPMENT INSIDE EXISTING BYPASS STRUCTURE AND DEMOLISH STRUCTURE
- (03) ABANDON EXISTING WATER SERVICE LINE AND ELECTRICAL CONDUIT - SEE DWG. C-02 FOR RELOCATION ALIGNMENT
- (04) CUT AND REMOVE SECTIONS OF EXISTING FORCE MAIN
- (05) DEMOLISH AND DISPOSE OF EXISTING BYPASS/BLOW-OFF ASSEMBLY
- (06) DEMOLISH AND DISPOSE OF EXISTING AIR RELEASE VALVE ASSEMBLY AND UNDERGROUND STRUCTURE
- (07) CUT EXISTING 8" PVC SEWER
- (08) DEMOLISH AND DISPOSE OF EXISTING MANHOLE FRAME AND COVER
- (P) PROTECT IN PLACE

LEGEND

DEMOLISH AND DISPOSE OF EXISTING PIPING, VALVES, AND APPURTENANCES

D:\Users\Mark\Documents\PROJECTS\Heritage\DWG\2025\Demolition\02 - Heritage - 02 - Demolition\02 - Heritage - 02 - Demolition.dwg, 9/25/25, 9:40:33 AM

DIGALERT
CALL TOLL FREE 811
TWO WORKING DAYS BEFORE YOU DIG
Underground Service Alerts

CONTRACTOR SHALL NOTIFY UNDERGROUND SERVICE ALERT A MINIMUM OF 48 HOURS PRIOR TO BEGINNING ANY CONSTRUCTION WORK. SEE GENERAL NOTES FOR FURTHER INFORMATION.

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STAGING NOTE:
REFER TO SECTION 01 01 00 OF THE TECHNICAL SPECIFICATIONS FOR WHEN ITEMS SHOWN ON THIS SHEET WILL BE DEMOLISHED WITH RESPECT TO THE DIFFERENT STAGES OF CONSTRUCTION

NO.	DATE	REVISIONS	DESIGN:	DATE
			MM	9/08/25
			DRAWN: KS	
			CHECKED: JC	

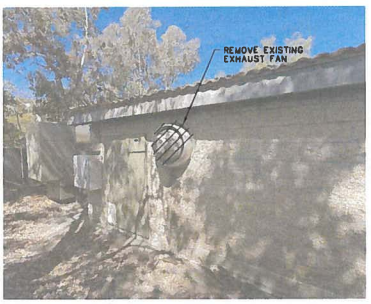
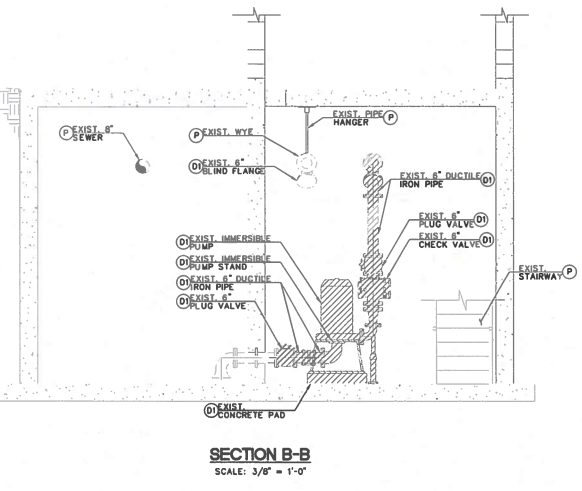
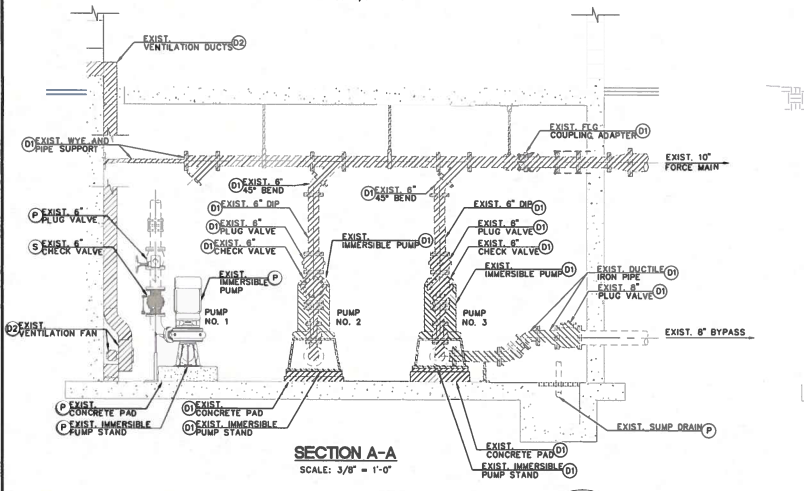
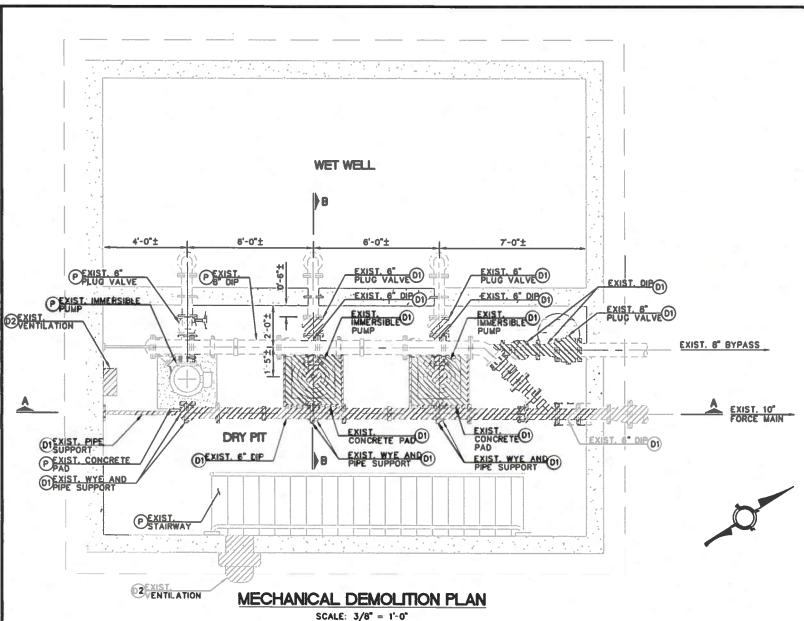


ENGINEER	ROE 55604	DATE	9/08/25
DISTRICT ENGINEER	ROE 87027	DATE	9/08/25

TRABUCO CANYON WATER DISTRICT
HERITAGE SEWER LIFT STATION IMPROVEMENTS PROJECT
PROJECT NO. FY24-104

SEWER MAIN DEMOLITION PLAN

D-02
SHEET 4 OF 33



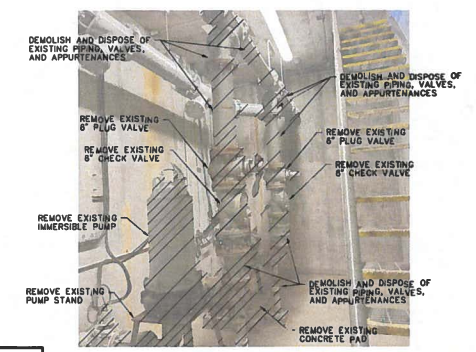
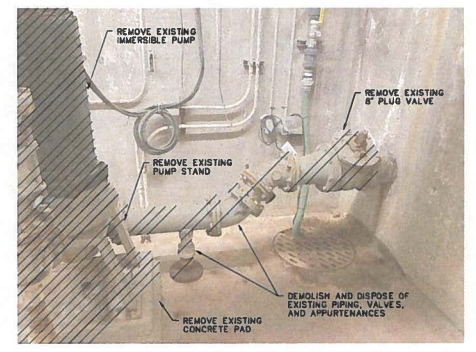
CONTROL ROOM DEMOLITION DETAILS ①
NOT TO SCALE

DEMOLITION NOTES

- ⑤ SALVAGE EXISTING VALVE
- ① DEMOLISH AND DISPOSE OF EXISTING PIPING, VALVES, PUMPS, AND APPURTENANCES PER ②
- ② DEMOLISH AND DISPOSE OF EXISTING VENTILATION, DUCTING, AND APPURTENANCES PER ①
- ③ PROTECT IN PLACE

LEGEND

- DEMOLISH AND DISPOSE OF EXISTING PIPING, VALVES, AND APPURTENANCES
- SALVAGE EXISTING VALVE



DEMOLITION DETAILS ②
NOT TO SCALE

DIGALERT CALL TOLL FREE 811
CONTRACTOR SHALL NOTIFY UNDERGROUND SERVICE ALERT A MINIMUM OF 48 HOURS PRIOR TO BEGINNING ANY CONSTRUCTION WORK. SEE GENERAL NOTES FOR FURTHER INFORMATION.

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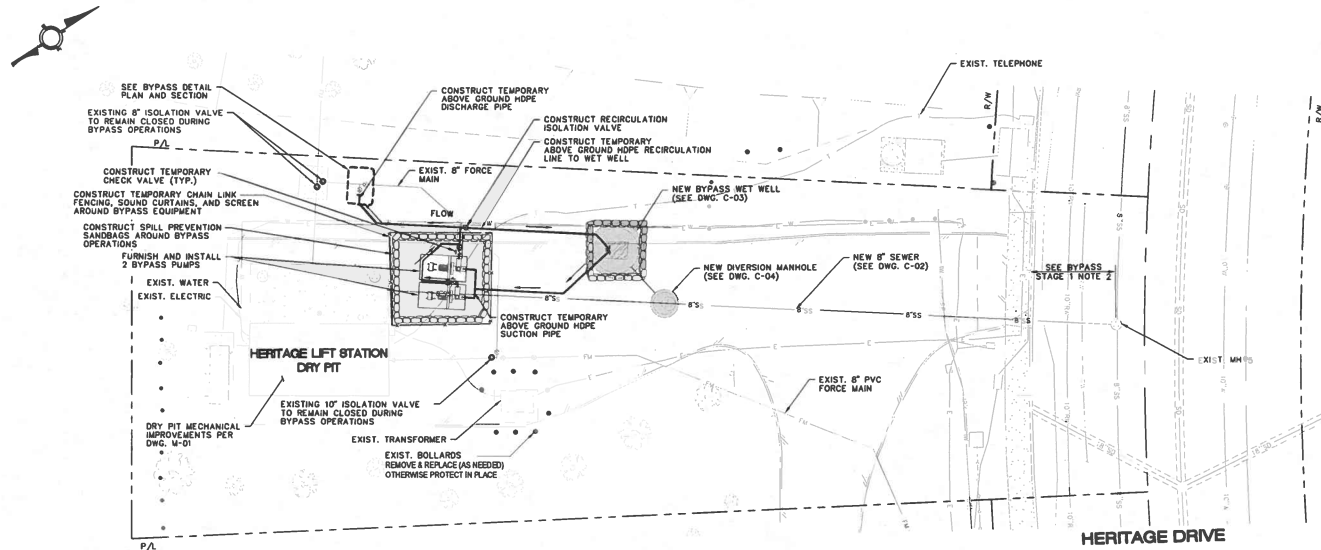


STAGING NOTE
REFER TO SECTION 01 00 OF THE TECHNICAL SPECIFICATIONS FOR WHEN ITEMS SHOWN ON THIS SHEET WILL BE DEMOLISHED WITH RESPECT TO THE DIFFERENT STAGES OF CONSTRUCTION

NO.	DATE	REVISIONS	DESIGN:	DATE
			MM	9/08/25
			DRAWN: KS	
			CHECKED: JG	

<p>TRABUCO CANYON WATER DISTRICT HERITAGE SEWER LIFT STATION IMPROVEMENTS PROJECT PROJECT NO. FY24-104</p>	<p>ENGINEER RCE 5864 9/08/25</p> <p>DISTRICT ENGINEER RCE 6707 9/08/25</p>
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<p>MECHANICAL DEMOLITION PLAN</p>	<p>D-03 SHEET 5 OF 33</p>
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**HERITAGE SEWER LIFT STATION
CONCEPTUAL BYPASS SITE PLAN**

SCALE: 1" = 10'

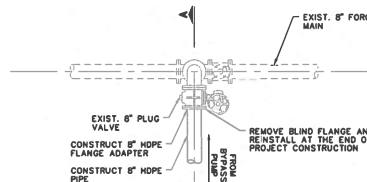
TEMPORARY BYPASS WORK SEQUENCE SUMMARY

BYPASS STAGE 1

1. CONTRACTOR SHALL DESIGN, FURNISH, AND INSTALL TEMPORARY SEWAGE BYPASS BETWEEN EXISTING MH #9 AND THE EXISTING WET WELL. TEMPORARY SEWAGE BYPASS WILL BE MAINTAINED THROUGHOUT CONSTRUCTION OF IMPROVEMENTS SHOWN ON DWG. C-02. SEWER BYPASS SHALL INCLUDE AN EMERGENCY CALL OUT FLOAT INSIDE EXISTING MH #9. IMPROVEMENTS WILL INCLUDE REMOVAL AND REPLACEMENT OF EXISTING 8-INCH SEWER, DIVERSION MANHOLE, AND PRECAST CONCRETE BYPASS WET WELL.
2. TEMPORARY BYPASS PIPING SHALL BE BURIED WHEN CROSSING HERITAGE DRIVE.
3. UPON COMPLETION OF AFOREMENTIONED IMPROVEMENTS, THE CONTRACTOR WILL PROCEED WITH THE SEWER BYPASS SYSTEM FOR THE HERITAGE SEWER LIFT STATION (STAGE 2).

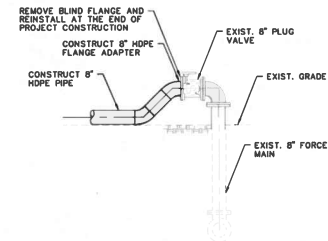
BYPASS STAGE 2

1. CONTRACTOR SHALL DESIGN, FURNISH, AND INSTALL TEMPORARY SEWAGE BYPASS FOR THE HERITAGE SEWER LIFT STATION.
2. CONTRACTOR SHALL MOBILIZE TEMPORARY BYPASS PUMPS AND FABRICATE AND INSTALL THE BYPASS PIPING, VALVES AND APPURTENANCES. THE LAYOUT OF THE SEWER BYPASS SYSTEM AS SHOWN ON THIS SHEET ARE CONCEPTUAL ONLY. THE CONTRACTOR SHALL DESIGN, FURNISH, AND INSTALL THEIR SEWER BYPASS SYSTEM IN ACCORDANCE WITH THE REQUIREMENTS OF SPECIFICATION SECTION 33 01 30.
3. SEWER BYPASS SYSTEM SHALL INCLUDE LEVEL TRANSDUCERS AND BACKUP FLOATS TO CONTROL THE OPERATION OF THE TEMPORARY BYPASS PUMPS. SUCTION SHALL INCORPORATE AUTO DIALER ALARM AGENT TO NOTIFY THE CONTRACTOR'S RESPONSE PERSONNEL AND TOWD OPERATIONS STAFF IN THE EVENT OF EMERGENCIES.
4. CONTRACTOR SHALL ERECT TEMPORARY FENCING, SOUND ATTENUATION, AND SPILL PREVENTION MEASURES.
5. CONTRACTOR SHALL TEST THE FUNCTIONALITY OF THE TEMPORARY BYPASS SYSTEM AND SEEK APPROVAL FROM THE DISTRICT, WITH APPROVAL, THE HERITAGE SEWER LIFT STATION SHALL BE TENTATIVELY TAKEN OUT OF SERVICE AND THE TEMPORARY BYPASS SYSTEM OPERATED AND MONITORED CONTINUOUSLY FOR 48 HOURS. NO CONSTRUCTION WILL BE ALLOWED DURING THE 48-HOUR MONITORING PERIOD. MONITORING WILL INCLUDE 24-HOUR/DAY SITE PRESENCE FROM THE CONTRACTOR. CONTRACTOR TO MAKE ADJUSTMENTS AS NEEDED DURING THE 48-HOUR MONITORING PERIOD.
6. AFTER SUCCESSFUL COMPLETION OF THE 48-HOUR MONITORING PERIOD, THE CONTRACTOR WILL ADMINISTER A "90-NO GO" MEETING WITH DISTRICT STAFF TO PRESENT THE TEMPORARY BYPASS SYSTEM.
7. AFTER RECEIVING A "GO" DIRECTIVE, THE CONTRACTOR CAN FORMALLY TAKE THE HERITAGE SEWER LIFT STATION OUT OF SERVICE AND COMMENCE WITH THE PROJECT IMPROVEMENTS.



BYPASS CONNECTION PLAN

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



SECTION A-A

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



CONTRACTOR SHALL NOTIFY UNDERGROUND SERVICE ALERT A MINIMUM OF 48 HOURS PRIOR TO BEGINNING ANY CONSTRUCTION WORK. SEE GENERAL NOTES FOR FURTHER INFORMATION.



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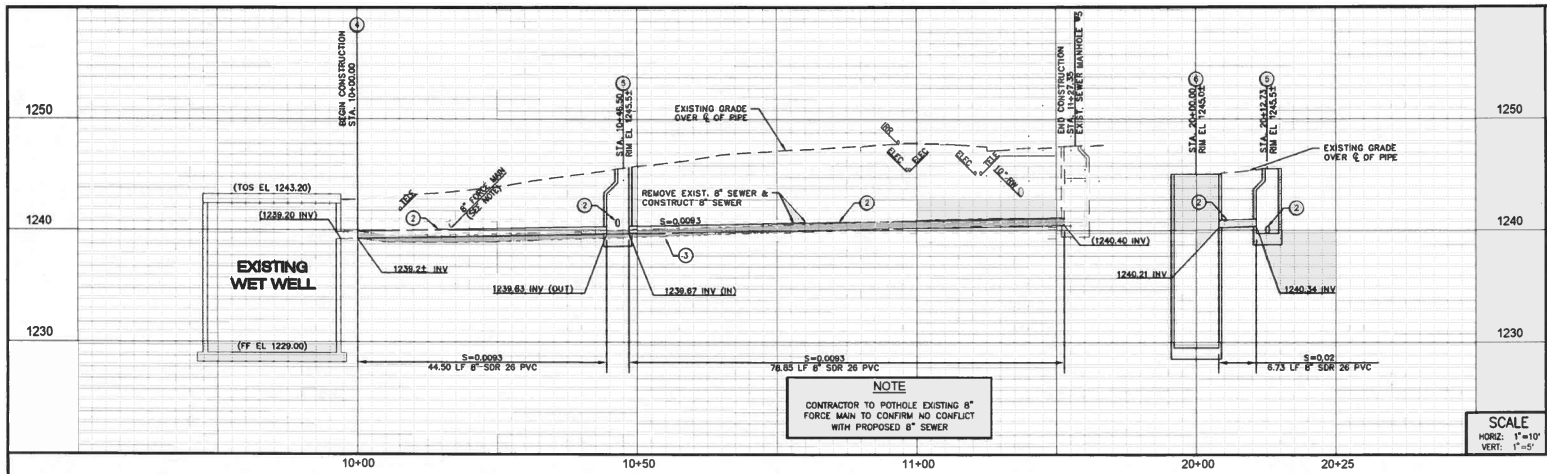
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DRAWN:	KS
CHECKED:	JG

DATE	9/08/25
ENGINEER	RCE 15604
DISTRICT ENGINEER	9/08/25
DISTRICT ENGINEER	RCE 67027

TRABUCO CANYON WATER DISTRICT
HERITAGE SEWER LIFT STATION IMPROVEMENTS PROJECT
PROJECT NO. FY24-104

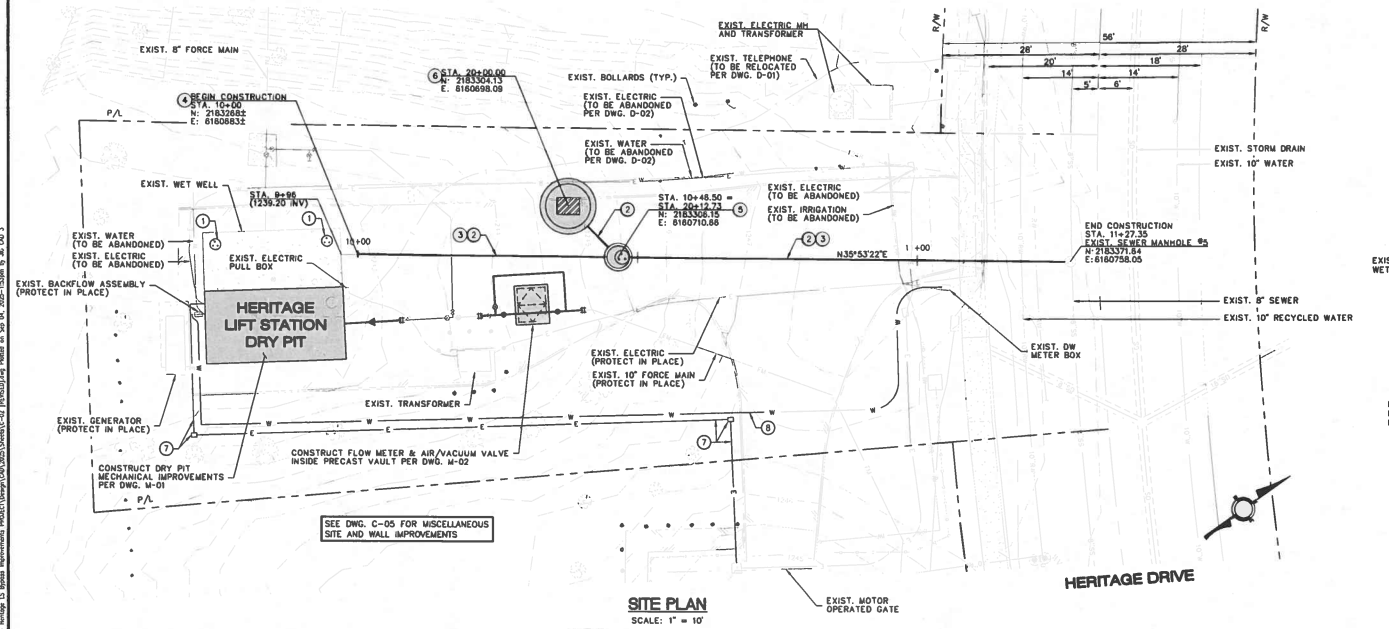
HERITAGE SEWER LIFT STATION CONCEPTUAL
STAGE 2 SEWER BYPASS PLAN

C-01
SHEET
6
OF
33



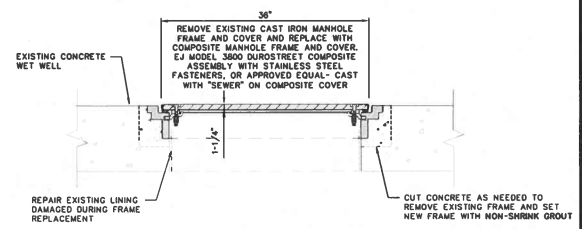
HYDRAULIC DATA					
FROM STA. TO STA.	DIAMETER (INCH)	DEPTH (FEET)	VELOCITY (FT/SEC)	Q/D	SLOPE
0+00.00 TO 11+27.35					
Qpeak = 210 GPM	8"	0.29	3.74	0.44	0.0093
Qaverage = 126 GPM		0.22	3.26	0.33	

SCALE
HORIZ: 1"=10'
VERT: 1"=5'



CONSTRUCTION NOTES

- 1 REPLACE EXISTING WET WELL FRAME AND COVER PER 1
- 2 CONSTRUCT 8" SDR 26 PVC SEWER PER C-05
- 3 REMOVE EXISTING 8" PVC SEWER
- 4 JOIN EXISTING 8" SEWER WITH RUBBER COUPLING WITH STAINLESS STEEL BANDS
- 5 CONSTRUCT DIVERSION MANHOLE PER C-05
- 6 CONSTRUCT BYPASS WET WELL PER DWG. C-03
- 7 CONSTRUCT 1" ELECTRIC CONDUIT AND PULLBOXS PER ELECTRICAL SHEETS
- 8 CONSTRUCT 1" TYPE K COPPER TUBING FROM EXISTING METER BOX TO EXISTING BACKFLOW ASSEMBLY



COMPOSITE COVER

WET WELL FRAME AND COVER REPLACEMENT
NOT TO SCALE

STAGING NOTE:
REFER TO SECTION 01 01 00 OF THE TECHNICAL SPECIFICATIONS FOR SEQUENCE OF CONSTRUCTION WITH RESPECT TO THE DIFFERENT STAGES OF CONSTRUCTION

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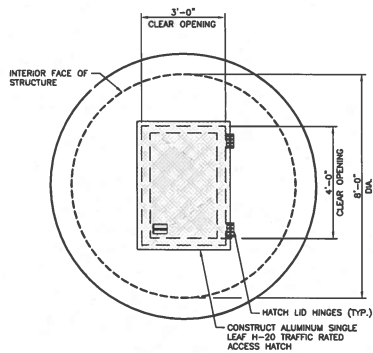
NO.	DATE	REVISIONS

DESIGN: MM	DATE: 4/02/25
DRAWN: KS	ENGINEER: REE 5564
CHECKED: JC	DISTRICT ENGINEER: 4/02/25

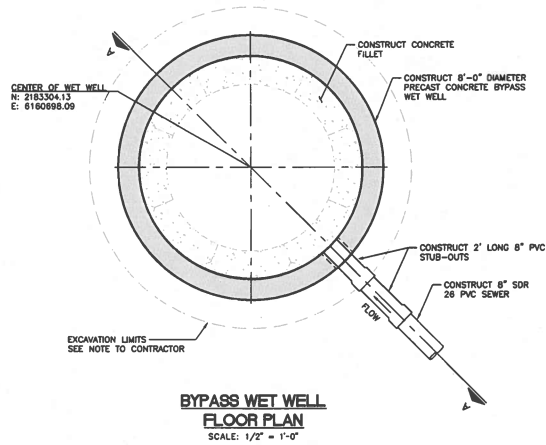
TRABUCO CANYON WATER DISTRICT
HERITAGE SEWER LIFT STATION IMPROVEMENTS PROJECT
PROJECT NO. FY24-104

SITE PLAN AND 8-INCH INFLUENT SEWER PLAN & PROFILE

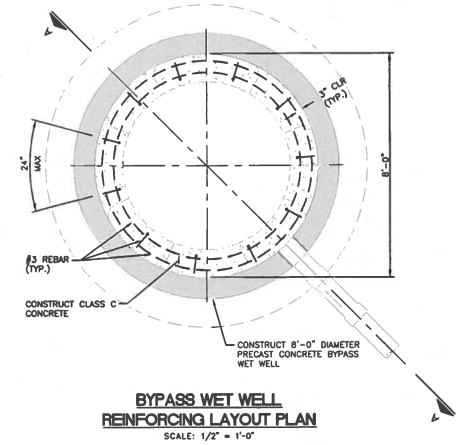
C-02
SHEET 7 OF 33



**BYPASS WET WELL
TOP SLAB PLAN**
SCALE: 1/2" = 1'-0"

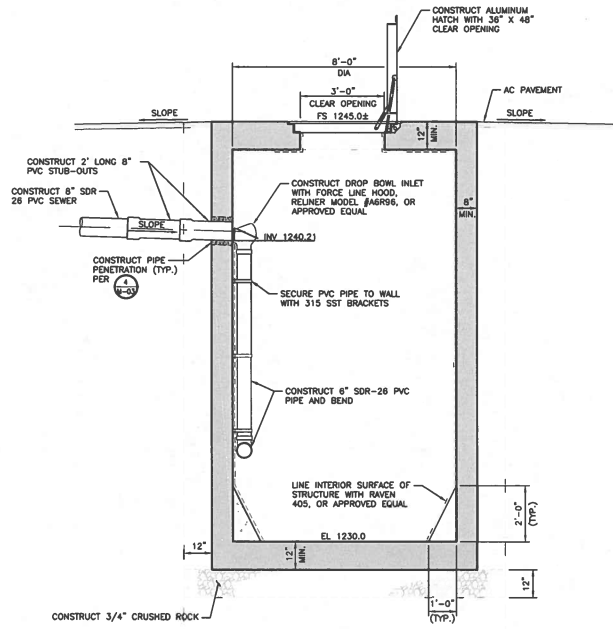


**BYPASS WET WELL
FLOOR PLAN**
SCALE: 1/2" = 1'-0"

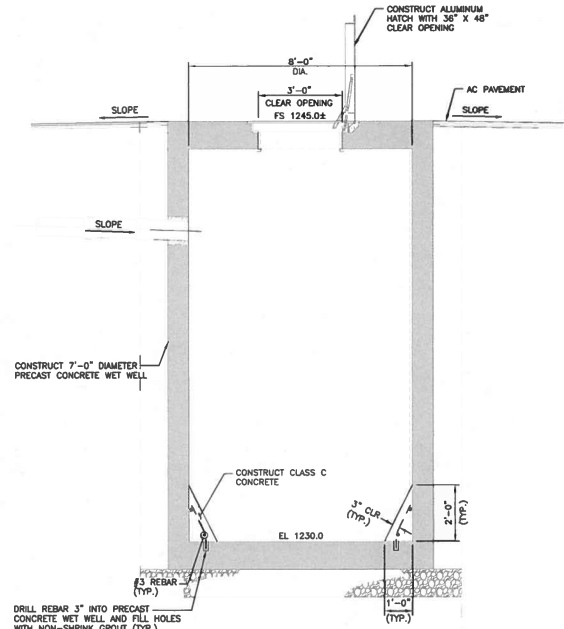


**BYPASS WET WELL
REINFORCING LAYOUT PLAN**
SCALE: 1/2" = 1'-0"

NOTE TO CONTRACTOR
CONTRACTOR TO PREPARE SITE USING RECOMMENDATIONS FROM THE GEOTECHNICAL INVESTIGATION AND FOUNDATION DESIGN PARAMETERS PREPARED BY GMIU. CONTRACTOR SHALL EXCAVATE TO A DEPTH OF AT LEAST 5 FEET BELOW THE BOTTOM OF THE STRUCTURE/FOOTING ACROSS THE ENTIRE FOOTPRINT OF THE BYPASS WET WELL AND EXTEND AT LEAST 1 FOOT BEYOND THE PERIMETER. THE BOTTOM OF THE EXCAVATION SHOULD THEN BE SCARRED TO A DEPTH OF AT LEAST 6". FILL MATERIAL SHALL BE PLACED IN 6" TO 8" THICK LIFTS, MOISTURE CONDITIONED TO 2% ABOVE OPTIMUM MOISTURE CONTENT, AND COMPACTED TO ACHIEVE 90% RELATIVE COMPACTION. ON-SITE MATERIAL MAY BE USED AS FILL MATERIAL, OR CONTRACTOR'S ELECTION TO USE SLURRY IS ACCEPTABLE. NO ROCK OR BROKEN CONCRETE GREATER THAN 6" IN DIAMETER SHOULD BE UTILIZED FOR BACKFILL.



**BYPASS WET WELL
SECTION A-A**
SCALE: 1/2" = 1'-0"



**REINFORCING LAYOUT PLAN
SECTION A-A**
SCALE: 1/2" = 1'-0"



CONTRACTOR SHALL NOTIFY UNDERGROUND SERVICE ALERT A MINIMUM OF 48 HOURS PRIOR TO BEGINNING ANY CONSTRUCTION WORK. SEE GENERAL NOTES FOR FURTHER INFORMATION.



318 W KATELLA AVE, SUITE A
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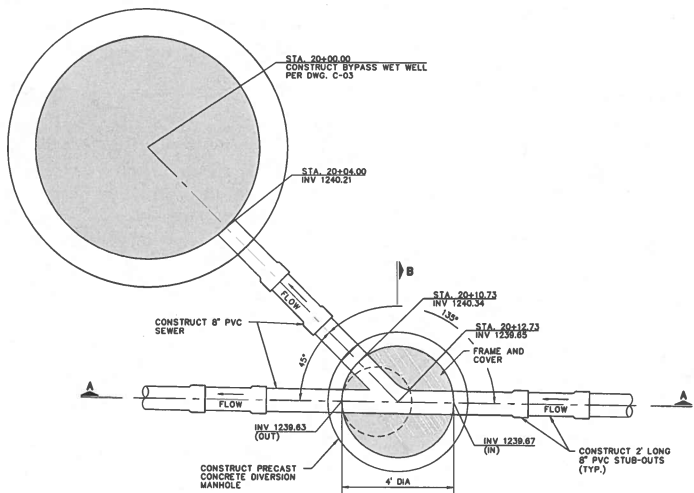
NO.	DATE	REVISIONS

DESIGN: MM	DATE: 9/08/25
DRAWN: KS	ENGINEER: 9/08/25
CHECKED: JC	DISTRICT ENGINEER: 9/08/25

TRABUCO CANYON WATER DISTRICT	ENGINEER: TRAVIS LANGSTEN
HERITAGE SEWER LIFT STATION IMPROVEMENTS PROJECT	DATE: 9/08/25
PROJECT NO. FY24-104	DISTRICT ENGINEER: 9/08/25

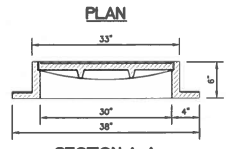
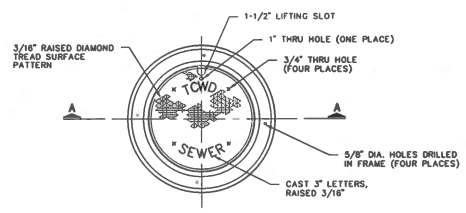
TRABUCO CANYON WATER DISTRICT
HERITAGE SEWER LIFT STATION IMPROVEMENTS PROJECT
PROJECT NO. FY24-104

BYPASS WET WELL PLAN AND SECTIONS
C-03
SHEET 8 OF 33



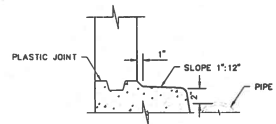
NOTES

1. THE PCC COLLAR SHALL BE 1 1/2 INCHES FROM FINISH GRADE AND 3 INCHES BELOW THE RING AND CONE JOINT. THE CONCRETE MIX DESIGN SHALL BE CLASS B CONCRETE.
2. JOINTS MAY BE KEY TYPE OR TONGUE AND GROOVE AND SHALL CONFORM WITH ASTM C-478, SECTION 14.
3. PLASTIC JOINTS: PREFORMED COLD APPLIED READY TO USE PLASTIC JOINT SEALING COMPOUND SHALL BE CON-SEAL SEALANT, OR APPROVED EQUAL.
4. WATERPROOFING: ALL EXTERIOR JOINTS OF THE MANHOLE STRUCTURE, INCLUDING BUT NOT LIMITED TO RING AND SHAFT JOINTS, PIPE PENETRATION JOINTS, AND ALL COMPONENT INTERFACE JOINTS, SHALL BE FILLED AND/OR APPLIED WITH A PASTE GRADE BITUMINOUS ASPHALT SEALANT. THE REMAINING EXTERIOR CONCRETE SURFACE OF THE MANHOLE STRUCTURE SHALL THEN BE COATED WITH A POURABLE GRADE OF BITUMINOUS ASPHALT SEALANT. FINISHED THICKNESS SHALL BE A MINIMUM OF 50 MILS.
5. THE CONCRETE BASE SHALL BE CLASS A CONCRETE. ALL PRECAST CONCRETE RISERS AND CONES SHALL BE CLASS A 4000 PSI CONCRETE.
6. EXCEPT AS NOTED HEREON, PRECAST UNIT SHALL BE MANUFACTURED AND TESTED IN ACCORDANCE WITH ASTM C-478.
7. SUBGRADE SHALL BE OVER EXCAVATED 2 FEET BELOW BOTTOM OF MANHOLE BASE AND REPLACED WITH CRUSHED ROCK.
8. ALL MANHOLES SHALL BE DESIGNED FOR AASHTO H-20 LOADING.



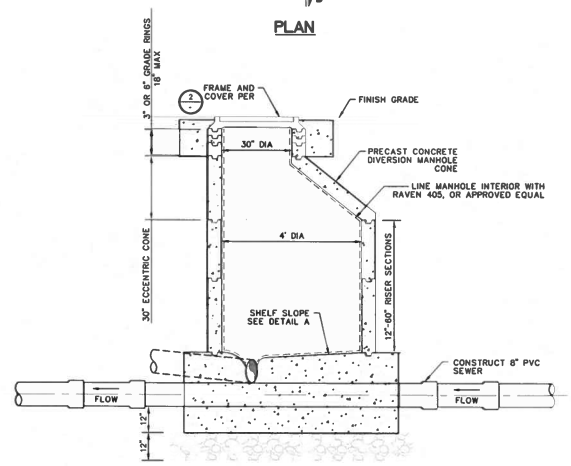
MANHOLE FRAME AND COVER (2) NOT TO SCALE

SHAFT JOINT WITH JOINT SEALANT COMPOUND SEE NOTE 3

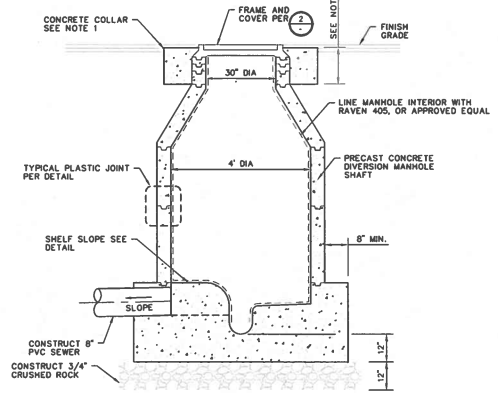


PLASTIC JOINT

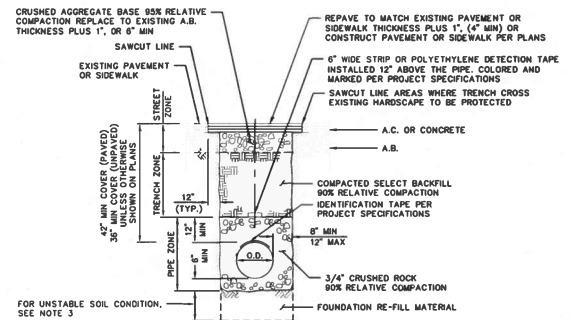
DETAIL A



SECTION A-A



SECTION B-B



NOTES

1. CONTRACTOR SHALL REPLACE AC OR PCC TO THE LIMITS SHOWN ON THE TYPICAL TRENCH SECTION SHOWN ABOVE TO THE THICKNESS PLUS 1" OF THE EXISTING AC OR PCC UNLESS OTHERWISE DIRECTED ON THE PLANS. FOR TURF OR LANDSCAPED AREAS, CONTRACTOR SHALL RESTORE TO THE ORIGINAL CONDITION, TO OWNER'S SATISFACTION.
2. ALL PAVEMENT AND SIDEWALK REMOVAL NECESSARY FOR THE CONSTRUCTION OF THIS PROJECT SHALL BE SAWCUT PRIOR TO REMOVAL. THE OWNER SHALL BE REQUESTED BY CONTRACTOR TO APPROVE EXTENT OF PAVEMENT AND SIDEWALK REMOVAL PRIOR TO STARTING WORK. DISPOSAL OF REMOVED A.C. PAVEMENT AND CONCRETE SHALL BE AT AN APPROVED OFF-SITE DUMP SITE.
3. IF UNSTABLE SOIL IS ENCOUNTERED, THE DISTRICT REPRESENTATIVE SHALL DETERMINE OVEREXCAVATION DEPTH AND FOUNDATION RE-FILL MATERIAL PER SPECIFICATION SECTION 31 23 00.

TYPICAL TRENCH SECTION (3) NOT TO SCALE

DIVERSION MANHOLE (1) NOT TO SCALE

DIGALERT CALL TOLL FREE 811
 CONTRACTOR SHALL NOTIFY UNDERGROUND SERVICE ALERT A MINIMUM OF 48 HOURS PRIOR TO BEGINNING ANY CONSTRUCTION WORK. SEE GENERAL NOTES FOR FURTHER INFORMATION.
 TWO WORKING DAYS BEFORE 700 013
 Underground Service Alert

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NO.	DATE	REVISIONS	DESIGN:	DATE
			MM	4/08/25
			KS	
			JG	

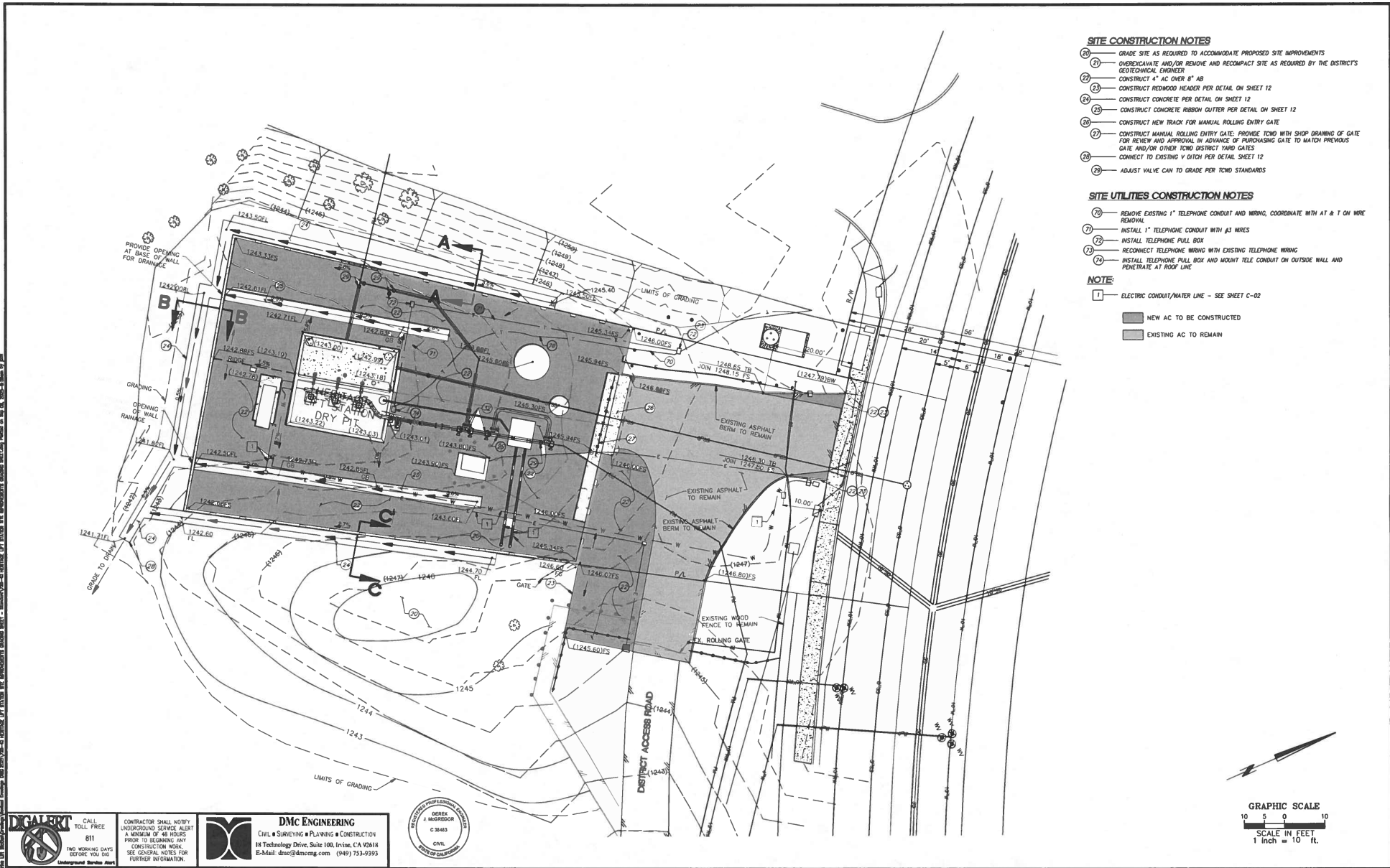


ENGINEER	4/08/25
DISTRICT ENGINEER	4/08/25

TRABUCO CANYON WATER DISTRICT
HERITAGE SEWER LIFT STATION IMPROVEMENTS PROJECT
 PROJECT NO. FY24-104

MISCELLANEOUS CIVIL DETAILS

C-04
 SHEET
 9
 OF
 33



- SITE CONSTRUCTION NOTES**
- (20) GRADE SITE AS REQUIRED TO ACCOMMODATE PROPOSED SITE IMPROVEMENTS
 - (21) OVEREXCAVATE AND/OR REMOVE AND RECOMPACT SITE AS REQUIRED BY THE DISTRICT'S GEOTECHNICAL ENGINEER
 - (22) CONSTRUCT 4" AC OVER 8" AB
 - (23) CONSTRUCT REDWOOD HEADER PER DETAIL ON SHEET 12
 - (24) CONSTRUCT CONCRETE PER DETAIL ON SHEET 12
 - (25) CONSTRUCT CONCRETE RIBBON GUTTER PER DETAIL ON SHEET 12
 - (26) CONSTRUCT NEW TRACK FOR MANUAL ROLLING ENTRY GATE
 - (27) CONSTRUCT MANUAL ROLLING ENTRY GATE. PROVIDE TCWD WITH SHOP DRAWING OF GATE FOR REVIEW AND APPROVAL IN ADVANCE OF PURCHASING GATE TO MATCH PREVIOUS GATE AND/OR OTHER TCWD DISTRICT YARD GATES
 - (28) CONNECT TO EXISTING V DITCH PER DETAIL SHEET 12
 - (29) ADJUST VALVE CAN TO GRADE PER TCWD STANDARDS

- SITE UTILITIES CONSTRUCTION NOTES**
- (70) REMOVE EXISTING 1" TELEPHONE CONDUIT AND WIRING, COORDINATE WITH AT & T ON WIRE REMOVAL
 - (71) INSTALL 1" TELEPHONE CONDUIT WITH #3 WIRES
 - (72) INSTALL TELEPHONE PULL BOX
 - (73) RECONNECT TELEPHONE WIRING WITH EXISTING TELEPHONE WIRING
 - (74) INSTALL TELEPHONE PULL BOX AND MOUNT TELE CONDUIT ON OUTSIDE WALL AND PENETRATE AT ROOF LINE

NOTE:

- [E] ELECTRIC CONDUIT/WATER LINE - SEE SHEET C-02
- [W] NEW AC TO BE CONSTRUCTED
- [X] EXISTING AC TO REMAIN

DIGALERT
CALL TOLL FREE 811
TWO WORKING DAYS BEFORE YOU DIG
Underground Service Alert

CONTRACTOR SHALL NOTIFY UNDERGROUND SERVICE ALERT A MINIMUM OF 48 HOURS PRIOR TO BEGINNING ANY CONSTRUCTION WORK. SEE GENERAL NOTES FOR FURTHER INFORMATION.

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18 Technology Drive, Suite 100, Irvine, CA 92618
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NO.	DATE	REVISIONS

DESIGN: DM
DRAWN: JG
CHECKED: DM



Derek J. Wochobor
Derek J. Wochobor C 38483 ENGINEER 8/11/25
Derek J. Wochobor DISTRICT ENGINEER 9/08/25
Derek J. Wochobor RSE 67027

TRABUCO CANYON WATER DISTRICT
HERITAGE SEWER LIFT STATION IMPROVEMENTS PROJECT
PROJECT NO. FY24-104

SITE GRADING AND UTILITY PLAN

C-05
SHEET 10 OF 33

SITE CONSTRUCTION NOTES

- (10) CONSTRUCT 7.5' HIGH BLOCK WALL PER DETAIL SHEET 15
- (11) POTHOLE EXISTING UTILITY CROSSINGS OVER PROPOSED BLOCK WALL FOOTINGS
- (12) INSTALL 6' HIGH CHAIN LINK FENCE MAIN GATE PER DETAIL ON SHEET 12

ALTERNATIVE BID

- (13) INSTALL 6' HIGH CHAIN LINK FENCE WITH SLATS PER DETAIL 31



DIALERT
CALL TOLL FREE 811
TWO WORKING DAYS BEFORE YOU DIG
(Unauthorized Service Alert)

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REGISTERED PROFESSIONAL ENGINEER
DEREK J. MCGREGOR
C 38483
CIVIL
STATE OF CALIFORNIA

NO.	DATE	REVISIONS

DESIGN: DM
DRAWN: JG
CHECKED: DM

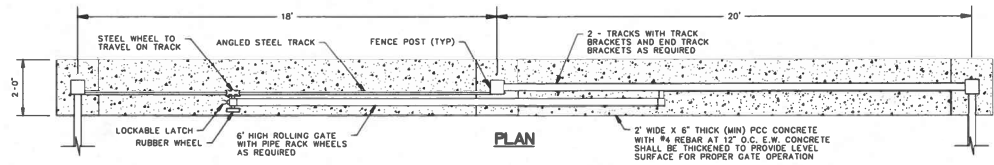
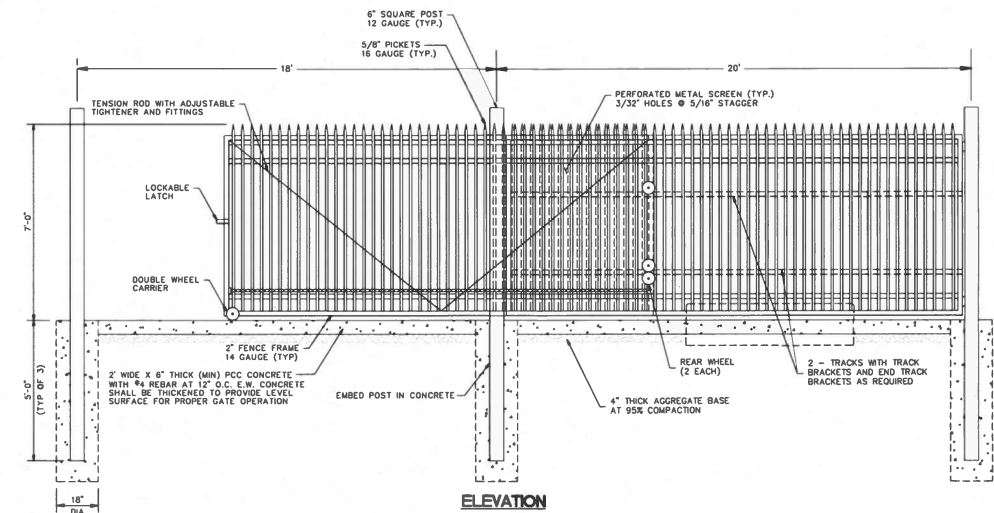
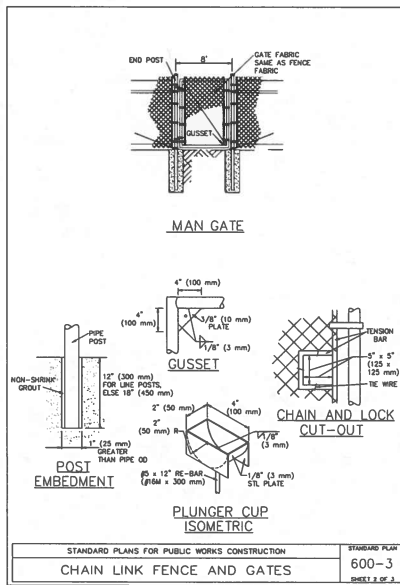
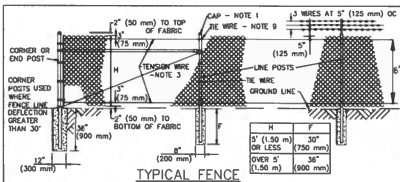
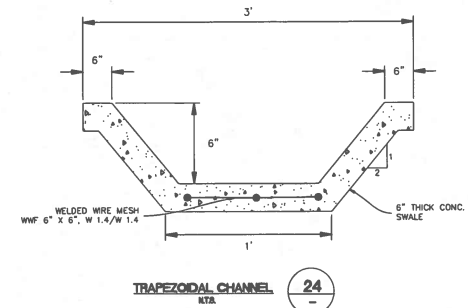
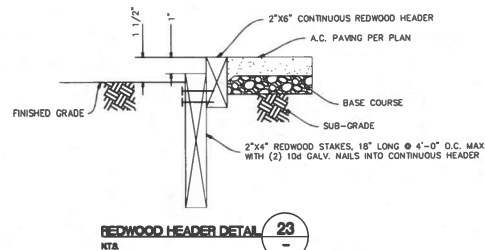
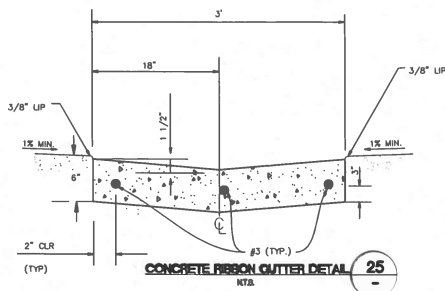


Derek J. McGregor
DEREK J. MCGREGOR C 38483 ENGINEER 8/11/25
Corrie Lausten
CORRIE LAUSTEN RSK 87023 DISTRICT ENGINEER 9/08/25

TRABUCO CANYON WATER DISTRICT
HERITAGE SEWER LIFT STATION IMPROVEMENTS PROJECT
PROJECT NO. FY24-104

RETAINING WALL PLAN
SHEET 11 OF 33

C-06



- NOTES:**
1. WALL FACE ON THE HERITAGE ROAD SIDE SHALL HAVE SLATE TO MATCH TOWD ROBISON RANCH ROAD PUMP STATION.
 2. ALL WORK SHALL CONFORM TO CALIFORNIA BUILDING CODES.
 3. ALL CELLS CONTAINING REINFORCING STEEL SHALL BE GROUTED AND ALL RETAINING WALL CELLS SHALL BE FULLY GROUTED.
 4. ALL REBAR TO BE PER ASTM A615 GRADE 40 MIN.
 5. ALL REBAR LAP SPICES TO BE 24" MIN.
 6. REBAR TO BE CENTERED IN MASONRY CELLS.
 7. ALL MASONRY UNITS TO BE ASTM C-90, GRADE "N".
 8. CONCRETE MIX FOR FOOTINGS COMPRESSIVE STRENGTH=2,500 PSI
 9. MOTAR MIX SHALL CONFORM TO ASTM C270.
 10. GROUT USED FOR FILLING GROUT CELLS MUST MEET COMPRESSIVE STRENGTH=2,000 PSI.

STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION
CHAIN LINK FENCE AND GATES 600-3
 SHEET 1 OF 3

STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION
CHAIN LINK FENCE AND GATES 600-3
 SHEET 1 OF 3

CHAIN LINK FENCE DETAILS 31
 NTA

MANUAL ROLLING GATE 27
 NOT TO SCALE



CONTRACTOR SHALL NOTIFY UNDISBURSED SERVICE ALERT A MINIMUM OF 48 HOURS PRIOR TO BEGINNING ANY CONSTRUCTION WORK. SEE GENERAL NOTES FOR FURTHER INFORMATION.

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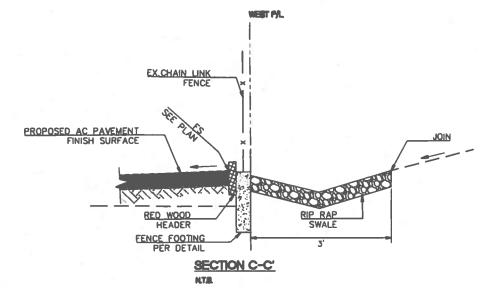
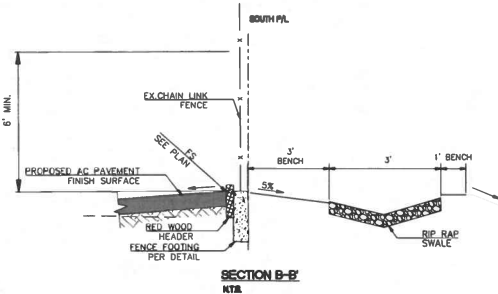
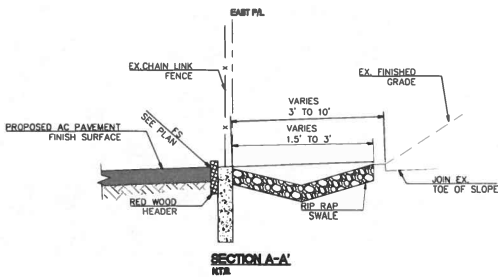
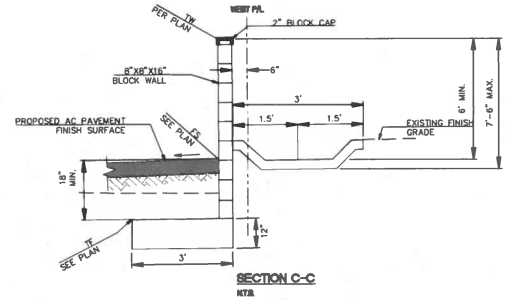
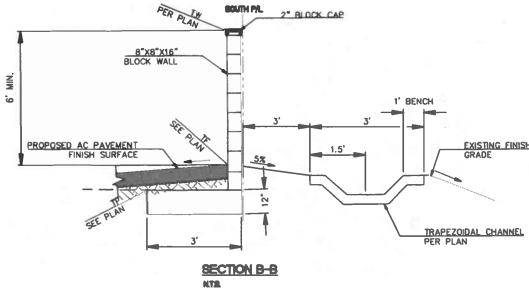
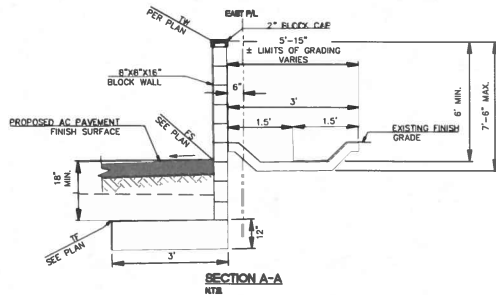
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 DRAWN: JG
 CHECKED: DM

DATE: 8/11/25
 ENGINEER: C 38483
 DATE: 4/08/25
 DISTRICT ENGINEER: R02 63027

TRABUCO CANYON WATER DISTRICT
 HERITAGE BEWER LIFT STATION IMPROVEMENTS PROJECT
 PROJECT NO. FY24-104

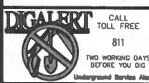
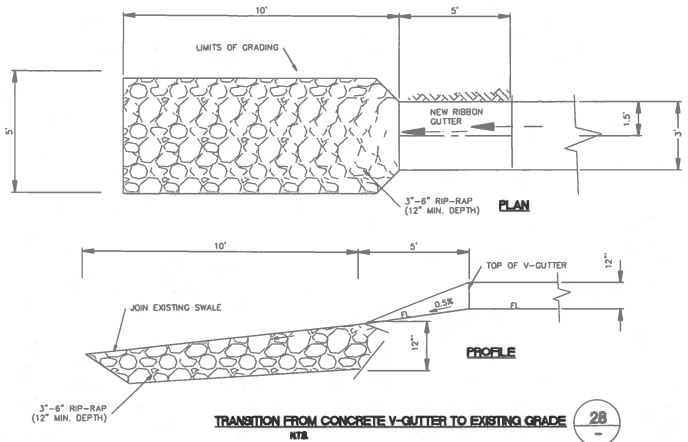
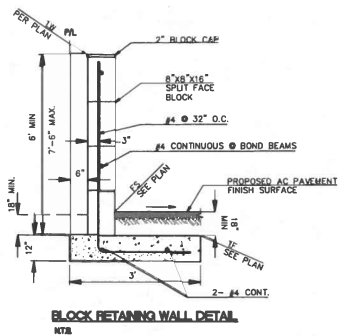
WALL DETAILS AND SECTIONS

C-07
 SHEET
 12
 OF
 33



NOTE:
1. THESE SECTIONS FOR ALT. BID ITEM 34 ONLY.

- NOTES:**
1. WALL FACE ON THE HERITAGE ROAD SIDE SHALL HAVE SLATE TO MATCH TOWD ROBINSON RANCH ROAD PUMP STATION.
 2. ALL WORK SHALL CONFORM TO CALIFORNIA BUILDING CODES.
 3. ALL CELLS CONTAINING REINFORCING STEEL SHALL BE CROUTED AND ALL RETAINING WALL CELLS SHALL BE FULLY CROUTED.
 4. ALL REBAR TO BE PER ASTM A615 GRADE 40 MIN.
 5. ALL REBAR LAP SPICES TO BE 24" MIN.
 6. REBAR TO BE CENTERED IN MASONRY CELLS.
 7. ALL MASONRY UNITS TO BE ASTM C-10, GRADE 'N'.
 8. CONCRETE MIX FOR FOOTINGS COMPRESSIVE STRENGTH=2,500 PSI
 9. MOTAR MIX SHALL CONFORM TO ASTM C270.
 10. CROUT USED FOR FILLING CLOCK CELLS MUST MEET COMPRESSIVE STRENGTH=2,000 PSI.



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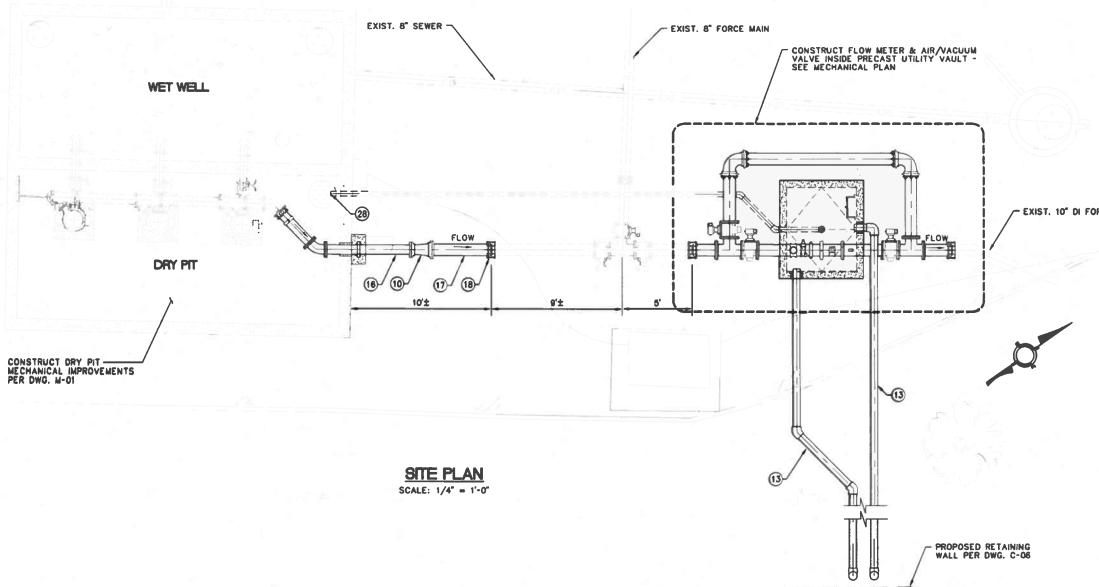
TRABUCO CANYON
CIVIL ENGINEER
Derek J. McGregor
C 38483
ENGINEER
8/11/25

TRABUCO CANYON
CIVIL ENGINEER
Derek J. McGregor
REC 87027
DISTRICT ENGINEER
4/06/25

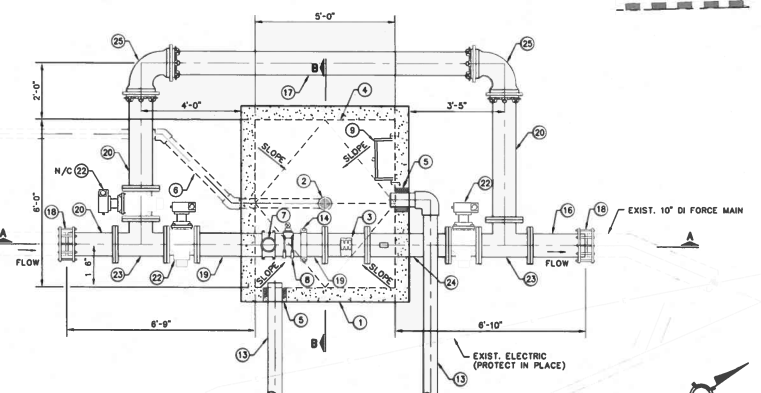
TRABUCO CANYON WATER DISTRICT
HERITAGE SEWER LIFT STATION IMPROVEMENTS PROJECT
PROJECT NO. FY24-104

WALL DETAILS AND SECTIONS

C-08
SHEET
13
OF
33



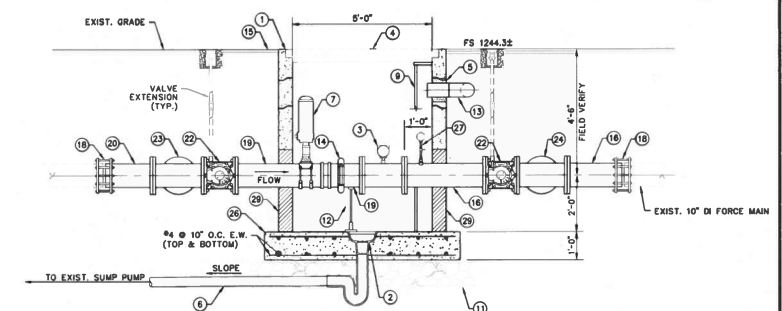
SITE PLAN
SCALE: 1/4" = 1'-0"



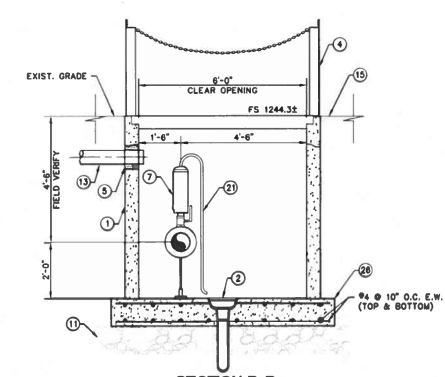
FLOW METER UTILITY VAULT MECHANICAL PLAN
SCALE: 1/2" = 1'-0"

CONSTRUCTION NOTES

- 1 CONSTRUCT 6 FT. x 5 FT. OPEN BOTTOM PRECAST CONCRETE VAULT
- 2 CONSTRUCT 4" FLOOR DRAIN WITH STAINLESS STEEL GRATE AND P-TRAP
- 3 CONSTRUCT 10" FLOD MAGNETIC FLOW METER
- 4 CONSTRUCT 6 FT. x 5 FT. ALUMINUM DOUBLE LEAF, SPRING ASSISTED H-20 TRAFFIC RATED ACCESS MATCH WITH SAFETY CHAIN
- 5 CONSTRUCT WALL PENETRATION PER (1/5)
- 6 CONSTRUCT 4" SCH. 80 PVC DRAIN PIPE
- 7 CONSTRUCT 2" AIR/VACUUM VALVE ASSEMBLY PER (1/5)
- 8 CONSTRUCT 2-1/2" THREADED OUTLET ON DI PIPE, 2-1/2" X 2" INSULATING BUSHING, 2" SST NIPPLE, AND 2" SST BALL VALVE
- 9 CONSTRUCT ALUMINUM ACCESS LADDER WITH WALL BRACKETS ANCHORED INTO VAULT WALL AND SAF-T-CLIMB ACCESSORY PER (1/5)
- 10 CONSTRUCT 10" M/J DUCTILE IRON REDUCER WITH JOINT RESTRAINT (EBAA IRON MEGALUG SERIES 1100, OR APPROVED EQUAL)
- 11 CONSTRUCT 12" THICK LAYER OF 3/4" CRUSHED ROCK BASE
- 12 CONSTRUCT PIPE SUPPORT PER (1/5)
- 13 CONSTRUCT 6" SCH 80 PVC AIR VENT PIPE AND FITTINGS PER (1/5)
- 14 CONSTRUCT 10" VICTALUC COUPLING, OR APPROVED EQUAL
- 15 REMOVE EXISTING AC PAVEMENT AND RESTORE IN KIND
- 16 CONSTRUCT 8" DUCTILE IRON SPOOL WITH THRUST COLLAR
- 17 CONSTRUCT 10" PE X PE DUCTILE IRON SPOOL (LENGTH AS REQUIRED)
- 18 CONSTRUCT 10" RESTRAINED MECHANICAL COUPLING (EBAA IRON MEGA-COUPILING SERIES 3800, OR APPROVED EQUAL)
- 19 CONSTRUCT 10" FE X GE DUCTILE IRON SPOOL (LENGTH AS REQUIRED)
- 20 CONSTRUCT 10" FE X PE DUCTILE IRON SPOOL (LENGTH AS REQUIRED)
- 21 EXTEND 1/2" SCH 80 PVC TO DRAIN INLET
- 22 CONSTRUCT 10" FE X FE PLUG VALVE WITH VALVE CAN PER (1/5)
- 23 CONSTRUCT 10" FE X FE DUCTILE IRON TEE
- 24 CONSTRUCT 10" FE X FE DUCTILE IRON SPOOL (LENGTH AS REQUIRED)
- 25 CONSTRUCT 10" M/J 90° DUCTILE IRON ELBOW WITH JOINT RESTRAINT (EBAA IRON MEGALUG SERIES 1100, OR APPROVED EQUAL)
- 26 CONSTRUCT 12" THICK CAST-IN-PLACE REINFORCED CONCRETE BASE
- 27 CONSTRUCT PRESSURE GAUGE/TRANSMITTER ASSEMBLY PER (1/5)
- 28 CORE DRILL WALL AND DISCHARGE 4" DRAIN PIPE TO EXISTING SUMP
- 29 REMOVE CONCRETE KNOCKOUTS FROM PRECAST VAULT TO SET STRUCTURE OVER FORCE MAIN - REPAIR CONCRETE AROUND 10" PIPE AFTER COMPLETION PER (1/5)



SECTION A-A
SCALE: 1/2" = 1'-0"



SECTION B-B
SCALE: 1/2" = 1'-0"

DIGALERT
CALL TOLL FREE 811
TWO WORKING DAYS BEFORE YOU DIG
Underground Service Alert

CONTRACTOR SHALL NOTIFY UNDERGROUND SERVICE ALERT A MINIMUM OF 48 HOURS PRIOR TO BEGINNING ANY CONSTRUCTION WORK. SEE GENERAL NOTES FOR FURTHER INFORMATION.

JIG CONSULTANTS

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ORANGE, CA 92867
(714) 978-4407
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NO.	DATE	REVISIONS	DESIGN:	DATE
			MM	4/08/25
			DRAWN: KS	
			CHECKED: JG	

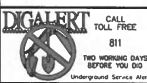
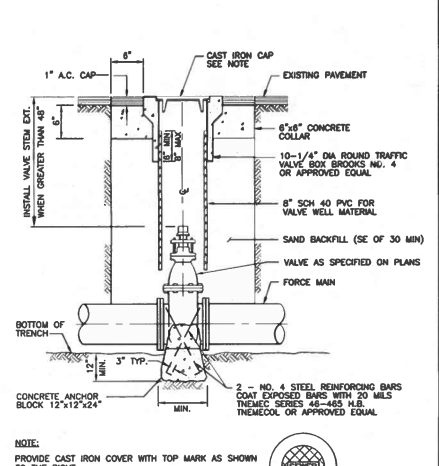
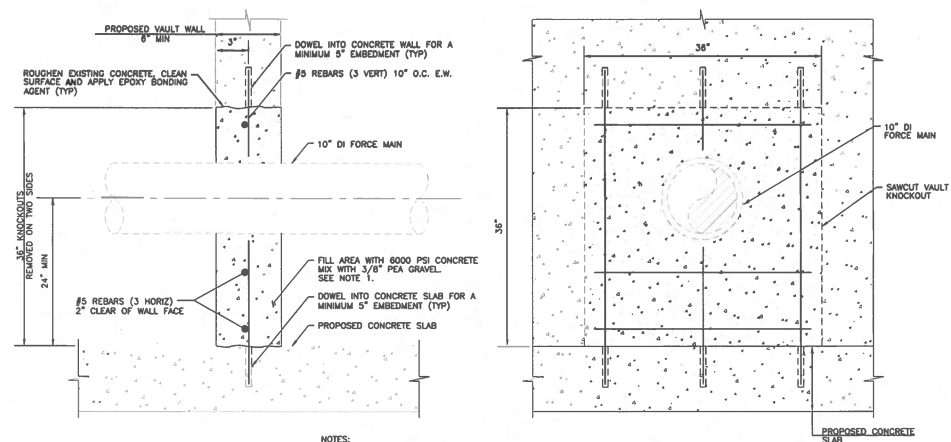
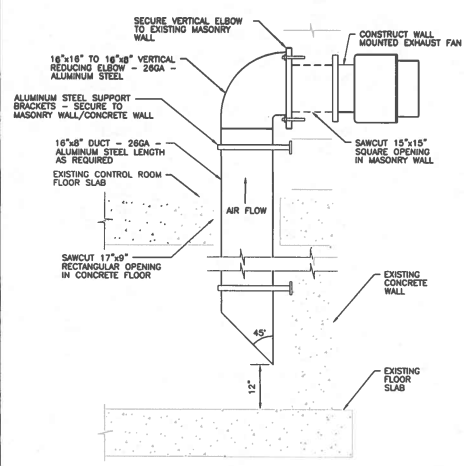
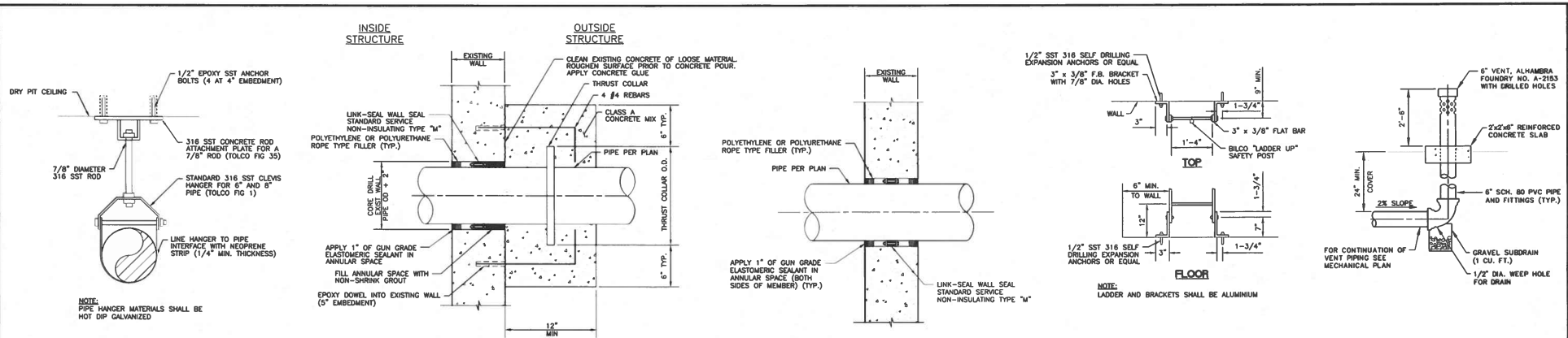


TRAVIS G. GOFF REGISTERED PROFESSIONAL ENGINEER RCE 58604	ENGINEER	4/08/25
TRAVIS G. GOFF REGISTERED PROFESSIONAL ENGINEER RCE 87037	DISTRICT ENGINEER	4/08/25

TRABUCO CANYON WATER DISTRICT
HERITAGE SEWER LIFT STATION IMPROVEMENTS PROJECT
PROJECT NO. FY24-104

FLOW METER
MECHANICAL PLAN & SECTIONS

M-02
SHEET
16
OF
33



CONTRACTOR SHALL NOTIFY UNDERGROUND SERVICE ALERT A MINIMUM OF 48 HOURS PRIOR TO BEGINNING ANY CONSTRUCTION WORK. SEE GENERAL NOTES FOR FURTHER INFORMATION.



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ORANGE, CA 92667
(714) 978-4407
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NO.	DATE	REVISIONS

DESIGN: MM
DRAWN: KS
CHECKED: JC

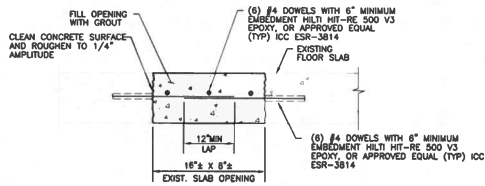


DATE: 9/09/25
ENGINEER: RCE 83604
DATE: 9/06/25
DISTRICT ENGINEER: RCE 87027

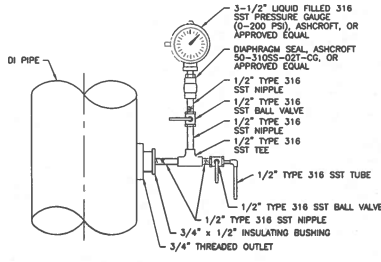
TRABUCO CANYON WATER DISTRICT
HERITAGE SEWER LIFT STATION IMPROVEMENTS PROJECT
PROJECT NO. FY24-104

MISCELLANEOUS MECHANICAL DETAILS

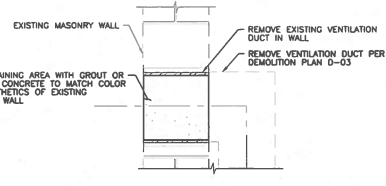
M-03
SHEET 16
OF 33



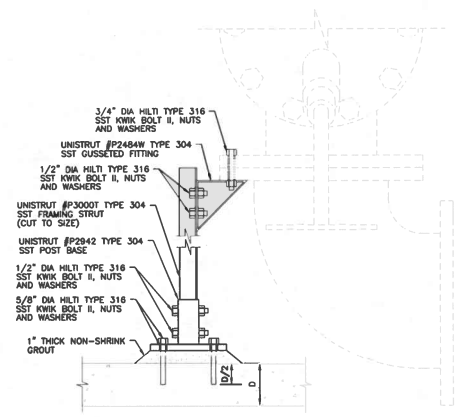
CONCRETE SLAB OPENING REPAIR 1
NOT TO SCALE



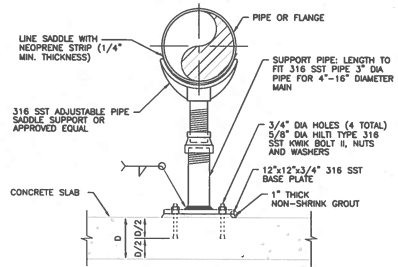
PRESSURE GAUGE ASSEMBLY 2
NOT TO SCALE



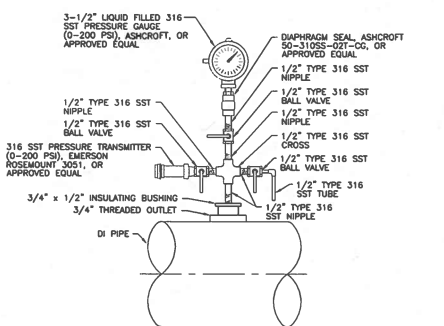
MASONRY WALL REPAIR 3
NOT TO SCALE



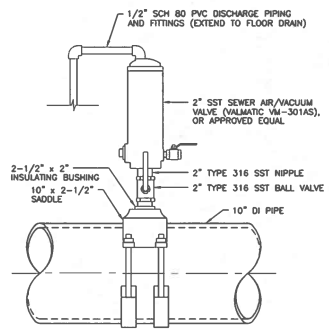
UNISTRUT PIPE SUPPORT 4
NOT TO SCALE



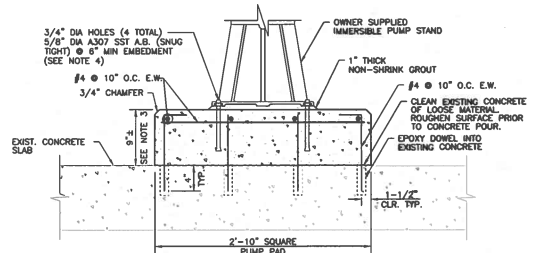
PIPE SUPPORT 5
NOT TO SCALE



PRESSURE GAUGE/TRANSMITTER ASSEMBLY 6
NOT TO SCALE



SEWER AIR/VACUUM VALVE ASSEMBLY 7
NOT TO SCALE



CONCRETE PAD 8
NOT TO SCALE

- NOTES:
1. USE CLASS C CONCRETE MIX
 2. CONTRACTOR TO VERIFY LOCATION OF CONCRETE PAD IN CONJUNCTION WITH LAYOUT OF NEW DISCHARGE PIPING
 3. HEIGHT OF CONCRETE PAD SHALL BE VERIFIED IN THE FIELD TO ALLOW NEW PUMP SUCTION TO LINE UP VERTICALLY WITH EXISTING SUCTION PIPE
 4. CONTRACTOR TO VERIFY ANCHOR BOLT SIZE AND EMBEDMENT WITH PUMP MANUFACTURER.



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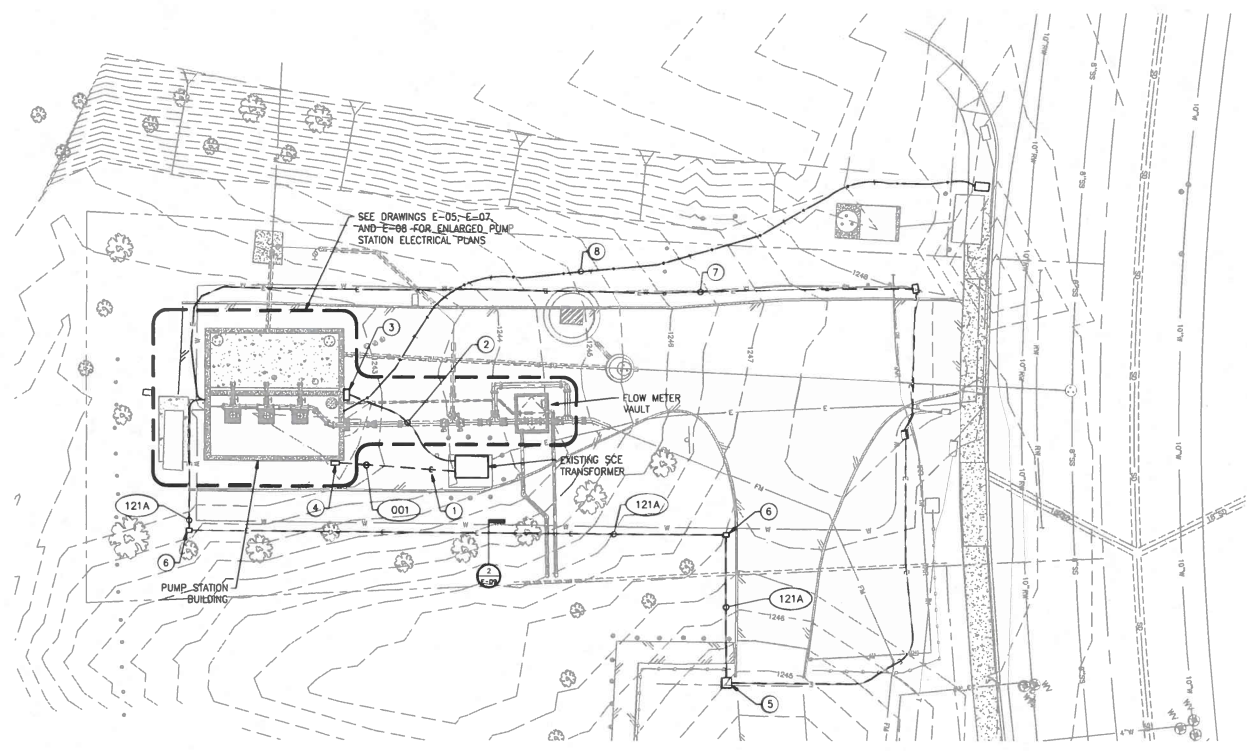


DATE: 4/08/25
ENGINEER: RCE 59204
DATE: 4/08/25
DISTRICT ENGINEER: RCE 67927

TRABUCO CANYON WATER DISTRICT
HERITAGE SEWER LIFT STATION IMPROVEMENTS PROJECT
PROJECT NO. F724-104

MISCELLANEOUS MECHANICAL DETAILS

M-04
SHEET 17 OF 33



SITE ELECTRICAL PLAN
SCALE: 1" = 10'-0"

- NOTES**
- 1 EXISTING 3" C. STUB OUT FROM SCE TRANSFORMER. EXTEND TO NEW METER SOCKET (CONDUIT (001)). INSTALL UG CONDUIT PER SCE REQUIREMENTS.
 - 2 EXISTING SCE SERVICE 3" C. TO BE ABANDONED IN PLACE.
 - 3 EXISTING SCE SERVICE PULLBOX TO BE REMOVED.
 - 4 NEW SCE SERVICE METER/MAN.
 - 5 EXISTING ELECTRIC GATE OPERATOR. DISCONNECT AND REMOVE EXISTING BRANCH CIRCUIT WIRING AND RECONNECT USING NEW WIRING PER CONDUIT (121A).
 - 6 10"x17"x12" PRECAST CONCRETE PULLBOX. EQUAL TO JENSEN HN1017.
 - 7 REMOVE EXISTING ELECTRIC GATE BRANCH CIRCUIT CONDUCTORS FROM EXISTING CONDUIT, ABANDON CONDUIT IN PLACE. NEW BRANCH CIRCUIT TO REPLACE THE EXISTING ARE SHOWN IN NEW CONDUITS (121 AND 121A).
 - 8 EXISTING TELEPHONE SERVICE UG CONDUIT TO BE RE-ROUTED. REFER TO DMC DRAWING C-05.

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CONTRACTOR SHALL NOTIFY UNDERGROUND SERVICE ALERT A MINIMUM OF 48 HOURS PRIOR TO BEGINNING ANY CONSTRUCTION WORK. SEE GENERAL NOTES FOR FURTHER INFORMATION.

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2734 Lobert Ave West, Suite M, Carlsbad, CA 92010 Tel: (619) 962-2356



09-04-25

GRAPHIC SCALE
0 10 20
SCALE: 1" = 10'

NO.	DATE	REVISIONS

DESIGN: GG
DRAWN: AH
CHECKED: GG

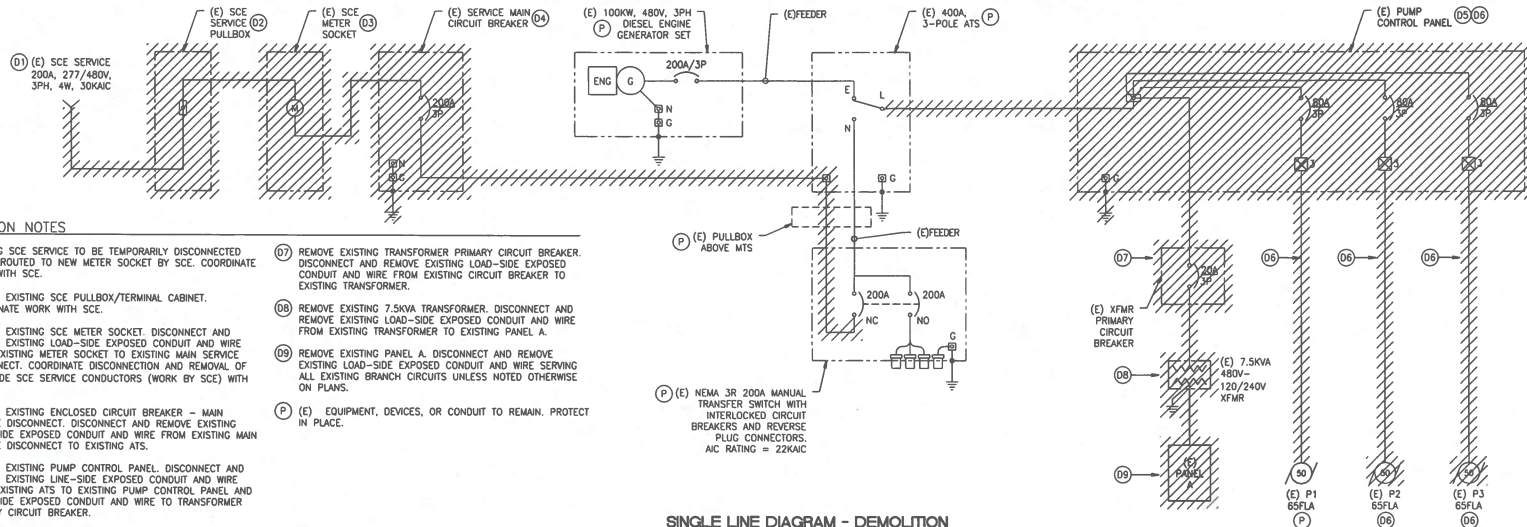


DATE: 9/08/25
ENGINEER: RCE 53604
DISTRICT ENGINEER: 9/08/25
DATE: 9/08/25
DISTRICT ENGINEER: RCE 67027

TRABUCO CANYON WATER DISTRICT
HERITAGE SEWER LIFT STATION IMPROVEMENTS PROJECT
PROJECT NO. FY24-104

SITE ELECTRICAL PLAN

E-02
SHEET 10 OF 33



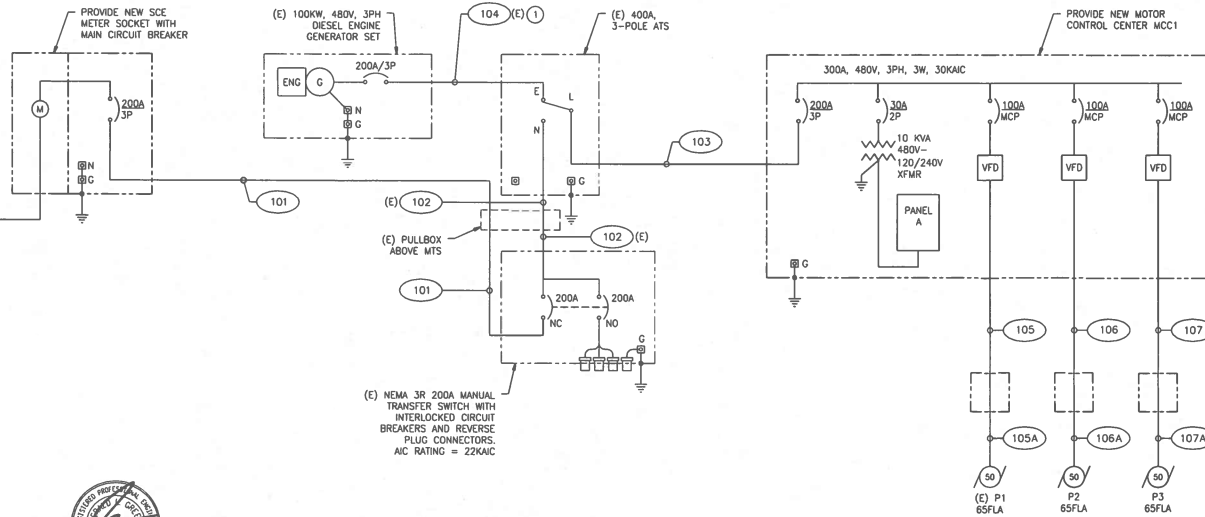
DEMOLITION NOTES

- 01 EXISTING SCE SERVICE TO BE TEMPORARILY DISCONNECTED AND REROUTED TO NEW METER SOCKET BY SCE. COORDINATE WORK WITH SCE.
- 02 REMOVE EXISTING SCE PULLBOX/TERMINAL CABINET. COORDINATE WORK WITH SCE.
- 03 REMOVE EXISTING SCE METER SOCKET. DISCONNECT AND REMOVE EXISTING LOAD-SIDE EXPOSED CONDUIT AND WIRE FROM EXISTING METER SOCKET TO EXISTING MAIN SERVICE DISCONNECT. COORDINATE DISCONNECTION AND REMOVAL OF LINE-SIDE SCE SERVICE CONDUCTORS (WORK BY SCE) WITH SCE.
- 04 REMOVE EXISTING ENCLOSED CIRCUIT BREAKER - MAIN SERVICE DISCONNECT. DISCONNECT AND REMOVE EXISTING LOAD-SIDE EXPOSED CONDUIT AND WIRE FROM EXISTING MAIN SERVICE DISCONNECT TO EXISTING ATS.
- 05 REMOVE EXISTING PUMP CONTROL PANEL. DISCONNECT AND REMOVE EXISTING LINE-SIDE EXPOSED CONDUIT AND WIRE FROM EXISTING ATS TO EXISTING PUMP CONTROL PANEL AND LOAD-SIDE EXPOSED CONDUIT AND WIRE TO TRANSFORMER PRIMARY CIRCUIT BREAKER.
- 06 DISCONNECT AND REMOVE EXISTING POWER AND CONTROL CABLING OR CONDUIT FOR (3) EXISTING PUMPS. PUMP P1 IS TO REMAIN, PUMPS P2 AND P3 ARE BEING REMOVED AND REPLACED WITH NEW PUMPS PER MECHANICAL PLANS.
- 07 REMOVE EXISTING TRANSFORMER PRIMARY CIRCUIT BREAKER. DISCONNECT AND REMOVE EXISTING LOAD-SIDE EXPOSED CONDUIT AND WIRE FROM EXISTING CIRCUIT BREAKER TO EXISTING TRANSFORMER.
- 08 REMOVE EXISTING 7.5KVA TRANSFORMER. DISCONNECT AND REMOVE EXISTING LOAD-SIDE EXPOSED CONDUIT AND WIRE FROM EXISTING TRANSFORMER TO EXISTING PANEL A.
- 09 REMOVE EXISTING PANEL A. DISCONNECT AND REMOVE EXISTING LOAD-SIDE EXPOSED CONDUIT AND WIRE SERVING ALL EXISTING BRANCH CIRCUITS UNLESS NOTED OTHERWISE ON PLANS.
- P (E) EQUIPMENT, DEVICES, OR CONDUIT TO REMAIN. PROTECT IN PLACE.

SINGLE LINE DIAGRAM - DEMOLITION

NOTES

- 1 EXISTING CONDUIT/WIRE. TEMPORARILY DISCONNECT CONDUCTORS AT ATS AND PULL BACK TO FACILITATE REMOVAL AND REPLACEMENT OF EXISTING WIRE GUTTER, AND CONDUIT TO ATS.



SINGLE LINE DIAGRAM



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CHECKED: GG	DISTRICT ENGINEER: [Signature]

PROJECT: TRABUCO CANYON WATER DISTRICT HERITAGE SEWER LIFT STATION IMPROVEMENTS PROJECT	PROJECT NO: FY24-104
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PROJECT: TRABUCO CANYON WATER DISTRICT HERITAGE SEWER LIFT STATION IMPROVEMENTS PROJECT	PROJECT NO: FY24-104
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PROJECT: TRABUCO CANYON WATER DISTRICT HERITAGE SEWER LIFT STATION IMPROVEMENTS PROJECT	PROJECT NO: FY24-104
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E-03
SHEET 20 OF 33

CONDUIT/CABLE SCHEDULE								
TAG	CONDUIT	CABLE (EA CONDUIT)			FROM	TO	REMARKS	
I.D.	QTY.	SIZE	QTY.	SIZE	GND			
001	1	3	-	-	-	SCE TRANSFORMER PAD	SCE METER/MAIN	EXTEND CONDUIT FROM STUBOUT AT PAD. CONDUCTORS BY SCE.
101	1	2	3	3/0	8	SCE METER/MAIN	MANUAL TRANSFER SWITCH	
102	1	2	3	3/0	8	MANUAL TRANSFER SWITCH	AUTO TRANSFER SWITCH	
103	1	2	3	3/0	8	AUTO TRANSFER SWITCH	MOTOR CONTROL CENTER MCC1	
104	1	2	3	3/0	8	GENERATOR SET	AUTO TRANSFER SWITCH	
105	1	1-1/4	3	4	8	MCC1 - P1 SECTION	PUMP P1 PULLBOX	PUMP POWER, HEATER, LOS, AND OVERTEMP CONDUCTORS.
105A	1	1-1/4	6	4	8	PUMP P1 PULLBOX	PUMP P1	PUMP POWER, HEATER, AND OVERTEMP CONDUCTORS.
105B	1	3/4	2	14	14	PUMP P1 PULLBOX	LOS	PUMP LOS CONDUCTORS.
106	1	1-1/4	3	4	8	MCC1 - P1 SECTION	PUMP P1 PULLBOX	PUMP POWER, HEATER, LOS, AND OVERTEMP CONDUCTORS.
106A	1	1-1/4	6	4	8	PUMP P1 PULLBOX	PUMP P1	PUMP POWER, HEATER, AND OVERTEMP CONDUCTORS.
106B	1	3/4	2	14	14	PUMP P1 PULLBOX	LOS	PUMP LOS CONDUCTORS.
107	1	1-1/4	3	4	8	MCC1 - P1 SECTION	PUMP P1 PULLBOX	PUMP POWER, HEATER, LOS, AND OVERTEMP CONDUCTORS.
107A	1	1-1/4	6	4	8	PUMP P1 PULLBOX	PUMP P1	PUMP POWER, HEATER, AND OVERTEMP CONDUCTORS.
107B	1	3/4	2	14	14	PUMP P1 PULLBOX	LOS	PUMP LOS CONDUCTORS.
108	1	1	4	10	10	PANEL A	GENERATOR SET	BATTERY CHARGER AND BLOCK HEATER
109	1	1	2	14	14	GENERATOR SET	AUTO TRANSFER SWITCH	GENERATOR START
110	1	1	10	14	14	SCADA RTU PANEL	MCC1 - P1 SECTION	PUMP CONTROLS - HAND, AUTO, RUN, FAIL, AND CALL
110A	1	1	2	TSP	-	SCADA RTU PANEL	MCC1 - P1 SECTION	PUMP CONTROLS - SPEED CONTROL AND SPEED FEEDBACK
111	1	1	10	14	14	SCADA RTU PANEL	MCC1 - P2 SECTION	PUMP CONTROLS - HAND, AUTO, RUN, FAIL, AND CALL
111A	1	1	2	TSP	-	SCADA RTU PANEL	MCC1 - P2 SECTION	PUMP CONTROLS - SPEED CONTROL AND SPEED FEEDBACK
112	1	1	10	14	14	SCADA RTU PANEL	MCC1 - P3 SECTION	PUMP CONTROLS - HAND, AUTO, RUN, FAIL, AND CALL
112A	1	1	2	TSP	-	SCADA RTU PANEL	MCC1 - P3 SECTION	PUMP CONTROLS - SPEED CONTROL AND SPEED FEEDBACK

CONDUIT/CABLE SCHEDULE								
TAG	CONDUIT	CABLE (EA CONDUIT)			FROM	TO	REMARKS	
I.D.	QTY.	SIZE	QTY.	SIZE	GND			
113	1	3/4	2	12	12	PANEL A	EXH FAN STARTER	EXTEND TO MOTOR WITH FLEX
113A	1	3/4	2	12	12	EXH FAN STARTER	VENTILATION MONITOR PANEL	
113B	1	3/4	2	14	14	VENTILATION MONITOR PANEL	SCADA RTU PANEL	
114	1	3/4	2	12	12	PANEL A	SCADA RTU PANEL	
115	1	3/4	8	14	14	SCADA RTU PANEL	ATS WIREWAY	ATS - UTILITY, EMERG. GEN - RUN, FAIL
115A	1	3/4	4	14	14	ATS WIREWAY	AUTO TRANSFER SWITCH	ATS - UTILITY, EMERG.
115B	1	3/4	4	14	14	ATS WIREWAY	GENERATOR SET	GEN - RUN, FAIL
116	1	1	2	12	12	PANEL A	AUTODIALER	
117	1	1	10	14	14	SCADA RTU PANEL	AUTODIALER	
118	1	1	2	12	12	PANEL A	MAG FLOW METER	
119	1	1	2	TSP	-	SCADA RTU PANEL	MAG FLOW METER AND PRESSURE TRANSMITTER	EXTEND IN SEPARATE FLEX TO FLOW METER AND PRESSURE TRANS.
120	1	3/4	2	14	14	SCADA RTU PANEL	SUMP PUMP FLOOD SWITCH	
121	1	3/4	2	10	10	PANEL A	(E) TIME CLOCK	
121A	1	1	2	10	10	(E) TIME CLOCK	(E) GATE CONTROLLER	

PANEL: A MOUNTED IN MCC1

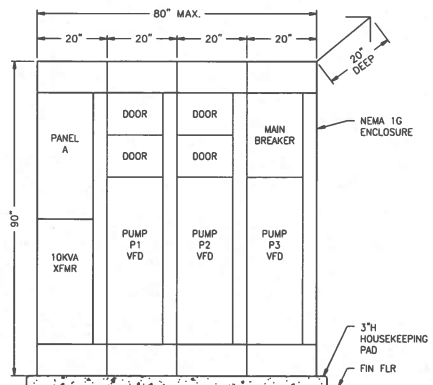
VOLT: 120/240V 1 PHASE, 3 WIRE
 BUS: 125 AMP
 MAIN: 80A, 2P

FED FROM: TRANSFORMER 10KVA, 480V-120/240V, 1 PHASE

DESCRIPTION	C	K	LOAD	Y	AMP	PER PHASE	W	LOAD	Y	AMP	PER PHASE	W	LOAD	Y	AMP	PER PHASE	W
SUMP PUMP RECEPTACLE	1	1000	1	1000	1	1300	1	20	1	20	1	20	1	20	1	20	1
SCADA RTU PANEL	3	1000	3	1000	3	1540	3	20	3	20	3	20	3	20	3	20	3
MAG FLOW METER	5	300	5	300	5	660	5	15	5	15	5	15	5	15	5	15	5
GENERATOR SET HEATER	7	2000	7	2000	7	2300	7	30	7	30	7	30	7	30	7	30	7
GENERATOR SET BATTERY CHARGER	8	300	8	300	8	1300	8	20	8	20	8	20	8	20	8	20	8
GATE CONTROLLER	11	1000	11	1000	11	1000	11	20	11	20	11	20	11	20	11	20	11
SPARE	12		12		12	0	12	20	12	20	12	20	12	20	12	20	12
SPARE	13		13		13	0	13	20	13	20	13	20	13	20	13	20	13
SPARE	14		14		14	0	14	20	14	20	14	20	14	20	14	20	14
SPARE	15		15		15	0	15	20	15	20	15	20	15	20	15	20	15
SPARE	16		16		16	0	16	20	16	20	16	20	16	20	16	20	16
SPARE	17		17		17	0	17	20	17	20	17	20	17	20	17	20	17
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SPARE	20		20		20	0	20	20	20	20	20	20	20	20	20	20	20
SPARE	21		21		21	0	21	20	21	20	21	20	21	20	21	20	21
SPARE	22		22		22	0	22	20	22	20	22	20	22	20	22	20	22
SPARE	23		23		23	0	23	20	23	20	23	20	23	20	23	20	23

THROUGH FEED OR DOUBLE LUG TOTAL VA PER PHASE: 0 0 0
 TOTAL VOLT AMPERES PER PHASE: 3260 4840

KEY	DEMAND	DESIGN	CONNECTED	TOTALS			
L-GENERAL LIGHTING LOAD	125%	2000	VA	1600	VA	8	TOTAL CONNECTED KVA
R-RECEPTABLES (NEC ART. 220-1)		900	VA	900	VA	9	TOTAL DESIGN KVA
M-MOTOR LOADS		2000	VA	2000	VA	34	TOTAL CONNECTED AMPS
K-KITCHEN RECEPTABLES	0 AT 100%	0	VA	0	VA	2	25% OF LARGEST MOTOR AMPS
ALL OTHER LOADS		3600	VA	3600	VA	38	TOTAL DESIGN AMPS



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MOTOR CONTROL CENTER MCC1 ELEVATION 1
 NOT TO SCALE

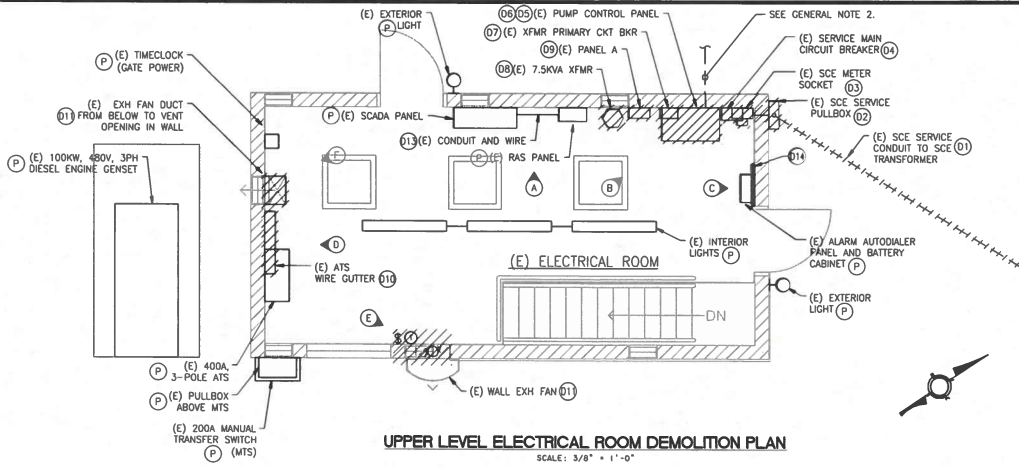
NO.	DATE	REVISIONS

DESIGN: GG
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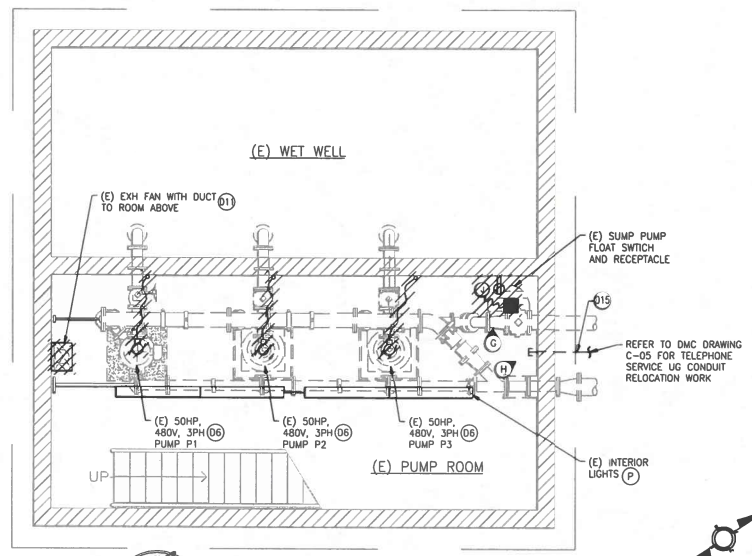
DATE: 4/08/25
 ENGINEER: [Signature]
 DATE: 4/08/25
 DISTRICT ENGINEER: [Signature]

TRABUCO CANYON WATER DISTRICT
 HERITAGE SEWER LIFT STATION IMPROVEMENTS PROJECT
 PROJECT NO. FY24-104

ELECTRICAL SCHEDULES AND EQUIPMENT ELEVATIONS



UPPER LEVEL ELECTRICAL ROOM DEMOLITION PLAN
SCALE: 3/8" = 1'-0"



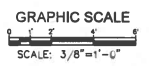
LOWER LEVEL PUMP ROOM DEMOLITION PLAN
SCALE: 3/8" = 1'-0"

GENERAL NOTES

- REMOVE ALL INTERIOR (ONLY) ELECTRICAL EQUIPMENT, DEVICES, AND ASSOCIATED CONDUIT UNLESS OTHERWISE NOTED ON ELECTRICAL DRAWINGS. INCLUDE REMOVAL OF LIGHT SWITCHES, RECEPTACLES, AND OTHER BRANCH CIRCUIT DEVICES NOT SHOWN ON DEMOLITION PLANS.
- CONTRACTOR SHALL INVESTIGATE AND RECORD AS-BUILT CONDITIONS FOR AN EXISTING WET WELL SUBMERSIBLE TRANSDUCER CONNECTED TO PLC AND AN EXISTING HIGH LEVEL ALARM FLOAT SWITCH WITH DIRECT CONNECTION TO AUTO DIALER ALARM. REMOVE PORTION OF EXISTING CONDUIT THAT IS IN CONFLICT WITH NEW MCC AND RE-ROUTE USING NEW CONDUIT, JUNCTION BOXES, TERMINAL BLOCKS, AND CABLING (NOT SHOWN ON PLANS) AS REQUIRED FOR RECONNECTION PER EXISTING CONDITIONS.
- PROVIDE CONCRETE REPAIRS FOR EXISTING CONCRETE WALLS AND FLOOR SLABS WHERE EXISTING CONDUIT IS REMOVED.

DEMOLITION NOTES

- EXISTING SCE SERVICE TO BE TEMPORARILY DISCONNECTED AND REROUTED TO NEW METER SOCKET BY SCE. COORDINATE WORK WITH SCE.
- REMOVE EXISTING SCE PULLBOX/TERMINAL CABINET. COORDINATE WORK WITH SCE.
- REMOVE EXISTING SCE METER SOCKET. DISCONNECT AND REMOVE EXISTING LOAD-SIDE EXPOSED CONDUIT AND WIRE FROM EXISTING METER SOCKET TO EXISTING MAIN SERVICE DISCONNECT. COORDINATE DISCONNECTION AND REMOVAL OF LINE-SIDE SCE SERVICE CONDUCTORS (WORK BY SCE) WITH SCE.
- REMOVE EXISTING ENCLOSED CIRCUIT BREAKER - MAIN SERVICE DISCONNECT. DISCONNECT AND REMOVE EXISTING LOAD-SIDE EXPOSED CONDUIT AND WIRE FROM EXISTING MAIN SERVICE DISCONNECT TO EXISTING ATIS.
- REMOVE EXISTING PUMP CONTROL PANEL. DISCONNECT AND REMOVE EXISTING LINE-SIDE EXPOSED CONDUIT AND WIRE FROM EXISTING ATIS TO EXISTING PUMP CONTROL PANEL AND LOAD-SIDE EXPOSED CONDUIT AND WIRE TO TRANSFORMER PRIMARY CIRCUIT BREAKER.
- DISCONNECT AND REMOVE EXISTING POWER AND CONTROL CABLING OR CONDUIT FOR (3) EXISTING PUMPS. PUMP P1 IS TO REMAIN, PUMPS P2 AND P3 ARE BEING REMOVED AND REPLACED WITH NEW PUMPS PER MECHANICAL PLANS.
- REMOVE EXISTING TRANSFORMER PRIMARY CIRCUIT BREAKER. DISCONNECT AND REMOVE EXISTING LOAD-SIDE EXPOSED CONDUIT AND WIRE FROM EXISTING CIRCUIT BREAKER TO EXISTING TRANSFORMER.
- REMOVE EXISTING 7.5KVA TRANSFORMER. DISCONNECT AND REMOVE EXISTING LOAD-SIDE EXPOSED CONDUIT AND WIRE FROM EXISTING TRANSFORMER TO EXISTING PANEL A.
- REMOVE EXISTING PANEL A. DISCONNECT AND REMOVE EXISTING LOAD-SIDE EXPOSED CONDUIT AND WIRE SERVING ALL EXISTING BRANCH CIRCUITS UNLESS NOTED OTHERWISE ON PLANS.
- REMOVE EXISTING ATIS WIRE GUTTER. PROVIDE A NEW WIRE GUTTER SAME SIZE AS EXISTING AS SHOWN ON PLANS.
- REMOVE EXISTING EXHAUST FAN, DUCT, AND ASSOCIATED DEVICES, AND CONDUIT.
- REMOVE EXISTING FLOAT SWITCH AND RECEPTACLE. DISCONNECT AND REMOVE ASSOCIATED CONDUIT AND WIRE.
- (3) EXISTING CONDUITS BETWEEN SCADA PANEL AND RAS PANEL SHALL REMAIN. REMOVE EXISTING PUMP CONTROL CONDUCTORS CURRENTLY ROUTED FROM PLC TO PUMP CONTROL PANEL VIA RAS PANEL. NEW PUMP CONTROL CONDUCTOR FROM PLC TO MCC SHALL BE ROUTED DIRECT TO MCC FROM PLC.
- REMOVE EXISTING TELEPHONE BACKBOARD.
- REMOVE SECTION OF TELEPHONE SERVICE CONDUIT THAT PENETRATES WALL.
- (E) EQUIPMENT, DEVICES, OR CONDUIT TO REMAIN. PROTECT IN PLACE.
- SEE PHOTO "A" OF EXISTING CONDITIONS WITH ADDITIONAL DEMOLITION NOTES ON DRAWING E-06.



DIGALBERT CALL TOLL FREE 811
CONTRACTOR SHALL NOTIFY UNDERGROUND SERVICE ALERT A MINIMUM OF 48 HOURS PRIOR TO BEGINNING ANY CONSTRUCTION WORK. SEE GENERAL NOTES FOR FURTHER INFORMATION.
TWO WORKING DAYS BEFORE YOU DIG
Underground Service Alert

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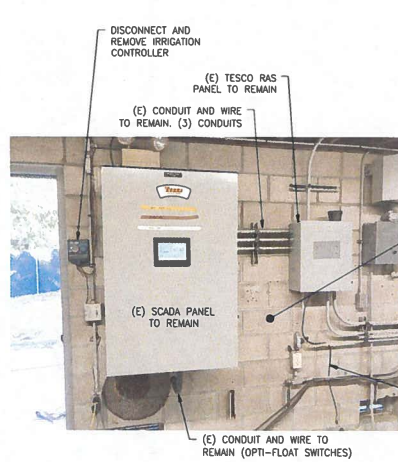


DESIGN: GG	DATE: 4/08/25
DRAWN: AH	ENGINEER: [Signature]
CHECKED: GG	DISTRICT ENGINEER: 4/08/25

TRABUCO CANYON WATER DISTRICT
HERITAGE SEWER LIFT STATION IMPROVEMENTS PROJECT
PROJECT NO. FY24-104

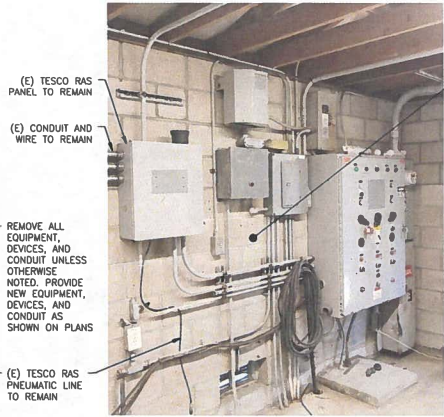
ELECTRICAL DEMOLITION PLANS

E-05
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OF
33



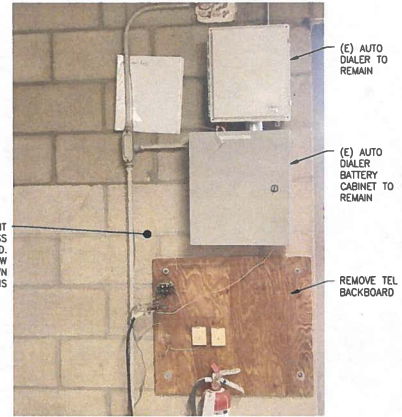
EXISTING CONDITIONS PHOTO A
NOT TO SCALE

(A)



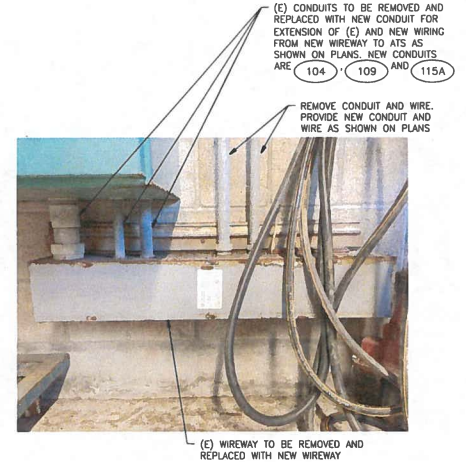
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(B)



EXISTING CONDITIONS PHOTO C
NOT TO SCALE

(C)



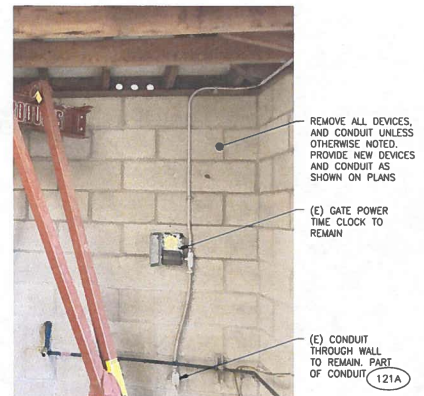
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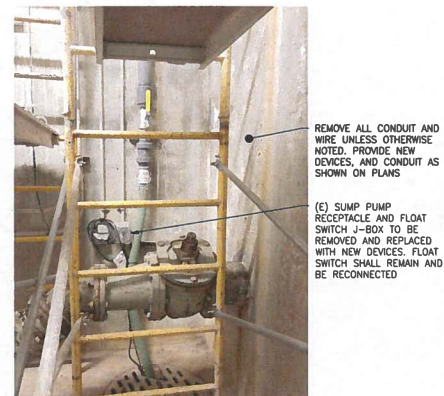
EXISTING CONDITIONS PHOTO E
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(E)



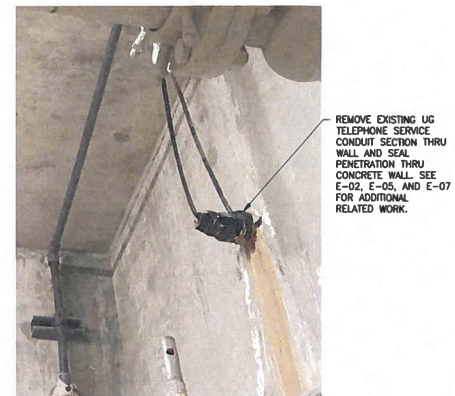
EXISTING CONDITIONS PHOTO F
NOT TO SCALE

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EXISTING CONDITIONS PHOTO G
NOT TO SCALE

(G)



EXISTING CONDITIONS PHOTO H
NOT TO SCALE

(H)



CALL TOLL FREE 811
TWO WORKING DAYS BEFORE YOU DIG
Underground Service Alert

GERRY GREEN INC.
Consulting Electrical Engineers
2724 Los Ber Ave West, Suite M, Carlsbad, CA 92008 Tel: (858) 982-2266



09-04-25

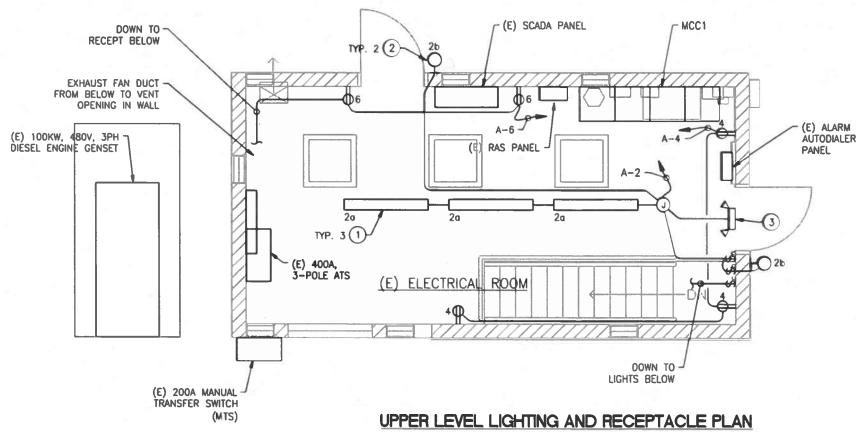
NO	DATE	REVISIONS	DESIGN
			GG
			AH
			GG

DRAWN: AH	DATE: 4/08/25
CHECKED: GG	ENGINEER: RCE 55604
	DISTRICT ENGINEER: RCE 67027

TRABUCO CANYON WATER DISTRICT
HERITAGE SEWER LIFT STATION IMPROVEMENTS PROJECT
PROJECT NO. FY24-104

EXISTING CONDITIONS PHOTOS

E-08
SHEET 23 OF 33



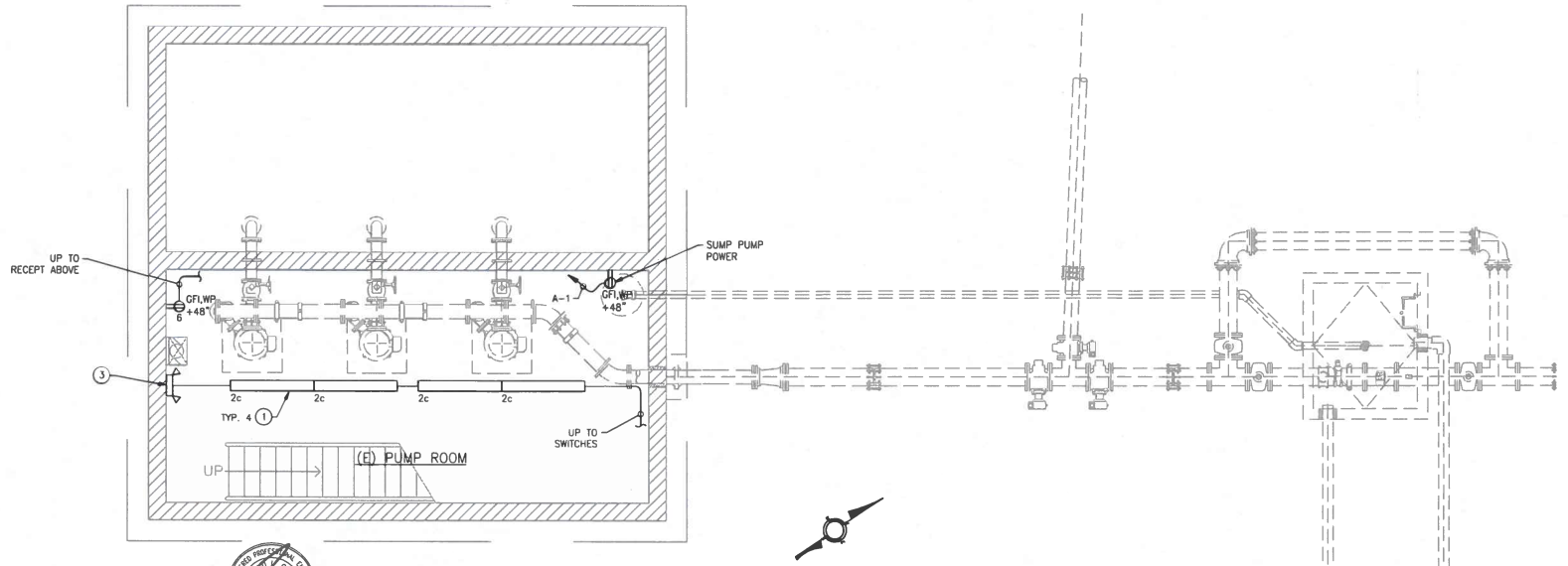
UPPER LEVEL LIGHTING AND RECEPTACLE PLAN
SCALE: 3/8" = 1'-0"

GENERAL NOTES

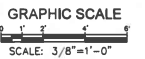
1. NEW INTERIOR EXPOSED CONDUIT IN ABOVE GRADE ELECTRICAL ROOM SHALL BE GALVANIZED RIGID STEEL.
2. NEW EXTERIOR EXPOSED CONDUIT AND INTERIOR EXPOSED CONDUIT IN BELOW GRADE PUMP ROOM AND METER VAULT SHALL BE PVC-COATED RIGID STEEL.

NOTES

- 1 EXISTING WET LOCATION CEILING MOUNTED LINEAR LIGHT FIXTURE.
- 2 EXISTING WALL MOUNTED EXTERIOR LIGHT.
- 3 PROVIDE WALL MOUNTED EMERGENCY LIGHT, LITHONIA #HDL-SP2200L-1VOLT-LTP-EHD-SDR1.



LOWER LEVEL LIGHTING AND RECEPTACLE PLAN
SCALE: 3/8" = 1'-0"



CONTRACTOR SHALL NOTIFY UNDERGROUND SERVICE ALERT A MINIMUM OF 48 HOURS PRIOR TO BEGINNING ANY CONSTRUCTION WORK. SEE GENERAL NOTES FOR FURTHER INFORMATION.

GERRY GREEN INC. Consulting Electrical Engineers
2734 Lybair Ave West, Suite M, Carlsbad, CA 92008 Tel: (619) 962-2356



09-04-25

NO.	DATE	REVISIONS

DESIGN: GG
DRAWN: AH
CHECKED: GG

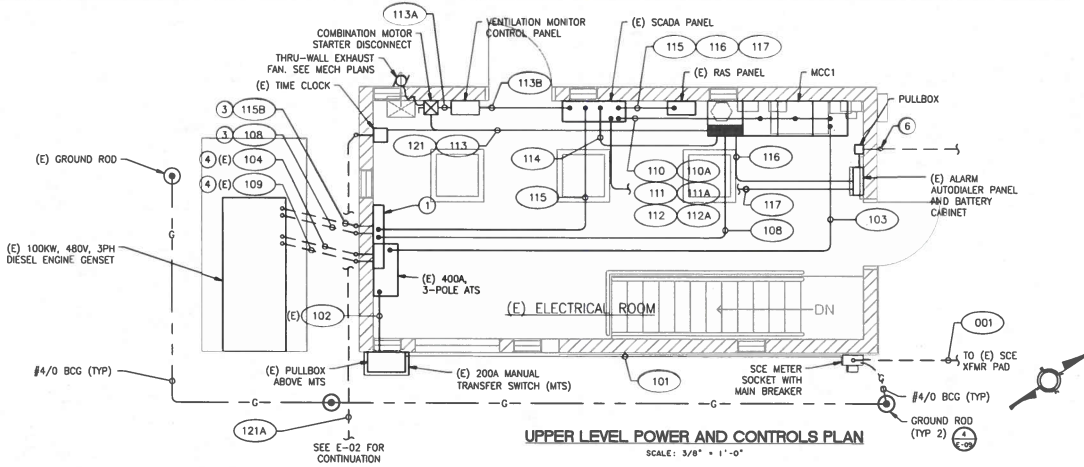


DATE: 4/08/25
ENGINEER: RCE 5904
DATE: 4/08/25
DISTRICT ENGINEER: RCE 6302

TRABUCO CANYON WATER DISTRICT
HERITAGE SEWER LIFT STATION IMPROVEMENTS PROJECT
PROJECT NO. FY24-104

LIGHTING AND RECEPTACLE PLANS

E-07
SHEET **24**
OF **33**



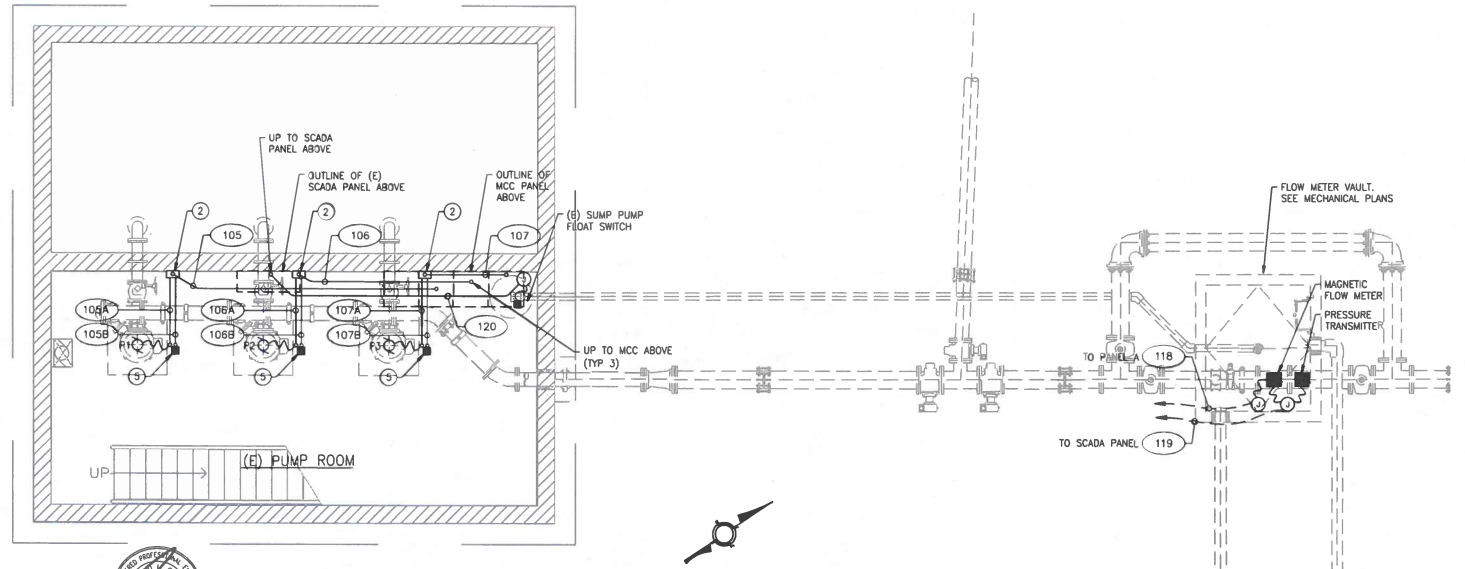
UPPER LEVEL POWER AND CONTROLS PLAN
SCALE: 3/8" = 1'-0"

GENERAL NOTES

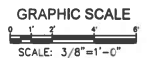
1. NEW INTERIOR EXPOSED CONDUIT IN ABOVE GRADE ELECTRICAL ROOM SHALL BE GALVANIZED RIGID STEEL.
2. NEW EXTERIOR EXPOSED CONDUIT AND INTERIOR EXPOSED CONDUIT IN BELOW GRADE PUMP ROOM AND METER VAULT SHALL BE PVC-COATED RIGID STEEL.

NOTES

1. PROVIDE NEW WIRE GUTTER TO REPLACE THE GUTTER REMOVED.
2. PROVIDE NEMA 4X PULLBOX, 8"W X 8"H X 6"D.
3. CONDUIT 108 AND 115B FROM WIRE GUTTER TO GENSET IS EXISTING CONDUIT. PROVIDE NEW CONDUCTORS PER CONDUIT SCHEDULE.
4. EXISTING CONDUIT/WIRE. TEMPORARILY DISCONNECT CONDUCTORS AT ATS AND PULL BACK TO FACILITATE REMOVAL AND REPLACEMENT OF EXISTING WIRE GUTTER AND CONDUIT TO ATS.
5. PUMP CONTROL LOS SWITCH. PROVIDE STRUT STANCHION FOR MOUNTING AT +48".
6. PROVIDE NEW TELEPHONE SERVICE CONDUIT RISER ON EXTERIOR WALL. EXTEND CONDUIT THRU WALL AT ROOF LINE APPROXIMATELY 8FT ABOVE GRADE. PROVIDE AN 8"x8" PULLBOX ON INTERIOR WALL AND EXTEND CONDUIT TO ALARM AUTODIALER PANEL. COORDINATE WITH WORK SHOWN ON DMC DRAWING C-05.



LOWER LEVEL POWER AND CONTROLS PLAN
SCALE: 3/8" = 1'-0"



CONTRACTOR SHALL NOTIFY BACKGROUND SERVICE ALERT A MINIMUM OF 48 HOURS PRIOR TO BEGINNING ANY CONSTRUCTION WORK. SEE GENERAL NOTES FOR FURTHER INFORMATION.

GERRY GREEN INC. Consulting Electrical Engineers
2734 Loder Ave West, Suite M, Carlsbad, CA 92010 Tel: (619) 961-2356



LOWER LEVEL POWER AND CONTROLS PLAN
SCALE: 3/8" = 1'-0"

09-04-25

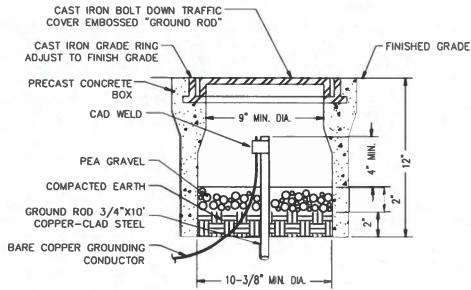
NO.	DATE	REVISIONS

DESIGN: GG	DATE: 4/08/25
DRAWN: AH	ENGINEER: [Signature] RCE 55604
CHECKED: GC	DISTRICT ENGINEER: [Signature] RCE 67027

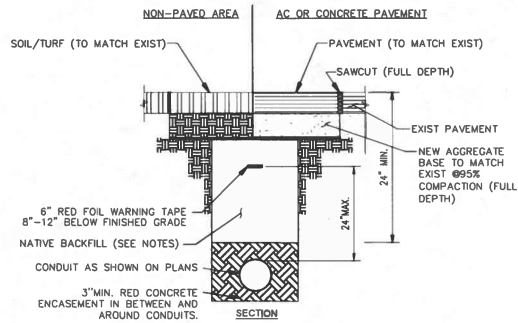
TRABUCO CANYON WATER DISTRICT
HERITAGE SEWER LIFT STATION IMPROVEMENTS PROJECT
PROJECT NO. FY24-104

POWER AND CONTROLS PLANS

E-08
SHEET 26 OF 33

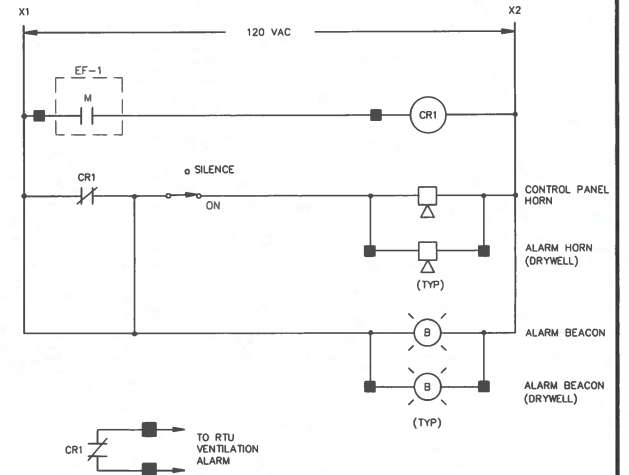


GROUND ROD AND BOX INSTALLATION (4)
NOT TO SCALE

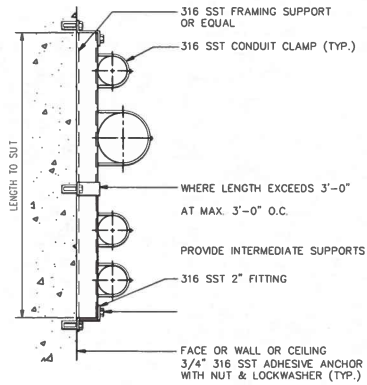


- NOTES:**
1. NATIVE BACKFILL TO BE COMPACTED TO 95% RELATIVE COMPACTION.
 2. SEE ELECTRICAL SHEETS FOR QUANTITY AND SIZE OF ELEC.CONDUIT.
 3. 3000 PSI CONCRETE ENCASEMENT.
 4. PROVIDE 6" SEPARATION BETWEEN POWER AND CONTROL (SCADA) CONDUITS.

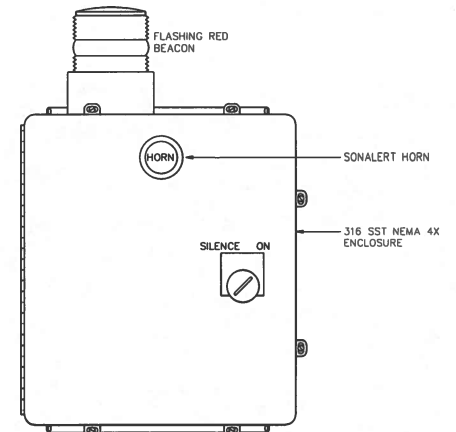
TYPICAL CONCRETE ENCASED CONDUIT (2)
NOT TO SCALE



PUMP STATION VENTILATION MONITORING CONTROL PANEL 'VM'



TYPICAL WALL MOUNTED CONDUIT (3)
NOT TO SCALE



VENTILATION MONITORING CP 'VM' (1)
NOT TO SCALE



CONTRACTOR SHALL NOTIFY UNDERGROUND SERVICE ALERT A MINIMUM OF 48 HOURS PRIOR TO BEGINNING ANY CONSTRUCTION WORK. SEE GENERAL NOTES FOR FURTHER INFORMATION.

GERRY GREEN INC. Consulting Electrical Engineers
2734 Soler Ave West, Suite M, Carlsbad, CA 92010 Tel: (619) 983-2256



09-04-25

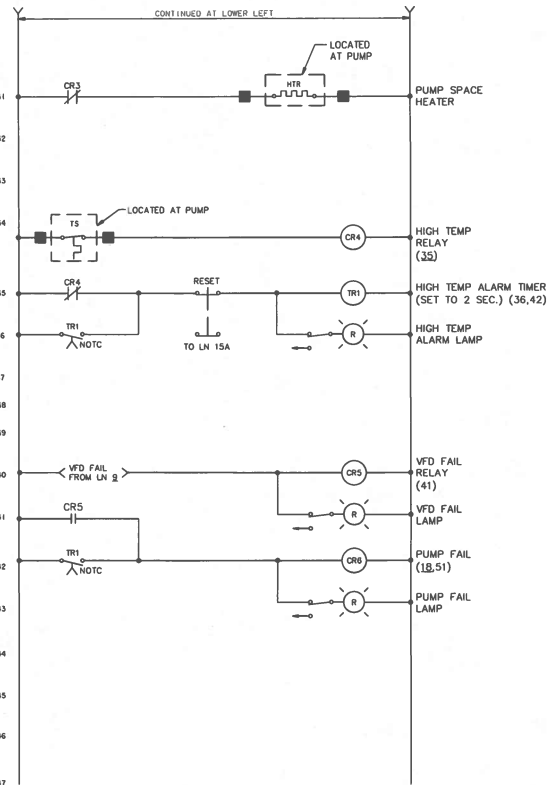
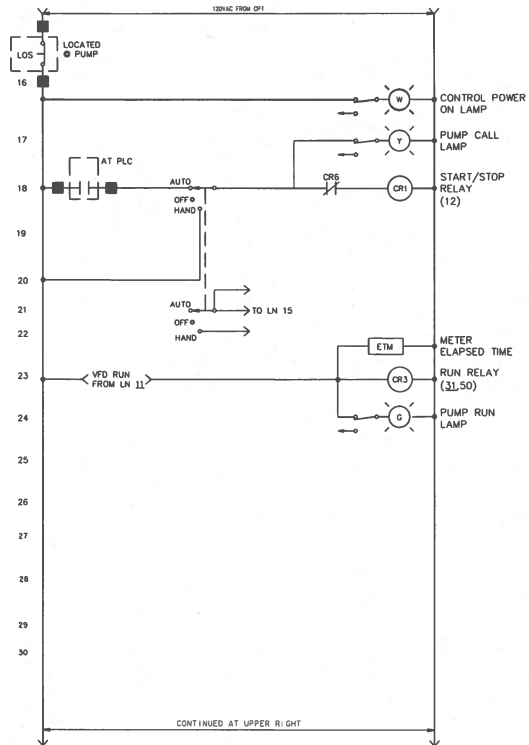
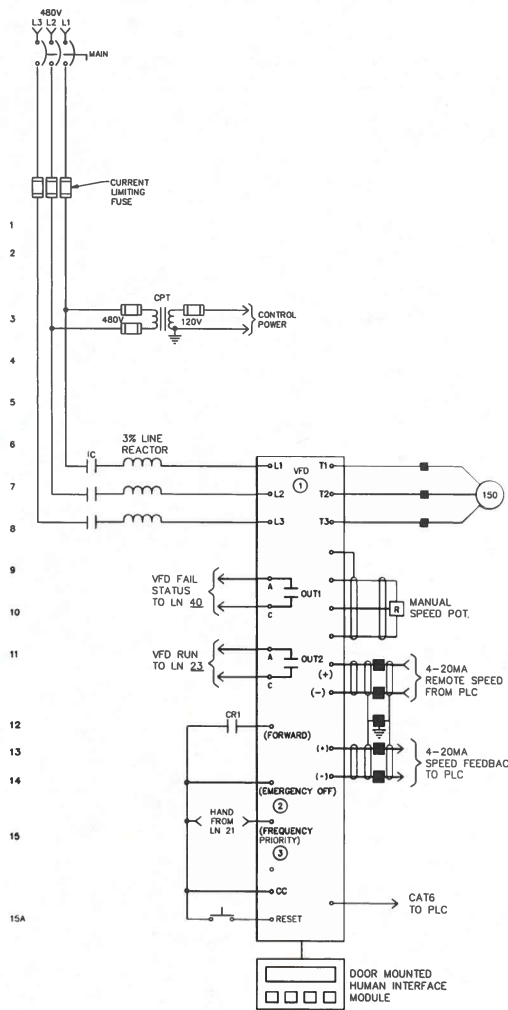
NO.	DATE	REVISIONS

DESIGN: GG	DATE: 4/08/25
DRAWN: AH	ENGINEER: GERRY GREEN RCE 55604
CHECKED: GG	DISTRICT ENGINEER: 4/08/25

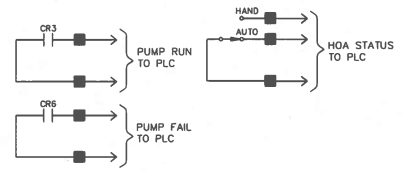
TRABUCO CANYON WATER DISTRICT
HERITAGE SEWER LIFT STATION IMPROVEMENTS PROJECT
PROJECT NO. FY24-104

DETAILS

E-09
SHEET 26 OF 33



- NOTES**
- CONTROL SHOWS LOGIC ONLY. ADD FAN POWER AND THERMOSTAT, AND TYP. MANUFACTURER VFD CONTROLS AS APPLICABLE.
 - CONFIGURE THE DRIVE TO RESTART AUTOMATICALLY ON INSTANTANEOUS POWER FAIL.
 - CONFIGURE THE DRIVE TO USE THE SPEED POT AS SPEED REFERENCE WHEN THE HOA SWITCH IS IN HAND. WHEN THE SWITCH IS IN AUTO THE DRIVE SHALL USE THE 4-20mA SPEED SIGNAL AS SPEED REFERENCE.



PUMP VFD CONTROL DIAGRAM

DIGALERT CALL TOLL FREE 811
 TWO WORKING DAYS BEFORE YOU DIG
 Underground Service Alert

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 2734 Sober Ave West, Suite M, Carlsbad, CA 92008 Tel: (619) 962-2356



NO.	DATE	REVISIONS

DESIGN: GG
 DRAWN: AH
 CHECKED: GG

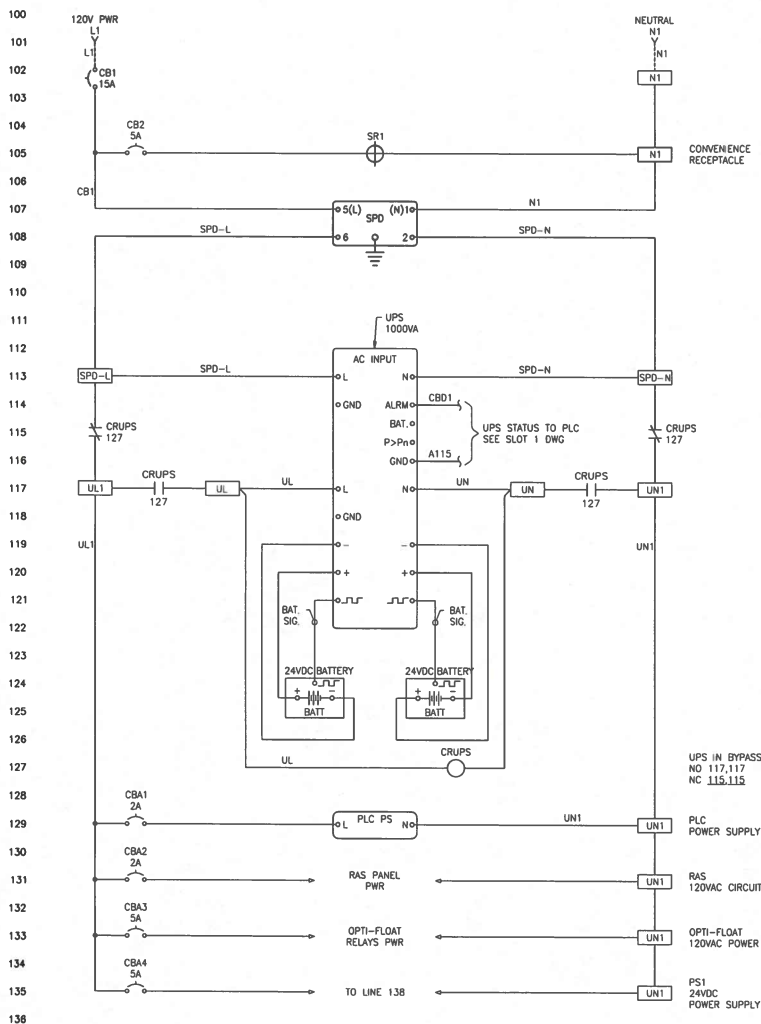


DATE: 4/06/25
 ENGINEER: RCE 55004
 DATE: 4/06/25
 DISTRICT ENGINEER: RCE 57027

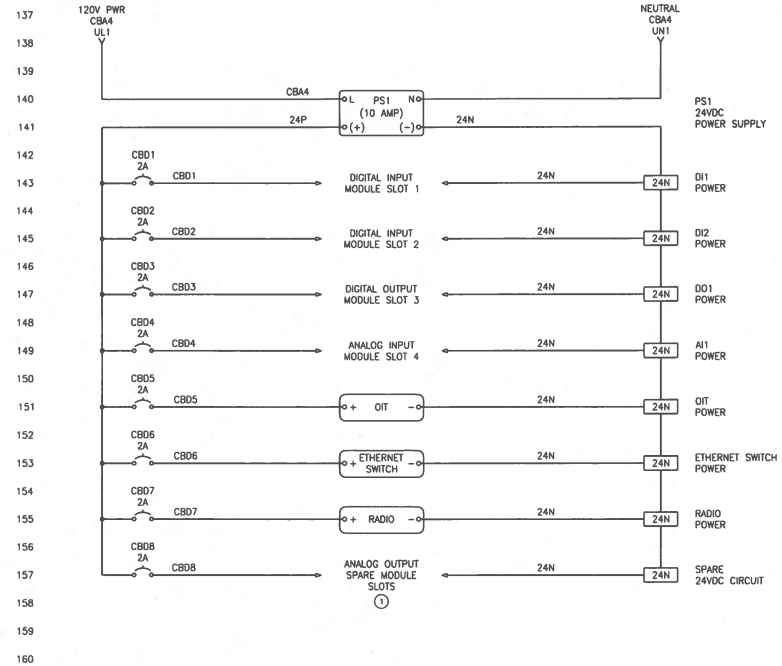
TRABUCO CANYON WATER DISTRICT
HERITAGE SEWER LIFT STATION IMPROVEMENTS PROJECT
PROJECT NO. FY24-104

PUMP VFD CONTROL DIAGRAM

E-10
 SHEET 27
 OF 33



120VAC POWER DISTRIBUTION



24VDC POWER DISTRIBUTION

- NOTES**
- ① ADD NEW ANALOG OUTPUT MODULE. USE EXISTING POWER CIRCUIT.

DIALER CALL TOLL FREE 811
 CONTRACTOR SHALL NOTIFY UNDERGROUND SERVICE ALERT A MINIMUM OF 48 HOURS PRIOR TO RECEIVING ANY CONSTRUCTION WORK. SEE GENERAL NOTES FOR FURTHER INFORMATION.
 TWO WORKING DAYS BEFORE YOU DIG

GERRY GREEN INC. Consulting Electrical Engineers
 2734 Laker Ave West, Suite M, Carlsbad, CA 92008 Tel: (760) 932-2336

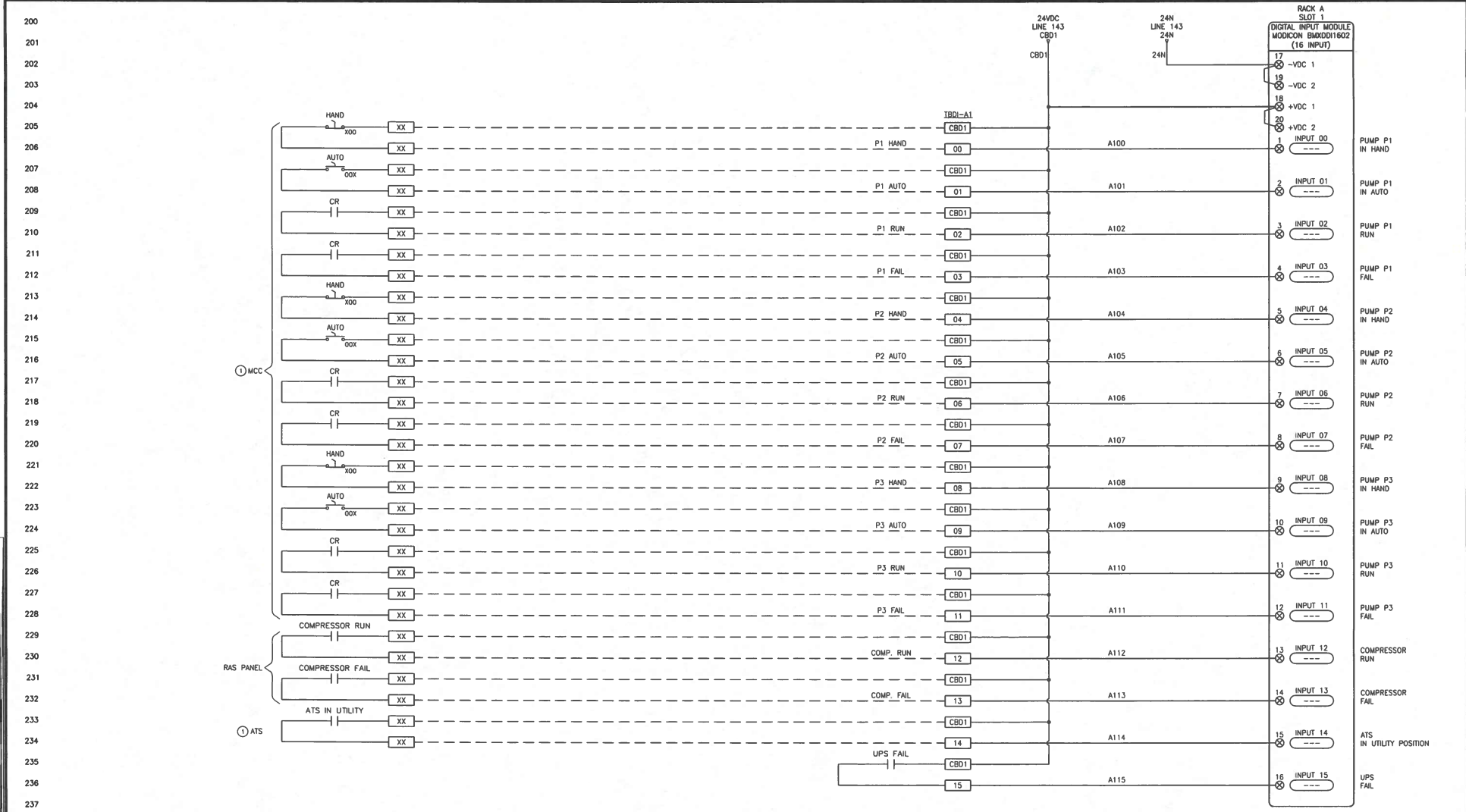


NO.	DATE	REVISIONS

DESIGN: GG DATE: 4/06/25
 DRAWN: AH
 CHECKED: GG
 TRABUCO CANYON WATER DISTRICT
 DISTRICT ENGINEER: 4/06/25

TRABUCO CANYON WATER DISTRICT
 HERITAGE SEWER LIFT STATION IMPROVEMENTS PROJECT
 PROJECT NO. FY24-104

(E) SCADA CONTROL PANEL
 POWER DISTRIBUTION



NOTES

- ① PROVIDE NEW I/O WIRING FROM PLC TO MCC USING SAME INPUTS AS PREVIOUS PUMPS AND ATS.



CONTRACTOR SHALL NOTIFY UNDERGROUND SERVICE ALERT A MINIMUM OF 48 HOURS BEFORE TO RECEIVING ANY CONSTRUCTION WORK. SEE GENERAL NOTES FOR FURTHER INFORMATION.

GERRY GREEN INC. Consulting Electrical Engineers
 2734 Colton Ave West, Suite M, Corcoran, CA 92009 Tel: (831) 962-2356



09-04-25

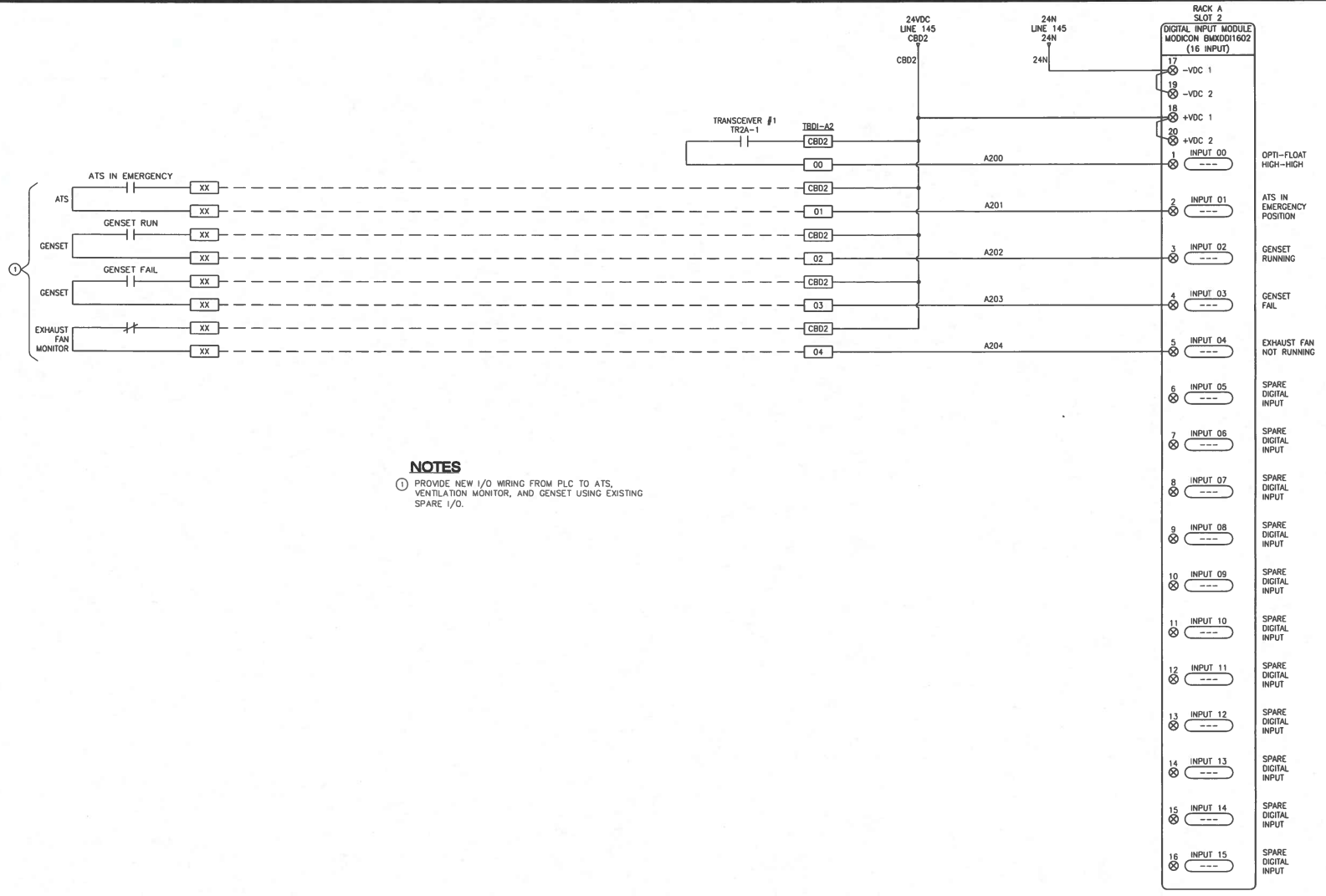
NO.	DATE	REVISIONS

DESIGN: GG	DATE: 4/06/25
DRAWN: AH	ENGINEER: [Signature]
CHECKED: GG	DISTRICT ENGINEER: [Signature]

TRABUCO CANYON WATER DISTRICT
 HERITAGE SEWER LIFT STATION IMPROVEMENTS PROJECT
 PROJECT NO. FY24-104

(E) SCADA CONTROL PANEL
 DIGITAL INPUT MODULE SLOT 1

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NOTES
 ① PROVIDE NEW I/O WIRING FROM PLC TO ATS, VENTILATION MONITOR, AND GENSET USING EXISTING SPARE I/O.



CONTRACTOR SHALL NOTIFY UNDERGROUND SERVICE ALERT A MINIMUM OF 48 HOURS PRIOR TO BEGINNING ANY CONSTRUCTION WORK. SEE GENERAL NOTES FOR FURTHER INFORMATION.

GERRY GREEN INC.
 Consulting Electrical Engineers
 2734 Laker Ave West, Suite M, Carlsbad, CA 92010 Tel: (619) 962-2856



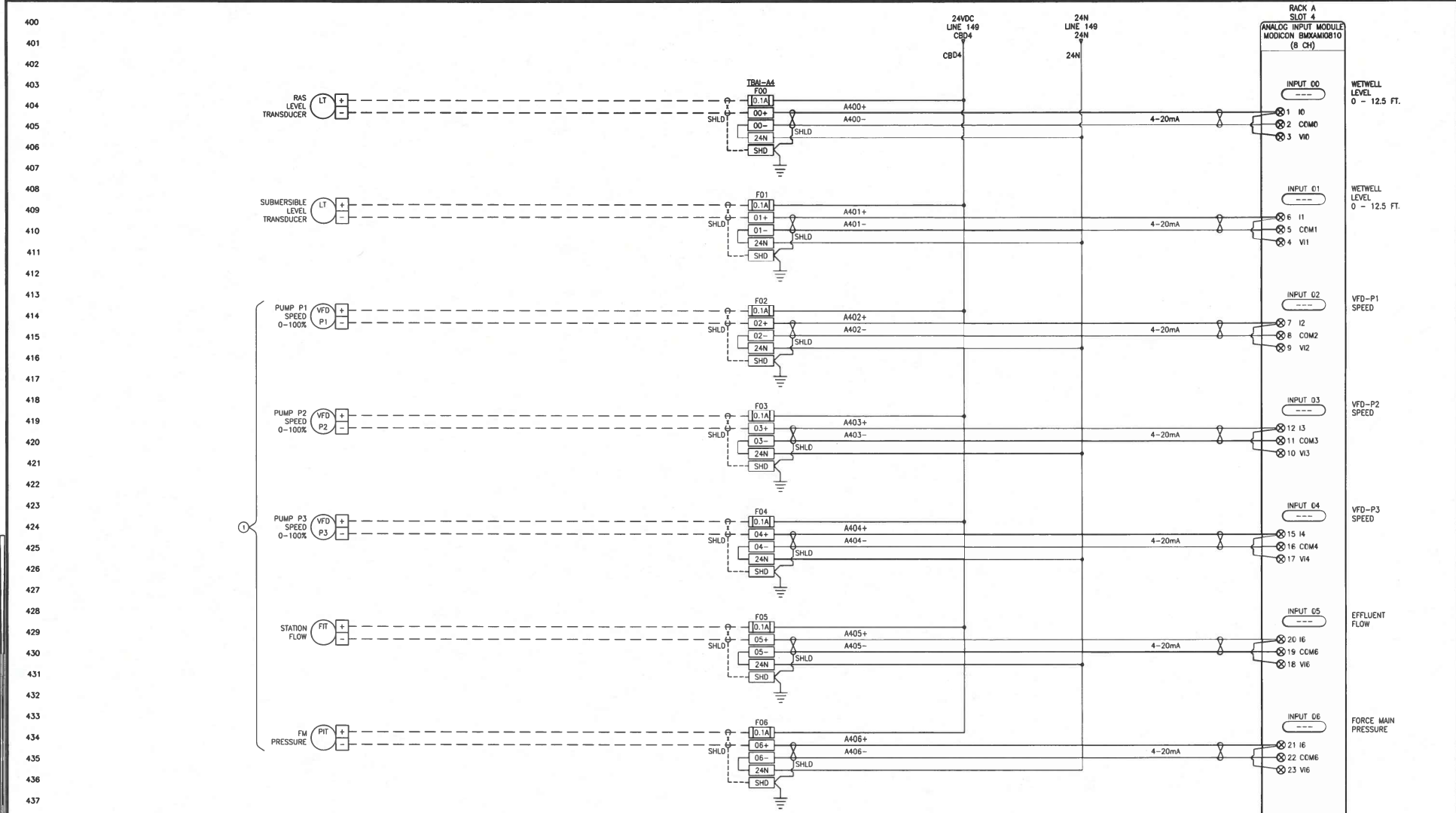
09-04-25

NO.	DATE	REVISIONS

DESIGN: GG	DATE: 9/06/25
DRAWN: AH	ENGINEER: ROBERT L. COFFINER REC 95604
CHECKED: GG	DISTRICT ENGINEER: [Signature] REC 67697

TRABUCO CANYON WATER DISTRICT
 HERITAGE SEWER LIFT STATION IMPROVEMENTS PROJECT
 PROJECT NO. FY24-104

(E) SCADA CONTROL PANEL
 DIGITAL INPUT MODULE SLOT 2



NOTES
 ① PROVIDE NEW I/O WIRING FROM PLC TO MCC AND FLOW METER VAULT USING EXISTING SPARE I/O.

LEGAL CALL TOLL FREE 811
 TWO WORKING DAYS BEFORE YOU DIG
 Underground Service Alert

GERRY GREEN INC. Consulting Electrical Engineers
 2734 Loker Ave West, Suite M, Carlsbad, CA 92010 Tel: (619) 963-3356



NO.	DATE	REVISIONS

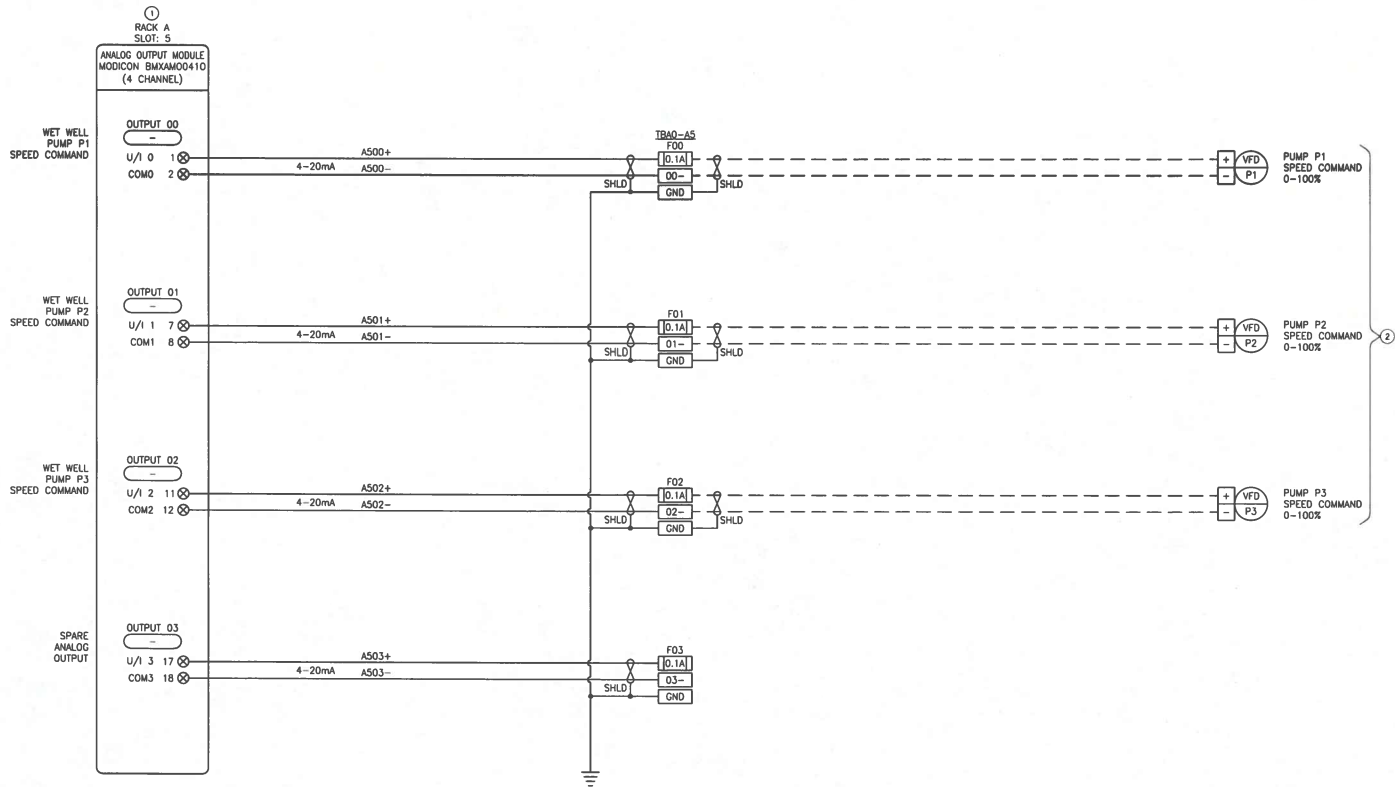
DESIGN: GG	DATE: 4/06/25
DRAWN: AH	ENGINEER: [Signature]
CHECKED: GG	DISTRICT ENGINEER: [Signature]

TRABUCO CANYON WATER DISTRICT
HERITAGE SEWER LIFT STATION IMPROVEMENTS PROJECT
PROJECT NO. FY24-104

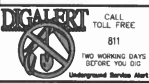
(E) SCADA CONTROL PANEL
ANALOG INPUT MODULE SLOT 4

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 SHEET 32
 OF 33

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- NOTES**
- ① PROVIDE NEW ANALOG OUTPUT MODULE AND TERMINAL BLOCKS FOR NEW I/O.
 - ② PROVIDE NEW I/O WIRING FROM PLC TO MCC USING NEW I/O.



CONTRACTOR SHALL NOTIFY UNDERGROUND SERVICE ALERT A MINIMUM OF 48 HOURS PRIOR TO BEGINNING ANY CONSTRUCTION WORK. SEE GENERAL NOTES FOR FURTHER INFORMATION.

GERRY GREEN INC. Consulting Electrical Engineers
2734 Lohrer Ave West, Suite M, Carlsbad, CA 92010 Tel: (760) 892-2336



09-04-25

NO.	DATE	REVISIONS

DESIGN: GG
DRAWN: AH
CHECKED: GG



DATE: 4/06/25
ENGINEER: RCE 55604
DATE: 4/06/25
DISTRICT ENGINEER: RCE 67627

TRABUCO CANYON WATER DISTRICT
HERITAGE SEWER LIFT STATION IMPROVEMENTS PROJECT
PROJECT NO. FY24-104

(E) SCADA CONTROL PANEL
ANALOG OUTPUT MODULE SLOT 5

E-16
SHEET 33 OF 33

HERITAGE SEWER LIFT STATION IMPROVEMENTS PROJECT

Bid Opening Date: November 3, 2025 @ 2:00 p.m.

#1		#2	
Ferreira Construction		Pacific Hydrotech Corp.	
Brandon Pensick		Joselito Guintu	
bpensick@ferreiraconstruction.com		erivero@pachydro.com	
10370 Commerce Center Dr. #B200		314 E 3rd Street	
Rancho Cucamonga, CA 91730		Perris, CA 92570	
(909) 606-5900		(951)-943-8803	
License #	985180	License #	518335

Item	Description	Quantity	Unit	Engineer's Unit Price	Engineer's Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost
1	Mobilization / Demobilization	1	LS	\$159,200.00	\$159,200.00	\$100,000.00	\$100,000.00	\$120,500.00	\$120,500.00
2	Survey Staking and Verification of Utility Locations, Field Dimensions, and Existing Electrical Work	1	LS	\$119,700.00	\$19,700.00	\$22,000.00	\$22,000.00	\$23,100.00	\$23,100.00
3	BMP Implementation and Erosion Plan	1	LS	\$22,500.00	\$22,500.00	\$1,400.00	\$1,400.00	\$12,000.00	\$12,000.00
4	Excavation Safety Measures	1	LS	\$64,000.00	\$64,000.00	\$18,000.00	\$18,000.00	\$24,300.00	\$24,300.00
5	Clearing, Grubbing and Misc Site Demo	1	LS	\$92,400.00	\$92,400.00	\$254,000.00	\$254,000.00	\$102,700.00	\$102,700.00
6	Precast Concrete Bypass Wetwell	1	LS	\$181,800.00	\$181,800.00	\$103,700.00	\$103,700.00	\$306,900.00	\$306,900.00
7	Diversion Manhole	1	LS	\$26,000.00	\$26,000.00	\$21,300.00	\$21,300.00	\$63,600.00	\$63,600.00
8	Remove and Replace Ex 8-inch Sewer Main	1	LS	\$66,000.00	\$66,000.00	\$64,300.00	\$64,300.00	\$100,900.00	\$100,900.00
9	Design/Construct Temporary Sewer Bypass	1	LS	\$90,800.00	\$90,800.00	\$177,000.00	\$177,000.00	\$166,400.00	\$166,400.00
10	Miscellaneous Structural, Mechanical and Electrical Demo	1	LS	\$74,200.00	\$74,200.00	\$48,500.00	\$48,500.00	\$94,900.00	\$94,900.00
11	Miscellaneous Structural Improvements	1	LS	\$30,000.00	\$30,000.00	\$35,600.00	\$35,600.00	\$47,300.00	\$47,300.00
12	Mechanical Improvements in Dry Pit and Control Room	1	LS	\$182,000.00	\$182,000.00	\$122,000.00	\$122,000.00	\$246,900.00	\$246,900.00
13	Flow Meter Vault and Misc. Underground Piping	1	LS	\$200,200.00	\$200,200.00	\$155,500.00	\$155,500.00	\$209,700.00	\$209,700.00
14	Miscellaneous Electrical and Instrumentation Improvements	1	LS	\$378,300.00	\$378,300.00	\$357,700.00	\$357,700.00	\$482,200.00	\$482,200.00
15	Miscellaneous Civil/Site Improvements	1	LS	\$121,000.00	\$121,000.00	\$147,740.00	\$147,740.00	\$134,400.00	\$134,400.00
16	Asphalt Concrete Pavements Restoration	6,900	SF	\$14.00	\$96,600.00	\$11.17	\$77,073.00	\$10.00	\$69,000.00
17	Reinforced Concrete Masonry Unit Perimeter Wall	1	LS	\$143,900.00	\$143,900.00	\$211,000.00	\$211,000.00	\$198,500.00	\$198,500.00
18	Testing, Record Documents, O&M Manuals, Warranties & Training	1	LS	\$47,500.00	\$47,500.00	\$12,000.00	\$12,000.00	\$8,200.00	\$8,200.00
19	Allowance for Field Orders	1	Allowance	\$50,000.00	\$50,000.00	\$50,000.00	\$50,000.00	\$50,000.00	\$50,000.00
20	Temporary Power to Access Gate Operator	1	LS	\$5,000.00	\$5,000.00	\$6,000.00	\$6,000.00	\$5,300.00	\$5,300.00
TOTAL (1 - 20) :					\$2,051,100.00		\$1,984,813.00		\$2,466,800.00
ALTERNATIVE BID ITEM									
17A	Chain Link Perimeter Fence & Reinforced Concrete Masonary Wall	1	LS	\$49,500.00	\$49,500.00	\$26,000.00	\$26,000.00	\$88,800.00	\$88,800.00
TOTAL (1-16, 17A, 18-20) :					\$1,956,700.00		\$1,799,813.00		\$2,357,100.00

**TRABUCO CANYON WATER DISTRICT
REGULAR BOARD MEETING | NOVEMBER 19, 2025**

ACTION CALENDAR

ENGINEERING MATTERS

ITEM 12: DIMENSION WATER TREATMENT PLANT TRANSMISSION MAIN PIPELINE REHABILITATION PROJECT UPDATE

Trabuco Canyon Water District (TCWD or District) awarded two construction contracts in June 2025 for the first phase of the Dimension Water Treatment Plant (DWTP) transmission main rehabilitation project. In conjunction with structural work on Filter No. 4 within DWTP (completed October 9, 2025), the project will restore operations for the District's most reliable and cost-effective drinking water supply source.

Attached is the October monthly construction report from Butier (Exhibit 1). Construction for phase 1A has been completed. Phase 1B began with potholing/miscellaneous field work on October 13, 2025, pending the permit from the City of Mission Viejo (City) which was issued on November 4, 2025. Additional surveying and Environmental work were required by the City. The construction schedule will be updated for the month of December, reflecting the delay due to permitting.

FUNDING SOURCE:

Capital Improvement Program

FISCAL IMPACT (FY25/26):

\$7,000,000

COMMITTEE STATUS:

This matter was reviewed with the Engineering/Operational Committee.

RECOMMENDED ACTION(S):

Receive information at the time of the meeting. No action required at this time.

EXHIBITS:

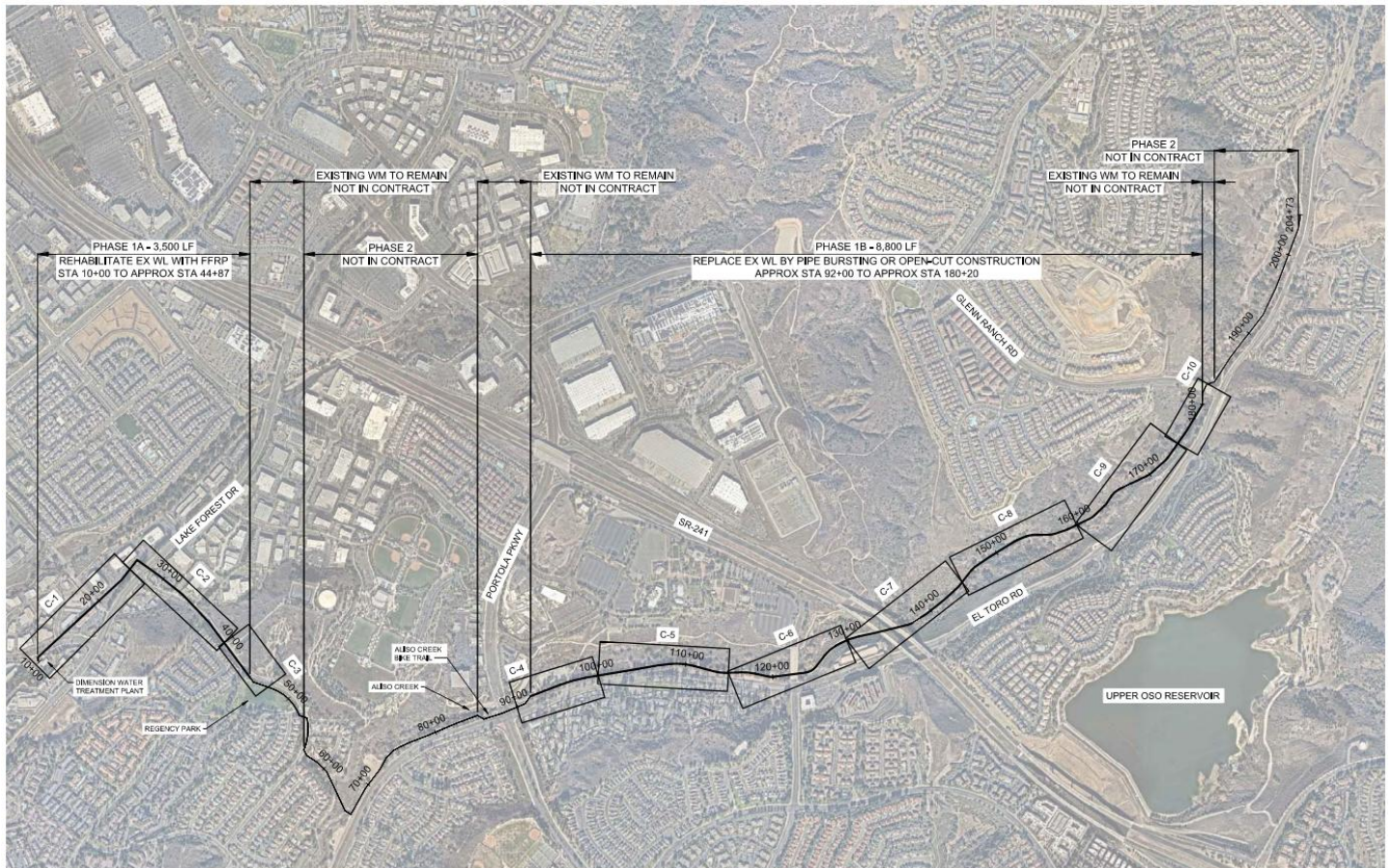
1. DWTP Pipeline Monthly Construction Report

CONTACTS (staff responsible): PALUDI/LAUSTEN



Phase 1A/1B - DWTP Transmission Main Rehabilitation and Replacement Project

Construction Report October 2025



I. GENERAL PROJECT INFORMATION

Contractor

TE Roberts, Inc.

Contract Time

Original Calendar Days:	153 Days
Notice to Proceed:	June 23, 2025
Material Delivery:	August 5, 2025
Original Contract Completion Date:	Jan 5, 2026

Contract Price

Phase 1A Original Contract Amount:	\$1,793,012.00
Phase 1B Original Contract Amount:	\$3,721,445.00
Total Original Contract Amount:	\$5,514,457.00
Approved Change Order [Unexecuted]: Creek Crossing #1 [Phase 1B]	\$186,500.00
Approved Change Order [Unexecuted]: Creek Crossing #2 [Phase 1B]	\$186,500.00
Credit Contract Line Item 09 [Unexecuted] [Phase 1B]	-\$126,200.00
Total Change Order Amount:	\$246,800.00
Revised Contract Amount [Phase 1A and Phase 1B]:	\$5,761,257.00

II. CONSTRUCTION MANAGER SUMMARY

This report provides a summary of activities for the month of October 2025 for the DWTP Phase 1A/1B Transmission Main Rehabilitation and Replacement Project.

At the start of October 2025, TE Roberts continued major construction operations across the three primary pit locations — Pit #1 (Dimension Water Treatment Plant), Pit #2 (Regency Avenue at Lake Forest), and Pit #3 (Osterman area); focusing on hard piping connections, pressure testing, and final tie-ins between the Primus-lined pipeline and existing facilities.

At Pit #1, crews completed excavation between the valve vault and main trench. TE Roberts completed hard pipe connections including fabricated welded connections, new valves and a “T”-fitting within the treatment plant. TE Roberts filled and pressurized the transmission main to 340 PSI for hydrostatic pressure testing and coordinated with Sierra Analytical for disinfection and Bac-T sampling of the newly lined section between Pits #1 and #3.

At Pit #2, hard piping installation advanced with welding and concrete operations. Crews installed a 16-inch CMLC 90-degree bend, a valve, and flanged connections. A concrete thrust block was placed to stabilize fittings. These efforts were supported by welding operations led by TE Roberts certified welder, ensuring structural continuity between the Primus liner and the existing 24-inch main. Backfill, asphalt and curb restoration was completed.

At Pit #3, work transitioned to final mechanical tie-ins. Crews completed welding of a 24" × 16" reducer and 22-degree fittings and finalized sack-and-patch work on all joints. By month-end, TE Roberts completed the connection from the Primus lined section to the existing 24-inch pipeline and installed a 16-inch butterfly valve against the lined fitting. Backfill and asphalt restoration was completed.

Daily traffic control measures were maintained throughout Regency Avenue per the Watch Manual, with oversight and drive-by inspections by City of Lake Forest Inspector Matt Reagan. Testing and disinfection documentation were coordinated with TCWD staff.

Overall, the work performed in October marked a transition from liner installation and testing to final mechanical assembly and valve integration. With the successful completion of pressure testing, disinfection, and mechanical tie-ins, the project reached substantial progress toward restoring full operational integrity of the transmission main.

III. ANTICIPATED CONSTRUCTION ACTIVITIES – NEXT REPORTING PERIOD

With initial Phase 1B exploration and preparatory work now underway, upcoming efforts will advance toward full mobilization and pipe rehabilitation operations. TE Roberts is anticipated to continue potholing and site verification along the Phase 1B alignment, focusing on confirmed station points.

Following completion of field verification and valve removals, crews will begin preparing for pipe bursting activities. Morrow Technologies, the pipe-bursting subcontractor, is scheduled to mobilize for staging and setup of bursting equipment. Concurrently, TE Roberts will continue CCTV investigations and internal pipe inspections in coordination with Morr-Is Technologies to document existing line conditions and verify suitability for rehabilitation.

Once inspection results are reviewed, excavation and shoring of the initial Phase 1B pulling pits will proceed to support the installation and bursting operations. Traffic control measures will be updated in coordination with County and City inspectors, and all safety signage requirements—including 5 mph advisory zones—will be maintained.

IV. CHANGE ORDERS

The approved amount of change orders to date is \$246,800.00; and Contract Completion Date remains on January 5, 2026 due to delay in permitting and miscellaneous procurement items.

V. SCHEDULE

See Appendix A.

VI. PHOTOS

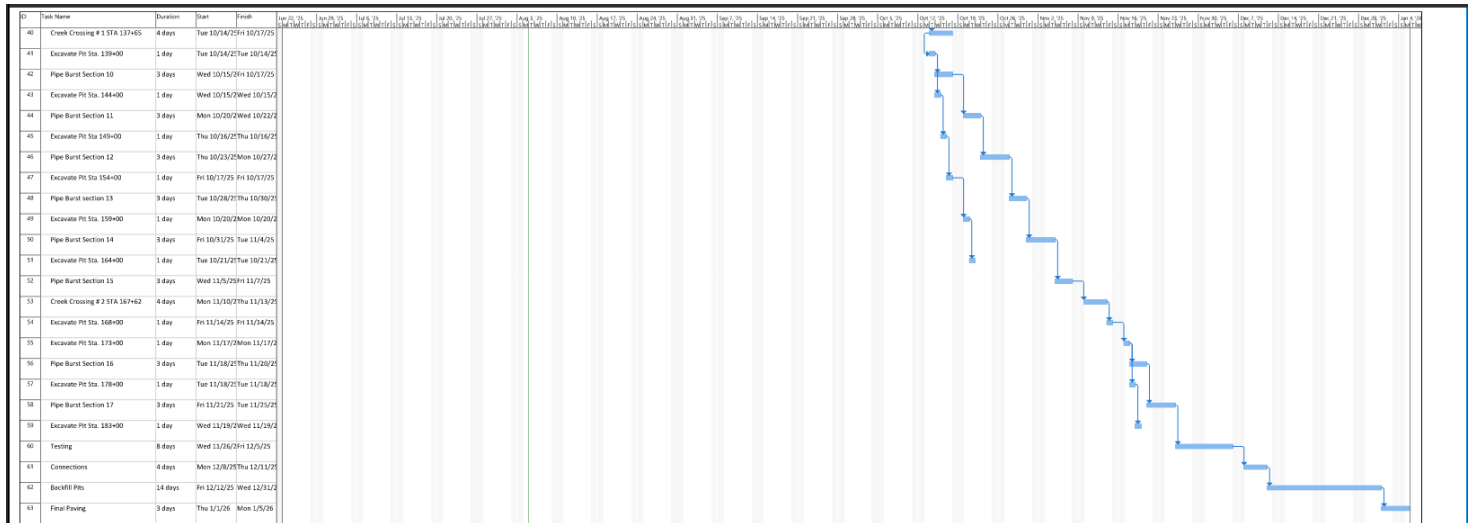
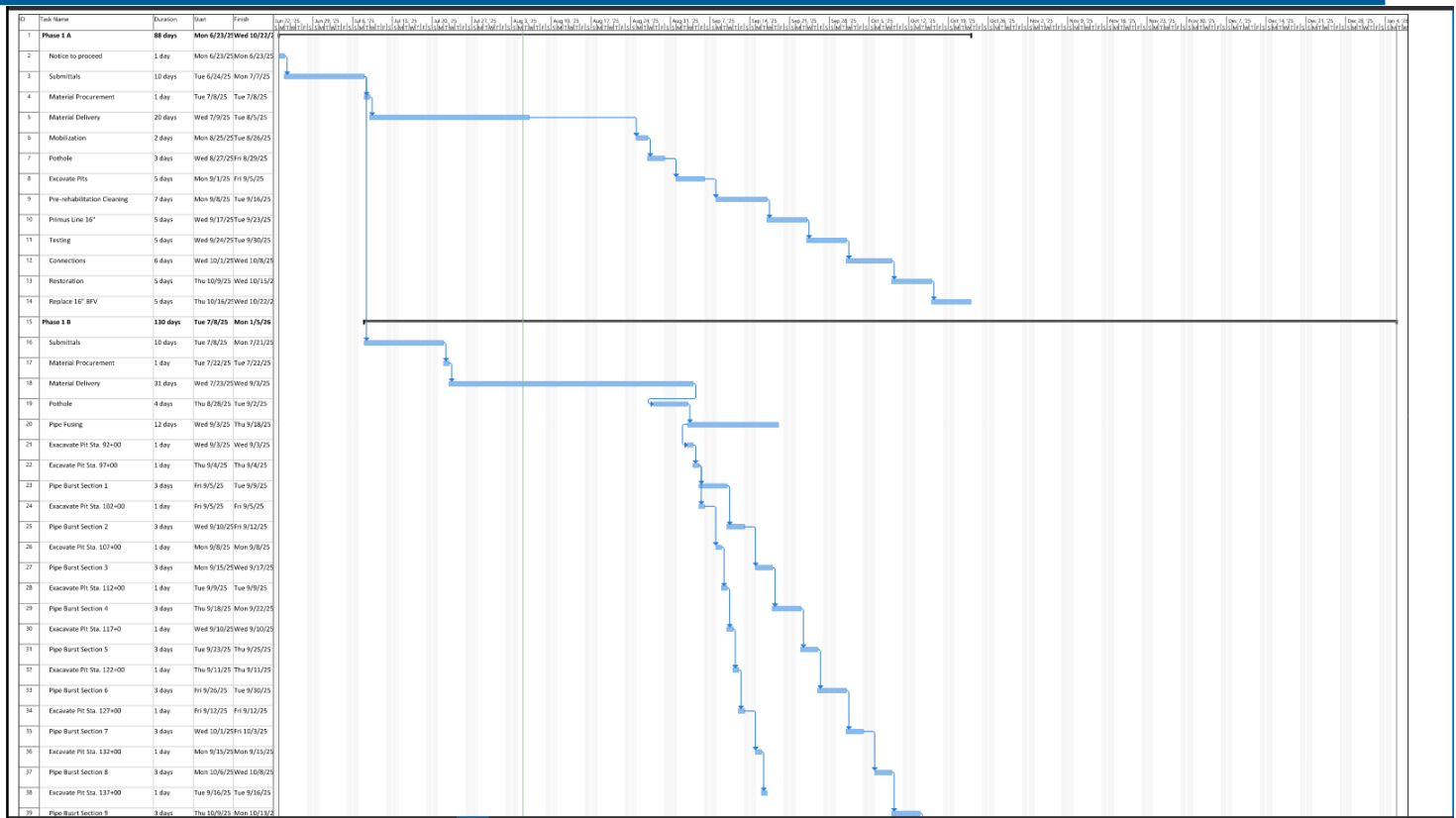
Construction photos documenting TE Roberts' activities and progress during this reporting period are provided in Appendix B.

APPENDIX A

Schedule

Phase 1A/1B - DWTP Transmission Main Rehabilitation and Replacement Project

**Construction Report
October 2025**



APPENDIX B

Construction Photos



INSTALLED 24" X 16" REDUCER AT PIT #3



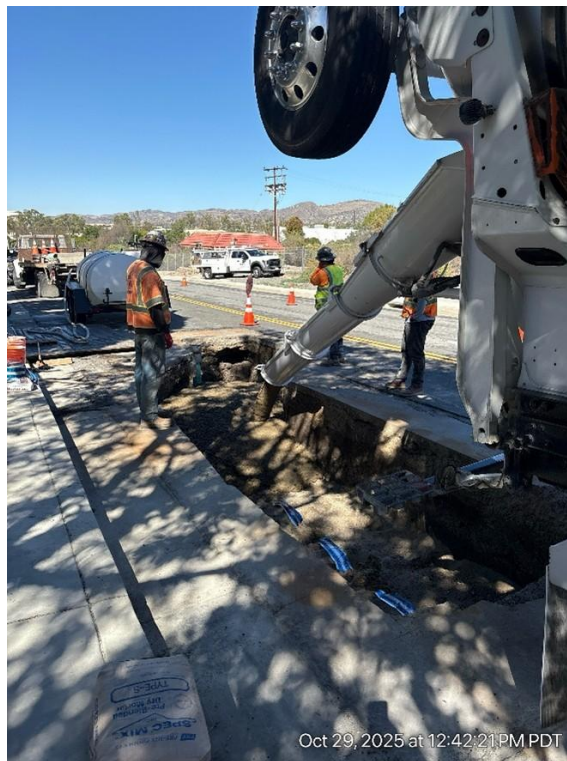
PIPING INSTALLATION FROM THE EXISTING VALVE VAULT TO PIT #1



HARD-PIPING INSTALLATION IN PIT #3



VALVE INSTALLATION IN PIT #3



SLURRY BACKFILL AT PIT #3



PIPING INSTALLATION FROM THE PIPE VAULT TO PIT #1



PIPING INSTALLATION IN PIT #3



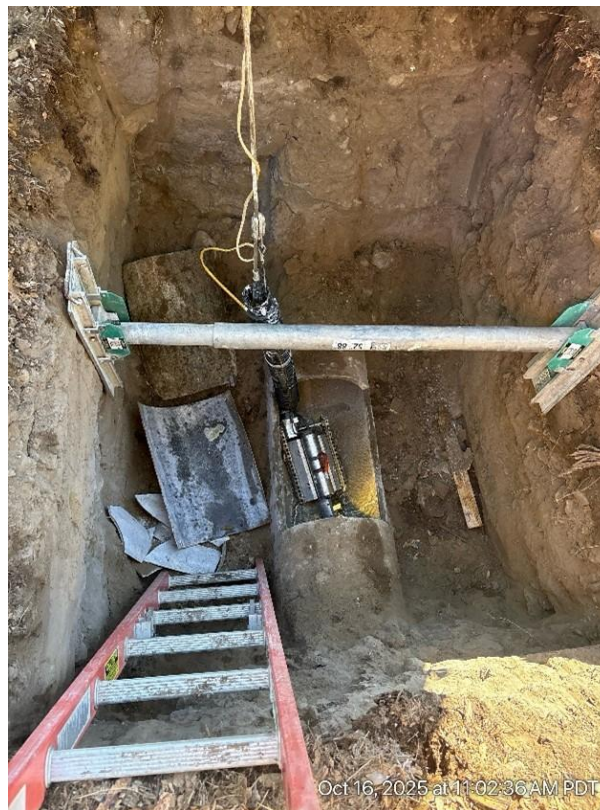
PIPE-ZONE SAND BACKFILL WITH WARNING TAPE



FIT UP OF VALVES TO THE T-FITTING FOR PIT #1



PRESSURE TESTING BETWEEN PIT #1 TO PIT #3



PHASE 1B CCTV CAMERA INVESTIGATION



PHASE 1B POTHOLING



PHASE 1B POTHOLING

**TRABUCO CANYON WATER DISTRICT
REGULAR BOARD MEETING | NOVEMBER 19, 2025**

ACTION CALENDAR

LEGISLATIVE AND OTHER MATTERS

ITEM 13: LOCAL GOVERNMENTAL AND LEGISLATIVE INFORMATIONAL MATTER(S)

Staff may provide information at the time of the meeting.

RECOMMENDED ACTION:

Receive information at the time of the meeting and take action(s) as deemed appropriate.

CONTACTS (staff responsible): PALUDI/COLLINS

**TRABUCO CANYON WATER DISTRICT
REGULAR BOARD MEETING | NOVEMBER 19, 2025**

**ACTION CALENDAR
LEGISLATIVE AND OTHER MATTERS
ITEM 14: REPORT OF ACTION(S) TAKEN IN CLOSED SESSION**

RECOMMENDED ACTION:

Provide announcement of action(s) taken in Closed Session, if any.

CONTACTS (staff responsible): PALUDI/COLLINS

**TRABUCO CANYON WATER DISTRICT
REGULAR BOARD MEETING | NOVEMBER 19, 2025**

**ACTION CALENDAR
LEGISLATIVE AND OTHER MATTERS
ITEM 15: APPOINTMENT OF INTERIM GENERAL MANAGER**

RECOMMENDED ACTION:

Announce the proposed terms of employment and appoint Michael Perea as Interim General Manager.

CONTACTS (staff responsible): PALUDI/COLLINS