



**REGULAR BOARD MEETING AGENDA
TRABUCO CANYON WATER DISTRICT
32003 DOVE CANYON DRIVE, TRABUCO CANYON, CALIFORNIA
ADMINISTRATIVE FACILITY, BOARD ROOM
JANUARY 20, 2022 AT 7:00 PM**

BOARD OF DIRECTORS

Don Chadd, President
Stephen Dopudja, Vice President
Glenn Acosta, Director
Edward Mandich, Director
Michael Safranski, Director

DISTRICT STAFF

Fernando Paludi, General Manager
Michael Perea, District Secretary
Cindy Byerrum, 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:** 913-8681-1652

*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 6:00 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 make 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 take action 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. December 16, 2021 Regular 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. December 8, 2021

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. November 2021

c. PAYMENT OF BILLS FOR CONSIDERATION

RECOMMENDED ACTION:

Ratify the payment of bills for consideration, Payroll and Payroll Taxes for December 2021.

ITEM 3: EXECUTIVE COMMITTEE MEETING

RECOMMENDED ACTION:

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

1. December 7, 2021

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

RECOMMENDED ACTION:

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

1. December 2021



**TRABUCO CANYON WATER DISTRICT
REGULAR BOARD MEETING AGENDA | JANUARY 20, 2022**

ITEM 5: DISCUSSION AND APPROVAL OF ADMINISTRATIVE FACILITY BOARD ROOM USE APPLICATION AND PERMIT

RECOMMENDED ACTION(S):

Approve the proposed District Board Room Use Application and Permit as revised and rescind the Facility Use Policy adopted on February 21, 2007.

ENGINEERING MATTERS

ITEM 6: DISCUSSION AND POSSIBLE ACTION(S) CONCERNING ORANGE COUNTY RESCUE MISSION DOMESTIC WATER SERVICE RELOCATION

RECOMMENDED ACTION:

Award a Construction Contract to GCI Construction for the Orange County Rescue Mission Domestic Water Service Relocation in the amount of \$106,078, with a contingency of \$10,000, for a not to exceed amount of \$116,078.

ITEM 7: APPROVAL OF SUB-AREA MASTER PLAN FOR SADDLEBACK MEADOWS DEVELOPMENT (181 DU'S)

RECOMMENDED ACTION:

Receive and approve the Sub Area Master Plan (SAMP) for the Saddleback Meadows Development prepared by Psomas.

ITEM 8: DISCUSSION AND APPROVAL OF PRESSURE VESSEL INSPECTION & RE-RATING FOR EMERGENCY USE

RECOMMENDED ACTION:

Award a Contract to DB Sales & Service for the Bell Canyon Lift Station Pressure Vessel Re-Rate in the amount of \$23,627.50.

LEGISLATIVE AND OTHER MATTERS

ITEM 9: DROUGHT AND WATER SUPPLY UPDATE

RECOMMENDED ACTION(S):

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

ITEM 10: 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.

ITEMS RECEIVED TOO LATE TO BE AGENDIZED

ITEM 11: _____

ITEM 12: _____



**TRABUCO CANYON WATER DISTRICT
REGULAR BOARD MEETING AGENDA | JANUARY 20, 2022**

GENERAL COUNSEL REPORT

Reports or comments from the District's General Counsel

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:

February 17, 2022 | March 17, 2022 | April 21, 2022



**TRABUCO CANYON WATER DISTRICT
REGULAR BOARD MEETING | JANUARY 20, 2022**

CONSENT CALENDAR

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

RECOMMENDED ACTION

Approve the minutes of the following Board Meetings:

- 1. December 16, 2021 Regular Board Meeting*

CONTACTS (staff responsible): PALUDI/PEREA/SANGI



MINUTES OF THE REGULAR BOARD MEETING OF THE BOARD OF DIRECTORS OF TRABUCO CANYON WATER DISTRICT | DECEMBER 16, 2021

The Regular Meeting of the Board of Directors of the Trabuco Canyon Water District (TCWD or District) conducted on December 16, 2021 was called to order by President Chadd at 7:00 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 Don Chadd
Vice President Stephen Dopudja
Director Michael Safranski
Director Edward Mandich

DIRECTORS ABSENT

Director Glenn Acosta

STAFF PRESENT

Fernando Paludi, General Manager
Michael Perea, Assistant General Manager
Karen Warner, Principal Accountant
Lorrie Lausten, District Engineer
Lisa Marie Sangi, Executive Assistant/Assistant District Secretary

DISTRICT CONSULTANTS PRESENT

Claire Collins, General Legal Counsel – Hanson Bridgett LLP
Ian Berg, Eide Bailly LLP

PUBLIC PRESENT ON THE CONFERENCE CALL

None

PLEDGE OF ALLEGIANCE

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

ITEMS TOO LATE TO BE AGENDIZED

None

VISITOR PARTICIPATION & ORAL COMMUNICATION VIA CONFERENCE CALL

None

DIRECTOR'S COMMENTS

Director Safranski reported on his attendance at the Association of California Water Agencies (ACWA) Fall Conference

Director Mandich reported on his attendance at the South Orange County Integrated Regional Watershed Management Area (IRWM) Executive Committee Meeting, and he mentioned that the group will meet monthly

**TRABUCO CANYON WATER DISTRICT
REGULAR BOARD OF DIRECTORS MEETING MINUTES | DECEMBER 16, 2021**

for the foreseeable future. Director Mandich reported on his attendance at the Community Associations of Rancho (CAR) meeting.

Director Dopudja reported on his attendance at the ACWA Fall Conference.

REPORT FROM THE GENERAL MANAGER

Mr. Paludi reported on the following matters:

- Southern California Water Coalition (SCWC) Quarterly Lunch is scheduled for January 21, 2022, and he mentioned that TCWD will share a table with South Coast Water District (SCWD).
- Extended holiday wishes to the Board of Directors and District staff.
- Expressed gratitude to District Wastewater Operations and Maintenance staff for their work at the Golf Club Lift Station, and he provided a brief overview of the critical work.
- Dove Canyon Plaza experienced an emergency domestic water fire service pipeline break, and District staff responded to isolate the break and contacted the Orange County Fire Authority (OCFA) and the Center Property Manager for the repairs.

Mr. Perea provided the following District staff update:

- Mr. Garret Rias successfully passed the State Water Resources Control Board (SWRCB) Wastewater Treatment Operator Grade I Certification exam.
- Mr. Oscar Ulloa is scheduled to take SWRCB Wastewater Treatment Operator Grade V Certification exam the following week.
- Mr. Thinkh Nguyen will be retiring in early January 2022 after 20 years of service and that District staff plans to honor his service to the District at a lunch the following week. Mr. Perea extended an invitation to the Board to attend this event.

PRESENTATION TO THE BOARD OF DIRECTORS FROM THE ORANGE COUNTY LOCAL AGENCY FORMATION COMMISSION (OCLAFCO) SPECIAL DISTRICT COMMISSIONERS

Commissioners Doug Davert and James Fidler delivered brief comments on the OCLAFCO planned Municipal Services Review (MSR), and they highlighted the Commission's goal of improved communication with agencies throughout the County.

CONSENT CALENDAR

President Chadd indicated that all matters under the Consent Calendar would be approved by one motion unless a Board member or staff member requests a separate action on a specific item.

Action: A motion was made by Director Dopudja and seconded by Director Mandich to approve the Consent Calendar.
The motion was approved by a vote of 4 – 0 – 1 with Director Acosta absent.

ACTION CALENDAR

ADMINISTRATIVE MATTERS

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

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

**TRABUCO CANYON WATER DISTRICT
REGULAR BOARD OF DIRECTORS MEETING MINUTES | DECEMBER 16, 2021**

Action: A motion was made by Director Mandich and seconded by Director Dopudja to approve of the Directors' Fees and Expenses Report as presented.
The motion was approved by a vote of 4 – 0 – 1 with Director Acosta absent.

ITEM 6: DISCUSSION ELECTION OF BOARD OFFICERS

Pursuant to the District's rules and regulations, Mr. Paludi took control of the gavel during the nominations and voting for President of the Board of Directors. Mr. Paludi requested nominations for the position of President of the TCWD Board of Directors.

Actions: Motion made by Director Dopudja and seconded by Director Mandich to elect Director Don Chadd as President of the Board of Directors of TCWD. Following the motion Mr. Paludi requested any other nominations. There were no further nominations and the motion was approved by a vote of 4 – 0 – 1 with Director Acosta absent.

Motion made by Director Mandich and seconded by Director Chadd to elect Director Stephen Dopudja as Vice President of the Board of Directors of TCWD. There were no further nominations and the motion was approved by a vote of 4 – 0 – 1 with Director Acosta absent.

Following election of the President and Vice President of the Board, Director Chadd assumed the gavel and took over as chair of the remaining portion of the Regular Board Meeting of December 16, 2021.

ITEM 7: DISCUSSION AND POSSIBLE ACTION(S) CONCERNING CALENDAR YEAR 2022 BOARD MEMBER COMMITTEE APPOINTMENTS AND AGENCY REPRESENTATIVE ASSIGNMENTS

Mr. Paludi provided the Board Members with the current listing of Board Member Committee Appointments and Agency Representative Assignments. Discussion occurred concerning Board Member preferences for various Committee appointments and assignments, but no further action was taken.

Action: Following Board discussion, President Chadd provided direction for the Committee Appointments and other agency representative assignments. There was no other action taken.

ITEM 8: PUBLIC HEARINGS ON THE ADOPTION OF ORDINANCE NO. 2021-22 AND RESOLUTION OF THE BOARD OF DIRECTORS OF THE TRABUCO CANYON WATER DISTRICT DECLARING A LEVEL 2 WATER SUPPLY SHORTAGE CONDITION

Mr. Paludi introduced this item for Board consideration, and he provided a brief report on the current statewide drought conditions. Mr. Paludi added that the District is required by the Department of Water Resources (DWR) to update its existing Water Conservation Ordinance with an Ordinance that meets the minimum standards and supersedes the previous version. Additionally, Mr. Paludi recommended the Board approve a Level 2 Water Shortage consistent with the District's Water Shortage Contingency Plan (WSCP) There was a brief review of the summary handout. Mr. Perea reported that the District has complied with the public hearing notification requirements and highlighted the receipt of the publication affidavit from the Orange County Register. Director Safranski recommended that District staff perform an appropriate level of public outreach concerning this matter; Mr. Paludi added that the current budget allows for consultant services on public messaging on such matters.

President Chadd opened the public hearing to receive public comments relating to the proposed adoption of Ordinance No. 2021-22 – Water Conservation Program Ordinance at 7:46 p.m. There were no public comments

**TRABUCO CANYON WATER DISTRICT
REGULAR BOARD OF DIRECTORS MEETING MINUTES | DECEMBER 16, 2021**

received, and Mr. Perea reported the District received no written comments or phone calls in protest to the proposed ordinance prior to the public hearing. President Chadd closed the public hearing at 7:47 p.m.

Action: A motion was made by Director Mandich and seconded by Director Dopudja to adopt Ordinance No. 2021-22 – Water Conservation Program Ordinance
The motion was approved by a vote of 4 – 0 – 1 with Director Acosta absent.

President Chadd opened the public hearing to receive public comments relating to the adoption of Resolution No. 2021-1301 – Resolution of the Board of Directors of the Trabuco Canyon Water District Declaring a Level 2 Water Shortage Condition per the District’s Water Shortage Contingency Plan at 7:47 p.m. There were no public comments received, and Mr. Perea reported the District received no written comments or phone calls in protest to the proposed resolution prior to the public hearing. President Chadd closed the public hearing at 7:47p.m.

Action: A motion was made by Director Dopudja and seconded by Director Mandich to adopt Resolution No. 2021-1301 – Resolution of the Board of Directors of the Trabuco Canyon Water District Declaring a Level 2 Water Shortage Condition per the District’s Water Shortage Contingency Plan.
The motion was approved by a vote of 4 – 0 – 1 with Director Acosta absent.

FINANCIAL MATTERS

ITEM 9: DISCUSSION AND APPROVAL OF ADMINISTRATIVE FACILITY BOARD ROOM USE APPLICATION AND PERMIT

Mr. Paludi introduced this matter for Board consideration, and he mentioned this matter was reviewed with the Executive Committee. Mr. Perea provided a brief review of the District’s Board Room Use Policy and the typical use of the room pre-COVID-19, which included local non-profit groups, homeowner associations (HOAs), and youth sport groups. Mr. Perea reported that District staff has worked with General Counsel to develop a more streamlined application and permit for use of the room. Discussion occurred concerning certain terms proposed in the application, including, but not limited to onsite facility security and security/cleaning deposits. The Board recommended addressing the cost of staff time for onsite facility monitoring and to agendize this matter for Board consideration at the following Regular Board Meeting. Mr. Perea expressed his appreciation for General Counsel’s assistance on this matter.

Action: There was no action taken.

ITEM 10: DISCUSSION AND POSSIBLE ACTION(S) CONCERNING ADOPTION OF A RESOLUTION AUTHORIZING AN APPLICATION TO THE DEPARTMENT OF WATER RESOURCES’ 2021 URBAN AND MULTIBENEFIT DROUGHT RELIEF GRANT PROGRAM

Mr. Paludi introduced this matter for Board consideration, and he provided an overview of the Department of Water Resources (DWR) 2021 Urban and Multibenefit Drought Relief Grant Program to the Board of Directors. Mr. Paludi reported that District staff is currently working with Soto Resources to pursue this grant to supplement funding for the Disrict’s AMR/AMI Implementation Project. Mr. Paludi added that the adoption of this resolution is a requirement to apply for the grant.

Action: A motion was made by Director Safranski and seconded by Director Dopudja to adopt Resolution No. 2021-1302 – Resolution of the Board of Directors of Trabuco Canyon Water District Authorizing the Grant Application, Acceptance, and Execution for the Automatic Meter Reading/Advanced Metering Infrastructure Implementation Project.
The motion was approved by a vote of 4 – 0 – 1 with Director Acosta absent.

**TRABUCO CANYON WATER DISTRICT
REGULAR BOARD OF DIRECTORS MEETING MINUTES | DECEMBER 16, 2021**

ITEM 11: TRABUCO CANYON WATER DISTRICT ANNUAL FINANCIAL REPORT (AUDIT) FOR FISCAL YEAR ENDING JUNE 30, 2021

Mr. Paludi introduced this matter for Board consideration, and he mentioned that this matter was reviewed with the Finance/Audit Committee. Mr. Paludi added that Mr. Paul Kaymark of Nigro & Nigro, the District’s auditors, presented the Financial Report for FYE June 30, 2021 to the Finance/Audit Committee, but was unable to attend the Regular Board Meeting due to a scheduling conflict. Mr. Perea briefly reviewed certain highlights of the Financial Report with the Board, and he reported that the auditors found no issues and provided an unmodified opinion. Mr. Berg briefly reviewed the year end revenues and expenses with the Board.

Action: A motion was made by Director Mandich and seconded by Director Safranski to receive and file the Trabuco Canyon Water District Annual Financial Report (Audit) for Fiscal Year Ending June 30, 2021.
The motion was approved by a vote of 4 – 0 – 1 with Director Acosta absent.

LEGISLATIVE, ADMINISTRATIVE AND OTHER MATTERS

ITEM 12: LOCAL GOVERNMENTAL AND LEGISLATIVE INFORMATIONAL MATTER(S)

Mr. Paludi mentioned that there were no updates.

Action: No action was taken.

GENERAL COUNSEL REPORT

Ms. Claire Collins provided the following updates:

- Ms. Collins reported on her attendance at the ACWA Fall Conference.
- Taxpayer Governmental Accountability Act is currently proposed by the Howard Jarvis Association for the 2022 State election ballot.
- “Water Infrastructure Funding Act of 2022” voter initiative seeking signatures, which would require the transfer of 2% of the State’s General Fund towards the development of new water resources up to five million acre-feet per year.

OTHER INFORMATION/MATTERS

Mr. Paludi reported that District staff are currently working with its financial consultant Fieldman Rolapp to prepare a Request for Proposal for borrowing consistent with the 2020 Rate Study, and that this matter will be reviewed at a Finance/Audit Committee Special Meeting the following week.

ADDITIONAL DIRECTORS’ COMMENTS

President Chadd announced that Mr. Gilbert “Gil” Leach, a customer and former District Director from 1977 to 1984, had recently passed away, and he closed the meeting in his memory.

ADJOURNMENT

President Chadd adjourned the December 16, 2021 Regular Board Meeting at 8:25 p.m.

**TRABUCO CANYON WATER DISTRICT
REGULAR BOARD MEETING | JANUARY 20, 2022**

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. *December 8, 2021*

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. *November 2021*

c. *PAYMENT OF BILLS FOR CONSIDERATION*

RECOMMENDED ACTION:

Ratify the payment of bills for consideration, Payroll and Payroll Taxes for December 2021.

EXHIBITS:

1. Revenue Report – December 2021
2. Disbursement Report – December 2021
3. Summary of Disbursements – December 2021
4. General Fund Warrant Register – December 2021
5. General Fund Payroll Warrant Register – December 2021

CONTACTS (staff responsible): PALUDI/PEREA/WARNER



**TRABUCO CANYON WATER DISTRICT
FINANCE/AUDIT COMMITTEE MEETING RECAP | DECEMBER 8, 2021**

DIRECTORS PRESENT

Director Don Chadd, Committee Chair
Director Ed Mandich, Committee Member

STAFF PRESENT

Fernando Paludi, General Manager
Michael Perea, Assistant General Manager
Karen Warner, Principal Accountant
Lisa Marie Sangi, Executive Assistant

CONSULTANTS VIA CONFERENCE CALL

Paul Kaymark, Nigro & Nigro
Ian Berg, Eide Bailly, LLP

PUBLIC PRESENT VIA CONFERENCE CALL

None

CALL MEETING TO ORDER

Director Chadd called the December 8, 2021 Finance/Audit Committee Meeting to order at 1:00 p.m.

VISITOR PARTICIPATION

No visitor participation was received.

ORAL COMMUNICATION

No oral communication was received.

COMMITTEE MEMBER COMMENTS

There were no comments received.

REPORT FROM THE GENERAL MANAGER

Mr. Paludi recommended to move item six to the front of the agenda and to pull item three from the agenda.

ITEM 6: TRABUCO CANYON WATER DISTRICT ANNUAL FINANCIAL REPORT (AUDIT) FOR FISCAL YEAR ENDING JUNE 30, 2021

Mr. Paludi introduced this matter for Committee consideration. Mr. Perea reported that the Board approved a three-year contract with Nigro & Nigro for auditing services for the District, and he introduced Mr. Kaymark to the Committee. Mr. Kaymark expressed his appreciation to Ms. Warner's for her assistance to the audit team, and he reviewed the financial report Statement of Revenues, Statement of Cash Flows and Assets, and Deferred Balance Sheets. Discussion occurred concerning total expenses versus cash flow for FYE June 30, 2021.

RECOMMENDED ACTION(S)

The Committee recommended the Board receive and file the District Annual Financial Report (Audit) for Fiscal Year Ended June 30, 2021 (Action Calendar).

**TRABUCO CANYON WATER DISTRICT
FINANCE AUDIT COMMITTEE MEETING RECAP | DECEMBER 8, 2021**

ITEM 1: FINANCE/AUDIT COMMITTEE MEETING RECAP

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

RECOMMENDED ACTION:

The Committee recommended that the Finance/Audit Committee Meeting Recap be forwarded to the Board of Directors for approval (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. Director Mandich mentioned that the South Orange County Integrated Regional Watershed Management Executive meetings will need to be updated to a monthly occurrence. Director Chadd indicated that he did not attend the ISDOC luncheon.

RECOMMENDED ACTION:

The Committee recommended that the Directors' Fees and Expenses Report for November 2021 and the Tentative Future Meetings/Attendance Report be forwarded to the Board of Directors for consideration as amended (Action Calendar).

ITEM 4: DISCUSSION AND POSSIBLE ACTION(S) CONCERNING DISTRICT RESPONSE TO ONGOING DROUGHT CONDITIONS IN CALIFORNIA

Mr. Paludi presented this matter for Committee consideration, and he reported that the District is required to adopt an updated Water Conservation Ordinance consistent with the Water Shortage Contingency Plan (WSCP) adopted by the Board in June 2021. Mr. Paludi reported current statewide drought conditions and regional responses to the issue, and he recommended the Board adopt a resolution declaring a Level 2 Water Shortage Condition in accordance with the WSCP. Discussion occurred concerning public outreach methods to communicate the District response efforts to the drought and State Water Project impacts.

RECOMMENDED ACTION:

The Committee recommended the Board of Directors adopt Resolution No. 2021-1301 – Resolution of the Board of Directors of the Trabuco Canyon Water District Declaring a Level 2 Water Shortage Condition per the District's Water Shortage Contingency Plan (Action Calendar).

ITEM 5: DISCUSSION AND POSSIBLE ACTION(S) CONCERNING ADOPTION OF A RESOLUTION AUTHORIZING AN APPLICATION TO THE DEPARTMENT OF WATER RESOURCES' 2021 URBAN AND MULTIBENEFIT DROUGHT RELIEF GRANT PROGRAM

Mr. Paludi presented this matter to the Committee, and he provided an update on the District's AMR/AMI Metering Implementation Project. Mr. Paludi reported that District staff has worked with Soto Resources to apply for the Department of Water Resources (DWR) Urban and Multibenefit Drought Relief Grant Program to supplement the funding for the District's project. Discussion occurred concerning other grant opportunities available to the District.

RECOMMENDED ACTION:

The Committee recommended the Board of Directors adopt Resolution No. 2021-1302 – Resolution of the Board of Directors of Trabuco Canyon Water District Authorizing the Grant Application, Acceptance, and Execution for the Automatic Meter Reading/Advanced Metering Infrastructure Implementation Project (Action Calendar).

**TRABUCO CANYON WATER DISTRICT
FINANCE AUDIT COMMITTEE MEETING RECAP | DECEMBER 8, 2021**

ITEM 7: OTHER MATTERS

Mr. Paludi provided a brief update on the District's Fiscal Year 2021/2022 Capital Improvement Project (CIP) budget and the plans to issue debt consistent with the 2020 Rate Study. Mr. Paludi reported that the District Treasurer is working in conjunction with Fieldman, Rolapp & Associates to develop a financial model for Board consideration.

RECOMMENDED ACTION:

No action was taken.

ITEM 8: FINANCIAL REPORT

Ms. Warner presented the preliminary unaudited financials for October 2021, and she highlighted the following items:

Operating Revenue, Residential Water

Ms. Warner reported that water demand for the month was lower than the prior month, but the year to date was higher than budgeted.

Operating Revenue, Irrigation Water

Ms. Warner reported that this line item was higher than the prior month due and the year to date was significantly higher than budgeted due to warmer temperatures.

Operating Revenue, Recycled & Reclaimed Water

Ms. Warner reported that water demand for the month was lower than the prior month, but the year to date was higher than budgeted.

Operating Revenue, Baker Treatment Plant Sales

Ms. Warner reported that this line item was higher than the prior month.

Operating Expenses, Sanitation Expenses

Ms. Warner reported that this line time was higher than the prior month due to increased expenses associated with sewer lift station repairs.

RECOMMENDED ACTION:

The Committee recommended the Board of Directors receive and file the preliminary unaudited financial statements for October 2021 (Consent Calendar).

The Committee signed the bills for consideration and the warrant register and recommended that the Board ratify payment of the bills for consideration for December 8, 2021 as presented (Consent Calendar).

ADJOURNMENT

Director Chadd adjourned the December 8, 2021 Finance/Audit Committee Meeting at 1:42 p.m.



Trabuco Canyon Water District

Statement of Revenues & Expenses

FY 2021-22 (Unaudited)

	November 2021	October 2021	Current YTD	Annual Budget	42% YTD	Prior YTD
1 Operating Revenue						
2 Residential Water	\$ 269,629	\$ 342,818	\$ 1,731,211	\$ 4,116,200	42%	\$ 1,832,638
3 Business & Industrial Water	9,334	11,817	59,375	165,600	36%	79,175
4 Irrigation Water	103,099	146,418	671,658	1,075,200	62%	515,381
5 Stand-by	2,512	-	2,512	41,800	6%	17,083
6 Sanitation Revenue	149,783	150,586	757,206	1,964,200	39%	719,431
7 Recycled & Reclaimed Revenue	72,008	98,461	536,537	999,000	54%	498,277
8 Baker Treatment Plant Water Sales *	113,296	121,153	312,350	1,383,500	23%	506,538
9 Other Operating Revenue	15,051	14,508	65,864	179,600	37%	2,639
10 Total Operating Revenue	734,713	885,761	4,136,713	9,925,100	42%	4,171,162
11 Non-Operating Revenue						
12 Property Tax Unrestricted	291,387	4,608	330,374	2,006,200	16%	711,417
13 Interest Revenue	334	315	4,552	35,600	13%	14,470
14 Other Non-Operating Revenue	53,605	6,180	67,567	72,400	93%	15,729
15 Total Non-Operating Revenue	345,325	11,103	402,494	2,114,200	19%	784,667
16 Total Revenues	1,080,038	896,864	4,539,207	12,039,300	38%	4,955,829
17 Operating Expenses						
18 Source of Supply	213,752	387,674	1,094,782	2,262,400	48%	1,167,203
19 Baker Treatment SOS Costs	135,038	97,168	586,307	1,287,700	46%	450,613
20 Water Related Expense	123,346	175,478	844,417	2,032,100	42%	830,392
21 Sanitation Expense	105,162	262,567	632,751	1,359,200	47%	571,964
22 Recycled Expense	24,204	34,171	138,590	234,200	59%	107,400
23 Reclaimed Expense	24,204	34,102	138,524	234,100	59%	97,865
24 Salaries & Benefits	295,653	289,953	1,502,415	3,923,000	38%	1,377,890
25 Board Expense	10,332	9,437	48,263	122,600	39%	45,707
26 Miscellaneous Expense	722	856	1,661	5,000	33%	1,666
27 Total Operating Expenses	932,414	1,291,406	4,987,710	11,460,300	44%	4,650,701
Net Income / (Loss) before Contributed Capital, Trust Contributions & Debt Service	147,624	(394,543)	(448,504)	579,000		305,128
28 Trust Contributions & Debt Service						
29 WRES Fees for Capital	68,743	68,726	343,732	822,200	42%	342,213
30 Other Capital Contributions	-	-	-	344,000	0%	-
31 Debt Principal, Interest & Issuance Costs	(19,198)	(23,271)	(95,992)	(445,300)	22%	(95,992)
32 CalPERS UAL & Pension Trust Contributions	(19,967)	(19,967)	(99,836)	(590,500)	17%	(90,055)
33 OPEB Trust Contributions & Paygo	(11,041)	(11,041)	(50,313)	(206,100)	24%	(126,515)
Net Contributed Capital, Trust Contributions & Debt Service	18,536	14,447	97,591	(75,700)		29,650
35 Net Income	\$ 166,160	\$ (380,096)	\$ (350,913)	\$ 503,300		\$ 334,779

No assurance is provided on these financial statements. The financial statements do not include a statement of cash flows. Substantially all disclosures required by accounting principles generally accepted in the U.S. are not included.

**Baker Treatment Plant O&M revenues and expenses are billed quarterly. As a result the % of budget may appear skewed until billing occurs.*



Trabuco Canyon Water District
Balance Sheet - Comparative
As of November 30, 2021
(Unaudited)

	November 2021	October 2021	November 2020
1 Assets			
2 Current Assets			
3 Cash	\$ 934,620	\$ 687,629	\$ 510,092
4 Accounts Receivable, Net	1,490,024	1,616,409	2,149,235
5 Property Tax Receivable	-	-	1,402,573
6 Prepaid Expenses	360,315	407,029	321,452
7 Total Current Assets	2,784,959	2,711,067	4,383,352
8 Total Restricted Assets (see Schedule A)	3,419,344	3,419,340	8,146,043
9 Utility Plant			
10 Utility Plant, at Cost	123,510,337	123,510,337	115,729,687
11 Accumulated Depreciation	(75,181,500)	(74,842,788)	(72,455,575)
12 Construction in Progress	416,865	362,279	3,594,460
13 Total Utility Plant	48,745,702	49,029,827	46,868,571
14 Other Assets			
15 Due from BTP	928,187	960,012	1,309,796
16 Deferred Outflow (Pension Related)	1,486,261	1,486,261	1,277,368
17 Total Other Assets	2,414,448	2,446,273	2,587,164
18 Total Assets	\$ 57,364,453	\$ 57,606,507	\$ 61,985,131
19 Liabilities & Retained Earnings			
20 Current Liabilities			
21 Accounts Payable	\$ 1,605,839	\$ 1,641,281	\$ 1,413,702
22 Due to Internal Financing Fund	928,187	960,012	1,309,796
23 Accrued Expenses	339,045	345,353	408,102
24 Deferred Property Tax Revenue	-	-	1,019,900
25 Total Current Liabilities	2,873,071	2,946,646	4,151,500
26 Liabilities to be Paid from Restricted Assets			
27 Accrued Bond Interest	20,363	16,290	22,061
28 Current Portion-Long Term Debt	182,547	182,547	178,449
29 Refundable Deposits	9,500	9,500	13,500
30 Developer Deposits	106,106	106,106	67,763
31 Total Liabilities to be Paid from Restricted Assets	318,515	314,443	281,772

*No assurance is provided on these financial statements. Substantially all disclosures required by accounting principles generally accepted in the U.S. are not included.



Trabuco Canyon Water District
Balance Sheet - Comparative
As of November 30, 2021
(Unaudited)

	November 2021	October 2021	November 2020
32 Long Term Debt			
33 Accrued Post Employment Benefits	356,589	356,589	533,587
34 Accrued Pension Liability	3,652,253	3,652,253	3,399,715
35 State Revolving Fund Loan	1,957,505	1,957,505	2,140,052
36 Total Long Term Debt	5,966,347	5,966,347	6,073,354
37 Total Liabilities	9,157,934	9,227,436	10,506,626
38 Fund Balance			
39 Invested in Capital Net of Related Debt	46,585,287	46,873,485	44,528,010
40 Restricted for Debt Service	236,971	236,967	225,143
41 Legally Restricted	(238,228)	(231,553)	4,402,679
42 Designated by Board	3,301,027	3,301,027	3,508,677
43 Unrestricted	(1,678,537)	(1,800,855)	(1,186,005)
44 Total Fund Balance	48,206,520	48,379,071	51,478,505
45 Total Liabilities and Fund Balance	\$ 57,364,453	\$ 57,606,507	\$ 61,985,131

*No assurance is provided on these financial statements. Substantially all disclosures required by accounting principles generally accepted in the U.S. are not included.



Trabuco Canyon Water District
Restricted Assets Report
As of November 30, 2021
(Unaudited)

	November 2021	October 2021	November 2020
1 LAIF Accounts (at Cost)			
2 LAIF Unrestricted	\$ (5,416,790)	\$ (5,373,193)	\$ (702,038)
3 Water Storage Facilities	1,051,427	1,051,427	1,051,427
4 Sanitation Capital Improvement	-	-	154,852
5 WRES - Rose Canyon/Lang Wells	1,412,457	1,377,770	1,221,952
6 WRES - Reservoir/Distribution Improvements	2,638,093	2,635,859	2,600,225
7 RD#5	76,585	76,585	76,261
8 LAIF Interim Sewage	119,574	112,899	115,612
9 Water Rate Stabilization Funds	792,830	792,830	684,080
10 Sewer Rate Stabilization Funds	547,360	547,360	726,160
11 Working Capital Funds	1,960,304	1,960,304	1,975,776
12 Market Value Over/(Under) Cost	533	533	16,593
13 State Revolving Fund			
14 Cash in CB&T Reserved for SRF Loan	236,971	236,967	225,143
15 Total Restricted Assets	\$ 3,419,344	\$ 3,419,340	\$ 8,146,043

*No assurance is provided on these financial statements. Substantially all disclosures required by accounting principles generally accepted in the U.S. are not included.



Trabuco Canyon Water District
Investment Schedule
As of November 30, 2021
(Unaudited)

	RATE	COST	MARKET	% OF TOTAL
District Investments in the California Local Agency				
Investment Fund (LAIF)				
1	0.203%	\$ 1,051,427	\$ 1,051,294	33%
2	0.203%	1,412,457	1,412,279	44%
3	0.203%	2,638,093	2,637,760	83%
4	0.203%	76,585	76,575	2%
5	0.203%	119,574	119,559	4%
6	0.203%	792,830	792,730	25%
7	0.203%	547,360	547,291	17%
8	0.203%	1,960,304	1,960,056	62%
9	0.203%	(5,416,790)	(5,416,106)	-170%
Total District Investments in LAIF		\$ 3,181,840	\$ 3,181,438	100%

** A negative number indicates the use of reserves to fund operations.*

*** Market values are adjusted on a quarterly basis and recorded in the District's financials statements at the end of the fiscal year.*

CERTIFICATION

I certify that (1) all investment actions executed since the last report have been made in full compliance with the District's Investment Policy and, (2) the District will meet its expenditure obligations for the next six months as required by California Government Code Sections 53646(b)(2) and (3), respectively.

Cindy Byerrum, CPA

Contract CPA and Treasurer



Trabuco Canyon Water District
Checking Account Activity
November 2021
(Unaudited)

Inflows	Current Month	Year to Date
Utility Billing Collections	\$ 769,478	\$ 4,051,818
Tax Receipts	293,177	354,647
Transfer From LAIF	-	3,250,000
Miscellaneous	143,117	317,096
Total Inflows	1,205,772	7,973,562
Outflows		
Vouchers	837,329	4,572,705
Payroll	234,730	1,281,075
Miscellaneous & Online Payments	187,747	1,666,607
Total Outflows	1,259,807	7,520,387
Net Change in Checking Account	(54,035)	453,174
Beginning Checking Account	1,007,987	500,779
Ending Checking Account	\$ 953,953	\$ 953,953

*No assurance is provided on these financial statements. Substantially all disclosures required by accounting principles generally accepted in the U.S. are not included.



Trabuco Canyon Water District, CA

Bank Transaction Report

Transaction Detail

Issued Date Range: 12/01/2021 - 12/31/2021

Cleared Date Range: -

Issued Date	Cleared Date	Number	Description	Module	Status	Type	Amount
Accounts Payable							
Bank Draft							
12/01/2021		DFT0002383	CalPERS	Accounts Payable	Outstanding	Bank Draft	-42,973.84
12/01/2021		DFT0002384	CalPERS	Accounts Payable	Outstanding	Bank Draft	-5,266.88
12/01/2021		DFT0002385	CalPERS	Accounts Payable	Outstanding	Bank Draft	-9,015.25
12/01/2021		DFT0002386	CalPERS	Accounts Payable	Outstanding	Bank Draft	-13,335.97
12/01/2021		DFT0002387	CalPERS	Accounts Payable	Outstanding	Bank Draft	-5,150.39
12/01/2021		DFT0002388	Guardian	Accounts Payable	Outstanding	Bank Draft	-4,150.84
12/01/2021		DFT0002389	VSP	Accounts Payable	Outstanding	Bank Draft	-814.55
12/01/2021		DFT0002390	Cintas	Accounts Payable	Outstanding	Bank Draft	-48.65
12/01/2021		DFT0002391	Cintas	Accounts Payable	Outstanding	Bank Draft	-243.71
12/01/2021		DFT0002392	Cintas	Accounts Payable	Outstanding	Bank Draft	-226.88
12/01/2021		DFT0002393	Cintas	Accounts Payable	Outstanding	Bank Draft	-1,677.06
12/01/2021		DFT0002394	EPX	Accounts Payable	Outstanding	Bank Draft	-5,599.82
12/01/2021		DFT0002395	USDA, Forest Service	Accounts Payable	Outstanding	Bank Draft	-305.00
12/01/2021		DFT0002396	USDA, Forest Service	Accounts Payable	Outstanding	Bank Draft	-99.22
12/02/2021		DFT0002382	ADP	Accounts Payable	Outstanding	Bank Draft	-103,595.06
12/02/2021		DFT0002397	Southern California Edison	Accounts Payable	Outstanding	Bank Draft	-85,929.54
12/02/2021		DFT0002400	Pace Payment Systems, Inc.	Accounts Payable	Outstanding	Bank Draft	-22.64
12/03/2021		DFT0002398	Shred-it USA LLC	Accounts Payable	Outstanding	Bank Draft	-68.00
12/03/2021		DFT0002399	Santa Margarita Water District	Accounts Payable	Outstanding	Bank Draft	-2,840.53
12/08/2021		DFT0002401	Southern California Edison	Accounts Payable	Outstanding	Bank Draft	-566.58
12/08/2021		DFT0002402	Cox Communications	Accounts Payable	Outstanding	Bank Draft	-2,429.57
12/08/2021		DFT0002445	Pace Payment Systems, Inc.	Accounts Payable	Outstanding	Bank Draft	-0.50
12/10/2021		DFT0002403	ADP	Accounts Payable	Outstanding	Bank Draft	-1,802.45
12/13/2021		DFT0002404	Xerox Corporation	Accounts Payable	Outstanding	Bank Draft	-244.82
12/13/2021		DFT0002405	Cox Communications	Accounts Payable	Outstanding	Bank Draft	-1,726.16
12/15/2021		DFT0002407	The Toll Roads	Accounts Payable	Outstanding	Bank Draft	-140.00
12/16/2021		DFT0002406	California Bank & Trust	Accounts Payable	Outstanding	Bank Draft	-115,190.52
12/16/2021		DFT0002408	ADP	Accounts Payable	Outstanding	Bank Draft	-100,147.93
12/16/2021		DFT0002409	CalPERS	Accounts Payable	Outstanding	Bank Draft	-7,723.59
12/16/2021		DFT0002410	CalPERS	Accounts Payable	Outstanding	Bank Draft	-13,335.97
12/16/2021		DFT0002411	CalPERS	Accounts Payable	Outstanding	Bank Draft	-4,630.12
12/16/2021		DFT0002416	Umpqua Bank	Accounts Payable	Outstanding	Bank Draft	-3,299.88
12/17/2021		DFT0002412	Cox Communications	Accounts Payable	Outstanding	Bank Draft	-689.96
12/17/2021		DFT0002413	Cox Communications	Accounts Payable	Outstanding	Bank Draft	-115.53
12/17/2021		DFT0002414	ADP	Accounts Payable	Outstanding	Bank Draft	-89.38

Bank Transaction Report

Issued Date Range: -

Issued Date	Cleared Date	Number	Description	Module	Status	Type	Amount
12/17/2021		DFT0002415	Wex Fleet Universal	Accounts Payable	Outstanding	Bank Draft	-4,702.85
12/20/2021		DFT0002417	Southern California Edison	Accounts Payable	Outstanding	Bank Draft	-71,124.24
12/21/2021		DFT0002418	ADP	Accounts Payable	Outstanding	Bank Draft	-10.00
12/22/2021		DFT0002419	The Toll Roads	Accounts Payable	Outstanding	Bank Draft	-140.00
12/23/2021		DFT0002420	AT&T Mobility	Accounts Payable	Outstanding	Bank Draft	-2,198.72
12/27/2021		DFT0002421	Wage Works, Inc.	Accounts Payable	Outstanding	Bank Draft	-75.00
12/29/2021		DFT0002422	Pitney Bowes	Accounts Payable	Outstanding	Bank Draft	-190.02
12/30/2021		DFT0002423	The Toll Roads	Accounts Payable	Outstanding	Bank Draft	-140.00
12/31/2021		DFT0002424	South Coast AQMD	Accounts Payable	Outstanding	Bank Draft	-582.74
12/31/2021		DFT0002425	ADP	Accounts Payable	Outstanding	Bank Draft	-112.00
12/31/2021		DFT0002446	Pace Payment Systems, Inc.	Accounts Payable	Outstanding	Bank Draft	-0.50
Bank Draft Total: (46)							-612,772.86
Check							
12/02/2021		10564	Tuttle-Click Ford	Accounts Payable	Outstanding	Check	-44,048.33
12/13/2021		10565	AT&T	Accounts Payable	Outstanding	Check	-313.87
12/13/2021		10566	Brent Monson	Accounts Payable	Outstanding	Check	-379.71
12/13/2021		10567	Chemtrade Chemicals US LLC	Accounts Payable	Outstanding	Check	-4,175.15
12/13/2021		10568	Construction Product Marketing, LLC	Accounts Payable	Outstanding	Check	-2,564.45
12/13/2021		10569	Fieldman, Rolapp & Assoc.	Accounts Payable	Outstanding	Check	-5,322.74
12/13/2021		10570	Haaker Equipment Company	Accounts Payable	Outstanding	Check	-3,599.62
12/13/2021		10571	InfoSend, Inc.	Accounts Payable	Outstanding	Check	-2,493.28
12/13/2021		10572	Irvine Ranch Water District	Accounts Payable	Outstanding	Check	-94,809.32
12/13/2021		10573	Kessler, Gary	Accounts Payable	Outstanding	Check	-300.00
12/13/2021		10574	Olin Chemicals	Accounts Payable	Outstanding	Check	-2,187.02
12/13/2021		10575	Orange County Pumping, Inc.	Accounts Payable	Outstanding	Check	-1,420.00
12/13/2021		10576	Richard Hurtado	Accounts Payable	Outstanding	Check	-300.00
12/13/2021		10577	Santa Margarita Water District	Accounts Payable	Outstanding	Check	-1,320.00
12/13/2021		10578	Sierra Analytical	Accounts Payable	Outstanding	Check	-517.50
12/13/2021		10579	SWRCB - ELAP Fees	Accounts Payable	Outstanding	Check	-2,800.00
12/13/2021		10580	TAB AnswerNetwork	Accounts Payable	Outstanding	Check	-165.68
12/13/2021		10581	Touch Tel Mobile	Accounts Payable	Outstanding	Check	-625.00
12/13/2021		10582	Traffic Management	Accounts Payable	Outstanding	Check	-5,754.75
12/13/2021		10583	Valdez, Fernando	Accounts Payable	Outstanding	Check	-300.00
12/13/2021		10584	Weck Laboratories, Inc.	Accounts Payable	Outstanding	Check	-401.55
12/29/2021		10585	All American Gasket	Accounts Payable	Outstanding	Check	-398.30
12/29/2021		10586	Applied Industrial Technologies	Accounts Payable	Outstanding	Check	-101.41
12/29/2021		10587	ARC	Accounts Payable	Outstanding	Check	-225.09
12/29/2021		10588	ASA Manufacturing	Accounts Payable	Outstanding	Check	-4,795.20
12/29/2021		10589	AT&T	Accounts Payable	Outstanding	Check	-866.52
12/29/2021		10590	Bright View Landscape Services, Inc.	Accounts Payable	Outstanding	Check	-3,345.30
12/29/2021		10591	Chemtrade Chemicals US LLC	Accounts Payable	Outstanding	Check	-7,986.90
12/29/2021		10592	Coastline Equipment	Accounts Payable	Outstanding	Check	-174.37

Bank Transaction Report

Issued Date Range: -

Issued Date	Cleared Date	Number	Description	Module	Status	Type	Amount
12/29/2021		10593	DMc Engineering	Accounts Payable	Outstanding	Check	-14,360.85
12/29/2021		10594	Duthie Electric Service Corporation	Accounts Payable	Outstanding	Check	-17,330.50
12/29/2021		10595	Environmental Dynamics International, INC.	Accounts Payable	Outstanding	Check	-6,882.44
12/29/2021		10596	Ferguson Waterworks	Accounts Payable	Outstanding	Check	-11,584.77
12/29/2021		10597	Fieldman, Rolapp & Assoc.	Accounts Payable	Outstanding	Check	-3,476.00
12/29/2021		10598	Fuller Truck Accessories	Accounts Payable	Outstanding	Check	-2,132.37
12/29/2021		10599	GMU Geotechnical, Inc.	Accounts Payable	Outstanding	Check	-5,364.25
12/29/2021		10600	Haaker Equipment Company	Accounts Payable	Outstanding	Check	-303.47
12/29/2021		10601	Hanson Bridgett LLP	Accounts Payable	Outstanding	Check	-19,900.62
12/29/2021		10602	HighRoad Information Technology, LLC.	Accounts Payable	Outstanding	Check	-5,040.00
12/29/2021		10603	HMS Industries	Accounts Payable	Outstanding	Check	-974.66
12/29/2021		10604	Hydrotech Electric	Accounts Payable	Outstanding	Check	-58,080.86
12/29/2021		10605	Industrial Metal Supply Company	Accounts Payable	Outstanding	Check	-46.07
12/29/2021		10606	Irvine Pipe Supply	Accounts Payable	Outstanding	Check	-149.44
12/29/2021		10607	Irvine Ranch Water District	Accounts Payable	Outstanding	Check	-279,999.64
12/29/2021		10608	JIG Consultants	Accounts Payable	Outstanding	Check	-63,946.40
12/29/2021		10609	Mr. Crane	Accounts Payable	Outstanding	Check	-1,161.00
12/29/2021		10610	Napa Auto Parts	Accounts Payable	Outstanding	Check	-311.23
12/29/2021		10611	Nigro & Nigro, PC	Accounts Payable	Outstanding	Check	-9,750.00
12/29/2021		10612	OC Waste & Recycling	Accounts Payable	Outstanding	Check	-2,400.88
12/29/2021		10613	Olin Chemicals	Accounts Payable	Outstanding	Check	-4,355.72
12/29/2021		10614	Orange County Pumping, Inc.	Accounts Payable	Outstanding	Check	-3,905.00
12/29/2021		10615	Quinn Company	Accounts Payable	Outstanding	Check	-2,047.54
12/29/2021		10616	S & J Supply Company	Accounts Payable	Outstanding	Check	-187.58
12/29/2021		10617	Sandbox Sign Company	Accounts Payable	Outstanding	Check	-26.40
12/29/2021		10618	Santiago Aqueduct Commission	Accounts Payable	Outstanding	Check	-40,826.00
12/29/2021		10619	Scott Equipment	Accounts Payable	Outstanding	Check	-1,941.07
12/29/2021		10620	Sierra Analytical	Accounts Payable	Outstanding	Check	-1,085.00
12/29/2021		10621	Soto Resources	Accounts Payable	Outstanding	Check	-783.75
12/29/2021		10622	Specialty Film & Packaging, Inc.	Accounts Payable	Outstanding	Check	-322.44
12/29/2021		10623	Stradling Yocca Carlson & Rauth	Accounts Payable	Outstanding	Check	-2,139.24
12/29/2021		10624	TrucParCo	Accounts Payable	Outstanding	Check	-212.27
12/29/2021		10625	Underground Service Alert/SC	Accounts Payable	Outstanding	Check	-105.64
12/29/2021		10626	USA BlueBook	Accounts Payable	Outstanding	Check	-3,658.74
12/29/2021		10627	Weck Laboratories, Inc.	Accounts Payable	Outstanding	Check	-110.80
						Check Total: (64)	-756,593.70
EFT							
12/14/2021		99	MWD0C	Accounts Payable	Outstanding	EFT	-190,353.36
12/29/2021		100	ACWA/JPIA - Benefits (WC & Life)	Accounts Payable	Outstanding	EFT	-595.80
12/29/2021		101	ACWA/JPIA - Property & Liability	Accounts Payable	Outstanding	EFT	-3,476.00
12/29/2021		102	ALS - Truesdail Laboratories	Accounts Payable	Outstanding	EFT	-4,859.00
12/29/2021		103	California Air Resources Board	Accounts Payable	Outstanding	EFT	-805.00

Bank Transaction Report

Issued Date Range: -

Issued Date	Cleared Date	Number	Description	Module	Status	Type	Amount
12/29/2021		104	Eide Bailly	Accounts Payable	Outstanding	EFT	-6,040.85
12/29/2021		105	United Water Works, Inc.	Accounts Payable	Outstanding	EFT	-1,728.20
EFT Total: (7)							-207,858.21
Accounts Payable Total: (117)							-1,577,224.77

General Ledger

Deposit

12/09/2021		DEP0015711	Receipts - County of Orange - Property Taxes	General Ledger	Outstanding	Deposit	4,268.62
12/23/2021		DEP0015958	Receipts - Pace Payments - Billing Error	General Ledger	Outstanding	Deposit	0.50
12/27/2021		DEP0015861	Receipts - County of Orange - Property Taxes	General Ledger	Outstanding	Deposit	579,307.59
12/28/2021		DEP0015872	Receipts - County of Orange - Sewer Services	General Ledger	Outstanding	Deposit	4,270.00
12/28/2021		DEP0015873	Receipts - OC Fire Authority - Sewer Services	General Ledger	Outstanding	Deposit	150.00
12/28/2021		DEP0015874	Receipts - OC Fire Authority - Sewer Services	General Ledger	Outstanding	Deposit	150.00
12/28/2021		DEP0015875	Receipts - ACWA - Refund undeposited funds - Safranski	General Ledger	Outstanding	Deposit	150.00
12/28/2021		DEP0015876	Receipts - Quinonez - Excess of boot allowance	General Ledger	Outstanding	Deposit	23.14
12/28/2021		DEP0015877	Receipts - T-Mobile - Cell site rent	General Ledger	Outstanding	Deposit	2,131.72
12/28/2021		DEP0015878	Receipts - FedEx - Overpayment	General Ledger	Outstanding	Deposit	86.95
12/28/2021		DEP0015879	Receipts - MS Wholesale Plumbing - Settlement	General Ledger	Outstanding	Deposit	64.89
12/29/2021		DEP0015900	Misc AR - SWRCB - Arrearages admin fees	General Ledger	Outstanding	Deposit	3,323.84
12/29/2021		DEP0015901	Receipts - SWRCB - Arrearages admin fees	General Ledger	Outstanding	Deposit	3,323.84
12/29/2021		DEP0015902	Receipts - Goren - Sewage hauling deposit	General Ledger	Outstanding	Deposit	12,000.00
12/30/2021		DEP0015904	Receipts - County of Orange - Property Taxes	General Ledger	Outstanding	Deposit	191,227.62
Deposit Total: (15)							800,478.71

Deposit Reversal

12/29/2021		DEP0015900	Misc AR - SWRCB - Arrearages admin fees	General Ledger	Outstanding	Deposit Reversal	-3,323.84
Deposit Reversal Total: (1)							-3,323.84
General Ledger Total: (16)							797,154.87

Utility Billing

Deposit

12/01/2021		DEP0015600	Utility Reverse Payment Packet UBPKT06804	Utility Billing	Outstanding	Deposit	-167.91
12/01/2021		DEP0015609	Utility Payment Packet UBPKT06807	Utility Billing	Outstanding	Deposit	3,554.04
12/01/2021		DEP0015612	Utility Payment Packet UBPKT06808	Utility Billing	Outstanding	Deposit	3,486.06
12/01/2021		DEP0015623	Utility Payment Packet UBPKT06813	Utility Billing	Outstanding	Deposit	3,986.46
12/02/2021		DEP0015620	Utility Reverse Payment Packet UBPKT06811	Utility Billing	Outstanding	Deposit	-200.00
12/02/2021		DEP0015626	Utility Payment Packet UBPKT06814	Utility Billing	Outstanding	Deposit	2,397.46
12/02/2021		DEP0015629	Utility Payment Packet UBPKT06815	Utility Billing	Outstanding	Deposit	3,392.64
12/02/2021		DEP0015632	Utility Payment Packet UBPKT06816	Utility Billing	Outstanding	Deposit	17,048.87
12/03/2021		DEP0015635	Utility Payment Packet UBPKT06817	Utility Billing	Outstanding	Deposit	2,898.07
12/03/2021		DEP0015639	Utility Payment Packet UBPKT06818	Utility Billing	Outstanding	Deposit	2,083.47
12/03/2021		DEP0015642	Utility Payment Packet UBPKT06819	Utility Billing	Outstanding	Deposit	2,302.30
12/06/2021		DEP0015645	Utility Payment Packet UBPKT06820	Utility Billing	Outstanding	Deposit	5,341.93
12/06/2021		DEP0015648	Utility Payment Packet UBPKT06821	Utility Billing	Outstanding	Deposit	1,727.87

Bank Transaction Report

Issued Date Range: -

Issued Date	Cleared Date	Number	Description	Module	Status	Type	Amount
12/06/2021		DEP0015651	Utility Payment Packet UBPKT06822	Utility Billing	Outstanding	Deposit	10,167.44
12/06/2021		DEP0015654	Utility Payment Packet UBPKT06823	Utility Billing	Outstanding	Deposit	6,405.19
12/06/2021		DEP0015657	Utility Payment Packet UBPKT06824	Utility Billing	Outstanding	Deposit	8,196.71
12/06/2021		DEP0015663	Utility Payment Packet UBPKT06826	Utility Billing	Outstanding	Deposit	5,580.61
12/06/2021		DEP0015728	Utility Payment Packet UBPKT06846	Utility Billing	Outstanding	Deposit	203.98
12/07/2021		DEP0015666	Utility Payment Packet UBPKT06827	Utility Billing	Outstanding	Deposit	10,007.66
12/07/2021		DEP0015669	Utility Payment Packet UBPKT06828	Utility Billing	Outstanding	Deposit	2,882.71
12/07/2021		DEP0015672	Utility Payment Packet UBPKT06829	Utility Billing	Outstanding	Deposit	4,142.48
12/08/2021		DEP0015675	Utility Payment Packet UBPKT06830	Utility Billing	Outstanding	Deposit	1,374.92
12/08/2021		DEP0015678	Utility Payment Packet UBPKT06831	Utility Billing	Outstanding	Deposit	4,715.49
12/08/2021		DEP0015731	Utility Payment Packet UBPKT06847	Utility Billing	Outstanding	Deposit	523.80
12/09/2021		DEP0015682	Utility Payment Packet UBPKT06832	Utility Billing	Outstanding	Deposit	16,496.50
12/09/2021		DEP0015685	Utility Payment Packet UBPKT06833	Utility Billing	Outstanding	Deposit	4,008.69
12/09/2021		DEP0015688	Utility Payment Packet UBPKT06834	Utility Billing	Outstanding	Deposit	3,158.91
12/09/2021		DEP0015691	Utility Payment Packet UBPKT06835	Utility Billing	Outstanding	Deposit	1,940.36
12/10/2021		DEP0015694	Utility Payment Packet UBPKT06836	Utility Billing	Outstanding	Deposit	576.97
12/10/2021		DEP0015697	Utility Payment Packet UBPKT06837	Utility Billing	Outstanding	Deposit	5,747.08
12/10/2021		DEP0015700	Utility Reverse Payment Packet UBPKT06838	Utility Billing	Outstanding	Deposit	-126.11
12/10/2021		DEP0015703	Utility Payment Packet UBPKT06839	Utility Billing	Outstanding	Deposit	4,462.46
12/13/2021		DEP0015706	Utility Payment Packet UBPKT06840	Utility Billing	Outstanding	Deposit	5,329.48
12/13/2021		DEP0015709	Utility Payment Packet UBPKT06841	Utility Billing	Outstanding	Deposit	4,635.46
12/13/2021		DEP0015714	Utility Payment Packet UBPKT06842	Utility Billing	Outstanding	Deposit	6,251.83
12/13/2021		DEP0015717	Utility Payment Packet UBPKT06843	Utility Billing	Outstanding	Deposit	5,004.18
12/13/2021		DEP0015720	Utility Payment Packet UBPKT06845	Utility Billing	Outstanding	Deposit	11,305.56
12/14/2021		DEP0015723	Utility Payment Packet UBPKT06844	Utility Billing	Outstanding	Deposit	8,868.36
12/14/2021		DEP0015725	ACH Draft Packet UBPKT06756	Utility Billing	Outstanding	Deposit	100,334.17
12/14/2021		DEP0015735	Utility Payment Packet UBPKT06849	Utility Billing	Outstanding	Deposit	4,296.03
12/14/2021		DEP0015738	Utility Payment Packet UBPKT06850	Utility Billing	Outstanding	Deposit	156,677.34
12/15/2021		DEP0015741	Utility Payment Packet UBPKT06851	Utility Billing	Outstanding	Deposit	4,553.70
12/15/2021		DEP0015743	Utility Payment Packet UBPKT06848	Utility Billing	Outstanding	Deposit	909.40
12/15/2021		DEP0015746	Utility Payment Packet UBPKT06853	Utility Billing	Outstanding	Deposit	48,273.04
12/15/2021		DEP0015749	Utility Payment Packet UBPKT06852	Utility Billing	Outstanding	Deposit	3,377.72
12/15/2021		DEP0015770	Utility Payment Packet UBPKT06871	Utility Billing	Outstanding	Deposit	2,763.94
12/16/2021		DEP0015763	Utility Reverse Payment Packet UBPKT06867	Utility Billing	Outstanding	Deposit	-95.63
12/16/2021		DEP0015766	Utility Payment Packet UBPKT06868	Utility Billing	Outstanding	Deposit	310.71
12/16/2021		DEP0015773	Utility Payment Packet UBPKT06874	Utility Billing	Outstanding	Deposit	800.61
12/16/2021		DEP0015776	Utility Payment Packet UBPKT06875	Utility Billing	Outstanding	Deposit	8,853.42
12/17/2021		DEP0015779	Utility Payment Packet UBPKT06876	Utility Billing	Outstanding	Deposit	440.15
12/17/2021		DEP0015782	Utility Payment Packet UBPKT06877	Utility Billing	Outstanding	Deposit	462.26
12/17/2021		DEP0015788	Utility Payment Packet UBPKT06880	Utility Billing	Outstanding	Deposit	18,446.17
12/20/2021		DEP0015785	Utility Reverse Payment Packet UBPKT06879	Utility Billing	Outstanding	Deposit	-232.80
12/20/2021		DEP0015791	Utility Payment Packet UBPKT06881	Utility Billing	Outstanding	Deposit	640.84
12/20/2021		DEP0015794	Utility Payment Packet UBPKT06882	Utility Billing	Outstanding	Deposit	188.15

Bank Transaction Report

Issued Date Range: -

Issued Date	Cleared Date	Number	Description	Module	Status	Type	Amount
12/20/2021		DEP0015797	Utility Payment Packet UBPKT06884	Utility Billing	Outstanding	Deposit	12,788.17
12/20/2021		DEP0015818	Utility Payment Packet UBPKT06894	Utility Billing	Outstanding	Deposit	18,140.02
12/20/2021		DEP0015948	Utility Reverse Payment Packet UBPKT06942	Utility Billing	Outstanding	Deposit	-232.60
12/21/2021		DEP0015809	Utility Payment Packet UBPKT06891	Utility Billing	Outstanding	Deposit	659.81
12/21/2021		DEP0015812	Utility Payment Packet UBPKT06892	Utility Billing	Outstanding	Deposit	5,747.27
12/21/2021		DEP0015821	Utility Payment Packet UBPKT06895	Utility Billing	Outstanding	Deposit	4,465.78
12/21/2021		DEP0015951	Utility Reverse Payment Packet UBPKT06944	Utility Billing	Outstanding	Deposit	-111.53
12/22/2021		DEP0015800	Utility Payment Packet UBPKT06886	Utility Billing	Outstanding	Deposit	4,584.33
12/22/2021		DEP0015803	Utility Payment Packet UBPKT06887	Utility Billing	Outstanding	Deposit	4,863.62
12/22/2021		DEP0015806	Utility Payment Packet UBPKT06888	Utility Billing	Outstanding	Deposit	885.09
12/22/2021		DEP0015815	Utility Payment Packet UBPKT06893	Utility Billing	Outstanding	Deposit	2,939.84
12/22/2021		DEP0015824	Utility Payment Packet UBPKT06896	Utility Billing	Outstanding	Deposit	795.71
12/22/2021		DEP0015827	Utility Payment Packet UBPKT06898	Utility Billing	Outstanding	Deposit	5,003.68
12/23/2021		DEP0015830	Utility Payment Packet UBPKT06899	Utility Billing	Outstanding	Deposit	7,408.28
12/23/2021		DEP0015833	Utility Payment Packet UBPKT06902	Utility Billing	Outstanding	Deposit	1,538.40
12/23/2021		DEP0015836	Utility Payment Packet UBPKT06903	Utility Billing	Outstanding	Deposit	19,939.79
12/24/2021		DEP0015839	Utility Payment Packet UBPKT06904	Utility Billing	Outstanding	Deposit	2,959.88
12/24/2021		DEP0015842	Utility Payment Packet UBPKT06905	Utility Billing	Outstanding	Deposit	1,671.67
12/26/2021		DEP0015845	Utility Payment Packet UBPKT06906	Utility Billing	Outstanding	Deposit	868.76
12/27/2021		DEP0015848	Utility Payment Packet UBPKT06907	Utility Billing	Outstanding	Deposit	1,095.40
12/27/2021		DEP0015851	Utility Payment Packet UBPKT06908	Utility Billing	Outstanding	Deposit	918.22
12/27/2021		DEP0015854	Utility Payment Packet UBPKT06909	Utility Billing	Outstanding	Deposit	3,400.72
12/28/2021		DEP0015857	Utility Payment Packet UBPKT06910	Utility Billing	Outstanding	Deposit	2,174.78
12/28/2021		DEP0015860	Utility Payment Packet UBPKT06911	Utility Billing	Outstanding	Deposit	2,587.01
12/28/2021		DEP0015864	Utility Payment Packet UBPKT06913	Utility Billing	Outstanding	Deposit	6,330.46
12/28/2021		DEP0015867	Utility Payment Packet UBPKT06914	Utility Billing	Outstanding	Deposit	4,942.14
12/28/2021		DEP0015870	Utility Payment Packet UBPKT06915	Utility Billing	Outstanding	Deposit	19,992.74
12/28/2021		DEP0015884	Utility Payment Packet UBPKT06917	Utility Billing	Outstanding	Deposit	2,503.59
12/28/2021		DEP0015890	Utility Payment Packet UBPKT06918	Utility Billing	Outstanding	Deposit	2,630.44
12/29/2021		DEP0015881	Utility Payment Packet UBPKT06916	Utility Billing	Outstanding	Deposit	1,615.52
12/29/2021		DEP0015888	Utility Payment Packet UBPKT06920	Utility Billing	Outstanding	Deposit	5,251.02
12/29/2021		DEP0015893	Utility Payment Packet UBPKT06923	Utility Billing	Outstanding	Deposit	37,589.41
12/29/2021		DEP0015896	Utility Payment Packet UBPKT06924	Utility Billing	Outstanding	Deposit	5,245.40
12/29/2021		DEP0015915	Utility Reverse Payment Packet UBPKT06931	Utility Billing	Outstanding	Deposit	-437.89
12/30/2021		DEP0015899	Utility Payment Packet UBPKT06925	Utility Billing	Outstanding	Deposit	1,846.69
12/30/2021		DEP0015907	Utility Payment Packet UBPKT06930	Utility Billing	Outstanding	Deposit	2,743.08
12/30/2021		DEP0015954	Utility Reverse Payment Packet UBPKT06945	Utility Billing	Outstanding	Deposit	-105.17
12/30/2021		DEP0015957	Utility Payment Packet UBPKT06946	Utility Billing	Outstanding	Deposit	3,193.38
12/31/2021		DEP0015918	Utility Payment Packet UBPKT06932	Utility Billing	Outstanding	Deposit	1,323.38
12/31/2021		DEP0015921	Utility Payment Packet UBPKT06933	Utility Billing	Outstanding	Deposit	2,324.18
						Deposit Total: (96)	732,791.67
						Utility Billing Total: (96)	732,791.67

Bank Transaction Report

Report Total: (229) **Issued Date Range: -**
-47,278.23

Summary

Bank Account	Count	Amount
030866939 Bank of the West Checking	229	-47,278.23
Report Total:	229	-47,278.23

Cash Account	Count	Amount
99 99-000-1004 Bank of the West Checking (Pooled Cash)	229	-47,278.23
Report Total:	229	-47,278.23

Transaction Type	Count	Amount
Bank Draft	46	-612,772.86
Check	64	-756,593.70
Deposit	111	1,533,270.38
Deposit Reversal	1	-3,323.84
EFT	7	-207,858.21
Report Total:	229	-47,278.23

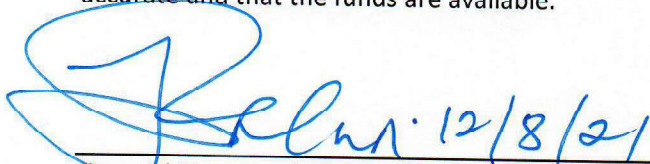


Trabuco Canyon Water District
General Fund Warrant Register
12/8/2021

Summary of Disbursements

Computer Checks	400,851.59
UB Refund Checks	-
Bank Drafts	427,454.43
Bank EFTs	169,869.09
Voided Checks	(45.77)
Total Disbursements	998,129.34

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.

 12-8-21

By: Date:



By: Date:



Trabuco Canyon Water District, CA

Bank Transaction Report

Transaction Detail

Issued Date Range: 11/10/2021 - 12/07/2021

Cleared Date Range: -

Issued Date	Cleared Date	Number	Description	Module	Status	Type	Amount
Bank Account: 030866939 - Bank of the West Checking							
11/10/2021		DFT0002364	Wex Fleet Universal	Accounts Payable	Outstanding	Bank Draft	-5,386.75
11/12/2021		10527	Lausten, Lorrie	Accounts Payable	Outstanding	Check	-5,301.28
11/12/2021		93	MWDOC	Accounts Payable	Outstanding	EFT	-155,468.51
11/15/2021		DFT0002365	Umpqua Bank	Accounts Payable	Outstanding	Bank Draft	-7,260.86
11/15/2021		DFT0002366	Cox Communications	Accounts Payable	Outstanding	Bank Draft	-111.00
11/16/2021		DFT0002368	ADP	Accounts Payable	Outstanding	Bank Draft	-2.43
11/17/2021		DFT0002367	ADP	Accounts Payable	Outstanding	Bank Draft	-98,636.33
11/17/2021		DFT0002369	CalPERS	Accounts Payable	Outstanding	Bank Draft	-9,015.25
11/17/2021		DFT0002370	CalPERS	Accounts Payable	Outstanding	Bank Draft	-13,555.89
11/17/2021		DFT0002371	CalPERS	Accounts Payable	Outstanding	Bank Draft	-4,712.03
11/18/2021		10528	ARC	Accounts Payable	Outstanding	Check	-7,453.72
11/18/2021		10529	AT&T	Accounts Payable	Outstanding	Check	-806.22
11/18/2021		10530	BAVCO Backflow Apparatus & Valve Co.	Accounts Payable	Outstanding	Check	-1,079.82
11/18/2021		10531	Belfor Property Restoration	Accounts Payable	Outstanding	Check	-43,001.11
11/18/2021		10532	Bright View Landscape Services, Inc.	Accounts Payable	Outstanding	Check	-8,942.56
11/18/2021		10533	County of Orange	Accounts Payable	Outstanding	Check	-125.00
11/18/2021		10534	CSDA	Accounts Payable	Outstanding	Check	-8,195.00
11/18/2021		10535	DMc Engineering	Accounts Payable	Outstanding	Check	-4,033.71
11/18/2021		10536	FedEx	Accounts Payable	Outstanding	Check	-89.75
11/18/2021		10537	Ferguson Waterworks	Accounts Payable	Outstanding	Check	-3,257.56
11/18/2021		10538	Ferreira Construction Company	Accounts Payable	Outstanding	Check	-92,896.02
11/18/2021		10539	Hanson Bridgett LLP	Accounts Payable	Outstanding	Check	-16,642.50
11/18/2021		10540	HighRoad Information Technology, LLC.	Accounts Payable	Outstanding	Check	-5,440.00
11/18/2021		10541	La Habra Fence Co., Inc.	Accounts Payable	Outstanding	Check	-6,146.00
11/18/2021		10542	MWH Constructors, Inc.	Accounts Payable	Outstanding	Check	-6,644.00
11/18/2021		10543	Olin Chemicals	Accounts Payable	Outstanding	Check	-1,285.50
11/18/2021		10544	Orange County Pumping, Inc.	Accounts Payable	Outstanding	Check	-1,065.00
11/18/2021		10545	Orange County Register-Freedom	Accounts Payable	Outstanding	Check	-605.87
11/18/2021		10546	O'Reilly Automotive, Inc.	Accounts Payable	Outstanding	Check	-30.65
11/18/2021		10547	PSOMAS	Accounts Payable	Outstanding	Check	-1,675.00
11/18/2021		10548	S & J Supply Company	Accounts Payable	Outstanding	Check	-6,949.62
11/18/2021		10549	Santiago Aqueduct Commission	Accounts Payable	Outstanding	Check	-9,727.00
11/18/2021		10550	Sierra Analytical	Accounts Payable	Outstanding	Check	-1,160.00
11/18/2021		10551	Southern Counties Lubricants. LLC	Accounts Payable	Outstanding	Check	-151.66
11/18/2021		10552	Stadia Realty, Inc	Accounts Payable	Outstanding	Check	-1,000.00
11/18/2021		10553	Stanley Security Solutions	Accounts Payable	Outstanding	Check	-6,869.61

Bank Transaction Report

Issued Date Range: -

Issued Date	Cleared Date	Number	Description	Module	Status	Type	Amount
11/18/2021		10554	TAB AnswerNetwork	Accounts Payable	Outstanding	Check	-166.85
11/18/2021		10555	Tekdraulics	Accounts Payable	Outstanding	Check	-59,348.12
11/18/2021		10556	Touch Tel Mobile	Accounts Payable	Outstanding	Check	-625.00
11/18/2021		10557	Trench Shoring Company	Accounts Payable	Outstanding	Check	-479.49
11/18/2021		10558	TrucParCo	Accounts Payable	Outstanding	Check	-2,663.52
11/18/2021		10559	Underground Service Alert/SC	Accounts Payable	Outstanding	Check	-136.99
11/18/2021		10560	Vituity - Urgent Care Services	Accounts Payable	Outstanding	Check	-196.00
11/18/2021		10561	Weck Laboratories, Inc.	Accounts Payable	Outstanding	Check	-221.60
11/18/2021		10562	Xylem	Accounts Payable	Outstanding	Check	-52,345.76
11/18/2021		DFT0002373	Lowe's	Accounts Payable	Outstanding	Bank Draft	-932.91
11/18/2021		DFT0002374	Home Depot	Accounts Payable	Outstanding	Bank Draft	-1,961.13
11/18/2021		DFT0002375	The Toll Roads	Accounts Payable	Outstanding	Bank Draft	-140.00
11/18/2021		DFT0002376	Cox Communications	Accounts Payable	Outstanding	Bank Draft	-689.96
11/19/2021		94	ACWA/JPIA - Benefits (WC & Life)	Accounts Payable	Outstanding	EFT	-536.60
11/19/2021		95	ALS - Truesdail Laboratories	Accounts Payable	Outstanding	EFT	-12,748.50
11/19/2021		96	Synoptek, LLC	Accounts Payable	Outstanding	EFT	-551.00
11/19/2021		97	Tokay Software	Accounts Payable	Outstanding	EFT	-380.00
11/19/2021		98	United Water Works, Inc.	Accounts Payable	Outstanding	EFT	-184.48
11/24/2021		DFT0002377	Wage Works, Inc.	Accounts Payable	Outstanding	Bank Draft	-75.00
11/24/2021		DFT0002378	ADP	Accounts Payable	Outstanding	Bank Draft	-112.00
11/24/2021		DFT0002379	AT&T Mobility	Accounts Payable	Outstanding	Bank Draft	-3,313.50
11/29/2021		10397	West Marine Products Inc. Reversal	Accounts Payable	Outstanding	Check Reversal	45.77
11/29/2021		10563	West Marine Products Inc.	Accounts Payable	Outstanding	Check	-45.77
11/29/2021		DFT0002380	ADP	Accounts Payable	Outstanding	Bank Draft	-45.56
11/29/2021		DFT0002381	The Toll Roads	Accounts Payable	Outstanding	Bank Draft	-140.00
12/01/2021		DFT0002383	CalPERS	Accounts Payable	Outstanding	Bank Draft	-42,973.84
12/01/2021		DFT0002384	CalPERS	Accounts Payable	Outstanding	Bank Draft	-5,266.88
12/01/2021		DFT0002385	CalPERS	Accounts Payable	Outstanding	Bank Draft	-9,015.25
12/01/2021		DFT0002386	CalPERS	Accounts Payable	Outstanding	Bank Draft	-13,335.97
12/01/2021		DFT0002387	CalPERS	Accounts Payable	Outstanding	Bank Draft	-5,150.39
12/01/2021		DFT0002388	Guardian	Accounts Payable	Outstanding	Bank Draft	-4,150.84
12/01/2021		DFT0002389	VSP	Accounts Payable	Outstanding	Bank Draft	-814.55
12/01/2021		DFT0002390	Cintas	Accounts Payable	Outstanding	Bank Draft	-48.65
12/01/2021		DFT0002391	Cintas	Accounts Payable	Outstanding	Bank Draft	-243.71
12/01/2021		DFT0002392	Cintas	Accounts Payable	Outstanding	Bank Draft	-226.88
12/01/2021		DFT0002393	Cintas	Accounts Payable	Outstanding	Bank Draft	-1,677.06
12/01/2021		DFT0002394	EPX	Accounts Payable	Outstanding	Bank Draft	-5,599.82
12/01/2021		DFT0002395	USDA, Forest Service	Accounts Payable	Outstanding	Bank Draft	-305.00
12/01/2021		DFT0002396	USDA, Forest Service	Accounts Payable	Outstanding	Bank Draft	-99.22
12/02/2021		10564	Tuttle-Click Ford	Accounts Payable	Outstanding	Check	-44,048.33
12/02/2021		DFT0002382	ADP	Accounts Payable	Outstanding	Bank Draft	-103,595.06
12/02/2021		DFT0002397	Southern California Edison	Accounts Payable	Outstanding	Bank Draft	-85,929.54
12/02/2021		DFT0002400	Pace Payment Systems, Inc.	Accounts Payable	Outstanding	Bank Draft	-22.64

Bank Transaction Report

Issued Date Range: -

Issued Date	Cleared Date	Number	Description	Module	Status	Type	Amount
12/03/2021		DFT0002398	Shred-it USA LLC	Accounts Payable	Outstanding	Bank Draft	-68.00
12/03/2021		DFT0002399	Santa Margarita Water District	Accounts Payable	Outstanding	Bank Draft	-2,840.53
Bank Account 030866939 Total: (81)							-998,129.34
Report Total: (81)							-998,129.34

Summary

Bank Account	Count	Amount
030866939 Bank of the West Checking	81	-998,129.34
Report Total:	81	-998,129.34

Cash Account	Count	Amount
99 99-000-1004 Bank of the West Checking (Pooled Cash)	81	-998,129.34
Report Total:	81	-998,129.34

Transaction Type	Count	Amount
Bank Draft	36	-427,454.43
Check	38	-400,851.59
Check Reversal	1	45.77
EFT	6	-169,869.09
Report Total:	81	-998,129.34



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

GENERAL FUND PAYROLL WARRANT REGISTER

For the Month of: December 2021

\$ 211,680.59

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.


General Manager / Assistant General Manager

 Ed Mendez
By Date 1-12-22


By Date 1/12/22

Net Pay	Checks	.00
	Direct Deposits	68,933.77
	Subtotal Net Pay	68,933.77
	Adjustments	.00
	Total Net Pay Liability (Net Cash)	68,933.77

Taxes		You are responsible for Depositing these amounts		Amount debited from your account		
Federal	Agency	Rate	EE withheld	ER contrib.	EE withheld	ER contrib.
	Federal Income Tax				13,841.96	
	Earned Income Credit Advances					
	Social Security				3,878.76	3,878.75
	Medicare				1,512.40	1,512.39
	Medicare Surtax				130.97	
	Federal Unemployment Tax					
	Subtotal Federal				19,364.09	5,391.14
	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				19,364.09	5,391.14
						24,755.23
State	CA State Income Tax				5,909.74	
	CA State Unemployment Insurance-ER	3.0000				13.23
	CA State Disability Insurance-EE				535.96	
	Subtotal CA				6,445.70	13.23
						6,458.93
	Total Taxes		.00	.00	25,809.79	5,404.37
						31,214.16
	Amount ADP Debited From Account XXXXX6939			Tran/ABA	XXXXXXXXXX	31,214.16
Other	ADP Direct Deposit				68,933.77	
Transfers	Amount ADP Debited From Account XXXXX6939			Tran/ABA	XXXXXXXXXX	68,933.77
	Total Amount ADP Debited From Your Accounts					100,147.93

Excludes Taxes That Are Your Responsibility
25 Employee Transactions

Net Pay	Checks		332.50		
	Direct Deposits		73,036.23		
	Subtotal Net Pay				73,368.73
	Adjustments		.00		
	Total Net Pay Liability (Net Cash)				73,368.73

Federal	Agency	Rate	You are responsible for		Amount debited	
			EE withheld	ER contrib.	EE withheld	ER contrib.
	Federal Income Tax				12,076.44	
	Earned Income Credit Advances					
	Social Security				7,015.71	7,015.72
	Medicare				1,640.77	1,640.77
	Medicare Surtax					
	Federal Unemployment Tax					
	Subtotal Federal		20,732.92	8,656.49		29,389.41
	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					

State			EE withheld	ER contrib.	Total	
	Total Federal		20,732.92	8,656.49	29,389.41	
	CA State Income Tax				5,222.13	
	CA State Unemployment Insurance-ER 3000				2,340.11	
	CA State Disability Insurance-EE				1,212.28	
	Subtotal CA		6,434.41	2,340.11	8,774.52	
	Total Taxes	.00	.00	27,167.33	10,996.60	38,163.93

Amount ADP Debited From Account XXXX6939 Tran/ABA XXXXXXXXXX 38,163.93 Excludes Taxes That Are Your Responsibility

Other **ADP Direct Deposit** 73,036.23 29 Employee Transactions

Transfers **ADP Check** 332.50
 Amount ADP Debited From Account XXXX6939 Tran/ABA XXXXXXXXXX 73,368.73

Total Amount ADP Debited From Your Accounts 111,532.66

TRABUCO CANYON WATER DISTRICT
REGULAR BOARD MEETING | JANUARY 20, 2022

CONSENT CALENDAR

ITEM 3: EXECUTIVE COMMITTEE MEETING

RECOMMENDED ACTION:

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

1. *December 7, 2021*



TRABUCO CANYON WATER DISTRICT EXECUTIVE COMMITTEE MEETING RECAP | DECEMBER 7, 2021

DIRECTORS PRESENT

Vice President Stephen Dopudja, Committee Chair
President Don Chadd, Committee Member

STAFF PRESENT

Fernando Paludi, General Manager
Michael Perea, Assistant General Manager
Lisa Marie Sangi, Executive Assistant

CONSULTANT PRESENT VIA CONFERENCE CALL

Ms. Claire Collins, Hanson & Bridgett

PUBLIC PRESENT

There were no members of the public present

CALL MEETING TO ORDER

Vice President Dopudja called the December 7, 2021 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

No comments were received.

REPORT FROM THE GENERAL MANAGER

Mr. Paludi had no comments.

BOARD AGENDA MATTERS

ITEM 1: EXECUTIVE COMMITTEE MEETING RECAP

Mr. Paludi presented the Executive Committee Meeting Recap for Committee review in accordance with the agenda.

RECOMMENDED ACTION:

The Committee recommended that the November 8, 2021 Executive Committee meeting recap be forwarded to the Board of Directors for approval (Consent Calendar).

**TRABUCO CANYON WATER DISTRICT
EXECUTIVE COMMITTEE MEETING RECAP | DECEMBER 7, 2021**

ADMINISTRATIVE MATTERS

ITEM 2: DISCUSSION AND POSSIBLE ACTION(S) CONCERNING ADOPTION OF ORDINANCE NO. 2021-22, SUPERSEDING ORDINANCE NO. 2008-18 AND ESTABLISHING A WATER CONSERVATION AND SUPPLY SHORTAGE PROGRAM

Mr. Paludi introduced this matter for Committee consideration, and he provided a brief report on the current statewide drought conditions. Mr. Paludi added that the District is required by the Department of Water Resources (DWR) to update its existing Water Conservation Ordinance with an Ordinance that meets the minimum standards and supersedes the previous version. Ms. Collins provided a brief overview of certain provisions of the proposed Ordinance, and she recommended the Board of Directors declare a Level 2 Water Supply Shortage Conditions consistent with the Board-adopted Water Shortage Contingency Plan (WSCP). Discussion occurred concerning hardship waivers and the impact of fuel modification zones for larger parcels in unincorporated areas and homeowner association managed properties.

RECOMMENDED ACTION:

The Committee recommended the Board of Directors adopt Ordinance No. 2021-22, Superseding Ordinance No. 2008-18 and Establishing a Water Conservation and Supply Shortage Program. (Action Calendar)

DISCUSSION MATTERS

ITEM 3: BOARD AGENDA PLANNING CALENDAR

Mr. Paludi presented this matter for Committee consideration, and he provided a handout highlighting certain proposed Board agenda planning calendar updates including, but not limited to:

December 2021

- Fiscal Year 2020/2021 Financial Report (Audit)
- Water Conservation Ordinance
- Water Shortage Contingency Plan Level 2 Declaration
- Board Officer Election & Committee/Representative Assignments

January 2022

- District Treasurer's Annual Statement of Investment Policy
- Action on Financial Borrowing
- Trabuco Canyon Improvement Corporation
- Trabuco Canyon Public Finance Authority

RECOMMENDED ACTION:

OTHER MATTERS

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

Mr. Paludi reported that the Southern California Water Coalition has scheduled Quarterly Luncheon for January 21, 2022, and that he has reached out to neighboring agencies on sharing a table with the District.

RECOMMENDED ACTION:

None

ADJOURNMENT

Vice President Dopudja adjourned the December 7, 2021 Executive Committee Meeting at 4:50 PM.

**TRABUCO CANYON WATER DISTRICT
REGULAR BOARD MEETING | JANUARY 20, 2022**

ACTION CALENDAR

ADMINISTRATIVE MATTERS

**ITEM 4: 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. The attached spreadsheet provides a recap of the meetings, seminars, 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 2021/2022 Budgeted Board Expenses: \$38,400

ENVIRONMENTAL COMPLIANCE:

Not applicable

COMMITTEE STATUS:

This matter was reviewed with the Finance/Audit Committee.

RECOMMENDED ACTIONS:

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

1. *December 2021*

EXHIBIT(S):

1. Directors Fees and Expenses Monthly Report for December 2021
2. Directors Future/Tentative Meeting/Attendance Schedule for Calendar Year 2022


CONTACTS (staff responsible): PALUDI/PEREA/SANGI

**TRABUCO CANYON WATER DISTRICT
DIRECTORS' FEES AND EXPENSES MONTHLY REPORT | DECEMBER 2021**

MEETING DESCRIPTION	ACOSTA	CHADD	DOPUDJA	MANDICH	SAFRANSKI
DISTRICT MEETINGS					
Engineering/Operational Committee Meeting			12/01/21	12/01/21	
District Property Ad Hoc Committee			12/06/21	12/06/21	
Executive Committee Meeting		12/07/21	12/07/21		
Finance/Audit Committee Meeting		12/08/21		12/08/21	
Individual Meeting with General Manager	12/13/21	12/14/22	12/14/22	12/13/21	12/14/22
Regular Board Meeting		12/16/21	12/16/21	12/16/21	12/16/21
REPRESENTATIVE MEETINGS					
City of Rancho Santa Margarita Council Meeting	12/08/21				
City of Rancho Santa Margarita Council Meeting					
City of Rancho Santa Margarita City Planning Commission Meeting	12/01/21				
Independent Special Districts of Orange County - Luncheon Meeting		12/07/21			
Independent Special Districts of Orange County - Quarterly/Meeting					
Santiago Aqueduct Commission Meeting(SAC)		12/16/21			
South Orange County Agencies Group					
South Orange County Wastewater Authority (SOCWA) Regular Board Meeting			12/09/21		
South Orange County Wastewater Authority (SOCWA) Finance Meeting					
MO. South Orange County Integrated Regional Watershed Management Executive Committee				12/30/21	
QRTL South Orange County Integrated Regional Watershed Management Executive Committee				12/02/21	
Water Advisory Committee of Orange County Meeting (WACO)	12/10/21				
ACWA Fall Conference	12/01/22				12/01/22
ACWA Fall Conference	12/02/22				12/02/22
NUMBER OF MEETINGS ATTENDED	6	4	6	7	4
FEES (\$125 per each meeting*)	\$750.00	\$500.00	\$750.00	\$875.00	\$500.00
DIRECT REIMBURSABLE EXPENSES					
INDIRECT REIMBURSABLE EXPENSES					
INDIRECT REIMBURSABLE EXPENSES TOTALS					
TOTAL					
	\$750.00	\$500.00	\$750.00	\$875.00	\$500.00
* Maximum per diem per day is one; maximum per diems per month is 10					
DIRECTOR SIGNATURE					

TRABUCO CANYON WATER DISTRICT | 2022 PUBLIC MEETING AND CONFERENCE CALENDAR

		2022											
LINE ITEM	MEETING DESCRIPTION	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
DISTRICT PUBLIC MEETINGS													
1	Executive Committee Meeting	TBD			TBD			TBD			TBD		
2	Engineering/Operational Committee Meeting	01/05/22	02/02/22	03/02/22	04/06/22	05/04/22	06/01/22	07/06/22	08/03/22	09/07/22	10/05/22	11/02/22	12/07/22
3	Finance/Audit Committee Meeting	01/12/22	02/09/22	03/09/22	04/13/22	05/11/22	06/08/22	07/13/22	08/10/22	09/14/22	10/12/22	11/09/22	12/14/22
4	Regular Board Meeting	01/20/22	02/17/22	03/17/22	04/21/22	05/19/22	06/16/22	07/21/22	08/18/22	09/22/22	10/20/22	11/17/22	12/22/22
5	District Properties Ad Hoc Committee Meeting	-	-	-	-	-	-	-	-	-	-	-	-
PUBLIC MEETINGS													
6	City of RSM City Council Meeting - Meeting No. 1	01/12/22	02/09/22	03/09/22	04/13/22	05/11/22	06/08/22	07/13/22	08/10/22	09/14/22	10/12/22	11/09/22	12/14/22
7	City of RSM City Council Meeting - Meeting No. 2	01/26/22	02/23/22	03/23/22	04/27/22	05/25/22	06/22/22	07/27/22	08/24/22	09/28/22	10/26/22	11/23/22	12/28/22
8	Independent Special Districts of Orange County Meeting	01/04/22	02/01/22	03/01/22	04/05/22	05/03/22	06/07/22	07/05/22	08/02/22	09/06/22	10/04/22	11/01/22	12/06/22
9	Independent Special Districts of Orange County Meeting	01/27/22	-	-	04/28/22	-	-	07/28/22	-	-	10/27/22	-	-
10	Orange County Local Agency Formation Commission (OC LAFCO)	01/12/22	02/09/22	03/09/22	04/13/22	05/11/22	06/08/22	07/13/22	08/10/22	09/14/22	10/12/22	11/09/22	12/14/22
11	Santiago Aqueduct Commission Meeting	-	-	03/17/22	-	-	06/16/22	-	-	09/15/22	-	-	12/15/22
12	Quarterly South Orange County Integrated Regional Watershed Management Executive Committee	-	-	03/03/22	-	05/05/22	-	-	08/04/22	-	-	11/03/22	-
13	Monthly South Orange County Integrated Regional Watershed Management Executive Committee	01/27/22	02/24/22	03/24/22	04/28/22	05/26/22	06/23/22	07/28/22	08/25/22	09/22/22	10/27/22	11/24/22	12/22/22
14	South Orange County Water Agencies Group Meeting*	01/27/22	-	03/24/22	-	05/26/22	-	07/28/22	-	09/22/22	-	11/24/22	-
15	South Orange County Wastewater Authority Regular Board Meeting	01/06/22	02/03/22	03/03/22	04/07/22	05/05/22	06/02/22	07/07/22	08/04/22	09/01/22	10/06/22	11/03/22	12/01/22
16	Water Advisory Committee of Orange County	01/07/22	02/04/22	03/04/22	04/01/22	05/06/22	06/03/22	07/01/22	08/05/22	09/02/22	10/07/22	11/04/22	12/02/22
CONFERENCES													
17	ACWA Spring Conference - Sacramento, CA					5/3 - 5/6							
18	ACWA Fall Conference - Indian Wells, CA											11/29 - 12/2	
19	CSDA Annual Conference -Palm Springs, CA								8/22 - 8/25				
20	CSDA GM Leadership Summit - Coronado, CA						6/19 - 6/21						
21	CSDA SDLA Conference - Napa, CA									9/18 - 9/21			

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

**TRABUCO CANYON WATER DISTRICT
REGULAR BOARD MEETING | JANUARY 20, 2022**

ACTION CALENDAR

ADMINISTRATIVE MATTERS

ITEM 5: DISCUSSION AND APPROVAL OF ADMINISTRATIVE FACILITY BOARD ROOM USE APPLICATION AND PERMIT

Trabuco Canyon Water District (District) owns and operates the Administration Facility in Dove Canyon Plaza, and the Board of Directors (Board) have approved the use of the Board Room for community group meetings and small private events. The last time the Board adopted an updated Facility Use Policy (“Policy”) was at the February 21, 2007 Regular Board Meeting. Prior to the COVID-19 pandemic, the Board Room was used on a monthly recurring basis by Non-Profit Groups, such as Homeowner Associations (HOAs), Youth Sports Groups, and other local Non-Profit Organizations, and this Policy has served as a guidance document for District staff for the use of the Board Room.

District staff have worked with General Legal Counsel and ACWA/JPIA, the District’s insurer, to develop a new streamlined application and permit for use of the Board Room which allows for the Board Room to continue to serve as a community center for local stakeholders and protect the District in the event of damages to the facility.

Updated Information

This matter was reviewed with the Board at the December 16, 2021 Regular Board Meeting to which the Board provided additional input and comments to District staff on the proposed application and permit. District staff and General Legal Counsel have revised the proposed application and permit to incorporate the Board’s input, and staff has reviewed the updates with the Executive Committee on January 10, 2022.

FUNDING SOURCE:

Not applicable

FISCAL IMPACT:

Potential revenue due to private event rentals

ENVIRONMENTAL COMPLIANCE:

Not applicable

COMMITTEE STATUS:

This matter was reviewed with the Executive Committee.

RECOMMENDED ACTION:

Approve the proposed District Board Room Use Application and Permit as revised and rescind the Facility Use Policy adopted on February 21, 2007.

EXHIBITS:

1. DRAFT Board Room Use Application and Permit

CONTACTS (staff responsible): PALUDI/PEREA



Board Room Use Application and Permit Terms and Conditions

1. Limitations. The Permit is limited to the above-specified premises, purposes, dates, time, and duration. Trabuco Canyon Water District (TCWD or District) makes these facilities available for public use as a public service and reserves the right to approve or deny applications in the General Manager's, or designee's, sole discretion.

2. Compliance with Rules; Supervision. Permittee must comply with and cause its employees, officers, agents, representatives, licensees, volunteers, and invitees (collectively, "**Permittee's Invitees**") to comply with and be subject to all these Terms and Conditions, and with any and all instructions and directions of authorized agents of Trabuco Canyon Water District ("**District**"). Permittee shall continuously supervise and control Permittee's Invitees. Each person entering the Premises under this Permit will be considered to be acting as Permittee's agent and enters at their own risk.

3. Inspection. The District representatives may enter and inspect the facilities at any time, without notice.

4. Reservations. Reservations are handled on a first come, first served basis. No user or group may use a given facility more than one time per month.

5. Alcoholic Beverages. The District reserves the right to determine whether or not alcoholic beverages may be served. Alcoholic beverages must not be or served to anyone who is under 21 years of age. If serving alcohol, Permittee must obtain and provide proof of Alcohol Liability Insurance and onsite security detail acceptable to the District.

6. Prohibitions

- a) No Discrimination. Groups using the facility must not discriminate against anyone with regard to race, creed, color, or national origin.
- b) No Sports. Sporting activities, events, or competitions are not permitted.
- c) No Political Events. Political events are not permitted.
- d) No Worship. Facilities may be used by religiously based organizations, however, meetings or activities involving chanting, worship, or prayer are not permitted.

e) Material Posting and Distribution. No signs, posters, handbills or fliers may be displayed, posted or distributed inside or outside the facilities without the District's prior approval. Approved materials must be removed at the conclusion of the meeting.

f) No Animals. Animals are not allowed at or inside any facility, except service animals.

7. Disclaimer. The following disclaimer must be included in any published announcement about this event:

"Trabuco Canyon Water District makes its facilities available for use by residents and non-profit organizations merely as a public service, but does not, by allowing this use, endorse or support the purpose of the event or its sponsor."

8. Assumption of Risk; Waiver. Permittee assumes the risk of bodily injury or death, or damage to property, for Permittee and Permittee's Invitees. Permittee waives any claims, causes of action and demands, including those for any bodily injury, wrongful death, or property damage, that Permittee may have, now or in the future, against the District and all the District's directors, officers, employees, agents, representatives, affiliates, sponsors, volunteers, and their respective employees ("**District Parties**") arising out of use of the Premises. Permittee acknowledges that the District Parties will not be responsible or liable for any injury (including death), damage, loss, or expense, to their person or property incurred as a result of Permittee or Permittee's Invitees using the Premises, and Permittee covenants not to sue the District or District Parties.

9. Possible COVID-19 and Other Health Risks. State and local authorities have imposed certain restrictions and made certain recommendations regarding personal protective measures (including avoiding certain non-essential activities, engaging in social distancing, and wearing masks) to mitigate the spread of and minimize the likelihood of contracting COVID-19. Permittee understands that entering the Premises may subject Permittee to risks related to COVID-19, including, but not limited to, coming in contact with persons who may have COVID-19 and/or contracting COVID-19. Permittee voluntarily assumes the risk of Permittee or Permittee's Invitees being exposed to COVID-19 by using the Premises, and the risk that exposure may result in personal injury, illness, permanent disability, or death.



Board Room Use Application and Permit Terms and Conditions

10. Warranty; Duty. The District makes no representation that the Premises are fit for any particular use, including Permittee's intended purposes specified above, nor that the Premises are free from defects, conditions or risks. Permittee has inspected or will inspect the Premises and accepts the Premises "AS IS." District will have no duty to inspect the Premises or to warn any person of any latent or patent defect, condition, or risk that may be encountered in Permittee's use of the Premises under the Permit.

11. Responsibility for Premises. Permittee shall close all doors and lock all locks when leaving the Premises at the end of each day and during any times when it is not using the Premises. Permittee shall not remove any property from the Premises without the District's express prior consent. Upon expiration or termination of the Permit, Permittee shall restore the Premises to the condition of Premises prior to Permittee's entry. Permittee will be liable for and shall pay to the District the cost of repairing all damage of any kind whatsoever to the Premises and any District property or facilities, landscaping and structures, including damage and expense from the loss of use, arising from or related to any acts or omissions of Permittee or Permittee's Invitees, unless the foregoing are held by a court of competent jurisdiction to have been caused solely by the gross negligence or willful misconduct of District.

12. Fee. District does not charge fees for use of its Board Room for Non-Profit users. Private events are charged an hourly rate for use of the Board Room subject to availability and District approval. Applicant shall not charge for entrance to the facilities and shall not solicit contributions. Furthermore, no products, services, food, or beverages may be sold at the Premises.

13. Release and Indemnity. Permittee hereby releases the District from liability for, and Permittee shall indemnify, defend and hold District and its employees, officers, agents, representatives, licensees, and invitees, and its and their respective successor and assigns (collectively, the "**Indemnitees**") harmless from and against, any and all claims, losses, liabilities, costs and expenses, including attorney's fees (collectively, the "**Claims**") for damage to real, personal, tangible or intangible property (including Permittee's Invitees) including loss of use of any such property, and all Claims for bodily injury, sickness disease or death of any person (including any Permittee's Invitees), arising from or in any way related to (i) any entry upon the Premises or other activity under the Permit by Permittee or Permittee's Invitees or (ii) any breach by Permittee of its obligations under the Permit, unless and to the extent any of

the foregoing are held by a court of competent jurisdiction to have been caused solely by the gross negligence or willful misconduct of the Indemnitees.

14. General Liability Insurance. District reserves the right to require Permittee to provide general liability insurance for the event. If required by the District, prior to any entry under the Permit, Permittee shall furnish District with a policy or certificate of comprehensive general liability insurance carried by Permittee, covering the occurrences described in Paragraph 8 hereof regardless of when any Claims respecting such occurrences are made, endorsed to include the District as additional insured and including a 10-day notice to District in the event of cancellations or any material change in coverage. In addition, this insurance as respects any claim, loss or liability arising directly or indirectly from Permittee's activities under the Permit, and any other insurance maintained by District must be considered noncontributing. This liability insurance must be in a form satisfactory to District and written with limits of liability no less than the greater of \$2,000,000 (or for such greater amount as may reasonably be required by the District) combined single limit of liability carried by Permittee. If Permittee carries more liability insurance than the minimum amount required above, the certificate or policy delivered to District must evidence this greater amount. District will not be responsible for any costs of premiums or other charges for such insurance. Nothing in this paragraph will limit Permittee's obligations under these Terms and Conditions.

15. Non-Transferability. The Permit cannot be transferred or assigned by Permittee.

16. Termination. The Permit is revocable at any time at the sole option and discretion of District, and Permittee shall peaceably surrender the Premises upon written or oral demand given by District or its authorized representative to Permittee or any of Permittee's Invitees. Permittee will not hold the District liable for any costs, damages, or other expenses if the District exercises its discretion and revokes the Permit. The obligations and liabilities of Permittee under Paragraph 9 of these Terms and Conditions shall survive the expiration or termination of this Permit.

17. Other Special Conditions. Permittee agrees to all special conditions for the applicable facility, as described below.



Board Room Use Application and Permit Terms and Conditions

SPECIAL CONDITIONS – BOARD ROOM

1. **Operating Hours.** The facility is generally open from 5 p.m. to 10 p.m. Monday – Friday, and 8 a.m. to 10 p.m. on weekends subject to availability and District approval.

2. **Capacity.** The capacity of the Board Meeting is 50 people if the room is set up classroom style. 80 people with standing room only. At the District's sole option and discretion, capacity may be restricted at any time to comply with State and local regulations, including but not limited to COVID-19.

3. **Keys.** The District will provide a key card/fob for entry to the Board Room at its discretion. District will only provide a key card/fob to the Permittee or its representative authorized in writing. Permittee must notify the District in advance if the Permittee's representative has been authorized.

Private event users will not be issued a key card/fob and will be provided facility access by a District representative.

4. **Parking.** Parking areas are only for vehicle parking and may not be used by Permittee and Permittee's Invitees for other purposes. The District reserves the right to restrict parking to assigned areas of the parking lot. The District encourages carpooling. Do not remove the parking barriers. Permittee must not reserve spaces for itself or its invitees or cover the handicap parking signs in anyway. Parking spaces are available to other users.

5. Prohibitions

- No dogs or other animals, except for service animals. Proof of registration as a service animal must be made available to the District upon request.
- No food trucks or mobile video game trailers are allowed.
- No inflatables, bounce houses, jumpers/trampolines, water slides or E-Z Up canopies/pop up shade structures are allowed.
- No organized games, activities, or music is allowed outside of the Administrative Facility. This includes the patio areas. Climbing trees is also prohibited.
- No outside heat sources.
- Do not tape, staple, nail, or pin decorations to the walls.

6. Cleanup Requirements

- Wipe down tables and chairs and return them to storage rooms (cleaning supplies are not provided).
- All trash must be removed from the Board Room. Please place full trash bags inside the trash dumpsters located in the parking lot and make sure the lid is closed.
- Turn off temperature timer for the heater/air conditioner before leaving.
- Remove all decorations before departing the Board Room as well as any signage or balloons.
- Turn off all lights.
- Lock all doors and vacate the Premises by 10 p.m.

7. **Private Event Rates** The Board Room is available for Private Events, and the hourly rental rates are as follows:

Customer		Non-Customer	
Weekday	Weekend	Weekday	Weekend
\$115.00	\$135.00	\$160.00	\$185.00

Weekend use requires a minimum four-hour rental.

8. **Security/Cleaning Deposit** The District requires a security/cleaning deposit payable to the District prior to the use of the Board Room for both Non-Profit Users and Private Event Users. The cost for any damages or cleaning after use of the Board Room will be paid from the deposit.

Security/Cleaning Deposit Amount: \$500

9. **Equipment.** A/V equipment is available for public use with prior coordination with District staff. District staff will review equipment operation with Permittee prior to scheduled event. Please ensure all A/V equipment is turned off when you leave the room.

**TRABUCO CANYON WATER DISTRICT
REGULAR BOARD MEETING | JANUARY 20, 2022**

ACTION CALENDAR

ENGINEERING MATTERS

ITEM 6: DISCUSSION AND POSSIBLE ACTION(S) CONCERNING ORANGE COUNTY RESCUE MISSION DOMESTIC WATER SERVICE RELOCATION

The St. Michael’s Abbey site, previously owned by the Norbertine Fathers, has recently been sold to a non-profit group, the Orange County Rescue Mission (Mission). The Mission runs a transitional homeless shelter offering food, shelter, education and work training to those in need. The site consists of approximately 32.4 acres located on the east side of El Toro Road just south of the intersection of Live Oak Canyon Road. The District has an eight-inch water pipeline, two fire hydrants and two services on-site. Staff would like to relocate the District facilities to within the right-of way and quit claim the onsite easement and facilities. As such, Staff has analyzed the water demands and prepared a set of construction plans for the relocations.

In December 2021, District Staff received the following three construction bids for the relocation project:

CONSTRUCTION BIDS	
GCI Construction	\$106,078
Ferreira Construction	\$106,310
T. E. Roberts Inc.	\$138,055

Staff has reviewed the bids and is recommending GCI Construction for the Service Relocation Project at the Orange County Rescue Mission.

FUNDING SOURCE:

General Fund and Developer

FISCAL IMPACT:

\$145,000 (including Engineering/Inspection)

ENVIRONMENTAL COMPLIANCE:

Notice of Exemption

COMMITTEE STATUS:

This matter was reviewed with the Engineering/Operational Committee.

RECOMMENDED ACTION:

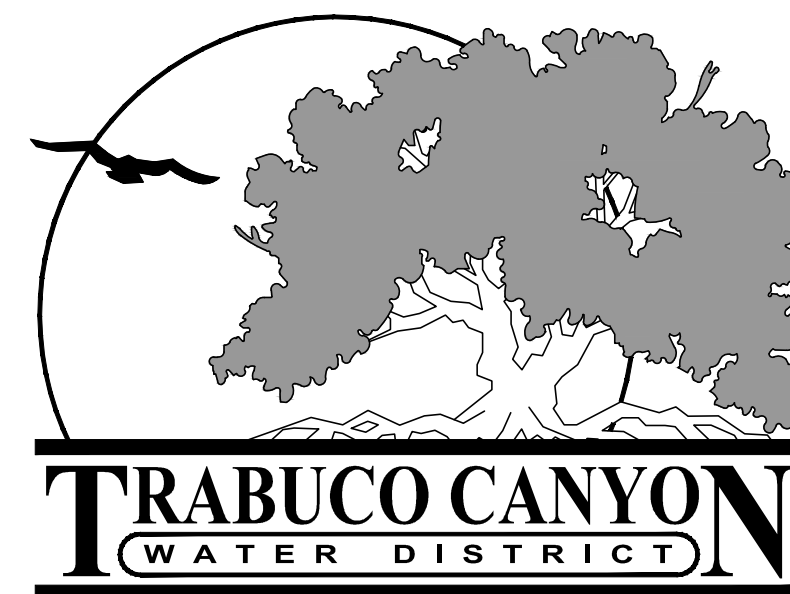
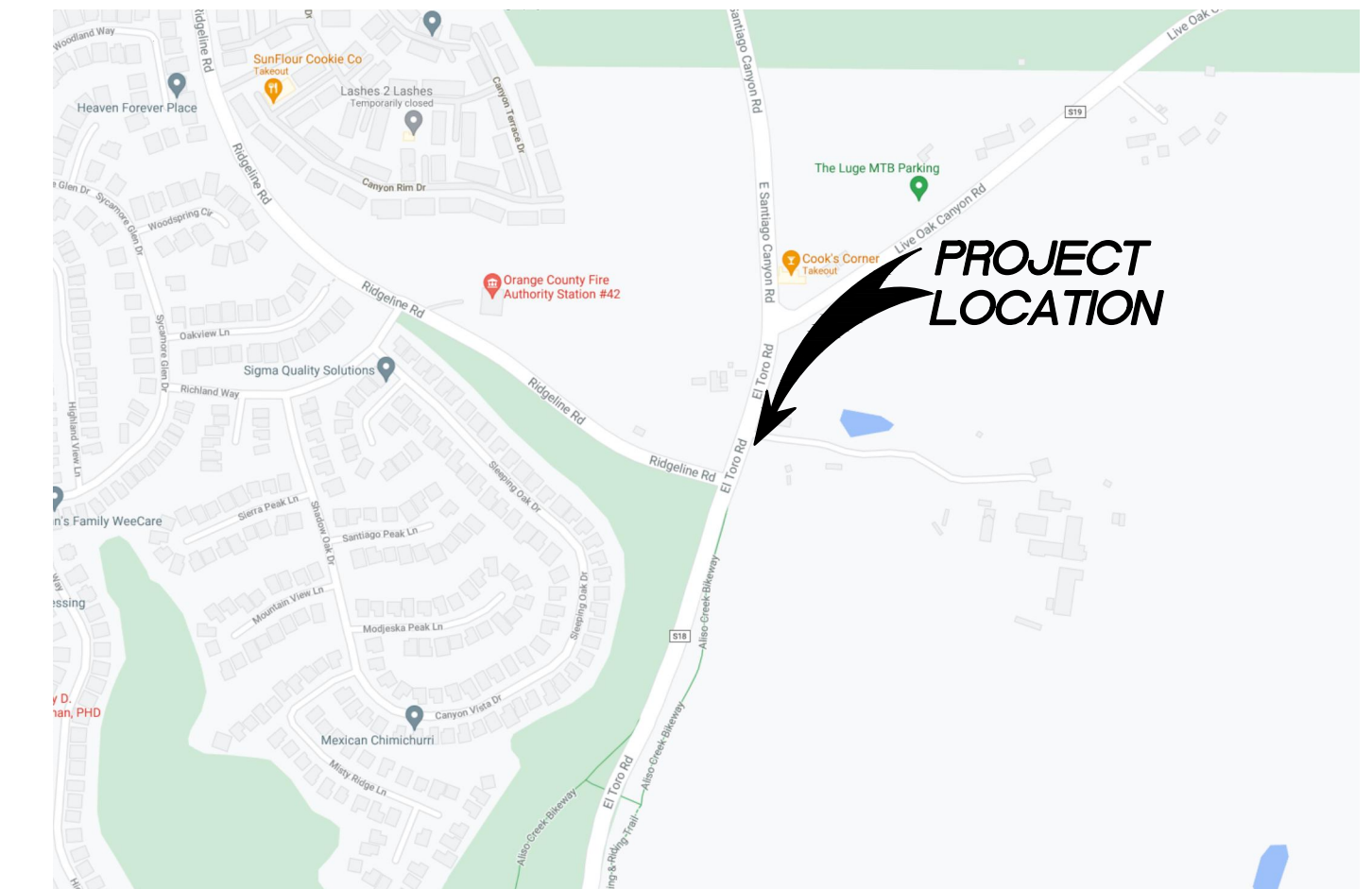
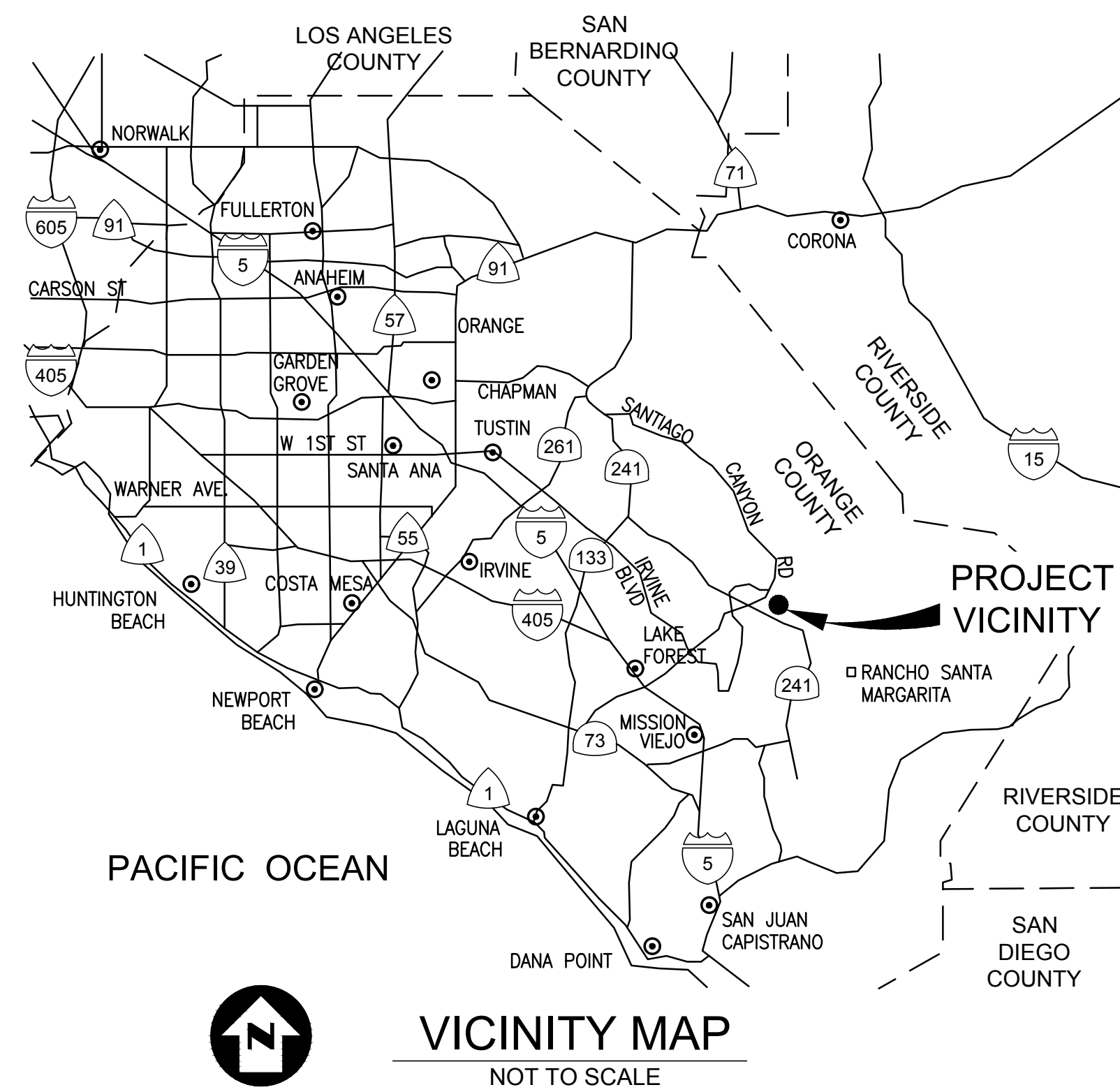
Award a Construction Contract to GCI Construction for the Orange County Rescue Mission Domestic Water Service Relocation in the amount of \$106,078, with a contingency of \$10,000, for a not to exceed amount of \$116,078.

EXHIBITS:

1. DRAFT Construction Plans

CONTACTS (staff responsible): PALUDI/LAUSTEN

ORANGE COUNTY RESCUE MISSION NEW DOMESTIC, IRRIGATION AND FIRE WATER SERVICE CONNECTIONS



JANUARY 2022

INDEX OF SHEETS

SHEET NO.	SHEET TITLE
1	TITLE SHEET
2	GENERAL NOTES AND LEGEND
3	WATER LINE BLOWUP
4	WATER LINE OVERVIEW
5	DETAILS
6	DETAILS

APPROVED:
TRABUCO CANYON WATER DISTRICT

LORRAINE S. LAUSTEN R.C.E. 67027 DATE
DISTRICT ENGINEER

DOMESTIC WATER NOTES:

- THE DOMESTIC WATER SYSTEM AS SHOWN ON THESE PLANS SHALL BE CONSTRUCTED BY THE CONTRACTOR IN ACCORDANCE WITH TRABUCO CANYON A "DESIGN CRITERIA AND STANDARD DRAWINGS FOR WATER AND SEWER FACILITIES", "STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION" (GREEN BOOK), AS LAST REVISED. THE CONTRACTOR SHALL HAVE A COPY OF EACH OF THESE STANDARDS, AS WELL AS A COPY OF THE PROJECT PLANS AND SPECIFICATIONS, ON THE JOB SITE AT ALL TIMES.
- THE DISTRICT INSPECTOR SHALL BE NOTIFIED AT LEAST 48 HOURS PRIOR TO THE START OF CONSTRUCTION AND ANY SUBSEQUENT REQUIRED INSPECTION. PHONE (949) 858-0277 TO ARRANGE FOR INSPECTION.
- A PRECONSTRUCTION CONFERENCE WITH REPRESENTATIVES FROM ALL AFFECTED AGENCIES AND THE CONTRACTOR SHALL BE HELD ON THE JOB SITE AT LEAST 48 HOURS PRIOR TO THE START OF CONSTRUCTION.
- THE CONTRACTOR SHALL OBTAIN ALL CITY AND/OR COUNTY PERMITS PRIOR TO THE START OF CONSTRUCTION.
- WATER MAINS SHALL BE STAKED FOR LINE AND GRADE OR SHALL BE INSTALLED SUBSEQUENT TO THE INSTALLATION OF THE CURBS BUT PRIOR TO PAVING OF THE STREETS. THE MINIMUM COVER OVER DOMESTIC WATER MAINS SHALL BE 42 INCHES BELOW PAVEMENT FINISHED GRADE.
- NO VALVE SHALL BE LOCATED WITHIN A GUTTER OR OTHER CONCRETE DRAINAGE DEVICE.
- ALL FIRE HYDRANT SHALL BE INSTALLED PER THE DISTRICT'S STANDARD DRAWINGS.
- ALL EXPOSED BURIED METAL APPURTENANCES IN CONTACT WITH THE SOIL OR WATER, INCLUDING PIPE, FLANGES, VALVES, COUPLINGS, ETC., SHALL BE GIVEN TWO (2) COATS OF DEWBRAP 142S PROTECTIVE COATING, OR EQUAL. WARNING TAPE SHALL BE USED ON ALL CONSTANT PRESSURE MAIN LINE PIPING CARRYING POTABLE WATER. TAPE SHALL BE A MINIMUM OF 6 INCHES WIDE AND SHALL RUN CONTINUOUSLY FOR THE ENTIRE LENGTH OF ALL CONSTANT PRESSURE MAIN LINE PIPING. THE TAPE SHALL BE LOCATED 12 INCHES DIRECTLY ABOVE THE TOP OF THE PIPE AND SHALL BE BLUE IN COLOR WITH THE WORDS "CAUTION: WATER LINE BELOW" IMPRINTED IN MINIMUM 1-INCH HIGH LETTERS, BLACK IN COLOR. IMPRINTING SHALL BE CONTINUOUS AND PERMANENT.
- NO FACILITY IS TO BE BACKFILLED UNTIL INSPECTED BY THE DISTRICT.
- SHUT DOWN OF EXISTING WATERLINES TO FACILITATE CONNECTION TO EXISTING FACILITIES SHALL BE COORDINATED WITH THE DISTRICT INSPECTOR. NO CONNECTIONS TO THE DISTRICT'S EXISTING WATER SYSTEM SHALL BE MADE UNTIL THE NEW FACILITIES HAVE BEEN SUCCESSFULLY TESTED AND DISINFECTED. CONTRACTOR TO PERFORM ALL CHLORINATION/DECHLORINATION AND BACTERIOLOGICAL SAMPLING PER AWWA STANDARDS. ALL CONNECTIONS TO THE DISTRICT'S WATER SYSTEM SHALL BE MADE IN THE PRESENCE OF THE DISTRICT INSPECTOR.
- WATER HOUSE CONNECTION LATERALS SHALL BE INSTALLED BEHIND THE CURB PRIOR TO PAVING OF THE STREET. THE SERVICES SHALL BE EXTENDED TO THEIR FINAL LOCATION BY THE DEVELOPER AT A TIME PRIOR TO PRESSURE TESTING OF THE WATER SYSTEM. SEE TCWD STD DRAWING W/1 FOR ADDITIONAL INFORMATION.
- ALL WATER SERVICES SHALL BE INSTALLED WITH A 5-FOOT HORIZONTAL SEPARATION FROM ANY SEWER LATERAL AND IN ACCORDANCE WITH THE DISTRICT'S REVISED STANDARD DRAWINGS.
- ALL WATER SERVICES SUPPLIED WITH PRESSURE HIGHER THAN 80 PSI SHALL BE PROVIDED WITH APPROVED PRESSURE REGULATORS SET AT THE MAXIMUM ALLOWABLE CODE PRESSURE.
- METER BOXES SHALL BE INSTALLED DIRECTLY BEHIND THE CURB WHETHER THE SIDEWALK IS DIRECTLY BEHIND THE CURB OR NOT. METER BOXES INSTALLED BEHIND ROLLED CURB OR WITHIN DRIVEWAYS SHALL HAVE TRAFFIC LIDS.
- ALL BURIED BOLTS, ANCHOR BOLTS AND NUTS SHALL BE TYPE 316 STAINLESS STEEL AND SHALL BE COATED WITH ANTI-SEIZE COMPOUND NSF 60/61 OR APPROVED EQUAL.
- THE CONTRACTOR SHALL RAISE ALL VALVE BOXES TO THE FINISHED PAVEMENT GRADE WITHIN 2 DAYS OF COMPLETION OF THE PAVEMENT. IF THE SURFACE COURSE OF PAVEMENT IS NOT COMPLETED WITHIN A REASONABLE AMOUNT OF TIME AFTER THE BASE COURSE OF PAVEMENT IS COMPLETED, THE DEVELOPER SHALL RAISE THE VALVE BOXES TO THE FINISHED GRADE OF THE BASE COURSE SO THAT THE DISTRICT MAY OPERATE THE VALVES. THE DEVELOPER SHALL THEN RAISE ALL VALVE BOXES TO FINAL FINISHED GRADE OF THE PAVEMENT UPON COMPLETION OF THE SURFACE COURSE OF PAVEMENT. THE REQUIRED RAISING OF VALVE BOXES TO FINISHED GRADE OF THE BASE COURSE OF PAVEMENT WILL BE DETERMINED AND SPECIFIED BY THE DISTRICT.
- BACKFLOW PREVENTERS APPROVED BY THE USC FOUNDATION FOR CROSS CONNECTION CONTROL ARE THE ONLY BACKFLOW PREVENTION DEVICES ACCEPTABLE FOR USE IN THE DISTRICT. THE DISTRICT'S CROSS CONNECTION INSPECTOR SHALL BE NOTIFIED PRIOR TO INSTALLATION OF BACKFLOW DEVICE AT (949) 858-0277.
- IRRIGATION SYSTEM MUST COMPLY WITH THE DISTRICT'S RULES AND REGULATIONS FOR NONDOMESTIC WATER SERVICE.
- ALL WATER SYSTEM INFRASTRUCTURE SHALL BE SUITABLE FOR POTABLE WATER SYSTEMS AND SHALL MEET NSF 60/61 STANDARDS AND CALIFORNIA NO LEAD STANDARDS.
- WATER LINES, LATERALS, AND APPURTENANCES SHALL BE INSTALLED WITH GPS LOCATION WITH 1' ACCURACY. ELECTRONIC FILE, IN AUTOCAD FORMAT, SHALL BE SUBMITTED TO THE DISTRICT PRIOR TO PAVING THE STREETS.
- TRACER WIRE: COPPER TRACER WIRE SHALL BE INSTALLED AND SECURED TO THE TOP OF ALL PVC PIPE AS IT IS BEING LAID. TRACER WIRE SHALL BE STUBBED UP AT EACH VALVE (BROUGHT INTO VALVE BOX), TO EACH SERVICE (GROUNDED TO CORPORATION STOP), TO ALL APPURTENANCES AND TO ALL HYDRANTS (COILED AROUND BARREL JUST BELOW THE TOP FLANGE WITH 16 INCHES EXCESS). TRACER WIRE SHALL BE SECURED TO THE TOP OF THE PIPE, AT A MINIMUM OF 10-FOOT INTERVALS, WITH PLASTIC ADHESIVE TAPE. THE COPPER WIRE SHALL BE #12 Cu. WITH HMWPE INSULATION. THE WIRE SHALL BE ELECTRONICALLY CONTINUOUS THROUGH THE ENTIRE PIPING SYSTEM. ALL SPLICES OF THE WIRE SHALL BE MADE SECURELY AND COVERED THOROUGHLY WITH A DIRECT BURY SPLICE KIT, 3M DBY/DBR OR APPROVED EQUAL. THE CONTRACTOR SHALL SCHEDULE A CONDUCTIVITY TEST (CONDUCTED BY THE CITY) ON COMPLETION OF THE WATER MAIN INSTALLATION AND PRIOR TO FINAL PAVEMENT CONSTRUCTION. IF THE CONDUCTIVITY TEST FAILS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING THE NECESSARY REPAIRS, UNTIL PASSING RESULTS ARE ACHIEVED. ADDITIONAL COMPENSATION WILL NOT BE ALLOWED THEREFORE.

ABBREVIATIONS

AB	AGGREGATE BASE	NTS	NOT TO SCALE
AC	ASPHALT CONCRETE	OC	ORANGE COUNTY
APPROX.	APPROXIMATE	OCFA	ORANGE COUNTY FIRE AUTHORITY
AV	AIR VAC	PCC	POINT OF COMPOUND CURVE
AWWA	AMERICAN WATER WORKS ASSOCIATION	PRC	POINT OF REVERSE CURVE
BFP	BACKFLOW PREVENTER	PRS	PRESSURE REDUCING STATION
BFV	BUTTERFLY VALVE	PRV	PRESSURE REDUCING VALVE
BO	BLOWOFF ASSEMBLY	P (PL)	PROPERTY LINE
BVC	BEGIN VERTICAL CURVE	PP	POWER POLE
CL	CLASS	PF & RD	PUBLIC FACILITIES AND RESOURCES DEPARTMENT
CMP	CORRUGATED METAL PIPE	PO	PUSH ON
CONT	CONTINUOUS	PT	POINT
CTR	CENTER	PUE	PUBLIC UTILITY EASEMENT
C (CL)	CENTERLINE	PVC	POLYVINYL CHLORIDE
DIA	DIAMETER	PVMT	PAVEMENT
DIP	DUCTILE IRON PIPE	R (RAD)	RADIUS
DTL	DETAIL	RT	RIGHT
DWG	DRAWING	RW	RECLAIMED WATER
E	EAST	R/W	RIGHT-OF-WAY
EC	END CURVE	R/WG	RESILIENT WEDGE
ECR	END CURVE RETURN	S	SOUTH, SLOPE OR GRADIENT OF PIPELINE
EL	ELEVATION	SD	STORM DRAIN
ELEC	ELECTRIC	SHT	SHEET
EP	EDGE OF PAVEMENT	ST	STREET
EVC	END VERTICAL CURVE	STA	STATION
EXIST (EX.)	EXISTING	STD	STANDARD
FE	FLANGE END	STL	STEEL
FH	FIRE HYDRANT	TCWD	TRABUCO CANYON WATER DISTRICT
FLG	FLANGE	TEL	TELEPHONE
FT	FOOT, FEET	TYP	TYPICAL
FG	FINISHED GRADE	VCP	VITRIFIED CLAY PIPE
FS	FINISHED SURFACE	VERT	VERTICAL
GB	GRADE BREAK	W	WEST
GV	GATE VALVE	WL	WATER LINE
LT	LEFT	WM	WATER METER
MH	MANHOLE		
MIN	MINIMUM		
N	MECHANICAL JOINT		
MJ	NORTH		

SYMBOLS

- EXISTING WATER METER
- EXISTING WATER VALVE
- EXISTING SURVEY MONUMENT
- EXISTING FIRE HYDRANT
- EXISTING SEWER MANHOLE
- PROPOSED WATER VALVE
- PROPOSED FIRE HYDRANT

LEGEND

LINE TYPES

- PROPERTY LINE
- CENTERLINE
- EXIST. WATER LINE
- EXIST. COMMUNICATION LINE
- EXIST. ELECTRIC LINE
- EXIST. SEWER LINE
- EXIST. ELECTRIC LINE
- EXIST. RECYCLED WATER LINE
- HOUSE ADDRESS NUMBER

21505

ADDITIONAL NOTES:

ALL BENDS 11 1/4' OR GREATER, TEES AND CROSSES SHALL BE EPOXY LINED DUCTILE IRON (CLASS 350) WITH PUSH-ON JOINTS AND THRUST BLOCK PER TCWD STANDARD DWG. NO. W12 UNLESS OTHERWISE NOTED ON PLANS.
DO NOT EXCEED 80% OF MANUFACTURER'S RECOMMENDED DEFLECTION REQUIREMENTS FOR PIPE INSTALLATION.

BASIS OF BEARING:

THE BASIS OF BEARING IS N08°27'04"W, BETWEEN DMC CONTROL POINTS 7 AND 9 LOCATED BY GPS ON 4/13/2018 (JN: 728-38).

BENCH MARK:

ORANGE COUNTY DESIGNATION 3D-162-04

ELEV. = 1193.289 FT. (NAV88) LEVELED IN 2017

SITE UTILITIES:

- | | |
|-------------|-----------------------------|
| ELECTRICITY | SOUTHERN CALIFORNIA EDISON |
| GAS | SOUTHERN CALIFORNIA GAS CO. |
| CABLE TV | COX CABLE SERVICES |
| TELEPHONE | AT&T |

SITE KEY NOTES:

- NEW PRIVATE WATERLINE TO BE CONSTRUCTED BY OTHERS
- 2" REDUCED PRESSURE PRINCIPLE BACKFLOW ASSEMBLY, 2" AND SMALLER PER TCWD STD. DWG. W-7, TO BE INSTALLED BY OTHERS
- EXISTING 8" AC WATERLINE TO BE ABANDONED IN PLACE
- 1 1/2" REDUCED PRESSURE PRINCIPLE BACKFLOW ASSEMBLY, 1 1/2" AND SMALLER PER TCWD STD. DWG. W-7, TO BE INSTALLED BY OTHERS

SITE CONSTRUCTION NOTES:

- CONSTRUCT HOT TAP PER DETAIL ON SHEET 6
- CONSTRUCT THRUST BLOCK PER TCWD STD. DWG. W-16
- CONSTRUCT 8" PVC, C900 DR14, WATERLINE AND CONSTRUCT WATER TRENCH PER TCWD STD. DWG. W-17
- CONNECT TO EXISTING 8" AC VALVE USING D.I. FLANGED COUPLING ADAPTER WITH 316 STAINLESS STEEL NUTS, BOLTS AND WASHERS.
- CONSTRUCT 8" DOUBLE CHECK BACKFLOW ASSEMBLY PER TCWD STD. DWG. W-6
- CONSTRUCT WATER TRENCH PER TCWD STD. DWG. W-17
- CONSTRUCT 2" COPPER SERVICE WITH 1.5 INCH METER PER TCWD STD. DWG. W-2a (IRRIGATION) METER TO BE SUPPLIED BY TCWD
- CONSTRUCT 2" COPPER SERVICE WITH 2 INCH METER PER TCWD STD. DWG. W-2b. (DOMESTIC) METER TO BE SUPPLIED BY TCWD
- CONSTRUCT 2" SERVICE CONNECTION PER TCWD STD. DWG. W-3a
- RE-PAVE SURFACE WITH 8" AC
- CUT AND CAP EXISTING WATERLINE WITH AN MJ CAP
- ABANDON EXISTING SERVICE BY REMOVING WATER METER AND DELIVER TO TCWD AND CAP EXISTING CORP-STOP AT THE MAIN AND BACKFILL AS REQUIRED.
- REMOVE EXISTING WATER VALVE
- INSTALL 11.25" D.I. BEND
- CONSTRUCT 8" GATE VALVE PER TCWD SPECIFICATIONS AND VALVE CAN PER TCWD STD. W-22

Plotted: Jan 04, 2022 - 2:10pm by: DDM
 Drawing Name: U:\0081728-48 TRUCO, SR Michael's Abbey\DWG\728-48-48 St. Michael's Abbey WATER LINE Title Sheet.dwg
 ORANGE COUNTY RESCUE MISSION WATER LINE

CONTRACTORS SHALL NOTIFY UNDERGROUND SERVICE ALERT A MINIMUM OF 48 HOURS PRIOR TO BEGINNING ANY CONSTRUCTION WORK. SEE GENERAL NOTES FOR FURTHER INFORMATION.

CALL BEFORE YOU DIG
TOLL FREE 1-800-227-2800
A PUBLIC SERVICE BY UNDERGROUND SERVICE ALERT

REV.	DATE	BY	DESCRIPTION	APPROVED BY	DATE

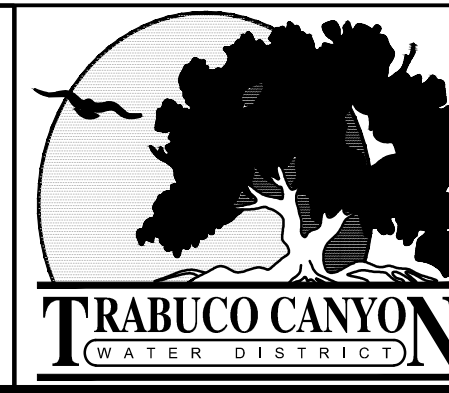
DESIGN BY: D.L.M.
REVIEWED BY: D.J.M.

DMC ENGINEERING
CIVIL ■ SURVEYING ■ PLANNING ■ CONSTRUCTION
18 Technology Drive, Suite 100, Irvine, CA 92618
E-Mail: dmc@dmceng.com (949) 753-9393

APPROVED
TRABUCO CANYON WATER DISTRICT

LORRAINE S. LAUSTEN, P.E. RCE #67027
DISTRICT ENGINEER

DATE _____



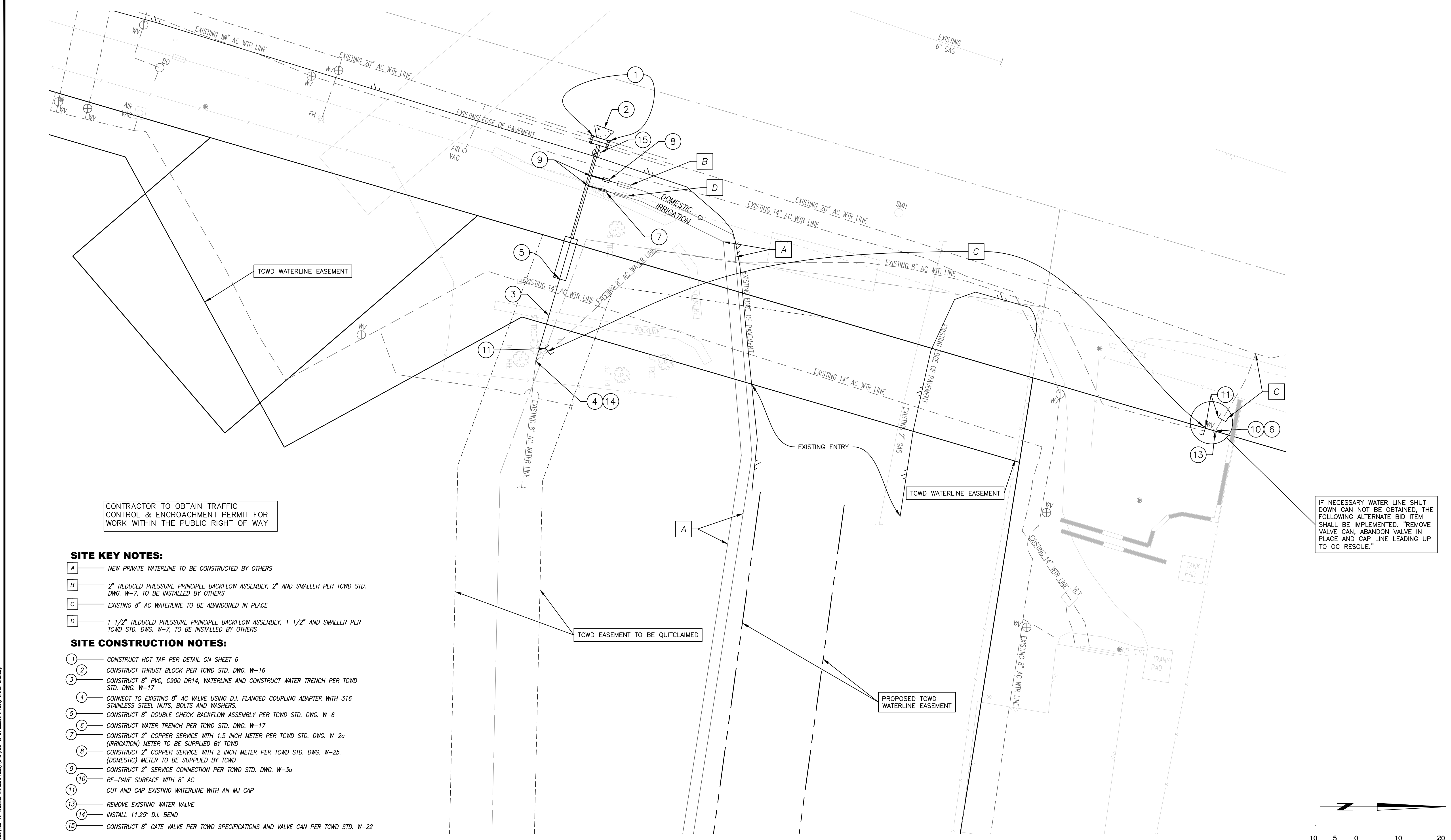
TRABUCO CANYON WATER DISTRICT
ORANGE COUNTY RESCUE MISSION
WATER LINE

GENERAL NOTES, LEGEND, ABBREVIATIONS, NOTES, BENCH MARK
BASIS OF BEARINGS

SHEET
2

OF 6 SHEETS
DMc JN: 728-49

ORANGE COUNTY RESCUE MISSION WATER LINE

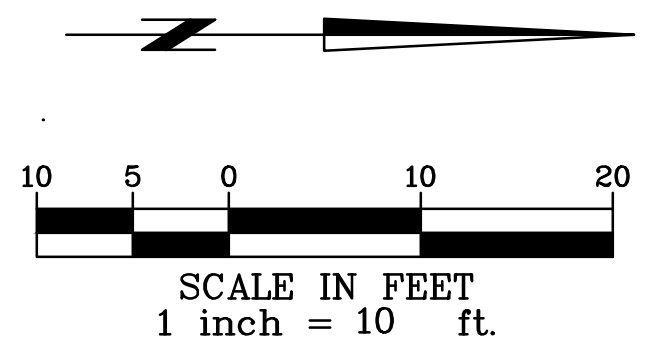


CONTRACTOR TO OBTAIN TRAFFIC CONTROL & ENCROACHMENT PERMIT FOR WORK WITHIN THE PUBLIC RIGHT OF WAY

- SITE KEY NOTES:**
- A — NEW PRIVATE WATERLINE TO BE CONSTRUCTED BY OTHERS
 - B — 2" REDUCED PRESSURE PRINCIPLE BACKFLOW ASSEMBLY, 2" AND SMALLER PER TCWD STD. DWG. W-7, TO BE INSTALLED BY OTHERS
 - C — EXISTING 8" AC WATERLINE TO BE ABANDONED IN PLACE
 - D — 1 1/2" REDUCED PRESSURE PRINCIPLE BACKFLOW ASSEMBLY, 1 1/2" AND SMALLER PER TCWD STD. DWG. W-7, TO BE INSTALLED BY OTHERS

- SITE CONSTRUCTION NOTES:**
- 1 — CONSTRUCT HOT TAP PER DETAIL ON SHEET 6
 - 2 — CONSTRUCT THRUST BLOCK PER TCWD STD. DWG. W-16
 - 3 — CONSTRUCT 8" PVC, C900 DR14, WATERLINE AND CONSTRUCT WATER TRENCH PER TCWD STD. DWG. W-17
 - 4 — CONNECT TO EXISTING 8" AC VALVE USING D.I. FLANGED COUPLING ADAPTER WITH 316 STAINLESS STEEL NUTS, BOLTS AND WASHERS.
 - 5 — CONSTRUCT 8" DOUBLE CHECK BACKFLOW ASSEMBLY PER TCWD STD. DWG. W-6
 - 6 — CONSTRUCT WATER TRENCH PER TCWD STD. DWG. W-17
 - 7 — CONSTRUCT 2" COPPER SERVICE WITH 1.5 INCH METER PER TCWD STD. DWG. W-2a (IRRIGATION) METER TO BE SUPPLIED BY TCWD
 - 8 — CONSTRUCT 2" COPPER SERVICE WITH 2 INCH METER PER TCWD STD. DWG. W-2b. (DOMESTIC) METER TO BE SUPPLIED BY TCWD
 - 9 — CONSTRUCT 2" SERVICE CONNECTION PER TCWD STD. DWG. W-3a
 - 10 — RE-PAVE SURFACE WITH 8" AC
 - 11 — CUT AND CAP EXISTING WATERLINE WITH AN MJ CAP
 - 13 — REMOVE EXISTING WATER VALVE
 - 14 — INSTALL 11.25° D.I. BEND
 - 15 — CONSTRUCT 8" GATE VALVE PER TCWD SPECIFICATIONS AND VALVE CAN PER TCWD STD. W-22

IF NECESSARY WATER LINE SHUT DOWN CAN NOT BE OBTAINED, THE FOLLOWING ALTERNATE BID ITEM SHALL BE IMPLEMENTED. "REMOVE VALVE CAN, ABANDON VALVE IN PLACE AND CAP LINE LEADING UP TO OC RESCUE."



CONTRACTORS SHALL NOTIFY UNDERGROUND SERVICE ALERT A MINIMUM OF 48 HOURS PRIOR TO BEGINNING ANY CONSTRUCTION WORK. SEE GENERAL NOTES FOR FURTHER INFORMATION.

DIG ALERT

CALL BEFORE YOU DIG

TOLL FREE 1-800-227-2800

A PUBLIC SERVICE BY UNDERGROUND SERVICE ALERT

Two Working Days Before You Dig

REV.	DATE	BY	DESCRIPTION	APPROVED BY	DATE

DESIGN BY: D.L.M.
REVIEWED BY: D.J.M.

DMC ENGINEERING

CIVIL ■ SURVEYING ■ PLANNING ■ CONSTRUCTION

18 Technology Drive, Suite 100, Irvine, CA 92618

E-Mail: dmc@dmceng.com (949) 753-9393

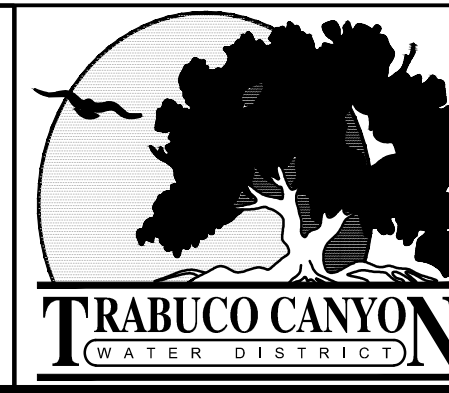
APPROVED

TRABUCO CANYON WATER DISTRICT

LORRAINE S. LAUSTEN, P.E. RCE #67027

DISTRICT ENGINEER

DATE



TRABUCO CANYON WATER DISTRICT

ORANGE COUNTY RESCUE MISSION

WATER LINE

WATER LINE BLOW-UP

SHEET

3

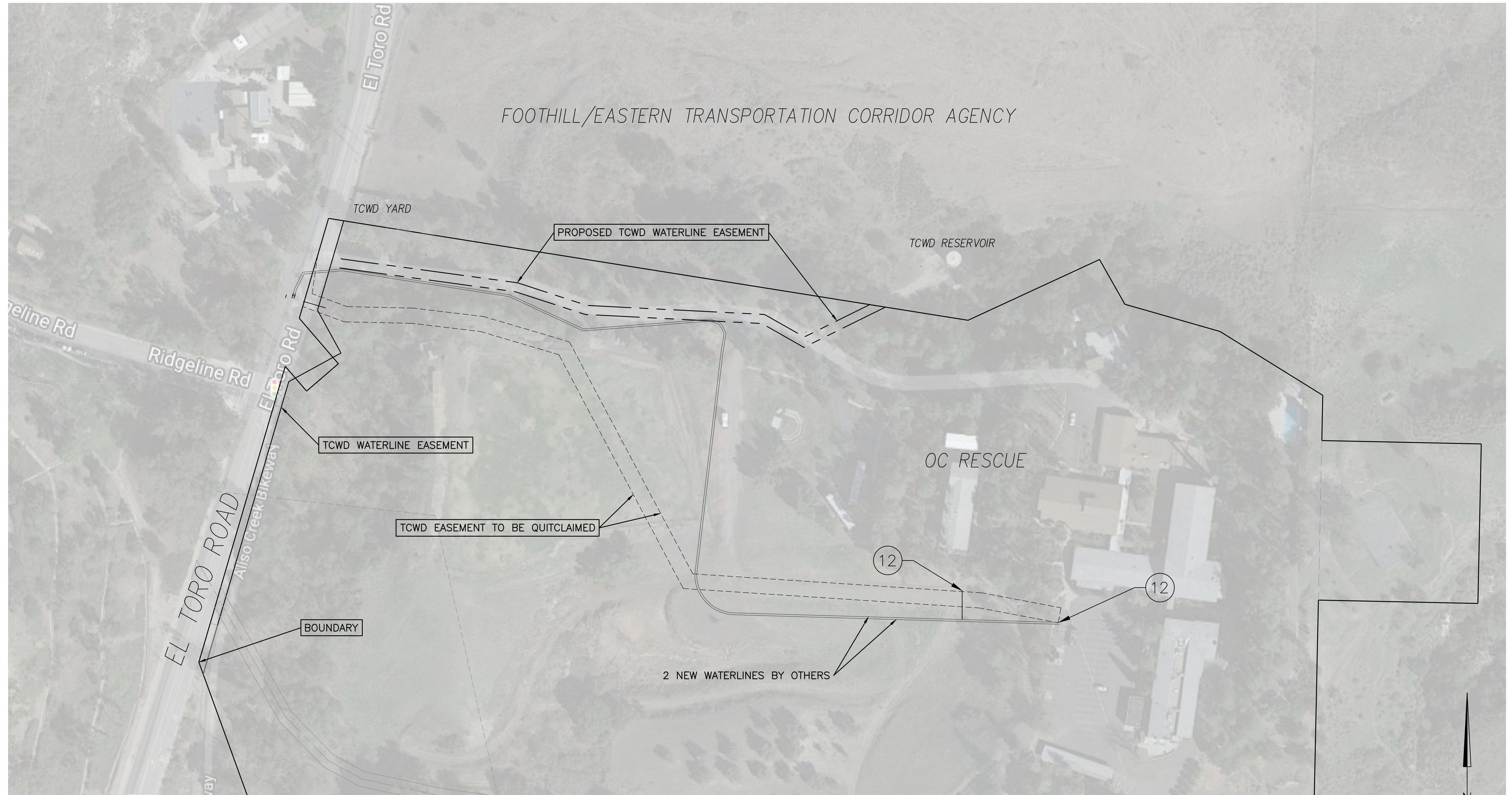
OF 6 SHEETS

DMc JN: 728-49

Project: Jan 04, 2022 - 2:23pm by: DDM
 Drawing Name: U:\0081728-49 TCWD_SR Michael's Alley\DWG\728-49 SR Michael's Alley WATER LINE.dwg

ORANGE COUNTY RESCUE MISSION WATER LINE

SITE CONSTRUCTION NOTES:
 12 ABANDON EXISTING SERVICE BY REMOVING WATER METER AND DELIVER TO TCWD AND CAP EXISTING CORP-STOP AT THE MAIN AND BACKFILL AS REQUIRED.



Project: Jan 04, 2022 - 11:58am by: DDM
 Drawing Name: U:\0081728-49 TCWD_LR Michael's Albany\0081728-49 St. Michael's Albany WATER LINE.dwg

CONTRACTORS SHALL NOTIFY UNDERGROUND SERVICE ALERT A MINIMUM OF 48 HOURS PRIOR TO BEGINNING ANY CONSTRUCTION WORK. SEE GENERAL NOTES FOR FURTHER INFORMATION.

CALL BEFORE YOU DIG
 TOLL FREE 1-800-227-2800
 A PUBLIC SERVICE BY UNDERGROUND SERVICE ALERT

REV.	DATE	BY	DESCRIPTION	APPROVED BY	DATE

DESIGN BY:
D.L.M.

REVIEWED BY:
D.J.M.



DMC ENGINEERING
 CIVIL ■ SURVEYING ■ PLANNING ■ CONSTRUCTION
 18 Technology Drive, Suite 100, Irvine, CA 92618
 E-Mail: dmc@dmceng.com (949) 753-9393

APPROVED
 TRABUCO CANYON WATER DISTRICT

LORRAINE S. LAUSTEN, P.E. RCE #67027
 DISTRICT ENGINEER

DATE

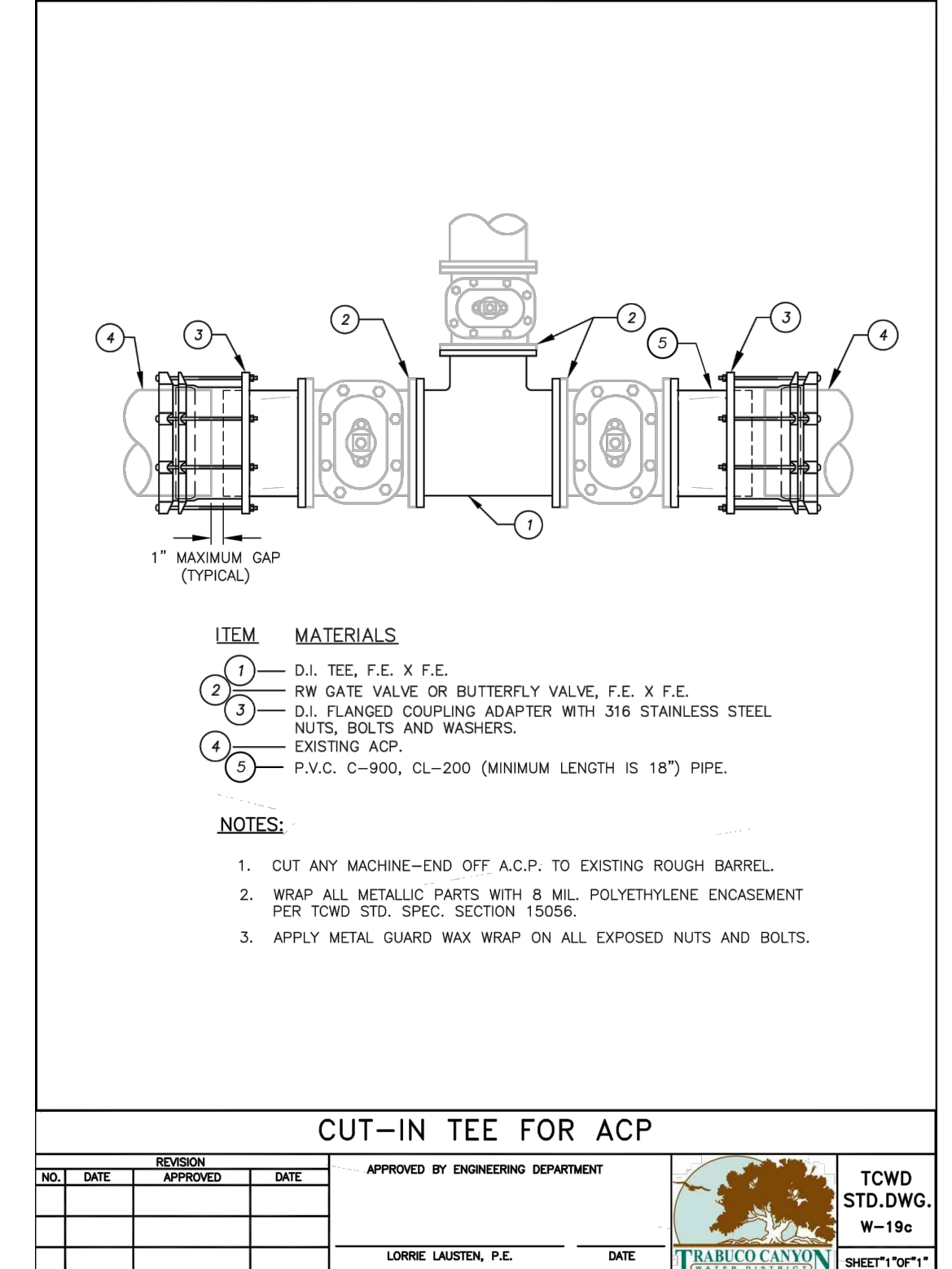
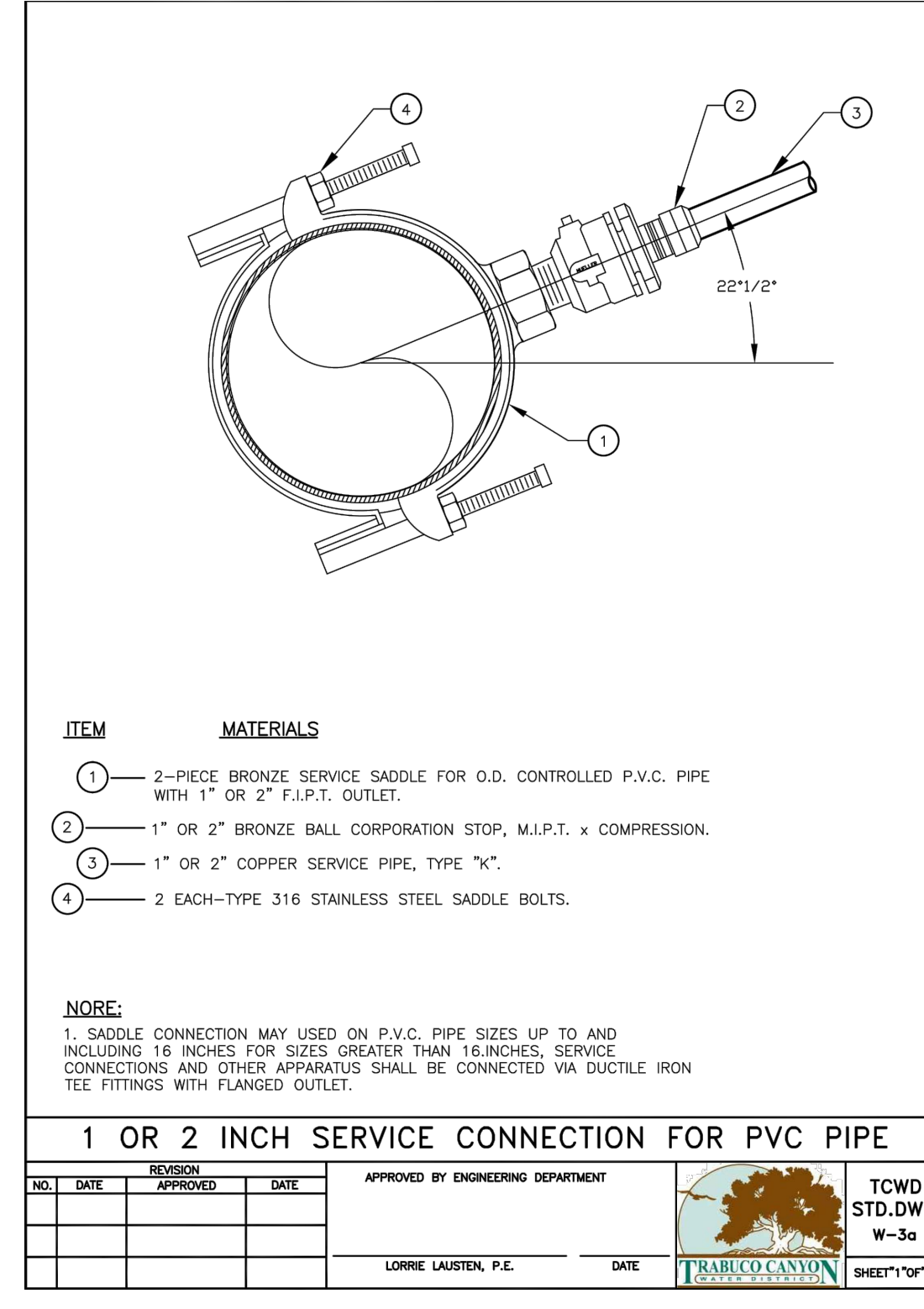
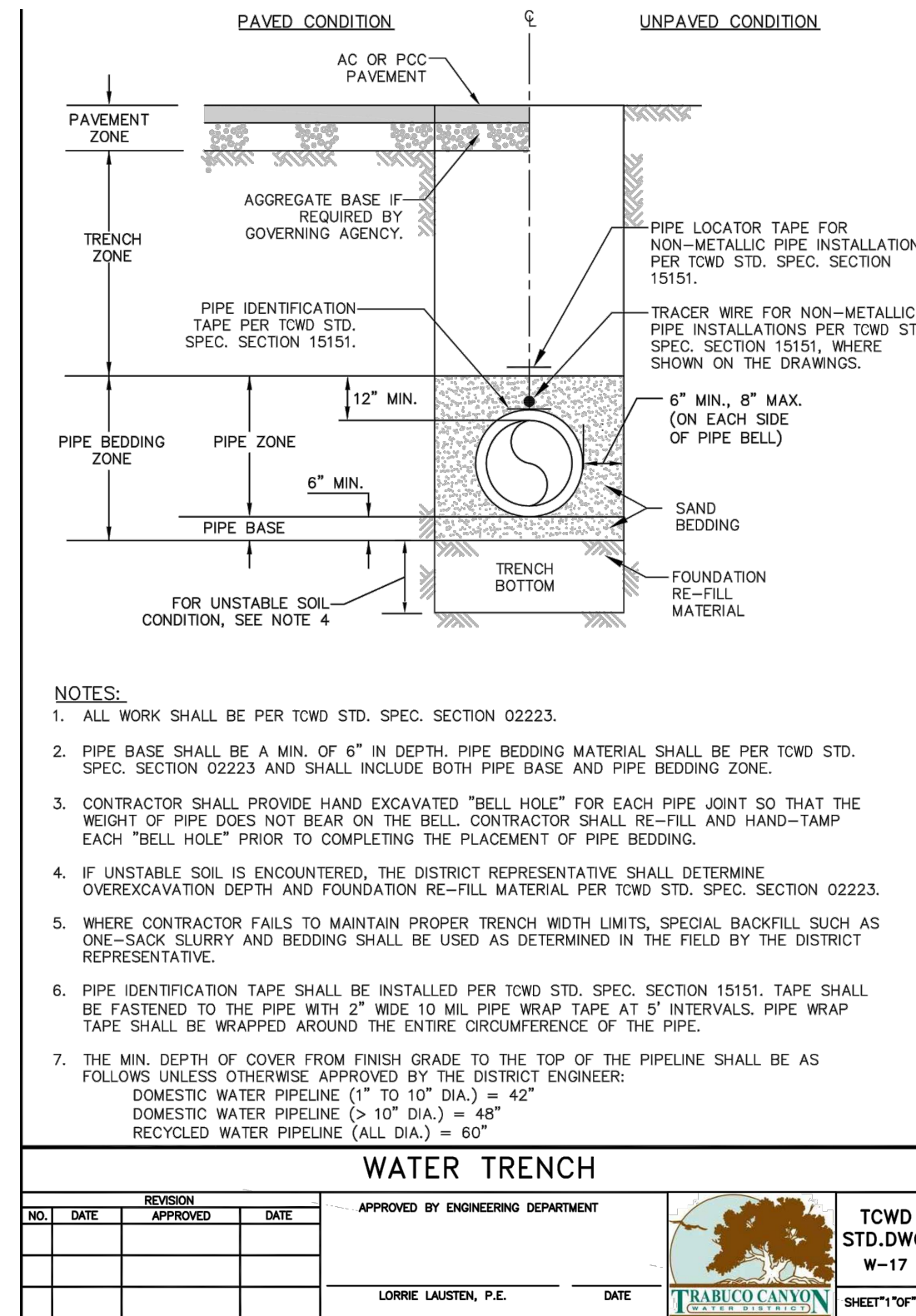
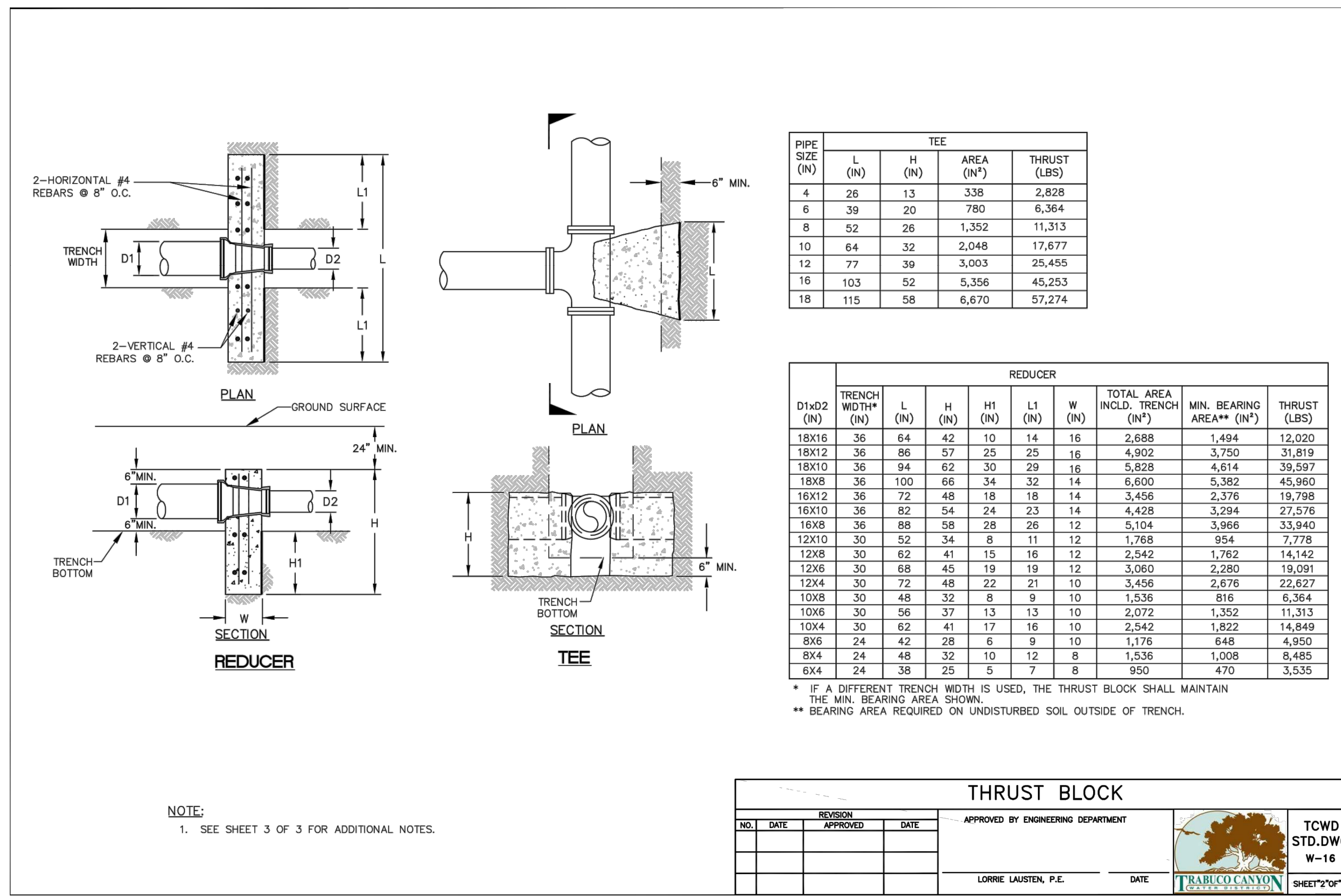


TRABUCO CANYON WATER DISTRICT
 ORANGE COUNTY RESCUE MISSION
 WATER LINE

WATER LINE OVERVIEW

SHEET
4
 OF 6 SHEETS

ORANGE COUNTY RESCUE MISSION WATER LINE
 DMC IN: 728-49

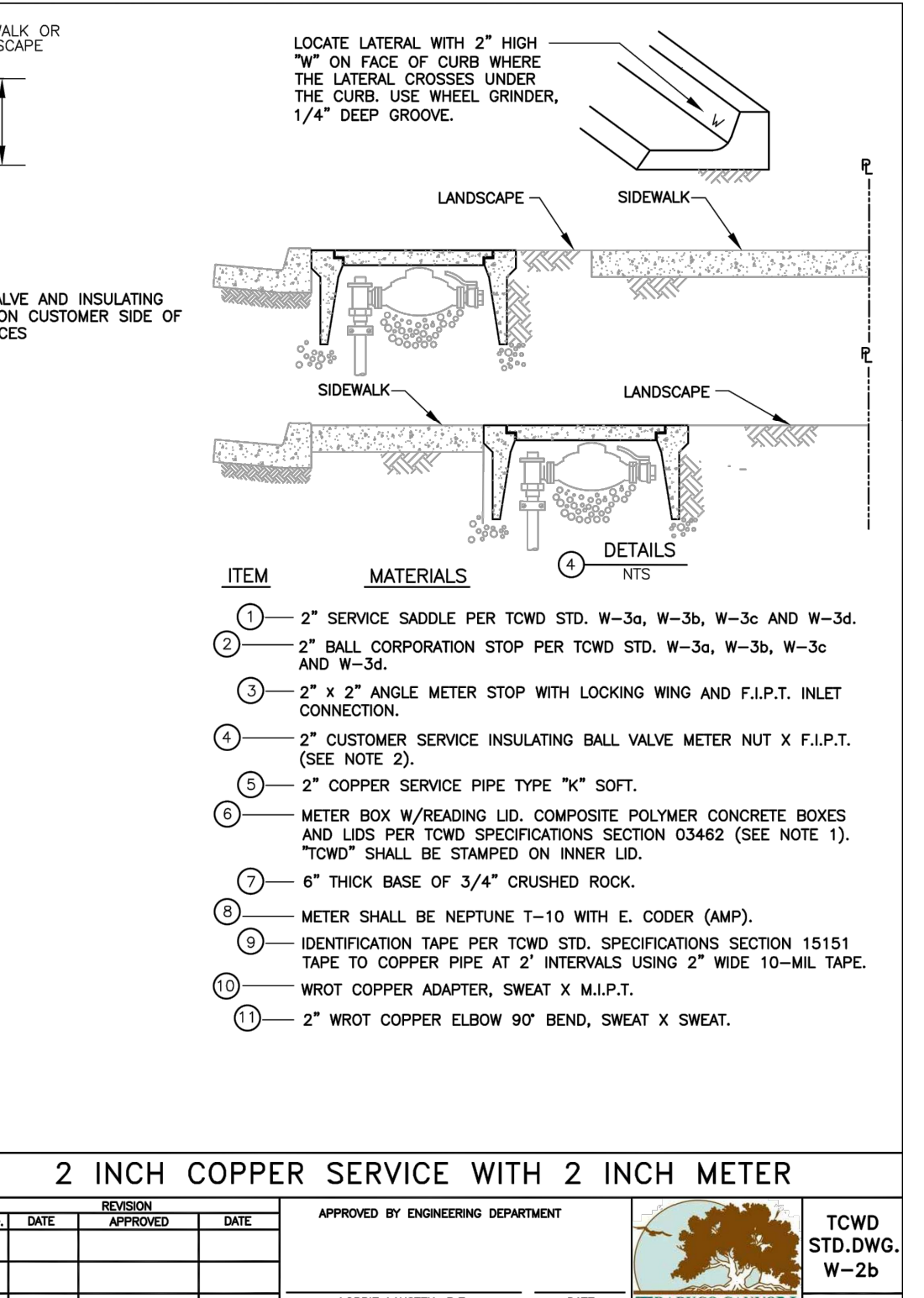
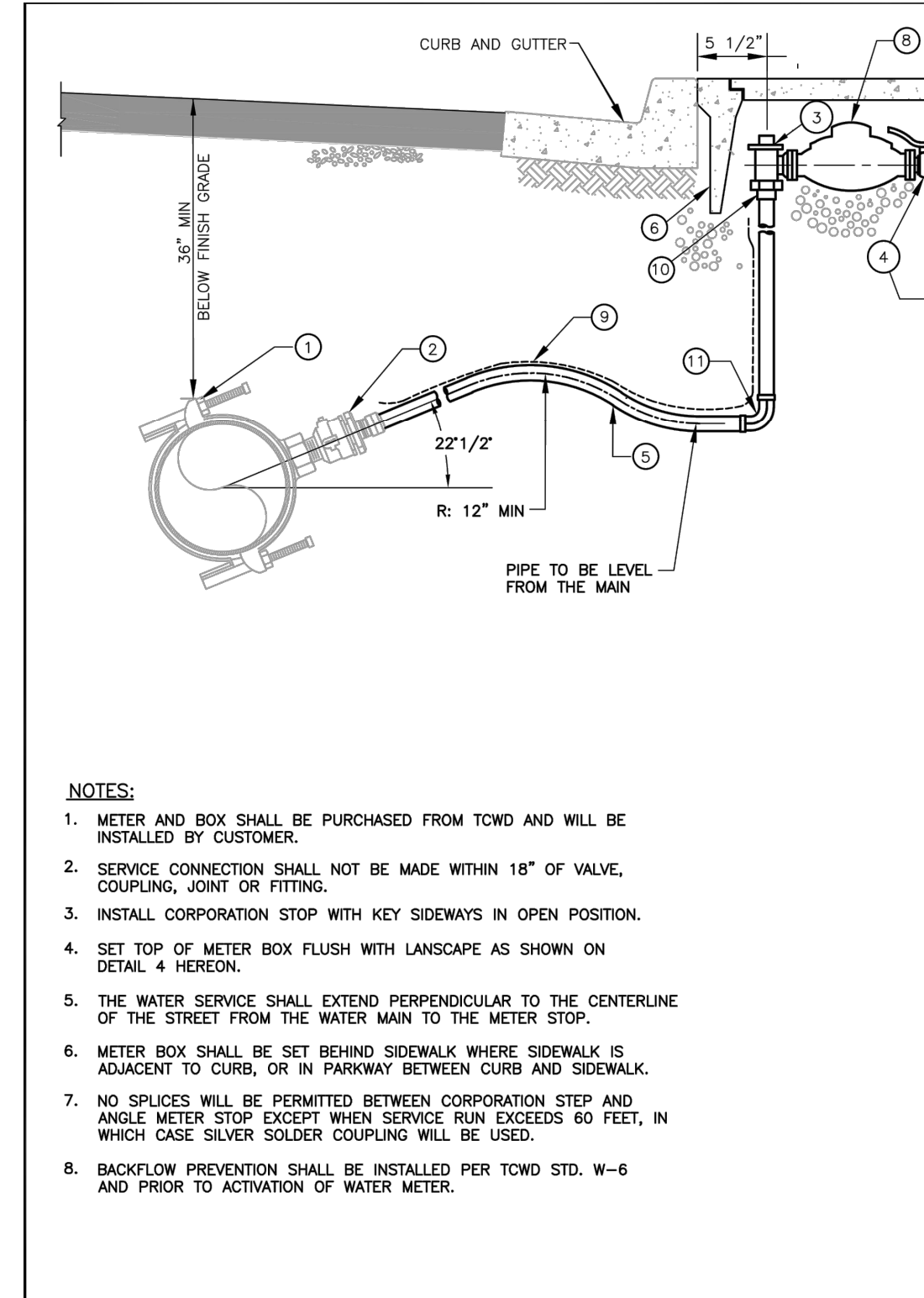
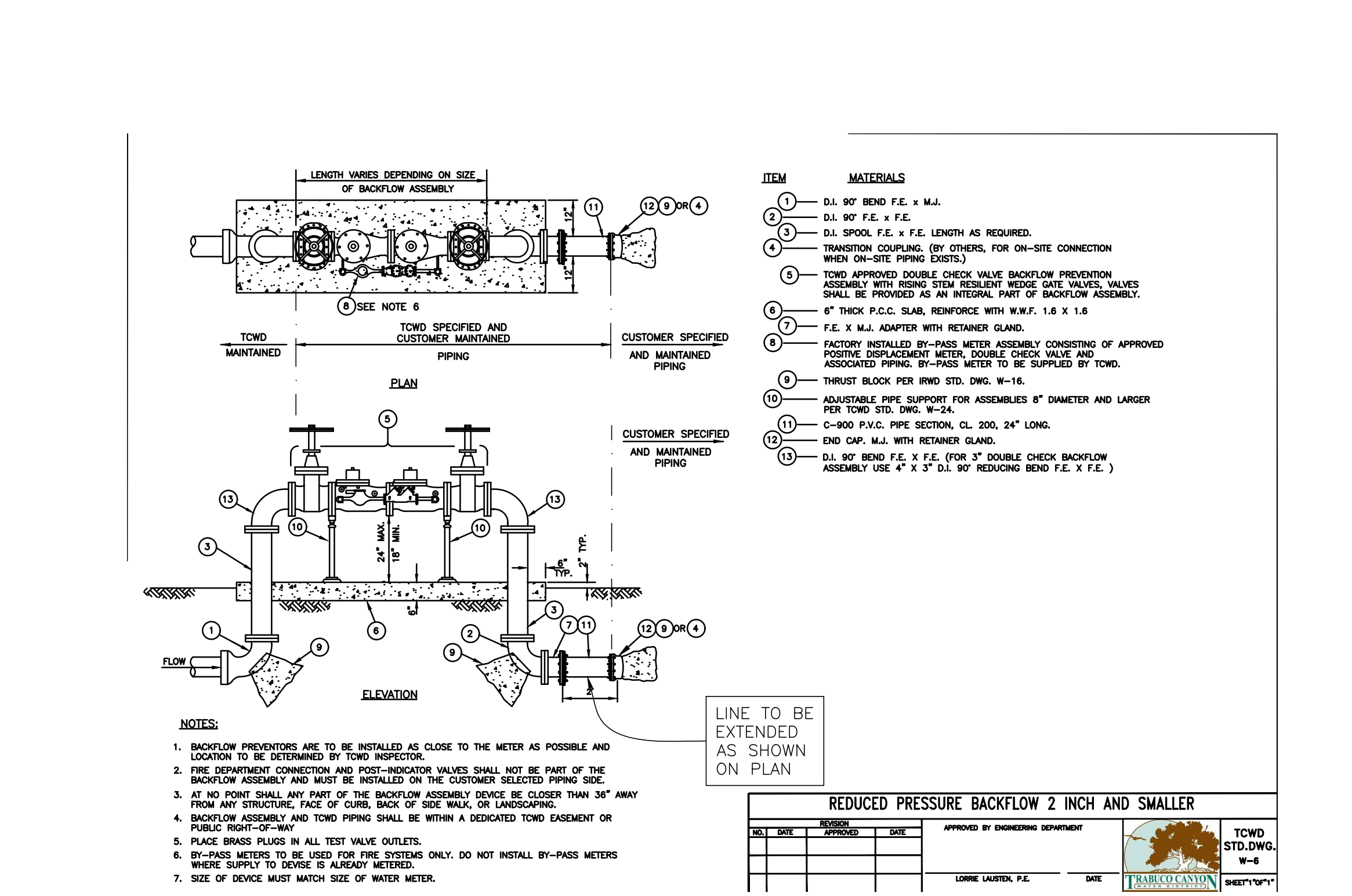


THRUST BLOCK STANDARD
NTA

WATER TRENCH STANDARD
NTA

2" WATER SERVICE CONNECTION FOR PVC STANDARD
NTA

CUT-IN TEE FOR ACP STANDARD
NTA



DOUBLE CHECK BACKFLOW ASSEMBLY STANDARD
NTA

2" METER STANDARD
NTA

2" COPPER SERVICE WITH 2" METER
NTA

CONTRACTORS SHALL NOTIFY UNDERGROUND SERVICE ALERT A MINIMUM OF 48 HOURS PRIOR TO BEGINNING ANY CONSTRUCTION WORK. SEE GENERAL NOTES FOR FURTHER INFORMATION.

DIG ALERT

CALL BEFORE YOU DIG

TOLL FREE 1-800-227-2800

A PUBLIC SERVICE BY UNDERGROUND SERVICE ALERT

REV.	DATE	BY	DESCRIPTION	APPROVED BY	DATE

DESIGN BY: D.L.M.

REVIEWED BY: D.J.M.

APPROVED

TRABUCO CANYON WATER DISTRICT

DATE

LORRAINE S. LAUSTEN, P.E. RCE #67027

DISTRICT ENGINEER

APPROVED

TRABUCO CANYON WATER DISTRICT

DATE

LORRAINE S. LAUSTEN, P.E. RCE #67027

DISTRICT ENGINEER

TRABUCO CANYON WATER DISTRICT

TRABUCO CANYON WATER DISTRICT

ORANGE COUNTY RESCUE MISSION WATER LINE

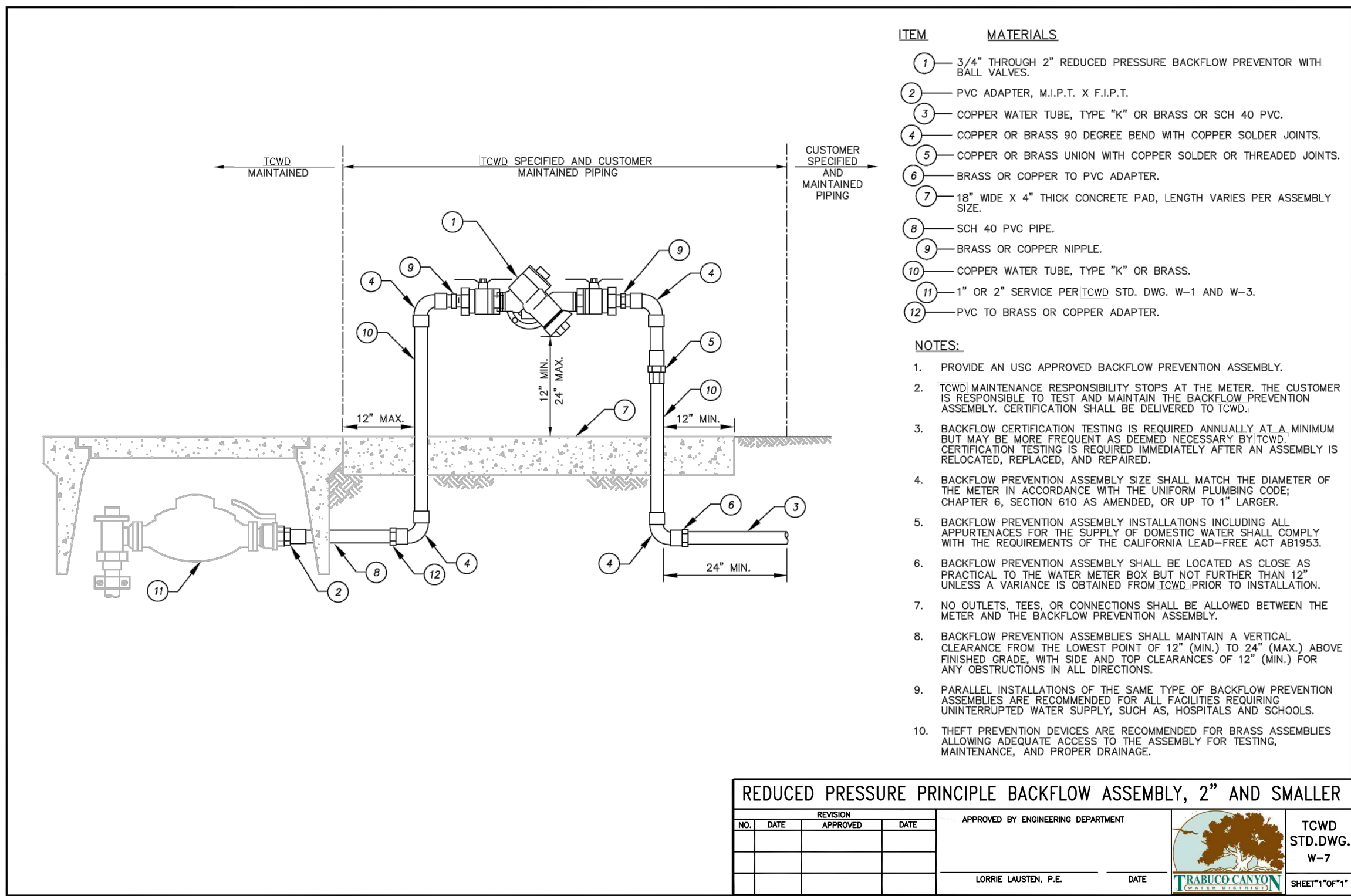
DETAILS

SHEET 5

OF 6 SHEETS

DMC INC. 728-49

ORANGE COUNTY RESCUE MISSION WATER LINE



- ITEM MATERIALS**
- 3/4" THROUGH 2" REDUCED PRESSURE BACKFLOW PREVENTOR WITH BALL VALVES.
 - PVC ADAPTER, M.I.P.T. X F.I.P.T.
 - COPPER WATER TUBE, TYPE "K" OR BRASS OR SCH 40 PVC.
 - COPPER OR BRASS 90 DEGREE BEND WITH COPPER SOLDER JOINTS.
 - COPPER OR BRASS UNION WITH COPPER SOLDER OR THREADED JOINTS.
 - BRASS OR COPPER TO PVC ADAPTER.
 - 18" WIDE X 4" THICK CONCRETE PAD, LENGTH VARIES PER ASSEMBLY SIZE.
 - SCH 40 PVC PIPE.
 - BRASS OR COPPER NIPPLE.
 - COPPER WATER TUBE, TYPE "K" OR BRASS.
 - 1" OR 2" SERVICE PER TOWD STD. DWG. W-1 AND W-3.
 - PVC TO BRASS OR COPPER ADAPTER.

- NOTES:**
- PROVIDE AN USC APPROVED BACKFLOW PREVENTION ASSEMBLY.
 - TOWD MAINTENANCE RESPONSIBILITY STOPS AT THE METER. THE CUSTOMER IS RESPONSIBLE TO TEST AND MAINTAIN THE BACKFLOW PREVENTION ASSEMBLY. CERTIFICATION SHALL BE DELIVERED TO TOWD.
 - BACKFLOW CERTIFICATION TESTING IS REQUIRED ANNUALLY AT A MINIMUM BUT MAY BE MORE FREQUENT AS DEEMED NECESSARY BY TOWD. CERTIFICATION TESTING IS REQUIRED IMMEDIATELY AFTER AN ASSEMBLY IS RELOCATED, REPLACED, AND REPAIRED.
 - BACKFLOW PREVENTION ASSEMBLY SIZE SHALL MATCH THE DIAMETER OF THE METER IN ACCORDANCE WITH THE UNIFORM PLUMBING CODE, CHAPTER 6, SECTION 610 AS AMENDED, OR UP TO 1" LARGER.
 - BACKFLOW PREVENTION ASSEMBLY INSTALLATIONS INCLUDING ALL APPURTENANCES FOR THE SUPPLY OF DOMESTIC WATER SHALL COMPLY WITH THE REQUIREMENTS OF THE CALIFORNIA LEAD-FREE ACT AB1953.
 - BACKFLOW PREVENTION ASSEMBLY SHALL BE LOCATED AS CLOSE AS PRACTICAL TO THE WATER METER BOX BUT NOT FURTHER THAN 12" UNLESS A VARIANCE IS OBTAINED FROM TOWD PRIOR TO INSTALLATION.
 - NO OUTLETS, TEES, OR CONNECTIONS SHALL BE ALLOWED BETWEEN THE METER AND THE BACKFLOW PREVENTION ASSEMBLY.
 - BACKFLOW PREVENTION ASSEMBLIES SHALL MAINTAIN A VERTICAL CLEARANCE FROM THE LOWEST POINT OF 12" (MIN.) TO 24" (MAX.) ABOVE FINISHED GRADE, WITH SIDE AND TOP CLEARANCES OF 12" (MIN.) FOR ANY OBSTRUCTIONS IN ALL DIRECTIONS.
 - PARALLEL INSTALLATIONS OF THE SAME TYPE OF BACKFLOW PREVENTION ASSEMBLIES ARE REQUIRED FOR ALL FACILITIES REQUIRING UNINTERRUPTED WATER SUPPLY, SUCH AS, HOSPITALS AND SCHOOLS.
 - THEFT PREVENTION DEVICES ARE RECOMMENDED FOR BRASS ASSEMBLIES ALLOWING ASSOCIATE ACCESS TO THE ASSEMBLY FOR TESTING, MAINTENANCE, AND PROPER DRAINAGE.

REDUCED PRESSURE PRINCIPLE BACKFLOW ASSEMBLY, 2" AND SMALLER

NO.	DATE	REVISION	APPROVED BY	DATE

APPROVED BY ENGINEERING DEPARTMENT

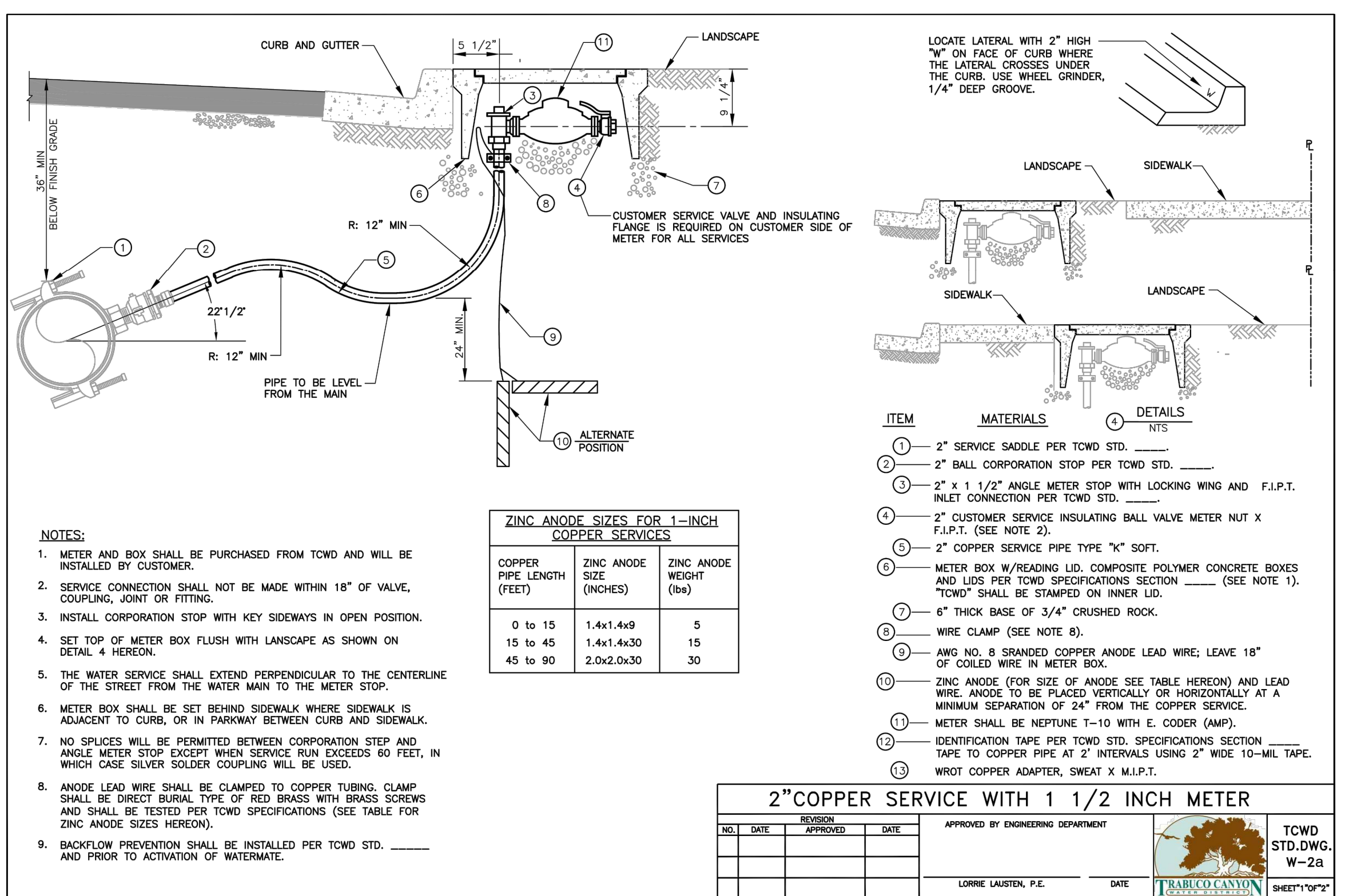
LORRAINE LAUSTEN, P.E. DATE

TOWD STD. DWG. W-7

TRABUCO CANYON WATER DISTRICT

SHEET "01" OF "1"

REDUCED PRESSURE BACKFLOW ASSEMBLY
NTA



- NOTES:**
- METER AND BOX SHALL BE PURCHASED FROM TOWD AND WILL BE INSTALLED BY CUSTOMER.
 - SERVICE CONNECTION SHALL NOT BE MADE WITHIN 18" OF VALVE, COUPLING, JOINT OR FITTING.
 - INSTALL CORPORATION STOP WITH KEY SIDEWAYS IN OPEN POSITION.
 - SET TOP OF METER BOX FLUSH WITH LANDSCAPE AS SHOWN ON DETAIL 4 HEREON.
 - THE WATER SERVICE SHALL EXTEND PERPENDICULAR TO THE CENTERLINE OF THE STREET FROM THE WATER MAIN TO THE METER STOP.
 - METER BOX SHALL BE SET BEHIND SIDEWALK WHERE SIDEWALK IS ADJACENT TO CURB, OR IN PARKWAY BETWEEN CURB AND SIDEWALK.
 - NO SPLICES WILL BE PERMITTED BETWEEN CORPORATION STOP AND ANGLE METER STOP EXCEPT WHEN SERVICE RUN EXCEEDS 60 FEET, IN WHICH CASE SILVER SOLDER COUPLING WILL BE USED.
 - ANODE LEAD WIRE SHALL BE CLAMPED TO COPPER TUBING, CLAMP SHALL BE DIRECT BURIAL TYPE OF RED BRASS WITH BRASS SCREWS AND SHALL BE TESTED PER TOWD SPECIFICATIONS (SEE TABLE FOR ZINC ANODE SIZES HEREON).
 - BACKFLOW PREVENTION SHALL BE INSTALLED PER TOWD STD. AND PRIOR TO ACTIVATION OF WATERMATE.

ZINC ANODE SIZES FOR 1-INCH COPPER SERVICES

COPPER PIPE LENGTH (FEET)	ZINC ANODE SIZE (INCHES)	ZINC ANODE WEIGHT (lbs)
0 to 15	1.4x1.4x0.8	5
15 to 45	1.4x1.4x3.0	15
45 to 90	2.0x2.0x3.0	30

- ITEM MATERIALS**
- 2" SERVICE SADDLE PER TOWD STD.
 - 2" BALL CORPORATION STOP PER TOWD STD.
 - 2" X 1 1/2" ANGLE METER STOP WITH LOCKING WING AND F.I.P.T. INLET CONNECTION PER TOWD STD.
 - 2" CUSTOMER SERVICE INSULATING BALL VALVE METER NUT X F.I.P.T. (SEE NOTE 2).
 - 2" COPPER SERVICE PIPE TYPE "K" SOFT.
 - METER BOX W/READING LID. COMPOSITE POLYMER CONCRETE BOXES AND LIDS PER TOWD SPECIFICATIONS SECTION "TOWD" SHALL BE STAMPED ON INNER LID.
 - 6" THICK BASE OF 3/4" CRUSHED ROCK.
 - WIRE CLAMP (SEE NOTE 8).
 - AWG. NO. 8 STRANDED COPPER ANODE LEAD WIRE; LEAVE 18" OF COILED WIRE IN METER BOX.
 - ZINC ANODE (FOR SIZE OF ANODE SEE TABLE HEREON) AND LEAD WIRE. ANODE TO BE PLACED VERTICALLY OR HORIZONTALLY AT A MINIMUM SEPARATION OF 24" FROM THE COPPER SERVICE.
 - METER SHALL BE NEPTUNE T-10 WITH E. CODER (AMP).
 - IDENTIFICATION TAPE PER TOWD STD. SPECIFICATIONS SECTION TAPE TO COPPER PIPE AT 2' INTERVALS USING 2" WIDE 10-ML TAPE.
 - WROT COPPER ADAPTER, SWEAT X M.I.P.T.

2" COPPER SERVICE WITH 1 1/2 INCH METER

NO.	DATE	REVISION	APPROVED BY	DATE

APPROVED BY ENGINEERING DEPARTMENT

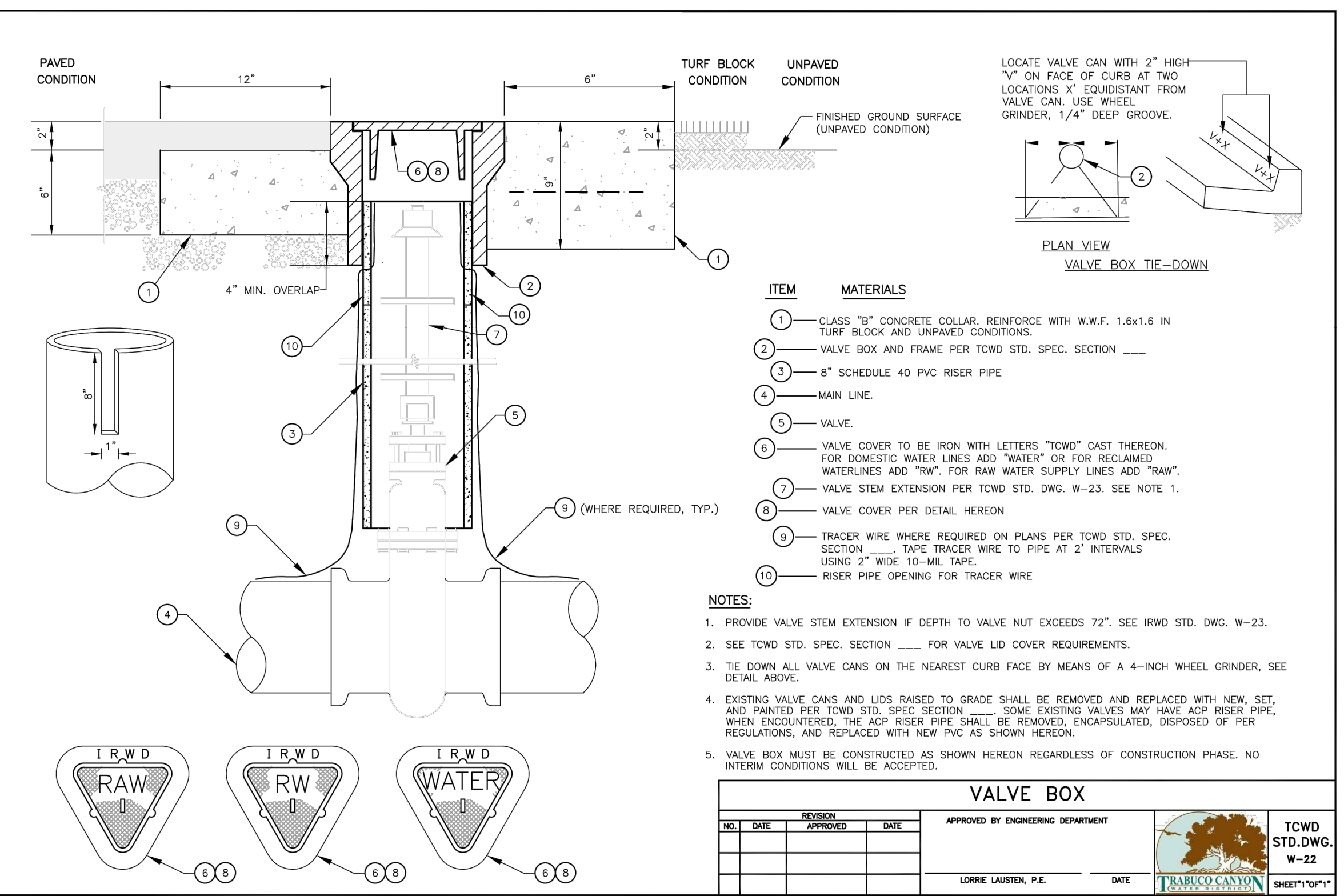
LORRAINE LAUSTEN, P.E. DATE

TOWD STD. DWG. W-2a

TRABUCO CANYON WATER DISTRICT

SHEET "01" OF "2"

1 1/2" METER STANDARD
NTA



- ITEM MATERIALS**
- CLASS "B" CONCRETE COLLAR REINFORCE WITH W.W.F. 1.6x1.6 IN TURF BLOCK AND UNPAVED CONDITIONS.
 - VALVE BOX AND FRAME PER TOWD STD. SPEC. SECTION ____
 - 8" SCHEDULE 40 PVC RISER PIPE
 - MAIN LINE.
 - VALVE.
 - VALVE COVER TO BE IRON WITH LETTERS "TOWD" CAST THEREON. FOR DOMESTIC WATER LINES ADD "WATER" OR FOR RECLAIMED WATERLINES ADD "RW". FOR RAW WATER SUPPLY LINES ADD "RAW".
 - VALVE STEM EXTENSION PER TOWD STD. DWG. W-23. SEE NOTE 1.
 - VALVE COVER PER DETAIL HEREON.
 - TRACER WIRE WHERE REQUIRED ON PLANS PER TOWD STD. SPEC. SECTION ____ TAPE TRACER WIRE TO PIPE AT 2' INTERVALS USING 2" WIDE 10-ML TAPE.
 - RISER PIPE OPENING FOR TRACER WIRE.

- NOTES:**
- PROVIDE VALVE STEM EXTENSION IF DEPTH TO VALVE NUT EXCEEDS 72"; SEE IRWD STD. DWG. W-23.
 - SEE TOWD STD. SPEC. SECTION ____ FOR VALVE LID COVER REQUIREMENTS.
 - TIED DOWN ALL VALVE CANS ON THE NEAREST CURB FACE BY MEANS OF A 4-INCH WHEEL GRINDER, SEE DETAIL ABOVE.
 - EXISTING VALVE CANS AND LIDS RAISED TO GRADE SHALL BE REMOVED AND REPLACED WITH NEW, SET, AND PAINTED PER TOWD STD. SPEC. SECTION ____ SOME EXISTING VALVES MAY HAVE ACP RISER PIPE, WHEN ENCOUNTERED, THE ACP RISER PIPE SHALL BE REMOVED, ENCAPSULATED, DISPOSED OF PER REGULATIONS, AND REPLACED WITH NEW PVC AS SHOWN HEREON.
 - VALVE BOX MUST BE CONSTRUCTED AS SHOWN HEREON REGARDLESS OF CONSTRUCTION PHASE. NO INTERIM CONDITIONS WILL BE ACCEPTED.

VALVE BOX

NO.	DATE	REVISION	APPROVED BY	DATE

APPROVED BY ENGINEERING DEPARTMENT

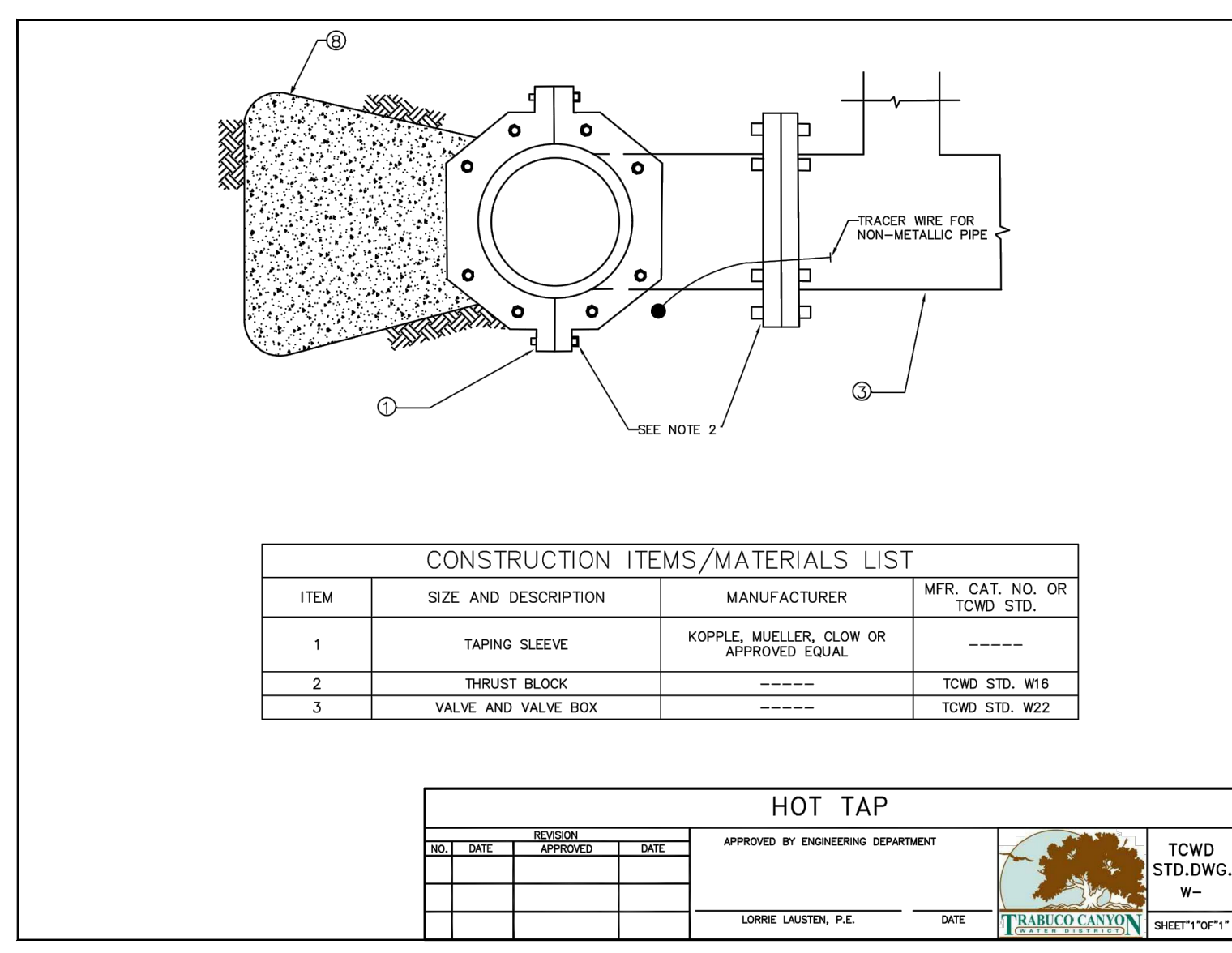
LORRAINE LAUSTEN, P.E. DATE

TOWD STD. DWG. W-22

TRABUCO CANYON WATER DISTRICT

SHEET "01" OF "1"

TOWD STD. W-22
NTA



CONSTRUCTION ITEMS/MATERIALS LIST

ITEM	SIZE AND DESCRIPTION	MANUFACTURER	MFR. CAT. NO. OR TOWD STD.
1	TAPPING SLEEVE	KOPPLE, MAUELLER, CLOW OR APPROVED EQUAL	-----
2	THRUST BLOCK	-----	TOWD STD. W18
3	VALVE AND VALVE BOX	-----	TOWD STD. W22

HOT TAP

NO.	DATE	REVISION	APPROVED BY	DATE

APPROVED BY ENGINEERING DEPARTMENT

LORRAINE LAUSTEN, P.E. DATE

TOWD STD. DWG. W-22

TRABUCO CANYON WATER DISTRICT

SHEET "01" OF "1"

HOT TAP DETAIL
NTA

CONTRACTORS SHALL NOTIFY UNDERGROUND SERVICE ALERT A MINIMUM OF 48 HOURS PRIOR TO BEGINNING ANY CONSTRUCTION WORK. SEE GENERAL NOTES FOR FURTHER INFORMATION.

DIG ALERT

CALL BEFORE YOU DIG

TOLL FREE 1-800-227-2800

A PUBLIC SERVICE BY UNDERGROUND SERVICE ALERT

Two Working Days Before You Dig

REV.	DATE	BY	DESCRIPTION	APPROVED BY	DATE

DESIGN BY: D.L.M.

REVIEWED BY: D.J.M.

DMC ENGINEERING

CIVIL ■ SURVEYING ■ PLANNING ■ CONSTRUCTION

18 Technology Drive, Suite 100, Irvine, CA 92618

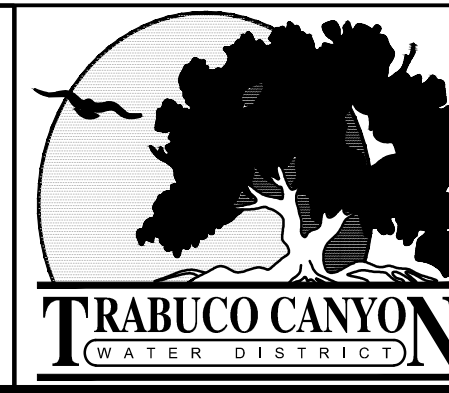
E-Mail: dmc@dmceng.com (949) 753-9393

APPROVED

TRABUCO CANYON WATER DISTRICT

LORRAINE S. LAUSTEN, P.E. RCE #67027 DATE

DISTRICT ENGINEER



TRABUCO CANYON WATER DISTRICT

ORANGE COUNTY RESCUE MISSION WATER LINE

DETAILS

SHEET

6

OF 6 SHEETS

Dmc JN: 728-49

Project: Jan 04, 2022 - 2:37pm by: DDM
 Drawing Name: U:\0081728-49 TRWC_SR_Michael's Albany WATER LINE Title Sheet.dwg

ORANGE COUNTY RESCUE MISSION WATER LINE

**TRABUCO CANYON WATER DISTRICT
REGULAR BOARD MEETING | JANUARY 20, 2022**

**ACTION CALENDAR
ENGINEERING MATTERS**

ITEM 7: APPROVAL OF SUB-AREA MASTER PLAN FOR SADDLEBACK MEADOWS DEVELOPMENT (181 DUs)

The proposed Saddleback Meadows residential development (Development) is located on 222 acres of property within the unincorporated area of southeastern Orange County, California, in the Foothill-Trabuco area. The parcel is being planned and engineered for the California Quartet, LTD, ("CQ") by Hunsaker and Associates ("Hunsaker"). The proposed development has gone through several iterations and modification, and most recently, consisted of 181 detached single-family homes. A Sub-Area Master Plan ("SAMP") for this development was originally prepared by PSOMAS in May 2006. Hunsaker requested that the District prepare an updated SAMP for the Development. Staff has been working with PSOMAS on the updated SAMP and this report is included as Exhibit 1.

The total storage (operational, fire flow and emergency) required for the development is 820,000 gallons. Due to geological constraints, the proposed elevation of the storage is much lower than previous plan, which would create an isolated zone for the Development. The District has considered an alternative option of locating the required storage on an alternative District property, which is included in the updated Draft SAMP.

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

FUNDING SOURCE:

By Developer

FISCAL IMPACT:

By Developer

ENVIRONMENTAL COMPLIANCE:

All Environmental Compliance will be met by the Developer.

COMMITTEE STATUS:

This matter was reviewed with the Engineering/Operational Committee.

RECOMMENDED ACTION:

Receive and approve the Sub Area Master Plan (SAMP) for the Saddleback Meadows Development prepared by Psomas.

EXHIBITS:

1. DRAFT-Sub-Area Master Plan for Saddleback Meadows Development

CONTACTS (staff responsible): PALUDI/LAUSTEN

SADDLEBACK MEADOWS SUB AREA MASTER PLAN

December 2021



Prepared for:

TRABUCO CANYON WATER DISTRICT

32003 Dove Canyon Drive

Trabuco, CA 92679



Prepared by:

PSOMAS

5 Hutton Centre Drive, Suite 300

Santa Ana, CA 92707

Project No. 2TRA132500

TABLE OF CONTENTS

1.	Project Overview	1-1
1.1	General Description	1-1
1.2	Proposed Development	1-1
1.3	Urban Water Use Targets	1-2
1.4	Model Water Efficient Landscape Ordinance	1-4
2.	Proposed Domestic Water System	2-1
2.1	Water Use Factors.....	2-1
2.2	Source of Supply.....	2-6
2.3	Water Storage Requirements	2-6
2.4	Computer Modeling and System Layout.....	2-10
3.	Wastewater System	3-1
3.1	Regional Collection, Treatment and Disposal Facilities	3-1
3.2	Wastewater Flow Factors	3-1
3.3	System Layout	3-2
4.	Project Costs	4-1

TABLES

Table 2-1	Irrigation Demand Projections	2-1
Table 2-2	Water Demand Projections	2-5
Table 2-3	Average Day, Maximum Day, and Peak Hour Demands	2-5
Table 2-4	Storage Requirement.....	2-7
Table 4-1	Off-site Water Facilities Cost	4-2
Table 4-2	Off-site Sewer Facilities Cost	4-3

DRAFT

FIGURES

Figure 1-1	Development Plan.....	1-3
Figure 2-1A	Water Facilities	2-2
Figure 2-1B	Water Facilities	2-3
Figure 2-2	Storage Analysis	2-9
Figure 2-3	Project Transmission Pipeline	2-11
Figure 2-4	Individual Pressure Regulator Lots	2-14
Figure 3-1	Wastewater Collection System.....	3-3

DRAFT

Appendices

- Appendix A Saddleback Meadows TTM Lot Statistics
- Appendix B Water Demand Support Data
- Appendix C Storage Analysis Support Data
- Appendix D Model Output and Node Diagram

DRAFT

1. Project Overview

1.1 General Description

The water and wastewater improvements detailed within this Sub-Area Master Plan (SAMP) are for the proposed residential development of Saddleback Meadows. A SAMP had previously been prepared for this project in 2006. The development area and number of homes have been reduced substantially since the previous SAMP. The current plan calls for 181 dwelling units and this SAMP is being prepared to determine what will be involved in providing water and sewer service to this proposed plan, assuming it goes through the planning approval process in fairly the same configuration.

Sewer service is relatively straight forward in that the landowner purchased capacity in the El Toro Road/Chiquita Wastewater collection and treatment system many years ago for a previous approved land use plan that contained substantially more dwelling units than is now proposed.

That previous plan had its own proposed potable water reservoir site in the northeast corner of the project at an elevation that was compatible with the District's Harris Grade hydraulic grade line and was sized to serve the much larger proposed demand based on the previous plan. Based on landslide analyses, that reservoir site, which was much higher in elevation than is now available on-site, is not feasible. Therefore, the District previously considered available storage options for the project either on-site or off-site but is now focused on the Harris Grade site. And depending on where the storage is located the water delivery system will require a solution for reliability. The recommendations in this SAMP relative to water supply and storage should therefore be considered preliminary until these issues are resolved.

Improvements include the domestic water transmission and wastewater collection/conveyance facilities, which were developed and sized to be consistent with the current version of the appropriate District's Design Criteria, and the District's 1999 Water, Wastewater, and Reclaimed Water Master Plan (1999 Master Plan).

In addition, planning level capital cost estimates were prepared for the recommended off-site facilities. This SAMP will provide the groundwork for the subsequent detailed design of these facilities.

1.2 Proposed Development

The proposed Saddleback Meadows residential development (Project) is located on 222 acres of property within the unincorporated area of southeastern Orange County, California, in the Foothill-Trabuco area. The parcel is being planned and engineered for the California Quartet, LTD by Hunsaker and Associates. The parcel is situated on the east side of El Toro Road approximately 1,000 feet south of the Live Oak Canyon Road

intersection. Aliso Creek runs north to south just outside the western property boundary. As prepared by the developer, Tentative Tract Map No. 15230 dated November 27, 2019 was used for this analysis and is shown on Figure 1-1.

Primary access to the Project site will be along the proposed roadway of Spine Street that extends east from the existing El Toro Road and ends within a cul-de-sac at the easternmost edge of the development. Additionally, a 20' wide trail easement parallels the north side of Spine Street from El Toro Road and ends at the cul-de-sac.

The Project is within the Foothill/Trabuco Specific Plan (FTSP) area, which was adopted by the County of Orange in 1991. The development contains 181 detached single-family on lots ranging in size from 4,000 to 13,810 square feet (sf), with an average lot size of 6,067 sf. A summary table prepared by Hunsaker and Associates provides the gross and net square footage of each of the 181 lots and is included in Appendix A.

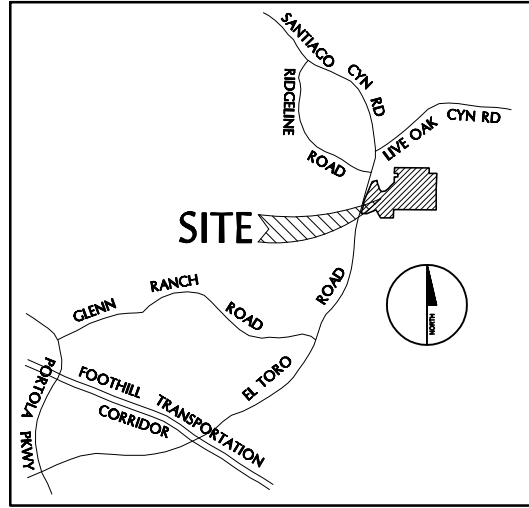
1.3 Urban Water Use Targets

The California Department of Water Resources requires urban water suppliers to prepare and adopt an Urban Water Management Plan (UWMP) every five years. UWMP's are designed to evaluate a retail water supplier's water demand and supplies in order to meet current and future growth within their respective service areas. Since 1999, there have been major legislative changes at the state level which impacts how water is allocated by water purveyors like TCWD. These water conservation-based legislative changes are included in TCWD's recently completed 2020 UWMP.

The most significant piece of water conservation-based legislation to affect retail water suppliers is SBx 7-7, enacted in 2009. SBx 7-7 requires the development of urban water use targets to achieve a twenty percent reduction in per capita daily water use by December 31, 2020. TCWD's methodology for determining its water use target to comply with SBx 7-7 is detailed in the 2020 UWMP. The 2020 water use target for TCWD is 200 gallons per capita per day (gpcd). Actual 2020 water use equaled 159 gpcd, well below the 2020 target of 200 gpcd.

Additionally, TCWD is a member of the Orange County 20 by 2020 Regional Alliance (Regional Alliance) which allows for flexibility in meeting the required per capita water use targets. If the Regional Alliance meets its water use target on a regional basis, then all member agencies are deemed compliant. If the Regional Alliance fails to meet its water use target, then each individual member will have an opportunity to meet their water use targets individually. The Orange County 20 by 2020 Regional Alliance 2020 target is 158 gpcd. The actual 2020 water use in the region was 109 gpcd, meeting the 2020 goal.

VICINITY MAP



LOT SUMMARY TABLE

LOT NUMBER	LAND USE	AREA
1 - 181	RESIDENTIAL LOTS	25.2 ACRES±
A - K	STREETS	10.5 ACRES±
L - V	OPEN SPACE	34.4 ACRES±
W - AA	OPEN SPACE/NATURAL	152.1 ACRES±



2ND REVISED VESTING
TENTATIVE TRACT MAP
NO. 15230

SHEET 1 OF 1

To meet water use targets, TCWD has implemented the following activities.

- Passive and active conservation activities
- Water conservation program permanent restrictions
- Use of additional recycled water

Water conservation activities include the demand management measures (DMMs) that TCWD implements as a signatory member of the California Water Efficiency Partnership (CWEP), formerly the California Urban Water Conservation Council (CUWCC). DMMs include the development of water conservation programs and the education of TCWD customers on the subject of wise water usage.

TCWD adopted its Water Conservation Ordinance, No. 2008-18 (Ordinance) in January 2009. The Ordinance identifies permanent mandatory water use efficiency measures which contribute to the realization of the 2015 UWMP target levels. The Ordinance and the Water Conservation Program Permanent Provisions can be accessed via the District website at www.tcwd.ca.gov.

TCWD has a long-standing practice of using recycled water, wherever possible, in order to offset the use of drinking water for irrigation purposes. TCWD will meet the reduction target levels through the continued use of recycled water in its service area, and any future developments where recycled water is available, and infrastructure can be installed. Unfortunately, the use of recycled water is not an option for the Saddleback Meadows development. Currently, there are no recycled water distribution facilities available in the area.

1.4 Model Water Efficient Landscape Ordinance

On July 15, 2015, the California Water Commission adopted a Model Water Efficient Landscape Ordinance (MWELo), which sets requirements for any new landscaping or landscaping renovation over 500 square feet. Since the Saddleback Meadows development is subject to this MWELo, the water use requirements for all landscaped areas within the project common areas have been calculated for consistency with the maximum allowable water use limits of this new ordinance. The ordinance also sets water use limits for residential landscapes, however, local agencies do not have the resources to monitor and enforce a homeowner's compliance with the ordinance and, as such, modifications and deferred maintenance by homeowners are common. Therefore, projected water use for residential landscapes has been estimated at what is believed to be more realistic values to account for properties which exceed the water use limits set by the MWELo. Specific requirements under the MWELo are as follows:

- The size threshold of landscapes subject to the ordinance is 500 square feet.

- The maximum applied water allowance (MAWA) is equal to 55% of the reference evapotranspiration (ET_o) for residential landscape projects and 45% of ET_o for non-residential projects.
- The minimum width of areas that can be overhead irrigations is 10 feet. Areas less than 10 feet in width must be irrigated with subsurface drip or other technology that produces no over spray or runoff.

DRAFT

2. Proposed Domestic Water System

Average-day, maximum-day, and peak-hour demands were estimated for domestic water and Homeowners Association (HOA) irrigation use inside Saddleback Meadows. The development pipelines were added to the District’s existing hydraulic model using InfoWater software to analyze various operation and demand scenarios in order to size distribution system pipelines and facilities. The recommended water system facilities for Saddleback Meadows are shown on Figure 2-1A for on-site storage (which is not currently being pursued) and Figure 2-1B for off-site storage and will be explained later in this section.

2.1 Water Use Factors

2.1.1 Average Day Demand

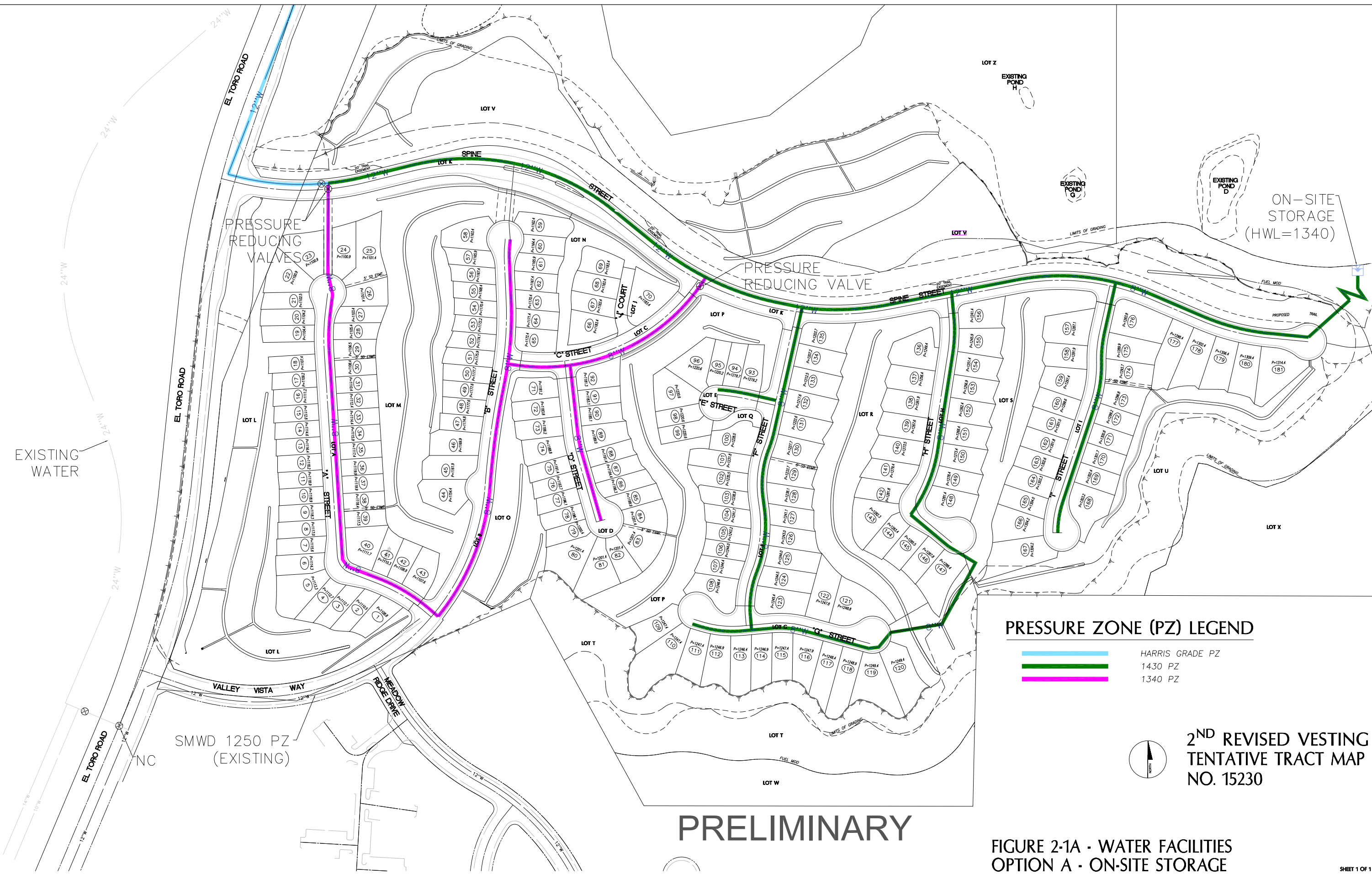
Land use information was provided by the developer’s engineer, Hunsaker and Associates, in the form of a proposed land use plan for Tentative Tract Map (TTM) 15230 along with corresponding open space and residential lot square footages. The residential lot data is included in Appendix A and results in an average lot size of 6,067 square feet (sf), with a range of 4,000 to 13,810 sf. Open space areas that are to be irrigated were tabulated by Hunsaker and Associates and are also included in Appendix A. The total irrigated open space area for the project based on this data is equal to 1,414,300 square feet or 32.5 acres. Water demand calculations for the irrigated open space areas are straightforward to estimate as they are required to meet or be lower than the maximum applied water allowance (MAWA) per the State MWELo, which is 45% of the local reference evapotranspiration rate (ET_o). The MAWA will be used to be conservative and that calculation is shown in Table 2-1.

**Table 2-1
Irrigation Demand Projections**

MAWA Calculation	
Irrigated Area (sf)	1,414,296
ET_o for Irvine CIMIS Station (in)	49.6
MAWA % of ET_o for Non-residential	45%
MAWA (gal/yr) ⁽¹⁾	19,571,600
MAWA (gpd)	53,621

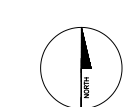
(1) $MAWA = (0.62) (ET_o) (0.45) (Area, sf)$

To develop estimates of the residential project water use for the proposed development, two methodologies were utilized. These methods were applied to a slightly earlier version



PRESSURE ZONE (PZ) LEGEND

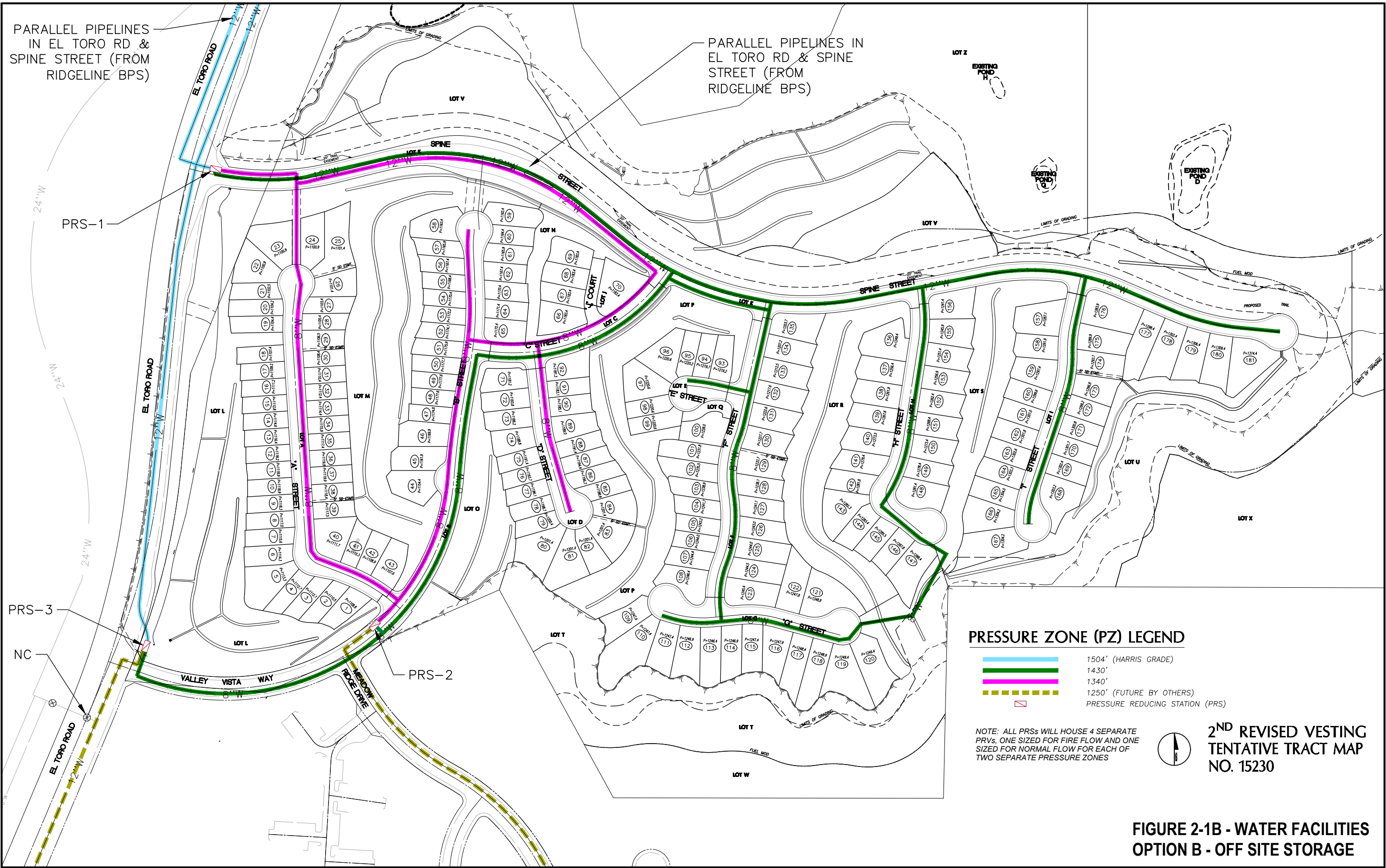
- HARRIS GRADE PZ
- 1430 PZ
- 1340 PZ



**2ND REVISED VESTING
TENTATIVE TRACT MAP
NO. 15230**

PRELIMINARY

**FIGURE 2-1A · WATER FACILITIES
OPTION A · ON-SITE STORAGE**



PRESSURE ZONE (PZ) LEGEND

- 1504' (HARRIS GRADE)
- 1430'
- 1340'
- - - 1250' (FUTURE BY OTHERS)
- PRESSURE REDUCING STATION (PRS)

NOTE: ALL PRSs WILL HOUSE 4 SEPARATE PRVs, ONE SIZED FOR FIRE FLOW AND ONE SIZED FOR NORMAL FLOW FOR EACH OF TWO SEPARATE PRESSURE ZONES



2ND REVISED VESTING TENTATIVE TRACT MAP NO. 15230

FIGURE 2-1B - WATER FACILITIES OPTION B - OFF SITE STORAGE

of the TTM, however, the conclusions can still be applied to the latest version. First, an attempt to come up with similar sized lots in other areas of the District was undertaken. Assessor Parcel information on lot size was generated for various lots in Trabuco Highlands, Robinson Ranch and Dove Canyon. Addresses and square footages for lots in these areas were collected until a good sample size (195 residences) was generated with an average lot size similar to the average for the Saddleback Meadows lots. The addresses and square footages for these lots are shown in Appendix B with an average lot size of 6,467 sf, about 6% larger than the Project lots. Maps of these lots are also included in Appendix B. Water meter usage data for calendar years 2017 and 2018 was obtained from the District for the 195 similar lots with an average use of 347 and 358 gpd, respectively in 2017 and 2018, for a two-year average of 352 gpd.

As a check, a second water use methodology was utilized. This method involved generating a typical house footprint in terms of square footage based on home sizes along with typical assumptions for garages, driveways, and hardscapes. This generates a landscape area for each lot and then typical assumptions can be made for plant palettes that will, in turn, generate outside water demand. Adding a reasonable inside water demand per capita and a people per dwelling unit factor was used to generate a total water demand per residence, which was compared to the first method utilized. The previous TTM used for this analysis encompassed the same development area but included less homes, 166 total (versus 181 for the current TTM), on slightly larger lots averaging 6,487 sf. This analysis is detailed in Appendix B with the average outside irrigated area equal to 32% of the average lot area. This same assumption was used for the lots in the revised TTM, on a per lot basis. The resulting average landscape area for all 181 homes is calculated to equal 1,960 sf based on the average lot size of 6,067 sf.

To determine the average water use for irrigation it is assumed that half of each lot's landscape area is turf with a plant factor (PF) of 0.85 and an irrigation efficiency (IE) of 0.7 and the other half is various ground cover and/or shrubs with a PF of 0.4 and an IE of 0.8. The resulting estimated outside irrigation use is equal to 142 gpd/du. Subtracting this value from the average total water use from the meter reads on the similar lot sizes of 352 gpd results in 210 gpd for inside water use. Assuming an average occupancy of 3.3 people per dwelling unit generates an inside water use of 64 gallons per capita per day (gpcd). The State Department of Water Resources has set a goal of 55 gpcd for new home construction so the 352 gpd/du seems to be a reasonable and conservative value for estimating the total residential water demand for the development plan proposed for Saddleback Meadows (at 3.8 people per dwelling unit the use would be exactly 55 gpcd).

Based on the above, the estimated average day demand (ADD) for Saddleback Meadows is summarized in Table 2-2.

**Table 2-2
Water Demand Projections**

Land Use	ADD (gpd)	ADD (AFY)
Residential	63,712	71.4
Common Area Irrigation (HOA)	53,621	60.1
Total	117,333	131.4

Residential Use = 352 gpd/du x 181 du

2.1.2 Peak Water Demands

Maximum-day demand is defined as the largest demand day of the year. A Maximum-day demand (MDD) factor is the ratio of maximum-day demand to average-day demand. Based on an analysis of historical District daily water production and water storage, a MDD factor of 1.95 was calculated for domestic water demand and a factor of 2.2 was estimated for HOA irrigation demand in the 1999 Master Plan.

Peak hour demand is the largest hourly demand of the year. A peak-hour demand (PHD) factor is the ratio of peak-hour demand to maximum-day demand. Based on an evaluation of hourly water use in the Dove Canyon pressure zone, a peak-hour demand (PHD) factor of 2.47 was calculated for domestic water demand for the overall District water system in the 1999 Master Plan. Based on a review of irrigation practices in the District, it was estimated in the 1999 Master Plan that HOA irrigation demand typically occurs nightly between the hours of 7 p.m. and 7 a.m., which is a 12-hour irrigation period.

Accordingly, a PHD factor of 2.0 was developed for HOA irrigation in the 1999 Master Plan. These MDD factors will be used in this Sub Area Master Plan. The average-day, maximum-day and peak-hour domestic water and HOA irrigation demands for Saddleback Meadows are shown in Table 2-3.

**Table 2-3
Average Day, Maximum Day, and Peak Hour Demands**

Land Use	Water Demand (GPD)		
	ADD	MDD ⁽¹⁾	PHD ⁽²⁾
Residential	63,712	124,238	306,869
HOA Irrigation	53,621	117,966	235,932
Total	117,333	242,204	542,800

(1) Residential MDD = 1.95 x ADD and HOA MDD = 2.2 x ADD

(2) Residential PHD = 2.47 x MDD and HOA PHD = 2.0 x MDD

2.1.3 Fire Flow Demand

Based on information provided from David Oatis, the developer's consultant who obtained the information from the Orange County Fire Authority (OCFA), the anticipated fire flow will be 1,125 gpm for a one-hour duration at a minimum residual pressure of 20 psi. This value is based on preliminary home sizes, construction types, sprinkler requirements and "Attachment 23, Table B105.1(2): Minimum Required Fire Flow and Flow Duration for Buildings in OCFA Jurisdiction" from OCFA's Fire Master Plans for Commercial & Residential Development: B-09 dated January 1, 2020. Final fire hydrant locations will be developed by the project civil engineer but are assumed to be at approximate 300-foot spacing. Following finalization of the storage and water delivery option, final fire flow analysis will be conducted using the existing and proposed facilities and final pipe sizing within the tract and off-site will be confirmed.

2.2 Source of Supply

The District's Dimension Water Treatment Plant (DWTP) provides water into the Cooks Reservoir pressure zone for further transmission to the rest of the distribution system. Three high service booster pumps at the DWTP have a combined capacity of 6 cfs and lift water from the clearwell directly into the Cooks Reservoir zone at a hydraulic grade line (HGL) of approximately 1,165 feet, equal to the maximum water level in Cooks Reservoir. Water is boosted from the Cooks Reservoir zone to the Harris Grade pressure zone (1,504' HGL) by the Ridgeline Booster Station. This zone is also connected to three other water systems and two water districts, IRWD (Lake Forest), IRWD (Santiago), and SMWD, through interties. The Ridgeline Booster Station, which was recently re-designed and improvements constructed, now has 3 pumps with a combined capacity of 6 cfs, matching the capacity of the DWTP booster pumps. The Saddleback Meadows project site will connect to the Harris Grade pressure zone served by the Ridgeline Booster Station. The project will therefore be responsible for its pro-rata share of the upgrades to the Ridgeline Booster Station that were recently constructed.

2.3 Water Storage Requirements

The total storage requirements for the project are determined based on the criteria from the 1999 Water Master Plan, which calls for 10 hours of maximum day demand for operational storage, five average days for emergency storage, and fire flow storage. The five average days for emergency storage would be equivalent to 7 days at a 29 percent reduction, which is what Metropolitan Water District considers reasonable (25 to 35 percent) based on water conservation during recent drought periods. Using these criteria and the demand analysis provided, the total storage requirement is as shown in Table 2-4.

**Table 2-4
Storage Requirement**

Storage Type	Volume (gal)
Operational ⁽¹⁾	100,918
Fire Flow ⁽²⁾	67,500
Emergency ⁽³⁾	586,664
Total	755,082

(1) 10 hours of Maximum Day Demand

(2) 1,125 gpm fire flow for 1 hour

(3) 5 days of Average Day Demand

The preliminary grading plan provided by the developer’s engineer and dated July 11, 2019, showed a reservoir located on-site with a pad elevation of 1,420’. Based on discussions with the developer’s representative and engineer, this is as high an elevation as can be reasonably provided based on geotechnical concerns due to potential landslides that would require extensive grading and remediation of the site and be extremely expensive. However, this SAMP analyzed two options. Option A, which is not under consideration, would be to construct on-site storage at an elevation that could supply the upper zone by gravity and Option B would be to contribute to the construction of off-site storage along with a parallel pipeline from the Ridgeline Booster Pump Station to Spine Street and up Spine Street to “F” Street. Without on-site storage, the on- and off-site parallel pipelines are required to provide a second source of supply to the project for reliability/redundancy.

The most feasible alternative available to the District for providing off-site storage, which the developer could contribute to is the existing Harris Grade Reservoir site. The District has also reviewed the District’s Porter Ranch property but that is not under consideration. The District has conducted feasibility studies on these alternative sites. After discussions and negotiations, the developer and District have agreed to pursue the off-site storage option at the Harris Grade site through a joint participation agreement.

Hydraulic modeling was performed to determine off-site pipe sizes and verify sufficient water can be delivered to the site under each option.

The “existing” scenario that was preliminarily modeled assumed the following:

1. A 12-inch diameter line is constructed from the Ridgeline Booster Pump Station (RBPS) to the Saddleback Meadows entrance road to serve the development with the buildout demand placed on that location.

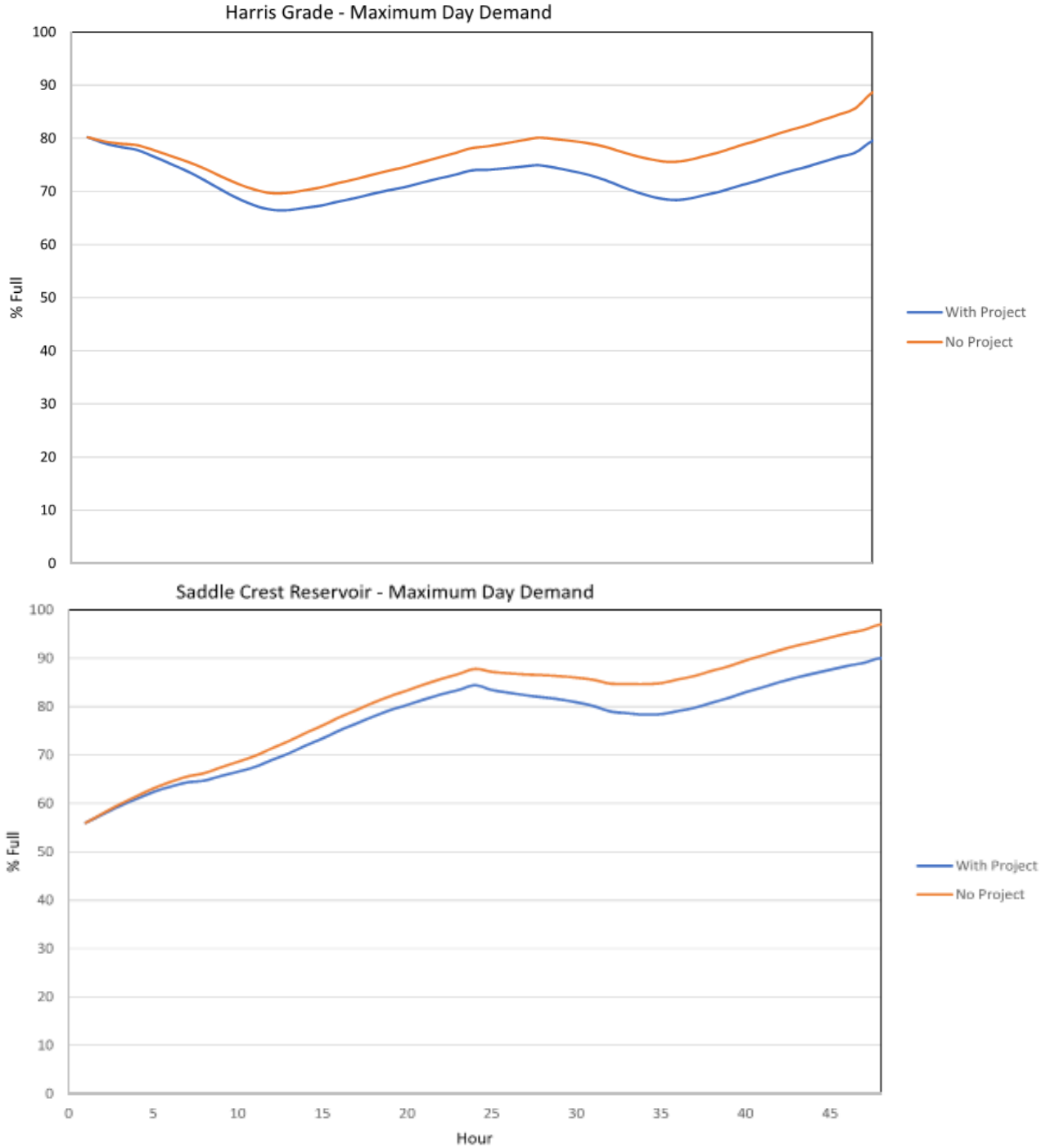
2. Parallel 12-inch pipelines are needed to the entrance to provide redundancy (two sources of supply) and the 12-inch line is continued southerly in El Toro Road to Valley Vista Way to provide this redundancy to the entire project as shown in Figure 2-1B. The parallel system was not included in the model as it is needed for reliability in case one line is down for whatever reason.
3. An 18-inch pipeline is constructed from Cook's Corner along Live Oak Canyon Road to the location where the line branches off to the Harris Grade Reservoirs. This line is needed to reduce head loss from the Ridgeline Booster Pump Station and from Saddle Crest Reservoir to Harris Grade Reservoir.
4. The Saddle Crest Reservoir is on-line along with the buildout demands for the Saddle Crest development.
5. The total District-wide average day demand (ADD) is 1,640 gpm or about 2.36 MGD (10 percent higher than average over past 7 years).
6. The District-wide maximum day demand (MDD) is 2,650 gpm or about 3.81 MGD.
7. All demands are served from the Dimension Water Treatment Plant or from the west (no wells or supply from interconnections), in order to be conservative (worst case).

The average day demand and maximum day demand loading in the hydraulic model were updated to reflect 2018 production data provided by the District and included in Appendix C. The ADD for 2018 equaled 2.36 MGD based on monthly production data. The MDD was estimated using daily production data for Dimension Water Treatment Plant (DWTP) and monthly data for supply from the District's capacity in the South County Pump Station/Santa Margarita Water District (SMWD) System at Plano Trabuco Road (Plano). For the purpose of determining demand, it was assumed that the Plano supply was taken at a constant rate during each month. The maximum day in 2018 occurred in August with the estimated daily production equal to 3.81 MGD, close to the flow capacity from DWTP of 3.9 MGD. This MDD flow rate is assumed to be conservative as it is likely that more water was taken from SMWD during periods of no production from DWTP and less taken during high production from DWTP, rather than distributed equally each day as was assumed.

An extended period simulation was run using the District's hydraulic model and the above assumptions. Figure 2-2 shows percent full for both Harris Grade and Saddle Crest Reservoirs for a 48-hour period during assumed MDD conditions. It shows that the Harris Grade Reservoir levels remain virtually the same with the Saddleback Meadows development demands and gradually increase without the development. The Saddle Crest Reservoir levels increase both with and without the Saddleback Meadows demand added. The RBPS is set to come on and off based on the Harris Grade Reservoir levels and Saddle Crest Reservoir is allowed to fluctuate independently.

The modeled MDD can be sustained with supply from the DWTP both with and without the Saddleback Meadows demand. Additionally, the District could take water from SMWD if higher demand conditions were to occur, which would probably be called for even in the case without the proposed development and its demands.

**Figure 2-2
Storage Analysis**



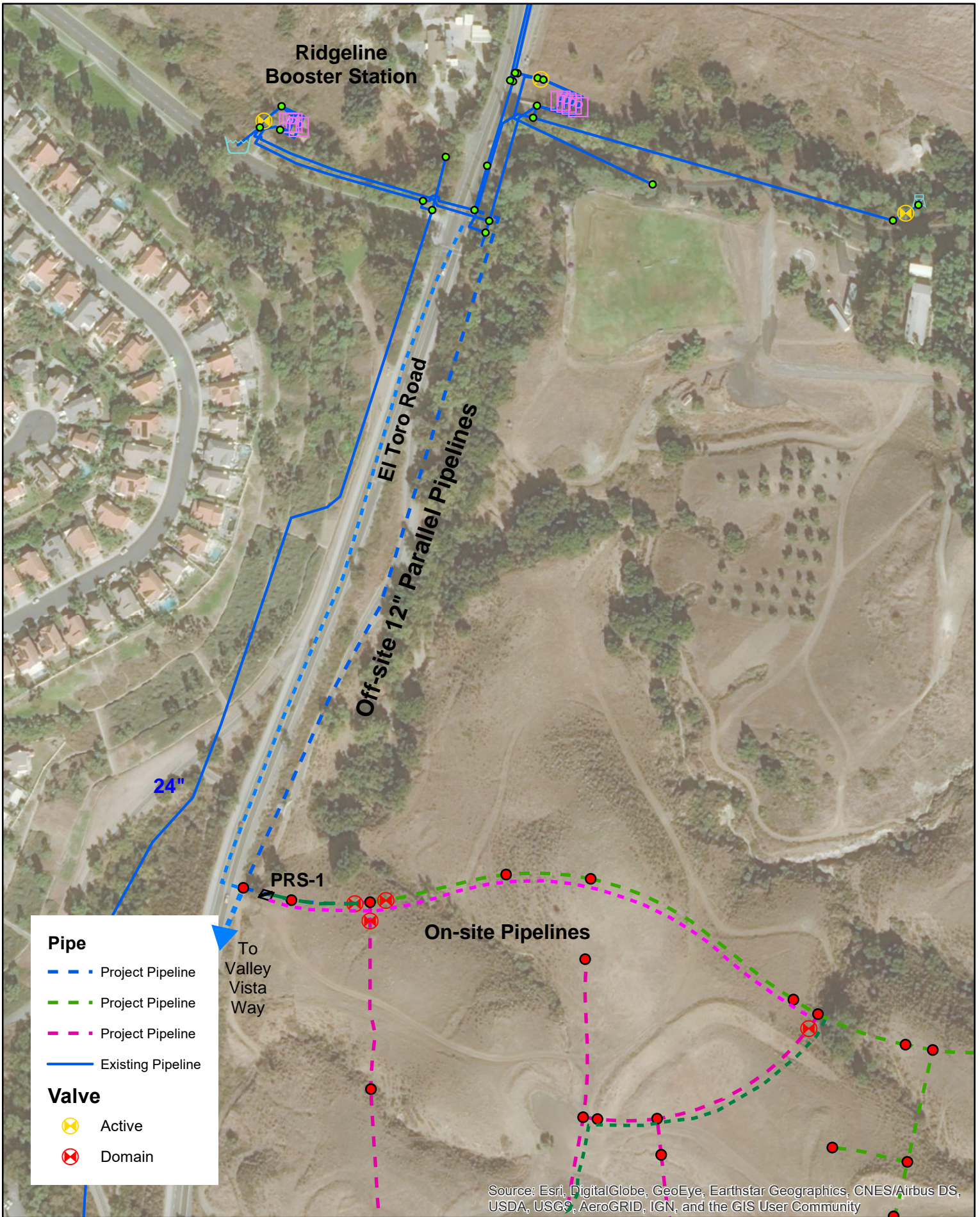
2.4 Computer Modeling and System Layout

Water service to the Saddleback Meadows project can be extended from the existing water lines at the intersection of El Toro Road and Ridgeline Road that are boosted from the Ridgeline Booster Station to the Harris Grade pressure zone. The Harris Grade Reservoirs have a high-water elevation of 1,504 feet. Option B, which is the preferred alternative, requires parallel 12” pipelines to be constructed in El Toro Road from Ridgeline Road to the Project entrance road, then a single 12” pipeline would continue down El Toro Road to Valley Vista Way. These pipelines are illustrated on Figure 2-3. As stated previously, improvements to the Ridgeline Booster Station were recently completed and were on-line prior to the Saddleback Meadows development coming online and are included in model simulations for the Project. Also, a new 18-inch transmission pipeline parallel to the existing 10- and 14-inch lines is proposed to be constructed from Cook’s Corner along Live Oak Canyon Road to the location where the line branches off to the Harris Grade Reservoirs. This pipeline is assumed to be in place for Project simulations and would replace the existing 10-inch pipeline along that alignment.

The proposed onsite water facilities were added to the District’s existing water system model, which uses InfoWater hydraulic modeling software. The proposed water system facilities are illustrated on Figure 2-1A (on-site storage, which is currently not being pursued) and Figure 2-1B (off-site storage). The proposed system meets the District’s looping criteria which states that two water main connections are required for each street unless it is a dead-end street serving 25 or less normal-size residential lots. A pipeline easement will be required between the eastern end of “G” Street and the southern end of “H” Street to connect these two cul-de-sacs, in order to satisfy District looping criteria.

2.4.1 Pressure Zones

Pad elevations within the Saddleback Meadows development range from 1,100 to 1,314 feet above sea level. A proposed pipeline from the Ridgeline Booster Station to the project site along El Toro Road will serve the project from the Harris Grade Reservoir Pressure Zone with a HGL of 1504 feet (full reservoir). In order to provide adequate pressure to customers, a planning guideline of providing a minimum static pressure of 50 psi at the highest service elevation is typically used in the initial layout of the proposed system. This way, a minimum dynamic pressure of 40 psi can be maintained with the reservoir at a lower than full level and during peak hour demand conditions. Adequate flows and pressures must also be achieved under fire flow conditions. Additionally, the District wants to keep distribution pipeline pressures below 150 psi.



Pressure zone boundaries were set to achieve adequate pressures throughout the proposed development based on model simulations. Two pressure zones are recommended for the site based on the range of lot elevations. The higher pressure zone will serve the higher elevation lots on the easterly portion of the site starting at “F” Street to the cul-de-sac at the eastern end of Spine Street. The lower pressure zone will serve the remaining lots from El Toro Road and east to “C” Street. Both zones will be reduced off of the Harris Grade Pressure Zone using pressure reducing stations to limit excessive pressures, particularly when the Ridgeline Booster Station is operating. The upper zone is set to a HGL of 1430 feet and the lower zone is set to a HGL of 1340 feet. The recommended locations of the PRV stations and pressure zones are illustrated on Figure 2-1A and B.

2.4.2 Model Simulations and Results

Various operation and demand scenarios were analyzed with the model to size system pipelines and facilities such that performance meets all District criteria as outlined in the TCWD Design Criteria and Standard Drawings for Water and Sewer Facilities, June 2002. The proposed facilities were modeled using ADD, PHD, and MDD plus fire flow assuming the off-site storage option. Fire flows were modeled at 1,125 gpm during maximum day demand conditions as confirmed by OCFA. Sufficient service and fire pressures were modeled using each scenario. The model output and corresponding node diagram are included in Appendix D, including fire flows at each node in the development.

Fire flow demand occurring on the MDD typically controls distribution main sizing. Fire simulations for the highest locations in each pressure zone were evaluated, at the eastern end of Spine Street in the 1430 zone and the southern end of “D” Street in the 1340 zone. Based on model results, a 12-inch distribution pipeline is recommended along Spine Street from El Toro Road to “I” Street with 8-inch distribution pipelines elsewhere within the tract.

Peak-hour demand for domestic water and HOA irrigation are simulated in the model using a diurnal curve with peak domestic demand occurring in the morning between the hours of 7:00 a.m. and 8:00 a.m. and HOA demand between the hours of 11:00 p.m. and 7:00 a.m., which is an 8-hour irrigation period. Therefore, the combined peak-hour demand for domestic water and HOA irrigation occurs at approximately 7:00 a.m. Model simulation results show sufficient pressure during peak hour demand, above 40 psi, and pipeline velocities less than 8 feet per second.

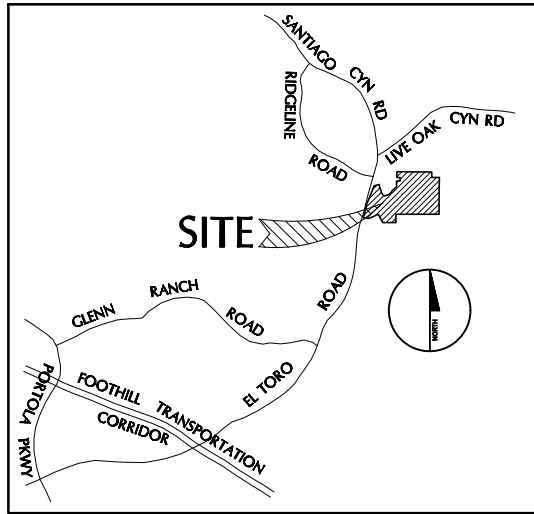
Per District and uniform plumbing code (UPC) criteria, pressure regulators are required on the customer’s side of the meter where static pressures exceed 80 psi at the meter. Based on PRV settings, static pressures above 80 psi occur at the lots along “A” Street in

the lower zone and along “E” and “F” Streets in the upper zone and a single lot on “H” Street. These lots (requiring individual pressure regulators) are highlighted on Figure 2-4.

Upstream of the pressure reducing stations, at the entrance to the project, there are pressures equal to approximately 190 psi, in excess of the maximum desired pressure of 150 psi. These would occur along the 12-inch transmission pipeline serving the project from Ridgeline Booster Station. It is recommended to use higher pressure class for this reach of transmission pipeline. It should be pointed out here again, that the water system layout is preliminary and as with on-site storage, the pressure zone HGLs could be somewhat different.

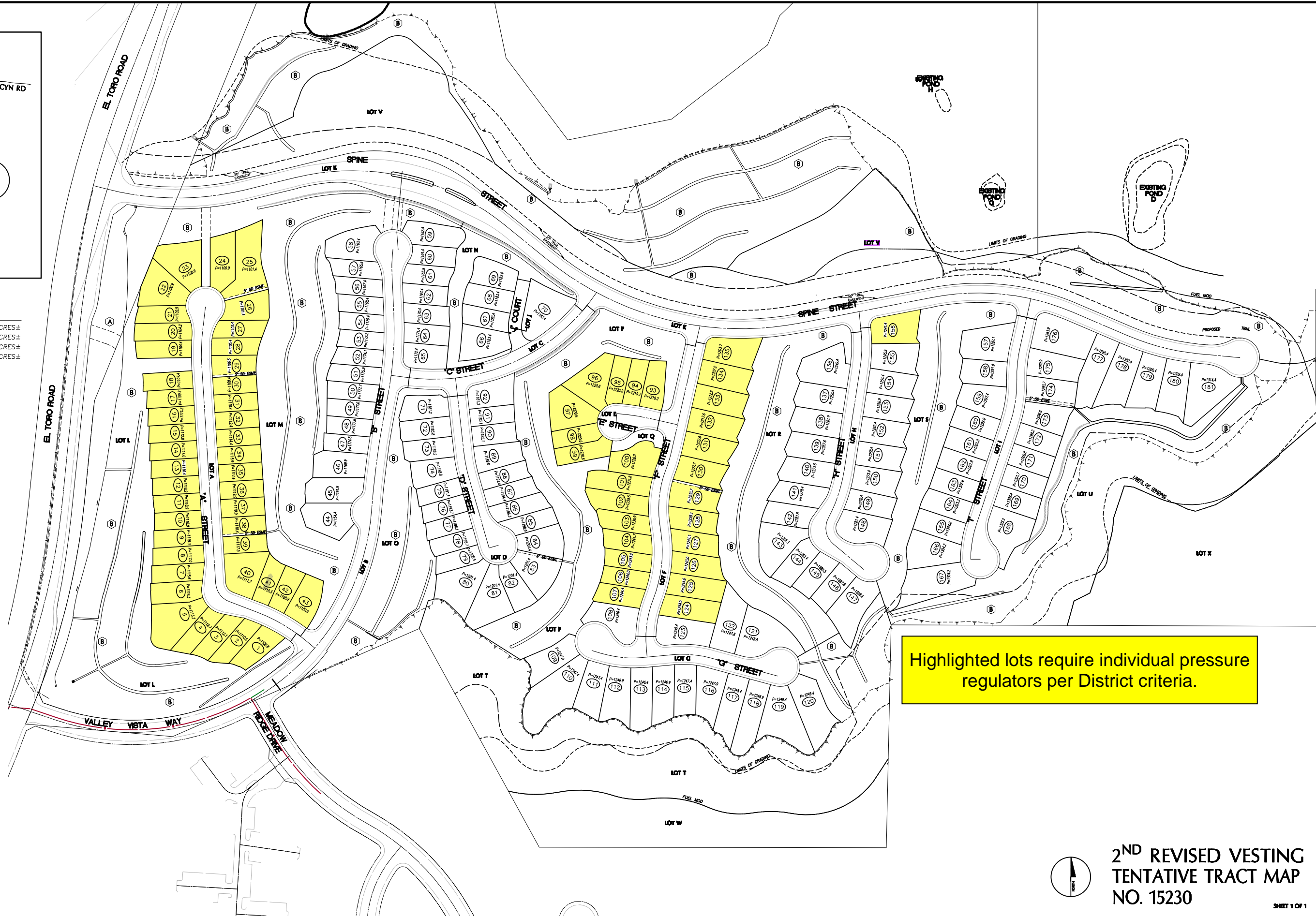
DRAFT

VICINITY MAP



LOT SUMMARY TABLE

LOT NUMBER	LAND USE	AREA
1 - 181	RESIDENTIAL LOTS	25.2 ACRES±
A - K	STREETS	10.5 ACRES±
L - V	OPEN SPACE	34.4 ACRES±
W - AA	OPEN SPACE/NATURAL	152.1 ACRES±



Highlighted lots require individual pressure regulators per District criteria.



2ND REVISED VESTING TENTATIVE TRACT MAP NO. 15230

SHEET 1 OF 1

Figure 2-4

3. Wastewater System

3.1 Regional Collection, Treatment and Disposal Facilities

Wastewater generated from Saddleback Meadows will be conveyed into the District's existing El Toro Road Collection Zone. This collection zone receives wastewater from the District and SMWD, Wastewater collected in this zone is conveyed through the El Toro Road Collection System, which consists of a 15-inch trunk sewer in El Toro Road, the El Toro Road Sewage Lift Station, and dual force mains in Santa Margarita Parkway, to the SMWD wastewater system.

The District owns 1.78 mgd capacity in the El Toro Road System and 0.428 mgd in the SMWD Chiquita sewage system, which includes collection, treatment at the Chiquita Water Reclamation Plant, and ultimate disposal of treated effluent via the Chiquita Land Outfall and the Serra Ocean Outfall. The total capacity of the El Toro Road system is 1.96 mgd. However, capacity in the SMWD system is currently limited to 1.15 mgd.

3.2 Wastewater Flow Factors

Since all the land uses within the proposed projects are similar residential uses, the only flow factor to be concerned with is the inside water use within the homes that is discharged to the sewer system. Average dry weather wastewater flow (ADWF) in the District was determined to be 270 gpd/du in the 1999 Master Plan, based on calibration of the sewer model. The housing density for Saddleback Meadows is approximately 5 dwelling units per acre after subtracting out the open space within the development boundaries. Based on indoor water use factors from IRWD for this housing density, a wastewater generation of 200 to 225 gpd/du is appropriate. The demand analysis presented in Section 2.1 estimated an indoor use for the Project equal to 210 gpd/du, within this expected range. Also discussed in Section 2.1, the State Department of Water Resources has set a goal of 55 gpcd for indoor water use for new home construction. With an estimated 3.3 persons per du, the indoor use would equal 64 gpcd, making 210 gpd/du conservative when compared to State standards. Applying the more conservative Master Plan factor 270 gpd/du to the 181 dwelling units, results in an average flow of 48,870 gpd or 0.05 mgd. The District owns sewer rights of up to 200,000 gpd of average flow for the benefit of the project.

Peak dry-weather wastewater flows (PDWF) were derived from the formula $PDWF = 1.84 \times (ADWF)^{0.92}$, where flow is in cubic feet per second (cfs). The formula, which was originally developed by Los Angeles County Sanitation District, was assessed to be valid in the 1999 Master Plan by comparing the measured peak factors at three District lift stations with the calculated peak flows using this formula. The resulting peak flow for the Project equals 110,550 gpd or 0.11 mgd. The resulting average flow to peak flow factor equals 2.26.

3.3 System Layout

The minimum pipe size for gravity sewers per the District's standards is 8-inches in diameter and the Saddleback Meadows development is not large enough to warrant anything bigger than this. Using the District minimum slope criteria of 0.4 percent, the maximum depth to diameter ratio (d/D) equals 0.32 for the Project peak flow of 0.11 mgd. The District standard for maximum d/D ratio for 8-inch pipeline is equal to 0.50. Therefore, all gravity sewer pipelines constructed for the project site will be 8-inch, except for private lateral sewers.

The proposed sewer system layout is shown in Figure 3-1. The system will collect to Spine Street and cross El Toro Road to connect with the existing 15-inch TCWD trunk sewer just to the west of El Toro Road. The sewer should be designed to meet District criteria; 7 feet minimum depth of cover from finished grade to the top of sewer and manhole spacing not to exceed the maximum of 400 linear feet for 8-inch sewer. The sewers will be constructed of PVC pipe per District criteria, with special requirements for the El Toro Road sewer crossing and any deep sewers.

DRAFT



EXISTING 15" SEWER

LEGEND

- PROPOSED 8" SEWER
- - - EXISTING SEWER



2ND REVISED VESTING
TENTATIVE TRACT MAP
NO. 15230

**FIGURE 3-1 - WASTEWATER
COLLECTION SYSTEM**

4. Project Costs

The engineer for the developer will be responsible for preparing a cost estimate for all onsite water and wastewater facilities that are to be constructed to serve the project. The developer will be responsible for a pro-rata share of the cost to upgrade the Ridgeline Booster Station and pipeline upgrades between Ridgeline and Harris Grade Reservoirs. The costs will be determined by the District prior to issuance of a will serve letter.

The developer will also be responsible for a contribution toward off-site storage (Option B) for their project's water demands and the ancillary water facilities that accompany that option, as shown on Figure 2-1B (on-site) and Figure 2-3 (off-site). The developer's contribution toward off-site storage is under discussion and will be based on actual construction costs, which have been estimated in recent studies conducted by the District for different sized storage reservoirs including the Harris Grade site. The preferred storage solution, as agreed upon, is the off-site option at the Harris Grade site and the cost sharing is subject to a pending agreement between the developer and District.

The total project water use from Table 2-2 is equal to 117,333 gpd. Dividing by the 181 dwelling units results in an average total development water use of 648 gpd/du. The total water demand of 117,333 gpd divided by the District average equivalent dwelling unit (edu) demand of 459 gpd/edu yields approximately 256 edus for the entire development or 2.54 edu/du.

Water capital improvement charges for up to 715 edus were previously purchased for Tract 15239 (formerly Tract 10692) by a prior owner through an agreement with the District dated September 21, 1988 and have been reserved by the District for this development. This agreement was for Tract 10692, which included 705 dwelling units and 1.7 acres of commercial land. This tract was also included in the original 6 cubic feet per second of water supply capacity from 1988 Water Allocation Report. Therefore, no water capital improvement charges or supplemental water capacity fees are due for this project.

For sewer service, the landowner purchased capacity in the El Toro Road/Santa Margarita Water District Chiquita Wastewater collection and treatment system many years ago for a previous approved land use plan that contained substantially more dwelling units than is now proposed. Therefore, no sewer capacity charges are due for this project.

The planning-level estimated costs for the recommended off-site water and sewer facilities are shown in Table 4-1 and 4-2, respectively. The estimated construction cost includes a 20% contingency. The capital project cost was developed by applying 25% to the construction cost to account for technical, legal, and administrative costs and including permitting costs.

**Table 4-1
Off-site Water Facilities Cost^(d)**

Description	Units	Unit Cost	Cost
Storage ^(a)	755,082 gal	TBD	TBD
Ridgeline Pump Station ^(b)	LS	-	\$166,500
12" Transmission Pipelines in El Toro Road	4,200 LF	\$150/LF	\$630,000
12" Butterfly Valve	6	\$3,300 EA	\$19,800
18" Transmission Pipeline ^(c)	4,500 LF	6% of \$300/LF	\$81,000
18" Butterfly Valve ^(c)	5	\$6,000	\$30,000
Subtotal	-	-	TBD
20% Contingency	-	-	TBD
Construction Cost	-	-	TBD
25% Technical, Legal & Administration	-	-	TBD
Capital Project Cost	-	-	TBD

(a) Storage solution, as agreed upon, is the off-site option at the Harris Grade site and the cost sharing is subject to a pending agreement between the developer and District.

(b) Pro-rata participation in District costs for 6 cfs Ridgeline Booster Station based on Project MDD = 0.37 cfs. District paying 100% of 2 cfs capacity (\$0.27 million) and sharing the cost with another developer for the remaining 4 cfs capacity (\$1.26 million District portion). Saddleback Meadows cost = $0.37/2 \times \$0.27 \text{ million} + 0.37/4 \times \1.26 million .

(c) Pro-rata participation in water transmission line from Cook's Corner to Harris Grade Reservoir. Project MDD = 0.37 cfs, Capacity = 6.0 cfs; Therefore, pro rata share = 6.0%

d) Except for Ridgeline Pump Station, all pro-rata participation, unit costs, and therefore total costs are estimates and, as such, should be considered preliminary and subject to change as they will be based on actual costs. For the 12" transmission lines in El Toro Road and 12" butterfly valves, developer is responsible for 100% of cost of design and construction per District standards, review and inspection, and unit costs are provided for estimating purposes only.

**Table 4-2
Off-site Sewer Facilities Cost**

Description	Units	Unit Cost	Cost
Mobilization	LS		\$60,000
8" Sewer ^(a)	130 LF	\$325/LF	\$42,250
8" Sewer ^(b)	150 LF	\$150/LF	\$22,500
Standard Manholes	2	\$5,500/EA	\$11,000
Connect to Existing Sewer	LS		\$30,000
Subtotal	-		\$165,750
20% Contingency	-		\$33,150
Construction Cost	-		\$198,900
25% Technical, Legal & Administration	-		\$49,725
Capital Project Cost	-		\$248,625

(a) Jack and bore 8" pipe in steel casing across El Toro Road.

(a) Down slope to connect to existing trunk sewer in trail.

(b) All cost estimates should be considered preliminary and subject to change. While these are titled off-site sewer facilities they are assumed to be constructed as part of subdivision improvements by developer.

APPENDIX A

Saddleback Meadows TTM Lot Statistics

DRAFT

LOT SUMMARY TABLE

Lot No.	Gross SQ.FT.	Net SQ.FT.	Lot No.	Gross SQ.FT.	Net SQ.FT.	Lot No.	Gross SQ.FT.	Net SQ.FT.	Lot No.	Gross SQ.FT.	Net SQ.FT.
1	5,708	5,308	47	4,120	4,120	93	5,119	4,884	139	6,597	5,713
2	4,978	4,721	48	4,113	3,913	94	4,268	4,268	140	6,851	5,925
3	4,941	4,941	49	4,378	4,378	95	4,394	4,394	141	6,007	5,769
4	4,990	4,990	50	4,654	4,654	96	8,241	8,241	142	5,524	5,523
5	9,731	9,731	51	4,816	4,570	97	8,110	8,110	143	8,673	8,410
6	5,523	5,286	52	4,457	4,219	98	4,366	4,366	144	5,676	5,461
7	4,745	4,504	53	4,156	3,939	99	5,262	4,699	145	5,269	5,052
8	4,660	4,430	54	4,125	3,916	100	7,175	6,095	146	5,362	5,362
9	4,462	4,462	55	4,167	3,958	101	6,436	5,640	147	9,545	9,545
10	4,314	4,355	56	4,346	4,346	102	6,196	5,610	148	7,661	6,692
11	4,278	4,278	57	4,606	4,379	103	5,074	4,779	149	5,442	5,211
12	4,274	4,274	58	7,624	7,387	104	4,942	4,500	150	6,054	5,511
13	4,308	4,077	59	6,624	6,411	105	4,311	4,311	151	5,822	5,275
14	4,319	4,100	60	4,623	4,405	106	4,266	4,266	152	6,024	5,261
15	4,313	4,094	61	4,899	4,688	107	4,851	4,308	153	5,950	5,291
16	4,284	4,066	62	4,621	4,421	108	7,502	7,502	154	5,977	5,317
17	4,287	4,069	63	4,720	4,720	109	6,966	6,966	155	6,870	6,207
18	4,531	4,302	64	4,658	4,658	110	13,810	13,810	156	7,167	5,563
19	5,064	5,064	65	5,577	4,810	111	6,950	6,950	157	8,669	6,768
20	5,247	5,118	66	7,332	7,332	112	7,622	7,622	158	5,962	4,860
21	4,692	4,437	67	4,883	4,883	113	7,142	7,142	159	6,799	6,372
22	8,103	7,521	68	5,528	5,528	114	6,465	6,465	160	5,332	5,117
23	8,772	8,772	69	5,984	5,984	115	5,804	5,804	161	5,253	5,253
24	6,977	6,977	70	10,043	7,734	116	7,122	7,122	162	5,275	5,275
25	10,874	10,355	71	5,682	4,837	117	7,412	7,412	163	5,301	5,301
26	5,985	5,760	72	5,453	4,668	118	8,415	8,415	164	5,530	5,530
27	4,601	4,372	73	5,328	4,551	119	11,213	11,213	165	5,720	5,720
28	4,357	4,357	74	5,820	5,024	120	10,069	10,069	166	8,230	8,230
29	4,846	4,346	75	4,140	3,930	121	10,750	10,750	167	11,049	11,049
30	4,000	3,600	76	4,110	3,899	122	8,136	8,136	168	8,771	8,771
31	4,000	3,800	77	4,189	3,974	123	7,597	7,232	169	5,088	4,882
32	4,000	3,800	78	4,186	3,983	124	6,514	6,082	170	5,000	4,800
33	4,000	3,800	79	4,195	4,195	125	6,437	5,954	171	5,000	4,800
34	4,000	3,800	80	9,386	9,386	126	5,796	5,762	172	5,000	4,800
35	4,000	3,800	81	9,052	9,052	127	5,429	5,209	173	6,175	5,972
36	4,000	4,000	82	5,263	5,263	128	5,577	5,352	174	6,765	5,249
37	4,200	4,200	83	7,810	7,279	129	6,549	5,991	175	7,299	5,281
38	4,300	3,600	84	6,199	6,199	130	6,307	5,403	176	10,672	6,445
39	4,021	4,021	85	4,556	4,556	131	6,451	5,753	177	8,864	7,532
40	8,015	7,319	86	5,212	4,835	132	6,749	6,017	178	9,070	7,871
41	4,436	4,209	87	4,764	4,417	133	6,710	5,945	179	7,909	7,055
42	4,573	4,370	88	4,492	4,176	134	6,598	5,802	180	7,749	6,966
43	6,410	6,201	89	5,856	5,095	135	7,404	5,844	181	10,981	10,981
44	7,727	6,146	90	4,641	4,026	136	8,752	7,378			
45	7,267	4,719	91	4,077	3,875	137	6,523	5,679			
46	7,013	5,699	92	6,261	5,587	138	6,504	5,679			

Total Gross	1,098,072 S.F.
Average Gross	6,067 S.F.
Total Net	1,029,210 S.F.
Average Net	5,686 S.F.

OPEN SPACE AREAS

Lot No.	Use	Area SQ.FT.	Landscaped/Irrigated Area SQ.FT.	Trail SQ.FT.
A	Road	46,029	0	0
B	Road	79,028	0	0
C	Road	21,711	0	0
D	Road	21,376	0	0
E	Road	9,005	0	0
F	Road	32,571	0	0
G	Road	31,497	0	0
H	Road	34,247	0	0
I	Road	31,312	0	0
J	Road	4,965	0	0
K	Road	145,055	0	0
L	Landscape/Trail	178,396	169,931	8,465
M	Landscape	173,316	173,316	0
N	Landscape	22,200	22,200	0
O	Landscape	61,359	57,917	0
P	Landscape	102,572	102,572	0
Q	Landscape	3,365	3,365	0
R	Landscape	85,367	85,367	0
S	Landscape	60,167	60,167	0
T	Landscape/Open Space	228,490	30,853	0
U	Landscape/Open Space	196,983	86,638	0
V	Landscape/Open Space/Water Quality/20' Equestrian Trail	385,967	276,482	50,709
W	Open Space	87,942	0	0
X	Open Space	1,754,047	0	0
Y	Open Space	3,522,717	146,801	0
Z	Open Space	1,185,159	198,687	0
AA	Open Space	76,919	0	0

APPENDIX B

Water Demand Support Data

DRAFT

Lot Sizes, Hardscape/Landscape Area and Water Use Calculation

(all areas in square feet (sf), lots sorted smallest to largest)

Lot No.	Lot sf	House	Building Footprint	Garage	Drive-way	Footprint + Garage + D'way	Remainder	Hardscape	Landscape	% Irrigated Area
30	4,500	3,555	1,955	400	440	2,795	1,705	682	1,023	23%
31	4,500	3,555	1,955	400	440	2,795	1,705	682	1,023	23%
32	4,500	3,555	1,955	400	440	2,795	1,705	682	1,023	23%
33	4,500	3,555	1,955	400	440	2,795	1,705	682	1,023	23%
11	4,620	3,555	1,955	400	440	2,795	1,825	730	1,095	24%
55	4,621	3,555	1,955	400	440	2,795	1,826	730	1,095	24%
53	4,623	3,555	1,955	400	440	2,795	1,828	731	1,097	24%
47	4,630	3,555	1,955	400	440	2,795	1,835	734	1,101	24%
57	4,658	3,555	1,955	400	440	2,795	1,863	745	1,118	24%
10	4,668	3,555	1,955	400	440	2,795	1,873	749	1,124	24%
69	4,673	3,555	1,955	400	440	2,795	1,878	751	1,127	24%
84	4,674	3,555	1,955	400	440	2,795	1,879	752	1,127	24%
9	4,701	3,555	1,955	400	440	2,795	1,906	762	1,143	24%
56	4,720	3,555	1,955	400	440	2,795	1,925	770	1,155	24%
41	4,725	3,555	1,955	400	440	2,795	1,930	772	1,158	25%
48	4,728	3,555	1,955	400	440	2,795	1,933	773	1,160	25%
42	4,735	3,555	1,955	400	440	2,795	1,940	776	1,164	25%
95	4,792	3,555	1,955	400	440	2,795	1,997	799	1,198	25%
70	4,794	3,555	1,955	400	440	2,795	1,999	800	1,199	25%
94	4,798	3,555	1,955	400	440	2,795	2,003	801	1,202	25%
46	4,843	3,555	1,955	400	440	2,795	2,048	819	1,229	25%
8	4,849	3,555	1,955	400	440	2,795	2,054	822	1,232	25%
49	4,874	3,555	1,955	400	440	2,795	2,079	832	1,247	26%
60	4,883	3,555	1,955	400	440	2,795	2,088	835	1,253	26%
93	4,889	3,555	1,955	400	440	2,795	2,094	838	1,256	26%
54	4,899	3,555	1,955	400	440	2,795	2,104	842	1,262	26%
43	4,963	3,555	1,955	400	440	2,795	2,168	867	1,301	26%
117	4,970	3,555	1,955	400	440	2,795	2,175	870	1,305	26%
27	5,000	3,555	1,955	400	440	2,795	2,205	882	1,323	26%
92	5,000	3,555	1,955	400	440	2,795	2,205	882	1,323	26%
115	5,060	3,555	1,955	400	440	2,795	2,265	906	1,359	27%
118	5,065	3,555	1,955	400	440	2,795	2,270	908	1,362	27%
6	5,091	3,555	1,955	400	440	2,795	2,296	918	1,377	27%
28	5,100	3,555	1,955	400	440	2,795	2,305	922	1,383	27%
29	5,100	3,555	1,955	400	440	2,795	2,305	922	1,383	27%
88	5,128	3,555	1,955	400	440	2,795	2,333	933	1,400	27%
114	5,148	3,555	1,955	400	440	2,795	2,353	941	1,412	27%
50	5,168	3,555	1,955	400	440	2,795	2,373	949	1,424	28%
12	5,199	3,555	1,955	400	440	2,795	2,404	962	1,442	28%
119	5,199	3,555	1,955	400	440	2,795	2,404	962	1,442	28%
26	5,224	3,555	1,955	400	440	2,795	2,429	972	1,457	28%

Lot Sizes, Hardscape/Landscape Area and Water Use Calculation

(all areas in square feet (sf), lots sorted smallest to largest)

Lot No.	Lot sf	House	Building Footprint	Garage	Drive-way	Footprint + Garage + D'way	Remainder	Hardscape	Landscape	% Irrigated Area
13	5,233	3,555	1,955	400	440	2,795	2,438	975	1,463	28%
14	5,233	3,555	1,955	400	440	2,795	2,438	975	1,463	28%
91	5,257	3,555	1,955	400	440	2,795	2,462	985	1,477	28%
78	5,263	3,555	1,955	400	440	2,795	2,468	987	1,481	28%
81	5,293	3,555	1,955	400	440	2,795	2,498	999	1,499	28%
15	5,300	3,555	1,955	400	440	2,795	2,505	1,002	1,503	28%
68	5,323	3,555	1,955	400	440	2,795	2,528	1,011	1,517	28%
76	5,344	3,555	1,955	400	440	2,795	2,549	1,020	1,529	29%
3	5,345	3,555	1,955	400	440	2,795	2,550	1,020	1,530	29%
45	5,362	3,555	1,955	400	440	2,795	2,567	1,027	1,540	29%
44	5,381	3,555	1,955	400	440	2,795	2,586	1,034	1,551	29%
34	5,383	3,555	1,955	400	440	2,795	2,588	1,035	1,553	29%
2	5,465	3,555	1,955	400	440	2,795	2,670	1,068	1,602	29%
155	5,500	3,555	1,955	400	440	2,795	2,705	1,082	1,623	30%
156	5,500	3,555	1,955	400	440	2,795	2,705	1,082	1,623	30%
157	5,500	3,555	1,955	400	440	2,795	2,705	1,082	1,623	30%
116	5,501	3,555	1,955	400	440	2,795	2,706	1,082	1,623	30%
148	5,503	3,555	1,955	400	440	2,795	2,708	1,083	1,625	30%
149	5,508	3,555	1,955	400	440	2,795	2,713	1,085	1,628	30%
150	5,513	3,555	1,955	400	440	2,795	2,718	1,087	1,631	30%
83	5,515	3,555	1,955	400	440	2,795	2,720	1,088	1,632	30%
80	5,516	3,555	1,955	400	440	2,795	2,721	1,088	1,632	30%
111	5,526	3,555	1,955	400	440	2,795	2,731	1,092	1,638	30%
61	5,528	3,555	1,955	400	440	2,795	2,733	1,093	1,640	30%
58	5,577	3,555	1,955	400	440	2,795	2,782	1,113	1,669	30%
7	5,598	3,555	1,955	400	440	2,795	2,803	1,121	1,682	30%
18	5,603	3,555	1,955	400	440	2,795	2,808	1,123	1,685	30%
87	5,643	3,555	1,955	400	440	2,795	2,848	1,139	1,709	30%
151	5,657	3,555	1,955	400	440	2,795	2,862	1,145	1,717	30%
24	5,704	3,555	1,955	400	440	2,795	2,909	1,164	1,745	31%
103	5,713	3,555	1,955	400	440	2,795	2,918	1,167	1,751	31%
105	5,746	3,555	1,955	400	440	2,795	2,951	1,180	1,770	31%
67	5,760	3,555	1,955	400	440	2,795	2,965	1,186	1,779	31%
21	5,767	3,555	1,955	400	440	2,795	2,972	1,189	1,783	31%
77	5,782	3,555	1,955	400	440	2,795	2,987	1,195	1,792	31%
1	5,785	3,555	1,955	400	440	2,795	2,990	1,196	1,794	31%
121	5,798	3,555	1,955	400	440	2,795	3,003	1,201	1,802	31%
36	5,807	3,555	1,955	400	440	2,795	3,012	1,205	1,807	31%
104	5,839	3,555	1,955	400	440	2,795	3,044	1,218	1,826	31%
17	5,877	3,555	1,955	400	440	2,795	3,082	1,233	1,849	31%
25	5,909	3,555	1,955	400	440	2,795	3,114	1,246	1,868	32%

Lot Sizes, Hardscape/Landscape Area and Water Use Calculation

(all areas in square feet (sf), lots sorted smallest to largest)

Lot No.	Lot sf	House	Building Footprint	Garage	Drive-way	Footprint + Garage + D'way	Remainder	Hardscape	Landscape	% Irrigated Area
125	5,948	3,555	1,955	400	440	2,795	3,153	1,261	1,892	32%
99	5,951	3,555	1,955	400	440	2,795	3,156	1,262	1,893	32%
152	5,965	3,555	1,955	400	440	2,795	3,170	1,268	1,902	32%
62	5,984	3,555	1,955	400	440	2,795	3,189	1,276	1,913	32%
65	6,002	3,555	1,955	400	440	2,795	3,207	1,283	1,924	32%
79	6,032	3,555	1,955	400	440	2,795	3,237	1,295	1,942	32%
120	6,052	3,555	1,955	400	440	2,795	3,257	1,303	1,954	32%
158	6,080	3,555	1,955	400	440	2,795	3,285	1,314	1,971	32%
66	6,115	3,555	1,955	400	440	2,795	3,320	1,328	1,992	33%
97	6,153	3,555	1,955	400	440	2,795	3,358	1,343	2,015	33%
52	6,190	3,555	1,955	400	440	2,795	3,395	1,358	2,037	33%
82	6,261	3,555	1,955	400	440	2,795	3,466	1,386	2,079	33%
101	6,298	3,555	1,955	400	440	2,795	3,503	1,401	2,102	33%
124	6,310	3,555	1,955	400	440	2,795	3,515	1,406	2,109	33%
16	6,327	3,555	1,955	400	440	2,795	3,532	1,413	2,119	33%
135	6,331	3,555	1,955	400	440	2,795	3,536	1,414	2,121	34%
138	6,353	3,555	1,955	400	440	2,795	3,558	1,423	2,135	34%
122	6,395	3,555	1,955	400	440	2,795	3,600	1,440	2,160	34%
112	6,473	3,555	1,955	400	440	2,795	3,678	1,471	2,207	34%
140	6,509	3,555	1,955	400	440	2,795	3,714	1,486	2,228	34%
64	6,518	3,555	1,955	400	440	2,795	3,723	1,489	2,234	34%
139	6,593	3,555	1,955	400	440	2,795	3,798	1,519	2,279	35%
102	6,653	3,555	1,955	400	440	2,795	3,858	1,543	2,315	35%
100	6,697	3,555	1,955	400	440	2,795	3,902	1,561	2,341	35%
113	6,709	3,555	1,955	400	440	2,795	3,914	1,566	2,348	35%
40	6,724	3,555	1,955	400	440	2,795	3,929	1,572	2,357	35%
142	6,774	3,555	1,955	400	440	2,795	3,979	1,592	2,387	35%
129	6,778	3,555	1,955	400	440	2,795	3,983	1,593	2,390	35%
141	6,781	3,555	1,955	400	440	2,795	3,986	1,594	2,391	35%
128	6,823	3,555	1,955	400	440	2,795	4,028	1,611	2,417	35%
123	6,918	3,555	1,955	400	440	2,795	4,123	1,649	2,474	36%
107	6,931	3,555	1,955	400	440	2,795	4,136	1,654	2,481	36%
38	6,932	3,555	1,955	400	440	2,795	4,137	1,655	2,482	36%
143	7,170	3,555	1,955	400	440	2,795	4,375	1,750	2,625	37%
106	7,176	3,555	1,955	400	440	2,795	4,381	1,752	2,628	37%
146	7,177	3,555	1,955	400	440	2,795	4,382	1,753	2,629	37%
85	7,183	3,555	1,955	400	440	2,795	4,388	1,755	2,633	37%
51	7,236	3,555	1,955	400	440	2,795	4,441	1,776	2,664	37%
37	7,271	3,555	1,955	400	440	2,795	4,476	1,790	2,685	37%
90	7,272	3,555	1,955	400	440	2,795	4,477	1,791	2,686	37%
59	7,332	3,555	1,955	400	440	2,795	4,537	1,815	2,722	37%

Lot Sizes, Hardscape/Landscape Area and Water Use Calculation

(all areas in square feet (sf), lots sorted smallest to largest)

Lot No.	Lot sf	House	Building Footprint	Garage	Drive-way	Footprint + Garage + D'way	Remainder	Hardscape	Landscape	% Irrigated Area
75	7,390	3,555	1,955	400	440	2,795	4,595	1,838	2,757	37%
86	7,414	3,555	1,955	400	440	2,795	4,619	1,848	2,771	37%
130	7,424	3,555	1,955	400	440	2,795	4,629	1,852	2,777	37%
96	7,502	4,331	2,382	600	640	3,622	3,880	1,552	2,328	31%
39	7,545	4,331	2,382	600	640	3,622	3,923	1,569	2,354	31%
147	7,551	4,331	2,382	600	640	3,622	3,929	1,572	2,357	31%
126	7,665	4,331	2,382	600	640	3,622	4,043	1,617	2,426	32%
23	7,758	4,331	2,382	600	640	3,622	4,136	1,654	2,482	32%
132	7,770	4,331	2,382	600	640	3,622	4,148	1,659	2,489	32%
5	7,824	4,331	2,382	600	640	3,622	4,202	1,681	2,521	32%
160	7,982	4,331	2,382	600	640	3,622	4,360	1,744	2,616	33%
20	8,016	4,331	2,382	600	640	3,622	4,394	1,758	2,636	33%
71	8,115	4,331	2,382	600	640	3,622	4,493	1,797	2,696	33%
4	8,125	4,331	2,382	600	640	3,622	4,503	1,801	2,702	33%
35	8,125	4,331	2,382	600	640	3,622	4,503	1,801	2,702	33%
127	8,281	4,331	2,382	600	640	3,622	4,659	1,864	2,795	34%
134	8,331	4,331	2,382	600	640	3,622	4,709	1,884	2,825	34%
137	8,333	4,331	2,382	600	640	3,622	4,711	1,884	2,827	34%
144	8,334	4,331	2,382	600	640	3,622	4,712	1,885	2,827	34%
74	8,372	4,331	2,382	600	640	3,622	4,750	1,900	2,850	34%
165	8,378	4,331	2,382	600	640	3,622	4,756	1,902	2,854	34%
131	8,385	4,331	2,382	600	640	3,622	4,763	1,905	2,858	34%
73	8,451	4,331	2,382	600	640	3,622	4,829	1,932	2,897	34%
136	8,465	4,331	2,382	600	640	3,622	4,843	1,937	2,906	34%
164	8,526	4,331	2,382	600	640	3,622	4,904	1,962	2,942	35%
19	8,684	4,331	2,382	600	640	3,622	5,062	2,025	3,037	35%
145	8,702	4,331	2,382	600	640	3,622	5,080	2,032	3,048	35%
159	8,995	4,331	2,382	600	640	3,622	5,373	2,149	3,224	36%
109	9,062	4,331	2,382	600	640	3,622	5,440	2,176	3,264	36%
133	9,191	4,331	2,382	600	640	3,622	5,569	2,228	3,341	36%
110	9,288	4,331	2,382	600	640	3,622	5,666	2,266	3,400	37%
163	9,342	4,331	2,382	600	640	3,622	5,720	2,288	3,432	37%
162	9,363	4,331	2,382	600	640	3,622	5,741	2,296	3,445	37%
154	9,632	4,331	2,382	600	640	3,622	6,010	2,404	3,606	37%
22	9,656	4,331	2,382	600	640	3,622	6,034	2,414	3,620	37%
153	9,949	4,331	2,382	600	640	3,622	6,327	2,531	3,796	38%
63	10,043	4,331	2,382	600	640	3,622	6,421	2,568	3,853	38%
108	10,323	4,331	2,382	600	640	3,622	6,701	2,680	4,021	39%
89	10,651	4,331	2,382	600	640	3,622	7,029	2,812	4,217	40%
161	10,655	4,331	2,382	600	640	3,622	7,033	2,813	4,220	40%
72	10,795	4,331	2,382	600	640	3,622	7,173	2,869	4,304	40%

Lot Sizes, Hardscape/Landscape Area and Water Use Calculation

(all areas in square feet (sf), lots sorted smallest to largest)

Lot No.	Lot sf	House	Building Footprint	Garage	Drive-way	Footprint + Garage + D'way	Remainder	Hardscape	Landscape	% Irrigated Area
166	12,544	4,331	2,382	600	640	3,622	8,922	3,569	5,353	43%
98	14,324	4,331	2,382	600	640	3,622	10,702	4,281	6,421	45%

Total 1,076,807

347,834

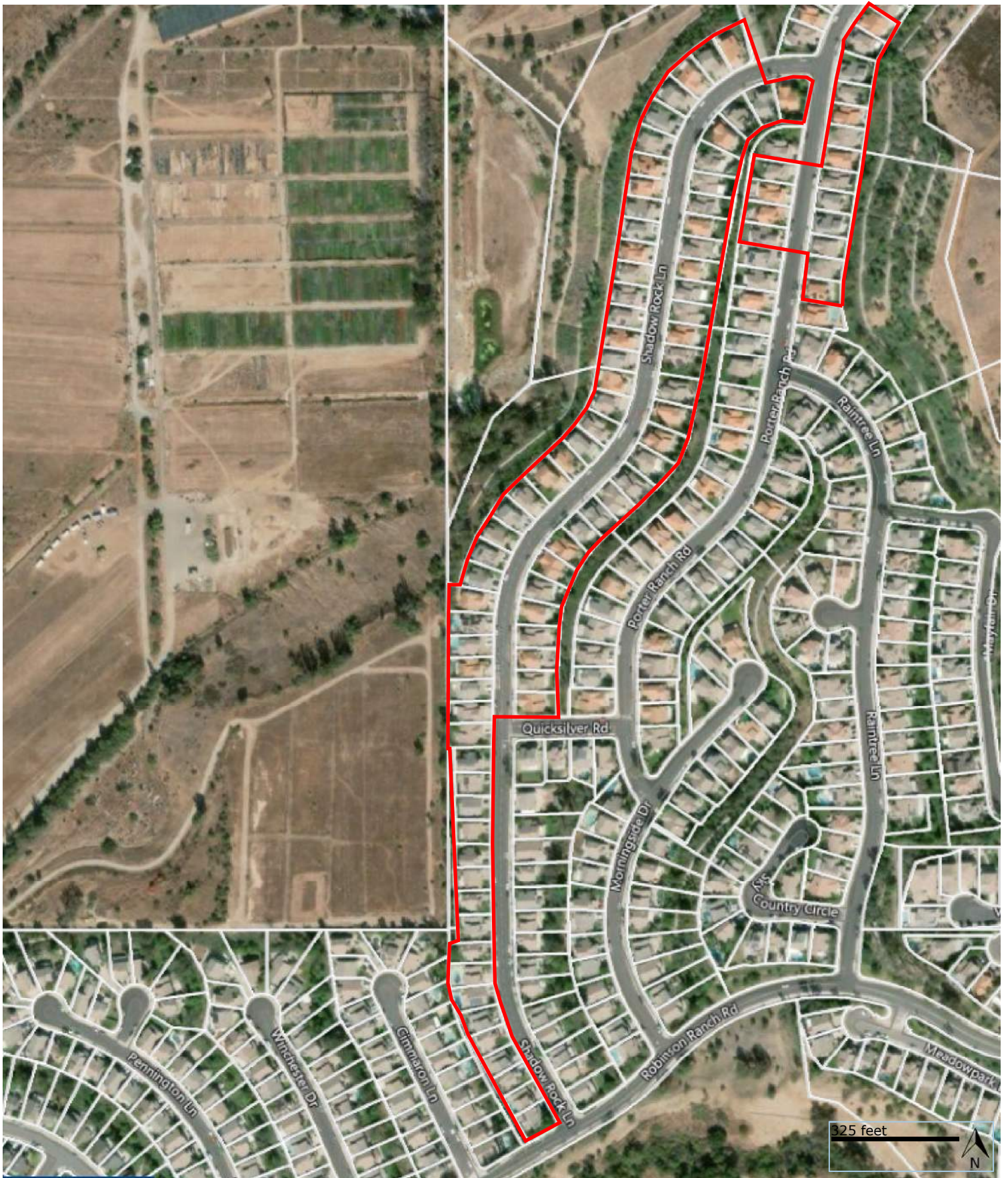
Average 6,487

2,095

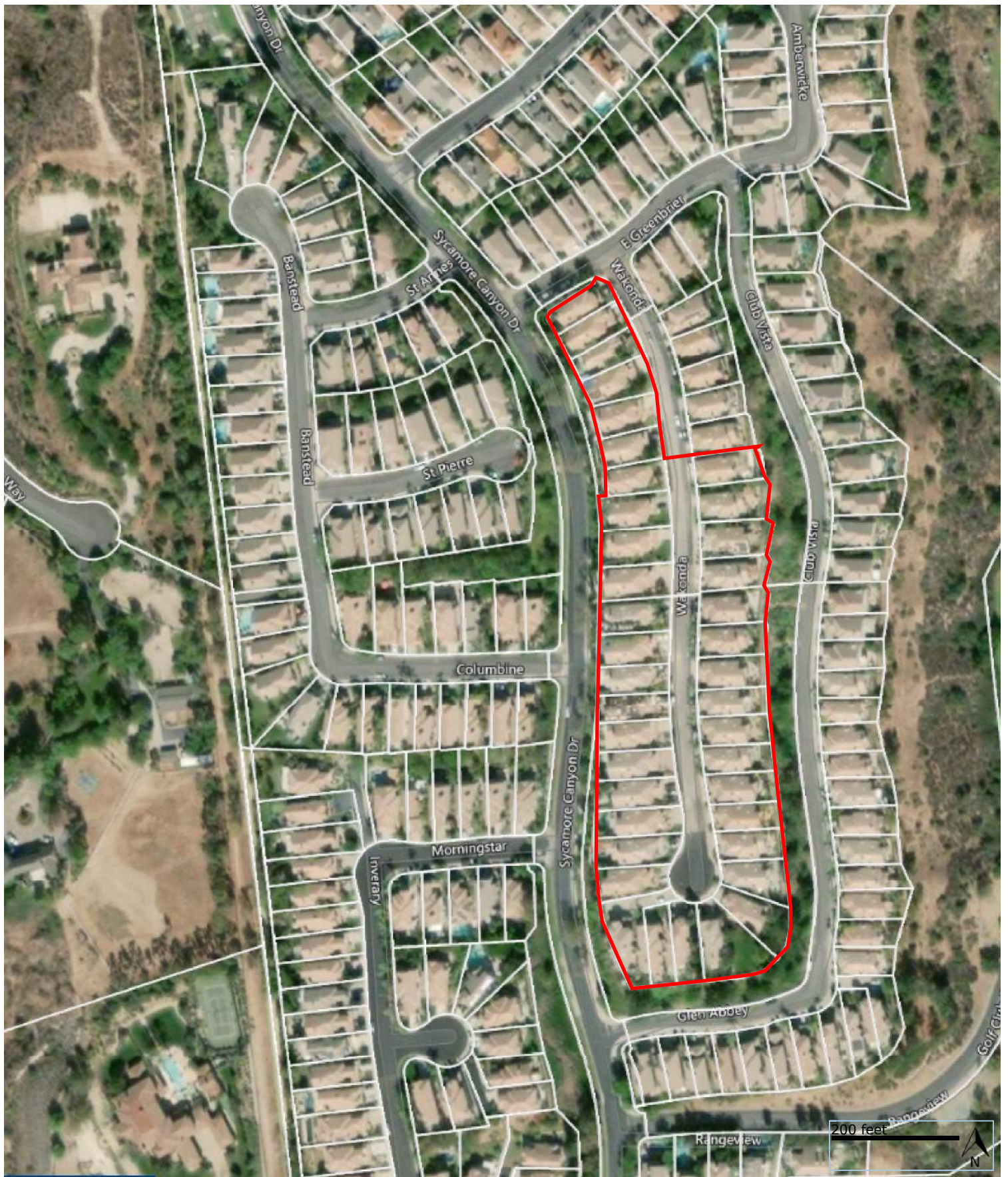
32%



Trabuco Highlands Lots



Robinson Ranch Lots



Dove Canyon Lots

Similar Lots in Trabuco Highlands, Robinson Ranch and Dove Canyon

Address	Lot Size (sf)	Address	Lot Size (sf)	Address	Lot Size (sf)	Address	Lot Size (sf)	Address	Lot Size (sf)
21381 Birdhollow Dr	7,800	32592 Coppercrest Dr	12,000	20881 Shadow Rock Ln	6,435	20802 Shadow Rock Ln	5,610	1 Wakonda	4,400
21391 Birdhollow Dr	6,864	32602 Coppercrest Dr	7,875	20871 Shadow Rock Ln	6,490	20792 Shadow Rock Ln	5,900	3 Wakonda	4,905
21401 Birdhollow Dr	9,179	32622 Coppercrest Dr	7,519	20861 Shadow Rock Ln	7,200	20782 Shadow Rock Ln	5,650	5 Wakonda	4,815
21411 Birdhollow Dr	6,760	32632 Coppercrest Dr	7,446	20851 Shadow Rock Ln	6,000	20776 Shadow Rock Ln	6,695	9 Wakonda	5,100
21415 Birdhollow Dr	6,552	32642 Coppercrest Dr	7,800	20841 Shadow Rock Ln	6,000	20772 Shadow Rock Ln	6,600	11 Wakonda	5,300
21421 Birdhollow Dr	6,386	32662 Coppercrest Dr	8,000	20831 Shadow Rock Ln	6,000	20762 Shadow Rock Ln	7,280	13 Wakonda	4,704
21423 Birdhollow Dr	6,120	32682 Coppercrest Dr	7,500	20825 Shadow Rock Ln	6,000	20752 Shadow Rock Ln	7,700	15 Wakonda	4,900
21425 Birdhollow Dr	6,300	32692 Coppercrest Dr	6,283	20821 Shadow Rock Ln	6,060	20742 Shadow Rock Ln	7,490	17 Wakonda	5,824
21431 Birdhollow Dr	9,750	32702 Coppercrest Dr	6,313	20811 Shadow Rock Ln	6,060	20732 Shadow Rock Ln	8,800	19 Wakonda	6,384
21433 Birdhollow Dr	9,100	32712 Coppercrest Dr	6,490	20801 Shadow Rock Ln	8,000	20722 Shadow Rock Ln	6,215	21 Wakonda	6,325
21435 Birdhollow Dr	8,400	32722 Coppercrest Dr	6,380	20791 Shadow Rock Ln	5,656	20712 Shadow Rock Ln	6,325	25 Wakonda	5,928
21392 Silvertree Ln	9,800	32732 Coppercrest Dr	6,490	20781 Shadow Rock Ln	6,060	20702 Shadow Rock Ln	6,490	27 Wakonda	5,650
21402 Silvertree Ln	7,952	32742 Coppercrest Dr	5,940	20771 Shadow Rock Ln	6,060	20692 Shadow Rock Ln	6,435	29 Wakonda	4,972
21412 Silvertree Ln	8,008	32752 Coppercrest Dr	5,992	20761 Shadow Rock Ln	6,565	20672 Shadow Rock Ln	6,545	31 Wakonda	5,085
21422 Silvertree Ln	8,176	32756 Coppercrest Dr	6,160	20751 Shadow Rock Ln	6,060	20662 Shadow Rock Ln	6,720	33 Wakonda	5,175
21432 Silvertree Ln	8,880	32762 Coppercrest Dr	6,900	20741 Shadow Rock Ln	5,555	20652 Shadow Rock Ln	6,710	35 Wakonda	5,490
21452 Silvertree Ln	7,952	32766 Coppercrest Dr	7,150	20731 Shadow Rock Ln	5,606	20642 Shadow Rock Ln	6,820	37 Wakonda	5,850
21456 Silvertree Ln	7,840	32772 Coppercrest Dr	10,500	20721 Shadow Rock Ln	5,606	20632 Shadow Rock Ln	7,930	39 Wakonda	6,210
21462 Silvertree Ln	8,151	32780 Coppercrest Dr	8,050	20711 Shadow Rock Ln	5,555	20622 Shadow Rock Ln	7,700	41 Wakonda	5,850
21472 Silvertree Ln	8,140	21091 Shadow Rock Ln	5,225	20701 Shadow Rock Ln	5,555	20612 Shadow Rock Ln	7,280	43 Wakonda	6,100
21476 Silvertree Ln	9,750	21085 Shadow Rock Ln	5,225	20681 Shadow Rock Ln	5,555	20606 Shadow Rock Ln	7,140	45 Wakonda	6,250
21401 Silvertree Ln	11,000	21081 Shadow Rock Ln	5,225	20671 Shadow Rock Ln	5,555	20602 Shadow Rock Ln	8,000	47 Wakonda	4,880
21411 Silvertree Ln	6,890	21071 Shadow Rock Ln	5,225	20661 Shadow Rock Ln	5,555	20702 Porter Ranch Rd	6,300	49 Wakonda	5,490
21421 Silvertree Ln	5,871	21061 Shadow Rock Ln	5,225	20651 Shadow Rock Ln	5,555	20692 Porter Ranch Rd	5,610	46 Wakonda	10,400
21431 Silvertree Ln	6,300	21051 Shadow Rock Ln	5,225	20641 Shadow Rock Ln	5,555	20682 Porter Ranch Rd	5,582	44 Wakonda	7,800
21441 Silvertree Ln	5,936	21041 Shadow Rock Ln	5,775	20635 Shadow Rock Ln	6,565	20662 Porter Ranch Rd	6,181	42 Wakonda	6,300
21451 Silvertree Ln	6,180	21031 Shadow Rock Ln	6,270	20631 Shadow Rock Ln	6,630	20656 Porter Ranch Rd	5,582	40Wakonda	4,725
21455 Silvertree Ln	5,555	21021 Shadow Rock Ln	5,712	20625 Shadow Rock Ln	6,630	20652 Porter Ranch Rd	5,582	38 Wakonda	4,950
21461 Silvertree Ln	5,880	21001 Shadow Rock Ln	6,650	20621 Shadow Rock Ln	6,695	20642 Porter Ranch Rd	5,577	36 Wakonda	5,040
21471 Silvertree Ln	6,600	20991 Shadow Rock Ln	5,795	20615 Shadow Rock Ln	6,760	20632 Porter Ranch Rd	5,577	34 Wakonda	5,085
21475 Silvertree Ln	6,600	20981 Shadow Rock Ln	5,890	20611 Shadow Rock Ln	7,000	20622 Porter Ranch Rd	5,577	32 Wakonda	4,995
21481 Silvertree Ln	7,150	20971 Shadow Rock Ln	5,700	20892 Shadow Rock Ln	6,825	20612 Porter Ranch Rd	5,582	30 Wakonda	4,950
21483 Silvertree Ln	6,825	20961 Shadow Rock Ln	5,700	20882 Shadow Rock Ln	5,995	20592 Porter Ranch Rd	7,000	28 Wakonda	5,500
21485 Silvertree Ln	6,050	20951 Shadow Rock Ln	5,700	20872 Shadow Rock Ln	5,995	20572 Porter Ranch Rd	6,630	26 Wakonda	5,250
21491 Silvertree Ln	6,325	20941 Shadow Rock Ln	5,700	20862 Shadow Rock Ln	6,105	20562 Porter Ranch Rd	5,665	24 Wakonda	5,200
21493 Silvertree Ln	5,940	20931 Shadow Rock Ln	5,700	20842 Shadow Rock Ln	7,150	20651 Porter Ranch Rd	6,600	22 Wakonda	5,565
21495 Silvertree Ln	6,325	20911 Shadow Rock Ln	6,840	20832 Shadow Rock Ln	7,280	20661 Porter Ranch Rd	6,600	20 Wakonda	5,940
21501 Silvertree Ln	6,600	20901 Shadow Rock Ln	6,325	20822 Shadow Rock Ln	7,215	20671 Porter Ranch Rd	6,545	18 Wakonda	5,886
21505 Silvertree Ln	8,000	20891 Shadow Rock Ln	6,380	20812 Shadow Rock Ln	6,825	20681 Porter Ranch Rd	6,545	16 Wakonda	5,040
Averages	7,382		6,571		6,256		6,533		5,595

Average Size (195 Lots) 6,467 sf

APPENDIX C

Storage Analysis Support Data

DRAFT

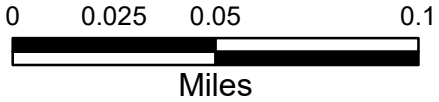
Production Aug 2018 (gallons)			
Day	Dimension	SMWD (avg)	Total
1	2,623,000	571,845	3,194,845
2	2,967,000	571,845	3,538,845
3	3,069,000	571,845	3,640,845
4	3,081,000	571,845	3,652,845
5	2,107,000	571,845	2,678,845
6	2,221,000	571,845	2,792,845
7	3,077,000	571,845	3,648,845
8	2,721,000	571,845	3,292,845
9	2,522,000	571,845	3,093,845
10	2,628,000	571,845	3,199,845
11	2,673,000	571,845	3,244,845
12	3,241,000	571,845	3,812,845
13	2,720,000	571,845	3,291,845
14	663,000	571,845	1,234,845
15	-	571,845	571,845
16	-	571,845	571,845
17	-	571,845	571,845
18	1,939,000	571,845	2,510,845
19	2,840,000	571,845	3,411,845
20	2,943,000	571,845	3,514,845
21	718,000	571,845	1,289,845
22	-	571,845	571,845
23	-	571,845	571,845
24	-	571,845	571,845
25	-	571,845	571,845
26	-	571,845	571,845
27	-	571,845	571,845
28	2,564,000	571,845	3,135,845
29	2,901,000	571,845	3,472,845
30	3,018,000	571,845	3,589,845
31	2,965,000	571,845	3,536,845
Average	1,812,935	571,845	2,384,781

APPENDIX D

Model Output and Node Diagram

Off-site storage option only presented here

DRAFT



**SADDLEBACK MEADOW
WATER MODEL**

TRACT NO 15230
MODEL JUNCTION MAP

Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

JUNCTION REPORT AT PEAK HOUR (HOUR=6)

ID	Demand (gpm)	Elevation (ft)	Head (ft)	Pressure (psi)
1250	0.0	1,065.0	1,504.0	190.2
J100	24.8	1,105.2	1,339.8	101.7
J102	0.0	1,177.4	1,339.8	70.4
J104	3.1	1,174.4	1,429.5	110.5
J106	18.3	1,198.5	1,429.5	100.1
J108	29.1	1,086.5	1,339.8	109.8
J112	13.6	1,201.0	1,339.8	60.2
J114	4.9	1,218.7	1,429.5	91.3
J116	6.2	1,215.8	1,429.5	92.6
J118	5.0	1,244.2	1,429.4	80.3
J120	26.0	1,245.4	1,429.4	79.7
J122	5.6	1,247.6	1,429.4	78.8
J124	14.0	1,286.4	1,429.4	62.0
J126	0.0	1,280.7	1,429.5	64.5
J128	39.7	1,238.5	1,429.5	82.7
J130	6.8	1,276.4	1,429.5	66.3
J132	20.4	1,302.7	1,429.4	54.9
J134	28.3	1,314.4	1,429.4	49.9
J180	0.0	1,141.5	1,339.8	85.9
J182	0.0	1,105.0	1,429.6	140.6
J190	0.0	1,181.4	1,339.8	68.7
J192	0.0	1,174.3	1,339.8	71.7
J196	0.0	1,146.7	1,339.8	83.7
J200	0.0	1,193.7	1,339.8	63.3
J202	17.4	1,105.2	1,339.8	101.7
J204	0.0	1,105.2	1,339.8	101.7
J206	0.0	1,097.8	1,339.8	104.9
J208	0.0	1,105.2	1,339.9	101.7
J210	0.0	1,238.4	1,429.5	82.8
J212	0.0	1,246.1	1,429.4	79.4
J214	0.0	1,221.6	1,429.5	90.1
J216	0.0	1,193.0	1,429.5	102.5
J218	0.0	1,168.7	1,429.5	113.0
J220	0.0	1,231.2	1,429.5	85.9
J222	0.0	1,261.6	1,429.5	72.7
J224	0.0	1,312.7	1,429.4	50.6
J94	34.1	1,078.6	1,503.9	184.3
J96	49.3	1,121.2	1,429.6	133.6
J98	4.3	1,173.5	1,339.8	72.1

PIPE REPORT AT PEAK HOUR (HOUR=6)

ID	From Node	To Node	Length (ft)	Diameter (in)	Flow (gpm)	Velocity (ft/s)
70	1460	1250	1,510.7	12	350.8	1.0
P121	1250	J94	262.6	12	350.8	1.0
P123	J182	J96	173.0	12	267.5	0.8
P125	J100	J204	167.7	8	-31.9	0.2
P127	J100	J196	389.7	8	-22.0	0.1
P129	J102	J192	121.5	8	26.3	0.2
P131	J98	J180	321.5	8	0.0	0.0
P133	J96	J218	484.7	12	218.2	0.6
P135	J104	V8018	15.8	8	40.0	0.3
P137	J106	J216	56.4	12	-175.2	0.5
P139	J108	J206	94.2	8	-29.1	0.2
P143	J112	J200	81.1	8	-13.6	0.1
P145	J106	J116	232.8	8	41.0	0.3
P147	J116	J114	155.4	8	4.9	0.0
P149	J116	J214	114.4	8	29.9	0.2
P151	J118	J120	145.2	8	26.0	0.2
P153	J118	J212	177.0	8	-1.0	0.0
P155	J128	J126	554.7	8	20.6	0.1
P157	J126	J124	120.0	8	20.6	0.1
P159	J132	J130	623.2	8	-20.4	0.1
P161	J106	J220	298.2	12	115.9	0.3
P163	J128	J222	244.2	12	55.5	0.2
P165	J130	J224	465.0	8	28.3	0.2
P171	V8018	J102	387.2	8	40.0	0.3
P179	J94	V8020	21.4	12	267.5	0.8
P181	J190	J102	74.0	8	-13.6	0.1
P183	J192	J98	29.4	8	26.3	0.2
P185	J196	J98	252.3	8	-22.0	0.1
P187	J200	J190	228.7	8	-13.6	0.1
P189	J202	J208	311.3	8	-49.3	0.3
P191	J204	J202	323.5	8	-31.9	0.2
P193	J206	J100	61.6	8	-29.1	0.2
P195	J94	V8016	19.1	8	49.3	0.3
P197	J210	J118	115.3	8	29.9	0.2
P199	J212	J122	136.5	8	-1.0	0.0
P201	J214	J210	332.7	8	29.9	0.2
P203	J216	J104	189.1	12	-175.2	0.5
P205	J218	J104	57.9	12	218.2	0.6
P207	J220	J128	66.2	12	115.9	0.3
P209	J222	J130	156.7	12	55.5	0.2
P211	J224	J134	22.4	8	28.3	0.2
P215	J122	J124	295.7	8	-6.6	0.0
P227	V8016	J208	362.4	8	49.3	0.3
P229	V8020	J182	261.5	12	267.5	0.8

VALVE REPORT AT PEAK HOUR (HOUR=6)

ID	Elevation (ft)	Upstream Pressure (psi)	Downstream Pressure (psi)	Flow (gpm)	Velocity (ft/s)	Headloss (ft)
V8016	1078.6	184.3	113.2	49.3	0.3	164.0
V8018	1174.0	110.7	71.9	40.0	0.3	89.7
V8020	1078.6	184.3	152.1	267.5	1.7	74.2

FIRE FLOW REPORT (HOUR=6)

ID	Static Demand (gpm)	Static Pressure (psi)	Static Head (ft)	Fire-Flow Demand (gpm)	Residual Pressure (psi)	Available Hydrant Flow at 20 psi (gpm)
J100	24.8	101.7	1,340	1,125	98.1	6,041
J102	0.0	70.4	1,340	1,125	68.2	5,709
J104	3.1	110.5	1,430	1,125	108.7	6,517
J106	18.3	100.1	1,429	1,125	97.8	5,975
J108	29.1	109.8	1,340	1,125	104.6	5,482
J112	13.6	60.2	1,340	1,125	54.1	3,191
J114	4.9	91.3	1,429	1,125	86.1	4,427
J116	6.2	92.6	1,429	1,125	88.9	5,020
J118	5.0	80.3	1,429	1,125	75.0	4,184
J120	26.0	79.7	1,429	1,125	73.0	3,822
J122	5.6	78.8	1,429	1,125	73.4	4,107
J124	14.0	62.0	1,429	1,125	56.9	3,722
J126	0.0	64.5	1,429	1,125	59.6	3,834
J128	39.7	82.7	1,429	1,125	80.0	5,233
J130	6.8	66.3	1,429	1,125	63.0	4,415
J132	20.4	54.9	1,429	1,125	45.3	2,332
J134	28.3	49.9	1,429	1,125	41.5	2,338
J180	0.0	85.9	1,340	1,125	80.1	4,234
J182	0.0	140.6	1,430	1,125	140.1	8,414
J190	0.0	68.7	1,340	1,125	65.7	5,221
J192	0.0	71.7	1,340	1,125	69.2	5,560
J196	0.0	83.7	1,340	1,125	80.5	5,649
J200	0.0	63.3	1,340	1,125	58.1	3,589
J202	17.4	101.7	1,340	1,125	98.7	6,332
J204	0.0	101.7	1,340	1,125	98.2	6,066
J206	0.0	104.9	1,340	1,125	100.7	5,800
J208	0.0	101.7	1,340	1,125	99.6	6,863
J210	0.0	82.8	1,429	1,125	77.7	4,291
J212	0.0	79.4	1,429	1,125	74.1	4,121
J214	0.0	90.1	1,429	1,125	85.9	4,761
J216	0.0	102.5	1,429	1,125	100.3	6,081
J218	0.0	113.0	1,430	1,125	111.3	6,651
J220	0.0	85.9	1,429	1,125	83.2	5,325
J222	0.0	72.7	1,429	1,125	69.6	4,706
J224	0.0	50.6	1,429	1,125	42.5	2,381
J94	34.1	184.3	1,504	1,125	178.3	9,366
J96	49.3	133.6	1,430	1,125	132.8	7,960
J98	4.3	72.1	1,340	1,125	69.4	5,536

**TRABUCO CANYON WATER DISTRICT
REGULAR BOARD MEETING | JANUARY 20, 2022**

**ACTION CALENDAR
ENGINEERING MATTERS**

ITEM 8: DISCUSSION AND APPROVAL OF PRESSURE VESSEL INSPECTION & RE-RATING FOR EMERGENCY USE

Trabuco Canyon Water District (District) owns and operates eight sewer lift stations in its service area to collect and pump wastewater to treatment facilities. A key component at these stations is the use of an onsite surge tank to provide additional protection to system force mains and to accommodate for pressure variations at pump stations and within the system. During calendar year 2021, the District has experienced significant challenges and issues with surge tanks at both El Toro Sewer Lift Station and Golf Club Sewer Lift Station which resulted in station bypassing for extended periods and delayed mechanical repairs impacted by current supply chain issues.

As a result of the completion of the Bell Canyon Sewer Lift Station Rehabilitation project, that station’s existing onsite surge tank was replaced with a new pressure vessel, and as such, the District is in possession of the older surge tank that was removed. It is the opinion of District staff that this surge tank has the potential to be used as an emergency backup pressure vessel that can meet the needs of many of the District’s sewer lift stations. District staff recommends the inspection, testing, and if feasible, the re-rating of this equipment in order to serve as an emergency, multi-facility surge tank. District staff has procured a proposal from Evans Industrial, Inc., a pressure vessel service vendor, for this work with each service separated for Committee consideration:

Line Item	Description	DB Sales & Service	Evans Industrial, Inc.
1	Inspection	\$ 10,057.50	\$ 9,000.00
2	Engineering	\$ 4,298.75	\$ 19,200.00
3	Re-Rating R2 Process	\$ 9,271.25	\$ 7,550.00
		\$ 23,627.50	\$ 35,750.00

District staff recommends the Board of Directors authorize the General Manager to contract with Evans Industrial, Inc. for this project.

FUNDING SOURCE:

General Fund

FISCAL IMPACT (PROJECT BUDGET):

\$23,627.50

ENVIRONMENTAL COMPLIANCE:

Not Applicable

COMMITTEE STATUS:

This matter was reviewed with the Engineering/Operational Committee.

RECOMMENDED ACTION:

Award a Contract to DB Sales & Service for the Bell Canyon Lift Station Pressure Vessel Re-Rate in the amount of \$23,627.50.

EXHIBITS:

1. DB Sales & Service Proposal to Rerate Pressure Vessel

CONTACTS (staff responsible): PALUDI/LAUSTEN/PEREA



Sales & Service
Manufacturers Representative

11582 Markon Drive
Garden Grove, CA 92841
Phone 714.897.1036
Fax 714.894.7586
www.dbsales.net

December 30, 2021

Proposal # 21-5193BM

To: Lorrie Lausten
Trabuco Canyon Water District
32003 Dove Canyon Drive
Trabuco Canyon, CA 92679

Subject: Re-rate Pressure Vessel

In response to your request, we are pleased to offer our proposal for the equipment described herein.

<i>Inspection on the vessel with calculations for Re-rate</i>	<i>\$10,057.50</i>
<i>Engineering calculation with paperwork</i>	<i>\$4,298.75</i>
<i>Final sign-off of code package</i>	<i>\$9,271.25</i>

Notes/Exceptions:

- Quote is based on the information provided.
- Quote valid for 30 days.
- Sales tax included.

Thank you for the opportunity to quote your requests. We trust that we will be able to review this proposal with you at your convenience.

In the meantime, if you have any questions or require additional information, please let me know.

Best regards,

Brian Manley
DB Sales Service Engineer
Brian.Manley@dbsales.net
714-620-9555



Sales & Service
Manufacturers Representative

DB SALES & SERVICE
Terms Of Sale

Our Acknowledgement and Acceptance Are Subject To The Following Conditions:

1. **ROUTING:** Where prices include freight, the Seller determines the routing. If special routing is requested, a charge will be made for the difference between such routing costs and normal minimum freight charges to same point.
2. **PRICE ADJUSTMENT:** Up to the time of formal order acknowledgment, all prices are subject to change without notice. Acknowledge sales prices(s) of DB Sales & Service equipment are subject to adjustment to reflect increases in Seller's costs in effect at the time of shipment. If actual shipment goes beyond one year from date of order acceptance, sales price(s) are subject to renegotiation. Additionally, the right is reserved to correct any stenographic or clerical errors, and we assume no responsibility beyond that usual in our course of business, except as defined in detail.
3. **Ownership:** Equipment remains the property of DB Sales & Service until it is paid in full.
4. **TERMS OF PAYMENT:** Net cash within thirty (30) days after shipment, or after notification that we are ready to ship. These terms apply to partial as well as complete shipments. A service charge at the rate of 1.5% per month (18% per annum) or the maximum rate allowed by law, whichever is less, will be made on past due accounts. In the event Seller institutes legal proceedings for collection of past due accounts, Buyer shall pay all costs of collection including reasonable attorney's fees. Seller reserves the right to ship C.O.D. or refuse shipment of delivery of the goods referred to herein, or any part thereof, in the event that it in its sole discretion decides that the outstanding indebtedness of the customer exceeds reasonable credit allowances.
5. **ACCEPTANCE:** All orders must be in writing and are not binding until accepted by the Seller's office. Orders are accepted subject to strikes, accident, and other causes beyond our control. We will not be liable for any delay in delivery or for any damages suffered by the Buyer for reason of such delay.
6. **DELIVERY:** We will endeavor to ship by promised delivery date, but failure to do so for any cause whatever will not give Buyer right to cancel or hold Seller responsible for any damages resulting from the failure to deliver within the time stated.
7. **CANCELLATION:** Orders may be cancelled only with written consent of the Seller and upon payment of reasonable cancellation charges by the buyer. Cancellation charges shall take into account costs and expenses thereto incurred, purchase or contract commitments made by the seller and all other losses due to such cancellations including a reasonable profit. A minimum booking charge equal to five percent (5%) of the sale price will be applied to any order that is cancelled, irrespective of the date of the order or amount of work done.
8. **TAXES:** In case of the imposition of any additional duty, tax, or other government charge upon raw materials entering into production of the foods represented by the invoice, and order acknowledgement, or upon or measured by the product, sales or shipment of said goods by Federal, State, or Municipal authorities, which would be applicable to this sale, then the contract price may be increased by the amount of such additional cost or expense to the Seller which is caused thereby. Unless specifically exempted, all sales, use and any other Federal, State, Municipal or Government tax will be invoiced to the purchaser as a separate item in addition to the price of the equipment and are to be paid by the purchaser.
9. **SPECIFICATIONS:** The Seller reserves the right to change specifications as conditions warrant.
10. **SHIPPING:** All goods are shipped at Buyer's risk and are shipped F.O.B. shipping point. If material is received in damaged condition, Buyer should contact transportation agent and immediately file claim.
11. **WARRANTY:** We agree that the apparatus manufactured by the Seller will be free from defects in material and workmanship for a period of one year under normal use and service and when properly installed; and our obligation under this agreement is limited solely to repair or replacement at our option, at our factories, of any part or parts thereof, which shall, within one year from date of original installation or 18 months from date of shipment from factory to the original purchaser, whichever date may first occur, be returned to us with transportation charges prepaid which our examination shall disclose to our satisfaction to have been defective. THIS AGREEMENT TO REPAIR OR REPLACE DEFECTIVE PARTS IS EXPRESSLY IN LIEU OF AND IS HEREBY DISCLAIMER OF ALL OTHER EXPRESS WARRANTIES, AND IS IN LIEU OF AND IN DISCLAIMER AND EXCLUSION OF ANY IMPLIED WARRANTIES, OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, AS WELL AS ALL OTHER IMPLIED WARRANTIES, IN LAW OR EXUITY, AND OF ALL OTHER OBLIGATIONS OR LIABILITIES ON OUR PART. THERE ARE NO WARRANTIES WHICH EXTEND BEYOND THE DESCRIPTION HEREOF. We neither assume nor authorize any person to assume for us any liability or obligation in connection with the sale of our apparatus, except said repair or replacement of the defective part as set for the above. Our liability does not include the cost of replacement refrigerant nor any labor charges for replacement parts, adjustments, repairs, or any other work done outside our factories and our liability does not include any consequential or resulting damage to persons, property, equipment, goods, merchandise, profits, good will or reputation arising out of any defect in or failure of our apparatus. Our obligation to repair or replace shall not apply to any apparatus which shall have been repaired or altered outside of our factory in any way, or which has been subject to negligence, to misuse, or to pressure in excess of stated limits. On parts not of our manufacture, such as motors, controls, etc., we extend only the same warranties given to the Seller. Our agreement here under runs only to the immediate purchasers and does not extend, expressly or by implication, to any other person. Nothing in the above warranty provisions, however, shall impose any liability or obligation of any type, nature or description upon DB Sales & Service if DB Sales & Service has not received payment in full for the apparatus in question.
12. On all quantity order for special products or products not covered in published price sheets, Seller reserves the right to over-ship and under-ship 5% of the quantity of the last production release.
13. **SHORTAGES:** No claims for shortages will be considered unless same are made in writing to the Seller within 10 days of receipt of shipment.
14. **RETURNS:** permission to return material plus shipping instructions and Returned Goods Tags must be secured from the factory offices of the Seller before returning any material. All returns must be unused, in new condition, and of standard manufactured. They are subject to a handling charge as stated by us. All authorized return shipments must be made as directed by us and with transportation charges prepaid to point of our refusal and immediate return to shipper. Products which are obsolete or made to special order are not returnable.
15. **SOLE TERMS:** Failure of the Seller to object to provision contained in customer's purchase order or other communications shall not be deemed a waiver of the terms or conditions hereof now acceptance of such provisions. The printed terms hereon combined with the other writings entered into between the parties, are the entire contract and all of the terms thereof. No oral statements, warranties, representations, stipulations or terms have any binding effect or be any part of the contract whatsoever.
16. Failure of the Buyer to object in writing within five (5) days of receipt thereof to Terms of Sale contained in the Seller's acceptance and/or acknowledgment, or other communications, shall be deemed an acceptance of such Terms of Sale by Buyer.
17. The Occupational Safety and Health Act (OSHA) imposes certain requirements on an "employer" including many relating to the use of machinery and equipment. Since these requirements are directly related to the conditions under which and the manner in which the machinery or equipment is used, **seller makes no warranty, express or implied, of merchantability under, fitness under, compliance with, or liability under OSHA, its interpretations and/or regulations. Further, the Seller makes no warranty of any kind other than the warranty set forth in paragraph 10 of the terms of sale.**

By: _____

Date: _____

Position: _____

Company: _____

**TRABUCO CANYON WATER DISTRICT
REGULAR BOARD MEETING | JANUARY 20, 2022**

ACTION CALENDAR

LEGISLATIVE AND OTHER MATTERS

ITEM 9: DROUGHT AND WATER SUPPLY UPDATE

Since the Department of Water Resources announced on December 1, 2021 a zero initial allocation of State Water Project (SWP) deliveries to its Contractors, including Metropolitan Water District of Southern California, water supply conditions have somewhat improved statewide. After a series of storms in December and January, statewide average snowpack is currently 133% of normal as of January 12, 2022. By comparison, statewide snowpack was roughly 80% of normal in early December. Just based on this recent precipitation in Northern California, the most important reservoir in the SWP system, Lake Oroville, gained 424,000 acre-feet of volume (capacity is 3.5 million acre-feet) and rose 100 feet in surface elevation. Lake Oroville is currently 72% of normal for this time of year. It is likely that DWR will revise the SWP allocation slightly upward when the next forecast is announced in early February.

Lake Mead started calendar year 2022 at its lowest level ever – about 150 feet lower in surface elevation than when the reservoir was initially filled (which represents 18 million acre-feet of lost storage – and the first-ever shortage declaration on the Colorado River. When combined with the shortage Lake Powell is experiencing, the two reservoirs have lost approximately 30 million acre-feet of storage or roughly half of their combined capacity. However, the Colorado River watershed has also benefited from recent precipitation and snowpack is currently 134% of normal for this time of year. Because of dry conditions, runoff projections are only 100% of normal and could drop further. Even with normal conditions over the next two years, Lake Mead is projected to drop another 32 feet in elevation and that is why various Colorado River users continue to partner on new programs to slow the drop in elevation and forestall more drastic shortage measures.

Locally, generally cool and wet conditions (Santiago Peak has received approximately 14 inches of rainfall to date this water year) have kept potable and recycled water demands low. Local runoff has thus far raised the level of Dove Lake by approximately 10 feet.

Staff will present more information at the time of the meeting.

RECOMMENDED ACTION(S):

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

CONTACTS (staff responsible): PALUDI/PEREA

**TRABUCO CANYON WATER DISTRICT
REGULAR BOARD MEETING | JANUARY 20, 2022**

ACTION CALENDAR

LEGISLATIVE AND OTHER MATTERS

ITEM 10: 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.

CONTACTS (staff responsible): PALUDI/PEREA