

BEAUMONT-CHERRY VALLEY WATER DISTRICT REGULAR MEETING AGENDA BOARD OF DIRECTORS ENGINEERING WORKSHOP 560 Magnolia Avenue, Beaumont, CA 92223 Thursday, September 26, 2019 at 6:00 p.m.

Call to Order: President Covington

Pledge of Allegiance: President Covington

Invocation: Director Williams

Roll Call

Public Comment

PUBLIC COMMENT:

At this time, any person may address the Board of Directors on matters within its jurisdiction which are not on the agenda. However, state law prohibits the Board from discussing or taking action on any item not listed on the agenda. Any non-agenda matters that require action will be referred to Staff for a report and possible action at a subsequent meeting. To provide comments on specific agenda items, please complete a speaker's request form and provide the completed form to the Board Secretary prior to the Board meeting. **Please limit your comments to three minutes.** Sharing or passing time to another speaker is not permitted.

ACTION ITEMS

Action may be taken on any item on the agenda. Information on the following items is included in the full Agenda Packet.

- 1. Resolution 2019-___: Proclaiming September 22, 2019 to September 28, 2019 as Special Districts Week (pages 4 7)
- 2. Presentation by Public Relations Consultant CV Strategies and Discussion of Progress Update (No staff report)
- 3. Discussion and Consideration of Formation of an Ad Hoc Communications Committee (pages 8 9)
- 4. Consideration of Letter Requesting Governor's Veto on AB 1184 (Gloria): Public Records: Writing Transmitted by Electronic Mail: Retention (pages 10 15)
- 5. Consideration of a 2019 Mid-Year Budget Adjustment (pages 16 18)
- 6. Presentation of SB 998 Regarding Water Shutoff Protection Act and Consideration of Potential BCVWD Policy Changes for Compliance (pages 19 30)

- 7. Consideration of Request for an Update of "Will Serve Letter" for Riverside County Assessor's Parcel No. 402-190-007 located at 40090 Lincoln Street in the Community of Cherry Valley (pages 31 35)
- 8. Consideration of Request for "Will Serve Letter" and Annexation Approval for 99 S. California Avenue (Riverside County Assessor's Parcel No. 417-180-014) in the City of Beaumont (pages 36 47)
- Consideration of Request for Extension of "Will-Serve Letter" for Previously-Approved Development: Riverside County Assessor's Parcel Nos. 401-020-007 and 401-020-008 (TTM 30450) located on Oak Glen Road South of Wildwood Canyon Road in the Community of Cherry Valley (pages 48 - 51)
- 10. BCVWD Engineering and Operations Departments Preliminary Facilities Needs Analysis and Estimate (pages 52 65)
- 11. Consideration of Authorizing the General Manager to Enter into a Not-to-Exceed Contract of \$15,000 for Planning and Guidance for the Implementation and Permitting of a Recycled Water System (pages 66 - 94)
- 12. Discussion and Consideration of Elm Avenue Mainline Extension, South of Fourth Street (pages 95 102)
- 13. Status of San Gorgonio Pass Water Agency 2020 Water Order (No Staff Report)
- 14. Update on Sites Reservoir, Participation Agreement, and Ongoing Funding Requirements (No Staff Report)
- 15. Discussion of Special Joint Meeting of September 25, 2019 between SGPWA, SBVMWD, and YVWD (No Staff Report)
- 16. Update: Status of District Wells, Capital Improvements, and Engineering Projects (pages 103 109)
- 17. Update: Legislative Action and Issues Affecting BCVWD (pages 110 116)
- 18. General Manager's Report
- 19. Topics for Future Meetings

20. Announcements

- Beaumont Basin Watermaster Committee Meeting: Oct. 2, 2019 at 10:00 a.m.
- Finance and Audit Committee Meeting: Oct. 2, 2019 at 3:00 p.m.
- BCVWD Centennial Celebration and Regular Meeting: Oct. 9, 2019 at 6 p.m.
- Engineering Workshop: Oct. 24, 2019 at 6:00 p.m.
- Collaborative Agencies Committee Meeting: Nov. 6, 2019 at 5:00 p.m.
- District Offices will be closed on Monday, Nov. 11 in observance of Veterans Day
- Personnel Committee meeting: Nov. 25, 2019 at 5:30 p.m.
- Association of California Water Agencies Fall Conference: Dec. 3 6 in San Diego
- BCVWD Budget Workshop: Thursday, December 5 at 6 p.m.

NOTICES

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 Beaumont-Cherry Valley 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 in the District's office, at 560 Magnolia Avenue, Beaumont, California ("District Office"). If such writings are distributed to members of the Board less than 72 hours prior to the meeting, they will be available from the District Office at the same time as they are distributed to Board Members, except that if such writings are distributed one hour prior to, or during the meeting, they can be made available from the District Office in the Board Room of the District's Office. Materials may also be available on the District's website: www.bcvwd.org.

REVISIONS TO THE AGENDA - In accordance with §54954.2(a) of the Government Code (Brown Act), revisions to this Agenda may be made up to 72 hours before the Board Meeting, if necessary, after mailings are completed. Interested persons wishing to receive a copy of the set Agenda may pick one up at the District's Main Office, located at 560 Magnolia Avenue, Beaumont, California, up to 72 hours prior to the Board Meeting.

REQUIREMENTS RE: DISABLED ACCESS - In accordance with §54954.2(a), requests for a disability related modification or accommodation, including auxiliary aids or services, in order to attend or participate in a meeting, should be made to the District Office, at least 48 hours in advance of the meeting to ensure availability of the requested service or accommodation. The District Office may be contacted by telephone at (951) 845-9581, email at info@bcvwd.org or in writing at the Beaumont-Cherry Valley Water District, 560 Magnolia Avenue, Beaumont, California 92223.

CERTIFICATION OF POSTING

I certify that on or before Sept. 23, 2019, a copy of the foregoing notice was posted near the regular meeting place of the Board of Directors of Beaumont-Cherry Valley Water District and to its website at least 72 hours in advance of the meeting (Government Code §54954.2(a)).

Molanda Rodriguez,

Director of Finance and Administration



Item 1

STAFF REPORT

TO: Board of Directors

FROM: Dan Jaggers, General Manager

SUBJECT: Resolution 2019-___: Proclaiming September 22, 2019 to September 28, 2019 as

Special Districts Week

Staff Recommendation

No recommendation.

Background

On August 15, 2019, the California State Legislature established Special Districts Week to encourage all Californians to be involved in their communities and be civically engaged with their local government.

Assembly Concurrent Resolution (ACR) 89, authored by Assembly member Ken Cooley (D-Rancho Cordova), was approved with bi-partisan support. It proclaims the week of September 22 to September 28 to be Special Districts Week.

Summary

The Board has the option of participating by adopting a formal resolution in commemoration of Special Districts Week. The California Special Districts Association encourages this action.

Fiscal Impact

None.

Attachments

- Resolution 2019-___: Proclaiming September 22, 2019 to September 28, 2019 as Special Districts Week
- Press Release: California State Legislature Establishes Special Districts Week

Report prepared by Lynda Kerney, Administrative Assistant

RESOLUTION 2019-__

A RESOLUTION OF THE BOARD OF DIRECTORS OF THE BEAUMONT-CHERRY VALLEY WATER DISTRICT PROCLAIMING SEPTEMBER 22, 2019 TO SEPTEMBER 28, 2019 SPECIAL DISTRICTS WEEK

WHEREAS, Special districts are local governmental entities created by a community's residents, funded by those residents, and overseen by those residents, to provide specialized services and infrastructure; and

WHEREAS, Today, more than 2,000 independent special districts provide millions of Californians with essential services, including services related to water, sanitation and water recycling, fire protection, electricity, parks and recreation, health care, open space, ports and harbors, flood protection, mosquito abatement, cemeteries, resource conservation, airports, transit, road maintenance, veterans' facilities, and more; and

WHEREAS, Special districts first arose when San Joaquin Valley farmers needed a way to access their local water supply; and

WHEREAS, Under the Wright Act of 1887, the Turlock Irrigation District became California's first special district and made it possible for local farmers to intensify and diversify agriculture in California's Central Valley; and

WHEREAS, In the 20th century, special districts increased dramatically in both number and scope, and during the periods of prosperity and population growth that followed both world wars when the demand for all types of public services increased, and special districts met that need; and

WHEREAS, The statutory authorization for mosquito abatement districts was enacted in 1915 to combat the salt marsh mosquitoes around the San Francisco Bay and higher than average malaria cases in rural counties; and

WHEREAS, Fire protection districts can trace their origins to a 1923 state law, and in 1931 the Legislature authorized recreation districts, the forerunners of today's recreation and park districts; and

WHEREAS, Hospital districts arose in 1945 because of a statewide shortage of hospital beds. In 1994, the Legislature then expanded their breadth and renamed them health care districts in recognition of the diverse, modern needs of California's communities and the importance of proactive, affordable health care beyond the walls of a hospital building; and

WHEREAS, Although originally created to provide individual services, in 1961 the Legislature authorized special districts to address multiple needs, when it provided for multipurpose, community services districts; and

WHEREAS, Special districts vary in size and scope and serve diverse communities throughout California, from small rural neighborhoods, such as the Pine Cove Water District in the San Jacinto Mountains of Riverside County, to large urban regions, such as

the East Bay Municipal Utility District spanning much of the Counties of Alameda and Contra Costa; and

WHEREAS, Local residents own special districts and govern them through locally elected or appointed boards. A series of sunshine laws ensure special districts remain transparent and accountable to the communities they serve, as these laws require open and public meetings, public access to records, regular audits, online posting of finances and compensation, and more; and

WHEREAS, To prevent overlapping services and ensure that local agencies are operating effectively and efficiently to meet communities' needs, special districts are formed, reviewed, consolidated, or dissolved through a methodical local process that includes the oversight of a local agency formation commission and the consent of local voters; and

WHEREAS, Fifty years ago, in 1969, several independent special districts formed a statewide association called the California Special Districts Association, commonly referred to as the CSDA, to promote good governance and improved essential local services through professional development, advocacy, and other services for all types of independent special districts; and

WHEREAS, The Beaumont-Cherry Valley Water District seeks to promote democratic institutions, community-based services, local control, and self-determination; and

WHEREAS, The Beaumont-Cherry Valley Water District seeks to promote and educate the public about their local public service providers, including awareness and understanding of special districts;

NOW THEREFORE, BE IT RESOLVED, by the Beaumont-Cherry Valley Water District, that the Beaumont-Cherry Valley Water District hereby joins the California State Legislature in proclaiming the week of September 22, 2019, to September 28, 2019, inclusive, to be Special Districts Week and encourages all residents to be involved in their community and be civically engaged with their local government.

ADOPTED this day of vote: AYES: NOES: ABSTAIN:	by the following
ABSENT:	ATTEST:
Director John Covington, President of the Board of Directors of the Beaumont-Cherry Valley Water District	Director Andy Ramirez, Secretary to the Board of Directors of the Beaumont-Cherry Valley Water District



FOR IMMEDIATE RELEASE August 15, 2019

Contact: Kyle Packham Advocacy and Public Affairs Director 916-642-3808 kylep@csda.net

California State Legislature Establishes Special Districts Week

[VIDEO of Senate Floor presentation available for <u>download</u>]

Sacramento, CA—Today, the California State Legislature established Special Districts Week to encourage all Californians to be involved in their communities and be civically engaged with their local government.

Assembly Concurrent Resolution (ACR) 89, authored by Assemblymember Ken Cooley (D-Rancho Cordova), was approved with bi-partisan support. It proclaims the week of September 22 to September 28 to be Special Districts Week.

"As the former mayor of a city that relied on independent special districts for the delivery of essential services, such as fire protection, parks, and water, I am intimately familiar with the value of special districts to California," stated Assemblymember Cooley. He added, "I encourage all Californians to familiarize themselves with their local service providers, vote in the upcoming election, attend a board meeting, and consider serving on a local board. Our communities depend upon the public service and oversight by residents of all backgrounds."

ACR 89 was sponsored by The California Special Districts Association (CSDA), which is a statewide association representing over 1,000 special districts and affiliate organizations throughout the state. Special districts are local government entities created by a community's residents, funded by those residents, and overseen by those residents, to provide specialized services and infrastructure.

CSDA represents all types of independent special districts, which provide millions of Californians with essential local services such as fire protection, water, resource conservation, and parks and recreation.

"Special districts are formed by residents to provide essential services that they want and need at the local level. They provide an opportunity to have local control while enhancing services that make communities thrive and survive." said CSDA's CEO Neil McCormick. He continued, "We appreciate the Legislature's support in raising awareness and increasing understanding about the special districts that serve our State's communities."

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Item 3

STAFF REPORT

TO: Board of Directors

FROM: Dan Jaggers, General Manager

SUBJECT: Discussion and Consideration of Formation of an Ad Hoc Communications

Committee

Staff Recommendation

No recommendation. Action is at the pleasure of the Board President.

Summary

At the August 22, 2019 meeting of the Board of Directors, District Board members and the District's public relations consultant, CV Strategies, discussed the potential formation of a Communications Committee to provide Board members the opportunity to give input and be involved in communication activities.

The BCVWD Policies and Procedures Manual, Part II Section 3A reads:

Ad Hoc Committees. The Board President shall appoint such ad hoc committees as may be deemed necessary or advisable by himself/herself and/or the Board. The duties of the ad hoc committees shall be outlined at the time of appointment, and the committee shall be considered dissolved when its final report has been made.

At the August 22 meeting, the following Board members expressed an interest in participating in an Ad Hoc Communications Committee:

- Director Andy Ramirez
- Director Lona Williams
- Director David Hoffman (alternate)

In the event a Communications Committee is formed, the Board should identify goals and objectives for said Committee.

If desired, the Ad Hoc Communications Committee could meet on an as-needed basis and would be composed solely of less than a quorum of the legislative body. The intent for said Committee would be to serve a single purpose that is not perpetual and would be dissolved once its specific task is completed.

Fiscal Impact

The estimated cost of an Ad Hoc Communications Committee based on estimated Director per diem plus attendance of a representative from CV Strategies for a total of four meetings is \$6,550.



Table 1 - Cost of Ad Hoc Communications Committee

Item	Quantity	Cost		Cost		Cost		Budget Line Item (GL)
CV Strategies consulting	(30 hours)	\$	4,950	01-50-510-550060 Public Ed./Community Outreach				
Director per diems	(\$200 per director per meeting)	\$	1,600	01-10-110-500101 Board of Directors Fees				
	Total Estimated Cost	\$	6,550					

The table assumes attendance of two directors at a monthly meeting for the remainder of the CV Strategies contract term (term ends January 14, 2020)

Note: The Director per diem rate will be reviewed in October 2019. If the Board chooses to increase the per diem rate, this cost will increase.

CV Strategies has provided a menu of services that includes the proposed Ad Hoc Communications Committee and 30 hours of related activities for a cost of \$4,950.

Staff expects this amount would likely be covered within the Board-approved budget of \$100,000 for the public relations consulting activity and would not necessitate an adjustment for either line item in the budget.

Should the CV Strategies contract be extended beyond its current term, the Board would need to consider an additional budget allocation for FY 2020.

Staff Report by Lynda Kerney, Administrative Assistant and Bill Clayton, Senior Finance and Administrative Analyst



Item 4

STAFF REPORT

TO: Board of Directors

FROM: Dan Jaggers, General Manager

SUBJECT: Consideration of Letter Requesting Governor's Veto on AB 1184 (Gloria): Public

Records: Writing Transmitted by Electronic Mail: Retention

Staff Recommendation

Consider the letter of request for veto and direct staff:

- a. To execute the letter and forward to Governor Gavin Newsom and the California Special Districts Association
- b. To not execute or forward the letter

Background

On September 10, 2019, AB 1184 was enrolled and sent to the desk of Governor Gavin Newsom for signature. The Governor has a window of time until October 13, to sign the bill.

The BCVWD prides itself on its transparency and proper and complete response to California Public Information Act (CPRA) requests. AB 1184 is not a transparency bill, it is a data storage bill. The public will have no greater access to public records under AB 1184. This bill creates no new disclosures or exemptions of records in the CPRA. This bill only mandates that public agencies retain all emails related to agency business for two years, not that they release them.

Caught up in the storage requirement would be numerous emails irrelevant to the conduct of the public's business, such as out-of-office automatic replies and spam. The District is already required to retain business-related emails for a minimum of two years.

AB 1184 is expected to add significant costs to government agencies by requiring additional storage capacity and additional staff time to sort through thousands of retained emails in response to any CPRA request. Since this is not a water regulatory bill, it has not been tracked on the BCVWD's Legislative Update.

Summary

The California Special Districts Association has strongly opposed AB 1184 and has requested its members contact the Governor to request a veto.

If approved, BCVWD staff will prepare the letter and disseminate to the CSDA and recommended legislators.



Fiscal Impact:

Should AB 1184 be signed into law by the Governor, there will be a fiscal impact dependent on the amount of additional digital storage capacity necessary for compliance. There may be additional costs in the future, dependent on any staff time needed to fully respond to any CPRA requests.

Attachments

Text of AB 1184

Draft letter requesting Governor's veto of AB 1184

Report prepared by Lynda Kerney, Administrative Assistant



http://www.bcvwd.org

Board of Directors

David Hoffman
Division 5

John Covington
Division 4

Daniel Slawson Division 3

Lona Williams
Division 2

Andy Ramirez
Division 1

Beaumont-Cherry Valley Water District

Phone: (951) 845-9581 Fax: (951) 845-0159 Email: info@bcvwd.org

September 30, 2019

California Governor Gavin Newsom State Capitol Sacramento, CA 95814

RE: Assembly Bill 1184 (Gloria) - Request for Veto

Dear Governor Newsom,

The Beaumont-Cherry Valley Water District respectfully requests that you veto AB 1184 (Gloria), which will require all public agencies to maintain all transmitted emails related to agency business for at least two years.

This is not a transparency bill, it is a data storage bill. The public will have no greater access to public records under AB 1184. This bill creates no new disclosures or exemptions of records. This bill only mandates that public agencies retain all emails related to agency business for two years, most of which will be irrelevant, redundant, or restricted records.

This measure will merely increase the burdens for both public agencies and California Public Records Act (CPRA) requesters. The vast majority of emails consist of autoreplies, spam, and insignificant routine communications of minimal public interest. As the bulk of these emails increases, so too does the burden to search through them and locate responsive records in the event of a valid CPRA request.

The Department of Finance's analysis of AB 1184 states "[t]he retention of non-pertinent e-mails and the need to search through those e-mails, particularly for less specific CPRA requests, increases the amount of time needed to complete CPRA requests. This makes compliance with the CPRA more difficult in these instances and produces **worse outcomes** for persons and entities submitting those requests."

Additionally, BCVWD will be forced to pay for additional data storage space as well as devote scarce staff time to sort through emails that are exempt from disclosure, without ability to be reimbursed. BCVWD respectfully requests your veto on AB 1184.

Sincerely, BEAUMONT-CHERRY VALLEY BOARD OF DIRECTORS

John Covington, President

cc: Assembly Member Todd Gloria (Raquel.mason@asm.ca.gov)
Joey Freeman, Chief Deputy Legislative Secretary, Office of Governor Gavin
Newsom [leg.unit@gov.ca.gov]

Dillon Gibbons, Senior Legislative Representative, California Special Districts Association [advocacy@csda.net]

560 Magnolia Avenue Beaumont CA 92223

AMENDED IN SENATE AUGUST 30, 2019
AMENDED IN ASSEMBLY MAY 16, 2019
AMENDED IN ASSEMBLY APRIL 24, 2019
AMENDED IN ASSEMBLY MARCH 25, 2019

CALIFORNIA LEGISLATURE—2019-20 REGULAR SESSION

ASSEMBLY BILL

No. 1184

Introduced by Assembly Member Gloria

February 21, 2019

An act to add Section 6253.32 to the Government Code, relating to public records.

LEGISLATIVE COUNSEL'S DIGEST

AB 1184, as amended, Gloria. Public records: writing transmitted by electronic mail: retention.

The California Public Records Act requires a public agency, defined to mean any state or local agency, to make public records available for inspection, subject to certain exceptions. Existing law specifies that public records include any writing containing information relating to the conduct of the public's business, including writing transmitted by electronic mail. The act requires any agency that has any information that constitutes a public record not exempt from disclosure, to make that public record available in accordance with certain provisions and authorizes every agency to adopt regulations stating the procedures to be followed when making its records available, if the regulations are consistent with those provisions. Existing law authorizes cities, counties, and special districts to destroy or to dispose of duplicate records that

are less than two years old when they are no longer required by the city, county, or special district, as specified.

This bill would, unless a longer retention period is required by statute or regulation, or established by the Secretary of State pursuant to the State Records Management Act, require a public agency agency, for purposes of the California Public Records Act, to retain and preserve for at least 2 years every writing containing information relating to the conduct of the public's business prepared, owned, or used by any public agency public record, as defined, that is transmitted by electronic mail.

The California Constitution requires local agencies, for the purpose of ensuring public access to the meetings of public bodies and the writings of public officials and agencies, to comply with a statutory enactment that amends or enacts laws relating to public records or open meetings and contains findings demonstrating that the enactment furthers the constitutional requirements relating to this purpose.

This bill would make legislative findings to that effect.

The California Constitution requires the state to reimburse local agencies and school districts for certain costs mandated by the state. Statutory provisions establish procedures for making that reimbursement.

This bill would provide that no reimbursement is required by this act for a specified reason.

Vote: majority. Appropriation: no. Fiscal committee: yes. State-mandated local program: yes.

The people of the State of California do enact as follows:

- 1 SECTION 1. Section 6253.32 is added to the Government
- 2 Code, immediately following Section 6253.31, to read:
- 3 6253.32. Unless a longer retention period is required by statute 4 or regulation, or established by the Secretary of State pursuant to
- 5 the State Records Management Act (Article 7 (commencing with
- Section 12270) of Chapter 3 of Part 2 of Division 3 of Title 2), a
- public agency shall, for the purpose of this chapter, retain and
- preserve for at least two years every writing containing information
- relating to the conduct of the public's business prepared, owned,
- 10 or used by any public agency public record, as defined in
- 11 subdivision (e) of Section 6252, that is transmitted by electronic 12 mail.
- 13 SEC. 2. The Legislature finds and declares that Section 1 of 14 this act, which adds Section 6253.32 to the Government Code,

1 furthers, within the meaning of paragraph (7) of subdivision (b)
2 of Section 3 of Article I of the California Constitution, the purposes
3 of that constitutional section as it relates to the right of public
4 access to the meetings of local public bodies or the writings of
5 local public officials and local agencies. Pursuant to paragraph (7)
6 of subdivision (b) of Section 3 of Article I of the California
7 Constitution, the Legislature makes the following findings:

 This act furthers the right of public access to the writings of local public officials and local agencies by requiring that public agencies preserve for at least two years every writing containing information relating to the conduct of the public's business prepared, owned, or used by any local agency public record that is transmitted by electronic mail.

SEC. 3. No reimbursement is required by this act pursuant to Section 6 of Article XIIIB of the California Constitution because the only costs that may be incurred by a local agency or school district under this act would result from a legislative mandate that is within the scope of paragraph (7) of subdivision (b) of Section 3 of Article I of the California Constitution.



Item 5

STAFF REPORT

TO: Board of Directors

FROM: Dan Jaggers, General Manager

SUBJECT: Consideration of a 2019 Mid-Year Budget Adjustment

Staff Recommendation

Approve a mid-year adjustment to the Fiscal Year 2019 Operating Budget for State Water Project purchases in the amount of \$3,046,426.

Background

Under District policy, the General Manager may exercise discretion in the administration of the approved budget to respond to changed circumstances, provided that any single modification in excess of \$50,000 shall require approval by the Board.

At the September 5, 2019 meeting of the Finance and Audit Committee, District staff noted that the Budget Variance Expense Report for 2019 shows that the State Water Project Purchases line item has almost reached the adopted annual budget amount of \$2,818,211 as of July 31, 2019. Staff anticipates actual expenses to be in excess of budget by more than \$50,000 at the end of August.

District staff has typically budgeted purchases for water supply needs based upon annual replenishment requirements and associated water rates from the San Gorgonio Pass Water Agency (SGPWA).

In September 2018, the District submitted a Supplemental Water Order to the San Gorgonio Pass Water Agency (SGPWA), the District's State Water Contractor, for 9,700 acre-feet (AF) of replenishment water which included some water for new home future drought proofing. The FY 2019 budget approved by the Board at its December 12, 2018 meeting included \$2,818,211 based on staff's estimate of replenishment needs (~8,900 AF) at a cost of the then-effective rate of \$317 per AF. Staff also ordered water for new home drought proofing as well as 6,300 AF (if available and available at a reasonable price) from the SGPWA, for a total potential water order in 2019 of 16,000 AF. The intent of this order was to ensure that all available water was captured for the District.

When water is available in the State Water Project during hydrologically wet years (i.e. above 60% of Table A) District staff recommends purchasing all available supply in order to meet the average available supply of 60% and add said supplies (above need) in storage for years where the State Water Project is below the average supply of 60%. Staff recommends this so that the District is sure to recover the average supply available over time. 2019 has been a wetter than average year, with a current allocation of 75% (0.75 x 17,300 AF of Table A = 12,975 AF of Table A).

This Staff Report serves to summarize anticipated cost associated with water purchases above the 2019 budgeted amount and staff's associated request for a mid-year budget adjustment to



meet the proposed purchase (above current replenishment needs) to secure water supply that can be delivered in 2019 (above replenishment needs) for future sale in 2020 and beyond.

At this time, District staff understands that the SGPWA has additional 2019 water supplies above their 75% Table A supplies available that includes the following components:

- 1. 200 AF from the Yuba Accord Exchange
- 2. 1,700 AF from the Nickel Water lease
- 3. 1,500 AF to 2,000 AF of 2018 Carryover Water stored in San Luis Reservoir
- 4. Possibly 2,000 AF from an exchange with the City of Ventura and Casitas Municipal Water District for those entities 2019 Table A supplies

This means the SGPWA may have as much as 18,375 AF available for delivery in 2019 or carried over into 2020. Table 1 and Table 2 summarizes this information as follows

Table 1
Estimated SGPWA 2019 Imported Water supplies

Estimated Sof WA 2010 Imported Water Supplies						
Description of Long Term Water Supply	Table "A"	2019				
Source (Table A, Lease, Purchase)	Quantity	allocation	2019 Supply			
SGPWA Table "A"	17,300.0	75%	12,975.0			
SGPWA Table "A" 2018 Carryover Water (1)			5,000.0			
Water Lost in San Luis Reseroir Article 21						
Conversion			(3,500.0)			
Yuba Water Exchange			200.0			
AVEK (Nickel Water)			1,700.0			
SBVMWD			-			
(1) BCVWD estimated SGPWA 2018 carryover		Sub Total:	16.375.0			

Table 2
Potential SGPWA 2019 Ventura and Casitas MWD Deal

		Est. % of	2019 Ventura	% of Water	Proposed	
		2019	Casitas MWD	Returned per	Amount of	
Description of Short Term Water	Table "A"	Allocation to	Supply Proposed	Proposed	Water Returned	Proposed Long
Supply Source (One Year Deal)	Quantity	Purchase	to be Purchased	Agmt.	(AF)	Term Supply
City of Ventura Water Deal	10,000.0	13.33%	1,333.3	50%	666.7	666.7
Casitas MWD Water Deal	5,000.0	13.33%	666.7	50%	333.3	333.3
		Sub Total:	2,000.0		1,000.0	1,000.0

Finally, as of May 2019, the SGPWA substantially completed the construction activities related to the Noble Creek Turnout Expansion Upgrade, while also raising the rate for imported water to \$399 per AF. Due to these factors and the District's desire to purchase water supply for the future, the District has been purchasing more water at a higher cost per AF than budgeted. The Board has been apprised of these activities at several regular meetings during 2019.

Analysis

District staff has prepared an analysis of three possible delivery rate scenarios of imported water which the District might purchase between August and the end of 2019 in order to project the necessary budget adjustment which is being requested.

Said delivery rate scenarios include consideration of hydraulic limitations identified by the SGPWA which will prevent the delivery of available supplies at upgraded Noble Creek Turnout capacity of



34 CFS. The results of this analysis sets forth anticipated ongoing 2019 deliveries and associated costs and are summarized in Table 3 below.

Table 3 – Projected Remaining 2019 Imported Water Delivery and Purchase Scenarios (Delivery Period of August 1, 2019 – December 31, 2019)

	I	Delivery		Delivery		Delivery
Imported Water Delivery Options	S	cenario 1	S	cenario 2	S	cenario 3
Average CFS (24 hrs/day, 7 days/week)		20		22		25
Estimated Additional Recharge to be delivered (AF)		6,058.8		6,785.5		7,634.9
Cost Per AF	\$	399	\$	399	\$	399
Estimated Additional Total Cost	\$	2,417,462	\$	2,707,415	\$	3,046,326
Projected Storage Account Balance 2019 (AF)		39,133.6		39,860.3		40,790.7

Under any of the scenarios above, the District would bank water quantities well beyond replenishment needs and 2019 new growth drought-proofing activities for sale in future years.

Summary

Board approval is requested to make transfers from Capital Replacement reserve funds accounts to account for the projected cost of the 2019 estimated water delivery costs above the budgeted amount. This item was reviewed with the District Finance and Audit Committee, and was recommended by the Committee that the Mid-Year Budget Adjustment be presented to the Board for consideration.

Fiscal Impact

As necessary, \$3,046,326 would be moved from Capital Replacement reserve funds to the Operating Budget for State Project Water Purchases to cover the cost associated with Delivery Scenario 3 which staff anticipates is the most likely delivery scenario.

Staff further identifies that additional funds should be recovered from future sales of banked water supplies and increased District Imported Water pass-through rates adjusted as necessary to accommodate the SGPWA's current or future water rate(s) (SGPWA currently \$399/AF).

Staff Report prepared by Dan Jaggers (GM) and William Clayton (Senior Finance and Administrative Analyst)



Item 6

STAFF REPORT

TO: Board of Directors

FROM: Dan Jaggers, General Manager

SUBJECT: Presentation of SB 998 Regarding Water Shutoff Protection Act and

Consideration of Potential BCVWD Policy Changes for Compliance

Staff Recommendation

Consider the options for water service billing due dates and direct staff to amend the Beaumont-Cherry Valley Water District Rules and Regulations for Water Service, Part 6 using one of two (2) methods to facilitate compliance with SB 998:

- A. The bill is due upon receipt; or
- B. The bill is due thirty (30) days after issuance.

Background

SB 998 Discontinuation of Residential Water Service, also known as the Water Shutoff Protection Act was approved by Governor Jerry Brown and filed with the Secretary of State on September 28, 2018. It requires every urban and community water system with more than 200 water service connections to comply with the following mandates as of February 1, 2020:

Adoption and Posting of Written Policy

- 1. Adopt written discontinuation policy that is available in English, Spanish, Chinese, Tagalog, Vietnamese, Korean and any other language spoken by 10% of the service area and make available on the District's website.
- 2. Policy must contain:
 - a. A plan for deferred or reduced payment schedules for those that qualify
 - b. Alternative payment schedules for those that qualify
 - c. Formal mechanism to contest and appeal bill

New or Expanded Procedural Protections

3. Refrain from discontinuing residential water service due to non-payment until the payments are delinquent for at least 60 days, and provide information about appeals, extensions and alternative repayment options. The District currently issues billings that are due at a minimum 30 days after issuance and discontinues water service when payments are delinquent for at a minimum 22 days (~55 - 56 days from bill issuance due to weekend days).



- 4. Shutoff notices:
 - a. Must be in English, Spanish, Chinese, Tagalog, Vietnamese and Korean
 - b. Must be sent to mailing address and service address
 - c. Must include:
 - i. Customer's (consumer's) name
 - ii. Amount of delinquency
 - iii. A description on how to petition bill
 - iv. A description of procedure for a deferred, reduced or alternative payment schedule
 - d. If unable to make contact with account holder (returned mail)
 - i. Must make good faith effort to visit residence and leave:
 - 1. Notice of imminent discontinuation of service
 - 2. Copy of District's discontinuation policy.
- 5. Provide a copy of discontinuation policy to customer (consumer) no fewer than seven (7) business days before water service is shut off.

Special Medical or Financial Circumstances

- 6. Avoid discontinuing residential water service if all of the following conditions exist:
 - a. A primary care provider certifies the discontinuation of water service will pose a serious or potentially fatal threat to a resident. The District already does this in practice but will include it in the formal policy.
 - b. The customer (consumer) demonstrates an inability to pay based on receipt of public assistance or a declaration that the household is below 200 percent of the federal poverty level. (2019 federal poverty lever is \$25,750 annual income for a family of four.)
 - c. The customer (consumer) is willing to establish an alternative payment arrangement i. The District may choose the payment plan options and parameters
- 7. Limit reconnection fees for low-income customers (consumers) whose household income is less than 200 percent of the federal poverty level to no more than \$50 during regular business hours and \$150 after business hours and waive interest charges on delinquent bills. The District charges a \$50 inactivation fee including reconnection during business hours and a \$50 inactivation fee and an additional \$50 for reconnection after business hours.

Other Considerations and Requirements

- 8. Provide notice to renters and mobile home or multi-family residents that their service may be discontinued due to non-payment by their landlords, and that the residents have the right to become customers (consumers) of the District without paying the past-due amounts owed by the landlord to reconnect service.
- 9. Annually post the number of times the District has discontinued service for non-payment on the District's website and provide an annual report to the State Board of Directors.

These mandates are in addition to any of the other provisions of existing law, including but not limited to a notice of discontinuance 48 hours in advance of disruption of service.



Summary

Staff is consulting with local water retail services and other partners while researching and developing a compliant policy in order to minimize impact on staff time and assure full compliance. In addition, the impact of SB 998 is being considered by the District's water rate and fee study consultant, Raftelis Financial Consultants, to assure inclusion of any fiscal implications in the study.

District staff is currently working on a draft amendment to the BCVWD Rules and Regulations Part 6 and will present this to the Board for adoption before the implementation deadline of February 1, 2020. District staff requests discussion and direction from the Board on selecting a proposed SB 998-compliant billing method (Option A or Option B below) which staff should work towards implementing. Table 1 below sets forth the District's current practice together with two proposed billing options which should satisfy SB 998.

Table 1
Billing Methodology Options

	Current	Option A Bill Due Upon Receipt	Option B Bill Due in 30 days	
1/16/2020	January bill issued for	January bill issued for Nov Dec. usage	January bill issued for	
	NovDec. usage January bill due		NovDec. usage	
2/17/2020	January bill due		January bill due	
2/18/2020	2nd Notice	2nd Notice	2nd Notice	
3/2/2020	2nd Notice due	2nd Notice due		
3/3/2020	3rd Notice	3rd Notice		
3/9/2020	Courtesy call			
3/10/2020	3rd Notice due (5pm)	Courtesy call		
3/11/2020	Disconnection of service			
3/12/2020	March bill issued for JanFeb. usage	March bill issued for Jan Feb. usage	March bill issued for JanFeb. usage	
3/16/2020		Courtesy call		
3/17/2020		3rd Notice due		
3/18/2020		Disconnection of service		
3/23/2020			2nd Notice due	
3/24/2020			3rd Notice	
4/7/2020			Courtesy call	
4/13/2020			Courtesy call	
4/13/2020			March bill due	
4/14/2020	2nd Notice (March bill)	2nd Notice (March bill)	3rd Notice due	
7/ 14/2020	ZITO NOCIOE (IVIAI OTI DIII)	Zild Notice (March bill)	2nd Notice (March bill)	
4/15/2020			Disconnection of service	

55 days 62 days 90 days



Currently, the timeline from issuance of the bill to interruption of service is approximately 55 days, depending on where the weekend falls (if a due date were to fall on a Friday, Saturday or Sunday the time is extended to the following Monday).

Under Option A - Bill due upon receipt, the payment timeline would be extended to comply with SB998 and be approximately 62 days, but no less than 60 days.

Under Option B - Bill due in 30 days (continuing the current practice of the bill being due 30 days after issuance), the payment timeline would be extended to 90 days between issuance and interruption of service.

Fiscal Impact:

The fiscal impact is yet to be determined, though there are several implications that will be considered, such as a decrease in reconnection fees collected and an increase in administrative costs for staff time to administer an alternative payment arrangement program.

In addition, there will be expenses related to producing, translating and printing the required notices, and increased field staff time to provide required notification. The District also expects reduced ability to charge delinquent bill fees / late charges.

<u>Attachments</u>

Text of SB 998

Report prepared by Bill Clayton, Senior Finance and Administrative Analyst and Erica Gonzales, Administrative Assistant



Senate Bill No. 998

CHAPTER 891

An act to add Chapter 6 (commencing with Section 116900) to Part 12 of Division 104 of the Health and Safety Code, relating to water.

[Approved by Governor September 28, 2018. Filed with Secretary of State September 28, 2018.]

LEGISLATIVE COUNSEL'S DIGEST

SB 998, Dodd. Discontinuation of residential water service: urban and community water systems.

Existing law, the California Safe Drinking Water Act, requires the State Water Resources Control Board to administer provisions relating to the regulation of drinking water to protect public health. Existing law declares it to be the established policy of the state that every human being has the right to safe, clean, affordable, and accessible water adequate for human consumption, cooking, and sanitary purposes.

Under existing law, the Public Utilities Commission has regulatory authority over public utilities, including water corporations. Existing law requires certain notice to be given before a water corporation, public utility district, municipal utility district, or a municipally owned or operated public utility furnishing water may terminate residential service for nonpayment of a delinquent account, as prescribed.

This bill would require an urban and community water system, defined as a public water system that supplies water to more than 200 service connections, to have a written policy on discontinuation of water service to certain types of residences for nonpayment available in prescribed languages. The bill would require the policy to include certain components, be available on the system's Internet Web site, and be provided to customers in writing, upon request. The bill would provide for enforcement of these provisions, including making a violation of these provisions punishable by a civil penalty issued by the board in an amount not to exceed \$1,000 for each day in which the violation occurs, and would require the enforcement moneys collected by the board to be deposited in the Safe Drinking Water Account. The bill would prohibit an urban and community water system from discontinuing residential service for nonpayment until a payment by a customer has been delinquent for at least 60 days. The bill would require an urban and community water system to contact the customer named on the account and provide the customer with the urban and community water system's policy on discontinuation of residential service for nonpayment no less than 7 business days before discontinuation of residential service, as prescribed.

This bill would prohibit residential service from being discontinued under specified circumstances. The bill would require an urban and community

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water system that discontinues residential service to provide the customer with information on how to restore service. The bill would require an urban and community water system to waive interest charges on delinquent bills for, and would limit the amount of a reconnection of service fee imposed on, a residential customer who demonstrates, as prescribed, to the urban and community water system household income below 200% of the federal poverty line. The bill would require an urban and community water system that furnishes individually metered residential service to residential occupants of a detached single-family dwelling, a multiunit structure, mobilehome park, or permanent residential structure in a labor camp, and that the owner, manager, or operator of the dwelling, structure, or park is the customer of record, to make every good faith effort to inform the residential occupants by written notice that service will be terminated and that the residential occupants have the right to become customers, as specified. The bill would require an urban and community water system to report the number of annual discontinuations of residential service for inability to pay on its Internet Web site and to the board, and the bill would require the board to post on its Internet Web site the information reported. The bill would require an urban water supplier, as defined, or an urban and community water system regulated by the commission, to comply with the bill's provisions on and after February 1, 2020, and any other urban and community water system to comply with the bill's provisions on and after April 1, 2020. The bill would provide that the provisions of the bill are in addition to the provisions in existing law duplicative of the bill and that where the provisions are inconsistent, the provisions described in the bill apply.

The people of the State of California do enact as follows:

SECTION 1. The Legislature finds and declares as follows:

- (a) All Californians have the right to safe, accessible, and affordable water as declared by Section 106.3 of the Water Code.
- (b) It is the intent of the Legislature to minimize the number of Californians who lose access to water service due to inability to pay.
- (c) Water service discontinuations threaten human health and well-being, and have disproportionate impact on infants, children, the elderly, low-income families, communities of color, people for whom English is a second language, physically disabled persons, and persons with life-threatening medical conditions.
- (d) When there is a delinquent bill, all Californians, regardless of whether they pay a water bill directly, should be treated fairly, and fair treatment includes the ability to contest a bill, seek alternative payment schedules, and demonstrate medical need and severe economic hardship.
- (e) The loss of water service causes tremendous hardship and undue stress, including increased health risks to vulnerable populations.
- (f) It is the intent of the Legislature that this act provide additional procedural protections and expand upon the procedural safeguards contained

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in the Public Utilities Code and Government Code as of January 1, 2018, relating to utility service disconnections.

SEC. 2. Chapter 6 (commencing with Section 116900) is added to Part 12 of Division 104 of the Health and Safety Code, to read:

CHAPTER 6. DISCONTINUATION OF RESIDENTIAL WATER SERVICE

116900. This chapter shall be known, and may be cited, as the Water Shutoff Protection Act.

- 116902. For the purposes of this chapter, the following definitions apply:
- (a) "Board" means the State Water Resources Control Board.
- (b) "Public water system" has the same meaning as defined in Section 116275.
- (c) "Residential service" means water service to a residential connection that includes single-family residences, multifamily residences, mobilehomes, including, but not limited to, mobilehomes in mobilehome parks, or farmworker housing.
- (d) "Urban and community water system" means a public water system that supplies water to more than 200 service connections.
- (e) "Urban water supplier" has the same meaning as defined in Section 10617 of the Water Code.
- 116904. (a) An urban water supplier not regulated by the Public Utilities Commission shall comply with this chapter on and after February 1, 2020.
- (b) An urban and community water system regulated by the Public Utilities Commission shall comply with this chapter on and after February 1, 2020. The urban and community water system regulated by the Public Utilities Commission shall file advice letters with the commission to conform with this chapter.
- (c) An urban and community water system not described in subdivision (a) or (b) shall comply with this chapter on and after April 1, 2020.
- 116906. (a) An urban and community water system shall have a written policy on discontinuation of residential service for nonpayment available in English, the languages listed in Section 1632 of the Civil Code, and any other language spoken by at least 10 percent of the people residing in its service area. The policy shall include all of the following:
 - (1) A plan for deferred or reduced payments.
 - (2) Alternative payment schedules.
 - (3) A formal mechanism for a customer to contest or appeal a bill.
- (4) A telephone number for a customer to contact to discuss options for averting discontinuation of residential service for nonpayment.
- (b) The policy shall be available on the urban and community water system's Internet Web site, if an Internet Web site exists. If an Internet Web site does not exist, the urban and community water system shall provide the policy to customers in writing, upon request.
- (c) (1) The board may enforce the requirements of this section pursuant to Sections 116577, 116650, and 116655. The provisions of Section 116585

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and Article 10 (commencing with Section 116700) of Chapter 4 apply to enforcement undertaken for a violation of this section.

- (2) All moneys collected pursuant to this subdivision shall be deposited in the Safe Drinking Water Account established pursuant to Section 116590.
- 116908. (a) (1) (A) An urban and community water system shall not discontinue residential service for nonpayment until a payment by a customer has been delinquent for at least 60 days. No less than seven business days before discontinuation of residential service for nonpayment, an urban and community water system shall contact the customer named on the account by telephone or written notice.
- (B) When the urban and community water system contacts the customer named on the account by telephone pursuant to subparagraph (A), it shall offer to provide in writing to the customer the urban and community water system's policy on discontinuation of residential service for nonpayment. An urban and community water system shall offer to discuss options to avert discontinuation of residential service for nonpayment, including, but not limited to, alternative payment schedules, deferred payments, minimum payments, procedures for requesting amortization of the unpaid balance, and petition for bill review and appeal.
- (C) When the urban and community water system contacts the customer named on the account by written notice pursuant to subparagraph (A), the written notice of payment delinquency and impending discontinuation shall be mailed to the customer of the residence to which the residential service is provided. If the customer's address is not the address of the property to which residential service is provided, the notice also shall be sent to the address of the property to which residential service is provided, addressed to "Occupant." The notice shall include, but is not limited to, all of the following information in a clear and legible format:
 - (i) The customer's name and address.
 - (ii) The amount of the delinquency.
- (iii) The date by which payment or arrangement for payment is required in order to avoid discontinuation of residential service.
- (iv) A description of the process to apply for an extension of time to pay the delinquent charges.
 - (v) A description of the procedure to petition for bill review and appeal.
- (vi) A description of the procedure by which the customer may request a deferred, reduced, or alternative payment schedule, including an amortization of the delinquent residential service charges, consistent with the written policies provided pursuant to subdivision (a) of Section 116906.
- (2) If the urban and community water system is unable to make contact with the customer or an adult occupying the residence by telephone, and written notice is returned through the mail as undeliverable, the urban and community water system shall make a good faith effort to visit the residence and leave, or make other arrangements for placement in a conspicuous place of, a notice of imminent discontinuation of residential service for nonpayment and the urban and community water system's policy for discontinuation of residential service for nonpayment.

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(b) If an adult at the residence appeals the water bill to the urban and community water system or any other administrative or legal body to which such an appeal may be lawfully taken, the urban and community water system shall not discontinue residential service while the appeal is pending.

116910. (a) An urban and community water system shall not discontinue residential service for nonpayment if all of the following conditions are met:

- (1) The customer, or a tenant of the customer, submits to the urban and community water system the certification of a primary care provider, as that term is defined in subparagraph (A) of paragraph (1) of subdivision (b) of Section 14088 of the Welfare and Institutions Code, that discontinuation of residential service will be life threatening to, or pose a serious threat to the health and safety of, a resident of the premises where residential service is provided.
- (2) The customer demonstrates that he or she is financially unable to pay for residential service within the urban and community water system's normal billing cycle. The customer shall be deemed financially unable to pay for residential service within the urban and community water system's normal billing cycle if any member of the customer's household is a current recipient of CalWORKs, CalFresh, general assistance, Medi-Cal, Supplemental Security Income/State Supplementary Payment Program, or California Special Supplemental Nutrition Program for Women, Infants, and Children, or the customer declares that the household's annual income is less than 200 percent of the federal poverty level.
- (3) The customer is willing to enter into an amortization agreement, alternative payment schedule, or a plan for deferred or reduced payment, consistent with the written policies provided pursuant to subdivision (a) of Section 116906, with respect to all delinquent charges.
- (b) (1) If the conditions listed in subdivision (a) are met, the urban and community water system shall offer the customer one or more of the following options:
 - (A) Amortization of the unpaid balance.
 - (B) Participation in an alternative payment schedule.
- (C) A partial or full reduction of the unpaid balance financed without additional charges to other ratepayers.
 - (D) Temporary deferral of payment.
- (2) The urban and community water system may choose which of the payment options described in paragraph (1) the customer undertakes and may set the parameters of that payment option. Ordinarily, the repayment option offered should result in repayment of any remaining outstanding balance within 12 months. An urban and community water system may grant a longer repayment period if it finds the longer period is necessary to avoid undue hardship to the customer based on the circumstances of the individual case.
- (3) Residential service may be discontinued no sooner than 5 business days after the urban and community water system posts a final notice of intent to disconnect service in a prominent and conspicuous location at the property under either of the following circumstances:

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- (A) The customer fails to comply with an amortization agreement, an alternative payment schedule, or a deferral or reduction in payment plan for delinquent charges for 60 days or more.
- (B) While undertaking an amortization agreement, an alternative payment schedule, or a deferral or reduction in payment plan for delinquent charges, the customer does not pay his or her current residential service charges for 60 days or more.
- 116912. An urban and community water system that discontinues residential service for nonpayment shall provide the customer with information on how to restore residential service.
- 116914. (a) For a residential customer who demonstrates to an urban and community water system household income below 200 percent of the federal poverty line, the urban and community water system shall do both of the following:
- (1) Set a reconnection of service fee for reconnection during normal operating hours at fifty dollars (\$50), but not to exceed the actual cost of reconnection if it is less. Reconnection fees shall be subject to an annual adjustment for changes in the Consumer Price Index beginning January 1, 2021. For the reconnection of residential service during nonoperational hours, an urban and community water system shall set a reconnection of service fee at one hundred fifty dollars (\$150), but not to exceed the actual cost of reconnection if it is less. Reconnection fees shall be subject to an annual adjustment for changes in the Consumer Price Index beginning January 1, 2021.
 - (2) Waive interest charges on delinquent bills once every 12 months.
- (b) An urban and community water system shall deem a residential customer to have a household income below 200 percent of the federal poverty line if any member of the household is a current recipient of CalWORKs, CalFresh, general assistance, Medi-Cal, Supplemental Security Income/State Supplementary Payment Program, or California Special Supplemental Nutrition Program for Women, Infants, and Children, or the customer declares that the household's annual income is less than 200 percent of the federal poverty level.
- 116916. (a) This section applies if there is a landlord-tenant relationship between the residential occupants and the owner, manager, or operator of the dwelling.
- (b) If an urban and community water system furnishes individually metered residential service to residential occupants of a detached single-family dwelling, a multiunit residential structure, mobilehome park, or permanent residential structure in a labor camp as defined in Section 17008, and the owner, manager, or operator of the dwelling, structure, or park is the customer of record, the urban and community water system shall make every good faith effort to inform the residential occupants, by means of written notice, when the account is in arrears that service will be terminated at least 10 days prior to the termination. The written notice shall further inform the residential occupants that they have the right to become

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customers, to whom the service will then be billed, without being required to pay any amount which may be due on the delinquent account.

- (c) The urban and community water system is not required to make service available to the residential occupants unless each residential occupant agrees to the terms and conditions of service and meets the requirements of law and the urban and community water system's rules and tariffs. However, if one or more of the residential occupants are willing and able to assume responsibility for the subsequent charges to the account to the satisfaction of the urban and community water system, or if there is a physical means legally available to the urban and community water system of selectively terminating service to those residential occupants who have not met the requirements of the urban and community water system's rules and tariffs, the urban and community water system shall make service available to those residential occupants who have met those requirements.
- (d) If prior service for a period of time is a condition for establishing credit with the urban and community water system, residence and proof of prompt payment of rent or other credit obligation acceptable to the urban and community water system for that period of time is a satisfactory equivalent.
- (e) Any residential occupant who becomes a customer of the urban and community water system pursuant to this section whose periodic payments, such as rental payments, include charges for residential water service, where those charges are not separately stated, may deduct from the periodic payment each payment period all reasonable charges paid to the urban and community water system for those services during the preceding payment period.
- (f) In the case of a detached single-family dwelling, the urban and community water system may do any of the following:
- (1) Give notice of termination at least seven days prior to the proposed termination.
- (2) In order for the amount due on the delinquent account to be waived, require an occupant who becomes a customer to verify that the delinquent account customer of record is or was the landlord, manager, or agent of the dwelling. Verification may include, but is not limited to, a lease or rental agreement, rent receipts, a government document indicating that the occupant is renting the property, or information disclosed pursuant to Section 1962 of the Civil Code.
- 116918. An urban and community water system shall report the number of annual discontinuations of residential service for inability to pay on the urban and community water system's Internet Web site, if an Internet Web site exists, and to the board. The board shall post on its Internet Web site the information reported.
- 116920. (a) The Attorney General, at the request of the board or upon his or her own motion, may bring an action in state court to restrain by temporary or permanent injunction the use of any method, act, or practice declared in this chapter to be unlawful.

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- (b) For an urban and community water system regulated by the Public Utilities Commission, the commission may bring an action in state court to restrain by temporary or permanent injunction the use by an urban and community water system regulated by the commission of any method, act, or practice declared in this chapter to be unlawful.
- 116922. All written notices required under this chapter shall be provided in English, the languages listed in Section 1632 of the Civil Code, and any other language spoken by 10 percent or more of the customers in the urban and community water system's service area.
- 116924. Where provisions of existing law are duplicative of this chapter, compliance with one shall be deemed compliance with the other. Where those provisions are inconsistent, the provisions of this chapter shall apply. Nothing in this chapter shall be construed to limit or restrict the procedural safeguards against the disconnection of residential water service existing as of December 31, 2018.
- 116926. This chapter does not apply to the termination of a service connection by an urban and community water system due to an unauthorized action of a customer.



Item 7

STAFF REPORT

TO: Board of Directors

FROM: Daniel Jaggers, General Manager

SUBJECT: Consideration of Request for an Update of "Will Serve Letter" for Riverside

County Assessor's Parcel No. 402-190-007 located at 40090 Lincoln Street in the

Community of Cherry Valley

Staff Recommendation

Consider the request for an update of "Will Serve Letter" for domestic water service for a proposed single-family residence located at 40090 Lincoln Street, identified as **Riverside County Assessor's Parcel No. (APN) 402-190-007,** in the Community of Cherry Valley, and

- A. Approve the Application for Water Service and furnish an update of "Will Serve Letter" for water service, or;
- B. Deny the Application for an update of "Will Serve Letter" for water service

Background

The Applicant, Justin Tidwell, has requested an update of "Will Serve Letter" on July 17, 2019 for a proposed single-family residence to be located on an existing parcel located at 40090 Lincoln Street and further identified as APN 402-190-007 (see Figure No. 1, attached). This project's last "Will Serve Letter" was approved by the Beaumont-Cherry Valley Water District Board of Directors on June 14, 2017.

This parcel is currently located within the District's Service Area Boundary and there is a 6-inch water main in Lincoln Street fronting the property. The Applicant plans to construct one (1) new residence on the existing parcel. The Applicant will be required to secure the necessary approvals from the County of Riverside.

The impact of this residence on the District's water supply system is equivalent to one dwelling unit (1 EDU) and is considered minimal. The Applicant will be expected to pay applicable Facilities Fees, a non-tract water service installation charge, and front-footage fees.

Fire Flow requirements will be determined by the County of Riverside Fire Department and said requirements will dictate actual required Fire Hydrant Fire Flows and residential fire sprinkler requirements for the residence. Dependent on the Riverside County Fire Department's fire flow requirements, the Applicant may be required to extend water facilities.

If applicable, the Applicant shall secure all necessary easements required to extend water mains across the project frontages as necessary to provide fire flow requirements and shall pay actual fees in effect at the time of application for service installation.

Final meter size shall be determined by the Applicant.



Conditions

The Applicant shall conform to all District requirements for water service and all County of Riverside requirements.

- The Applicant shall enter into a water facilities extension agreement and pay all fees associated with the domestic water services if applicable. The Applicant shall also pay all fees related to new fire service facilities including any facilities improvements that may be necessary to meet the fire flow requirements.
- 2. To minimize the use of potable water, the District requires that the Applicant conform to the County of Riverside Landscaping Ordinances which pertains to water efficient landscape requirements and the following:
 - a. Landscaped areas which have turf, shall have "smart irrigation controllers" which use Evapotranspiration (ET) data to automatically control the watering. Systems shall have an automatic rain sensor to prevent watering during and shortly after rainfall. Automatically determine watering schedule based on weather conditions, and not require seasonal monitoring changes. Orchard areas, if any, shall have drip irrigation.
 - b. Landscaping in non-turf areas should be drought tolerant consisting of planting materials which are native to the region. Irrigation systems for these areas should be drip or bubbler type.

Fiscal Impact

None. All fees and deposits will be paid by the Applicant prior to providing service.

Attachments

Figure 1 – Site Map, APN 402-190-007 June 14, 2017 BCVWD Regular Board Meeting Staff Report

Report Prepared by Aaron Walker, Engineering Office Assistant



FIGURE 1 -Riverside County Assessor's Parcel No. (APN) 402-190-007





Beaumont-Cherry Valley Water District

Phone: (951) 845-9581 Fax: (951) 845-0159 Email: info@bcvwd.org

Board of Directors

David Hoffman
Division 5

John Covington
Division 4

Daniel Slawson Division 3

Claudeen Diaz Division 2

Andy Ramirez Division 1 June 22, 2017

Justin Tidwell 1157 Foothill Drive Banning, CA 92220

Subject: "Will Serve Letter"

For Proposed Single Family Residence located on Riverside

County Assessor's Parcel No. (APN) 402-190-007-3

Beaumont, CA

Dear Mr. Tidwell,

At the Regular Meeting of the Board of Directors held on June 14, 2017, your request for Water Service ("Will Serve Letter") for the above referenced property (APN) 402-190-007-3 was approved for domestic water service as set forth in the attached Staff Report dated June 7, 2017.

The Beaumont-Cherry Valley Water District will provide water service to the subject property assuming all obligations to provide service are met including but not limited to, the Rules and Regulations Governing Water Service as amended by the Board of Directors from time to time and all required fees and deposits have been paid.

As identified in the June 7, 2017 Staff Report and prior to final project development the following conditions must be met.

- 1. To Minimize the use of potable water, the District requires that the applicant conform to the City of Beaumont and/or County of Riverside Ordinances which pertains to water efficient landscape requirements and the following:
 - a. Landscaped areas which have turf, shall have "smart irrigation controllers" which use Evapotranspiration (ET) data to automatically control the watering. Systems shall have an automatic rain sensor to prevent watering during and shortly after rainfall and automatically determine watering schedule based on weather conditions, and not require seasonal monitoring changes. Orchard areas, if any, shall have drip irrigation.



Beaumont-Cherry Valley Water District

Phone: (951) 845-9581 Fax: (951) 845-0159 Email: info@bcvwd.org

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Division 1

 Landscaping in non-turf areas should be drought tolerant consisting of planting materials. Irrigation systems for these areas should be drip or bubbler type.

We look forward to working with you in the coming months and please feel free to contact the office should you have any questions.

This letter will expire 12 months from the date of issue.

Sincerely,

Daniel K. Jaggers BCVWD Director of Engineering

Attachments: 1. June 7, 2017 Staff Report Requesting Service for an Existing Single-Family Residence located on (APN) 402-190-007-3

APN_402-190-0007-3_Wsrv_L1_20170622 DKJ//aew



Item 8

STAFF REPORT

TO: Board of Directors

FROM: Dan Jaggers, General Manager

SUBJECT: Consideration of Request for "Will Serve Letter" and Annexation Approval for 99

S. California Avenue (Riverside County Assessor's Parcel No. 417-180-014) in the

City of Beaumont

Staff Recommendation

Consider the request for water service "Will Serve Letter" (WSL) and annexation approval for a property located at 99 S. California Avenue, identified as **Riverside County Assessor's Parcel No. (APN) 417-180-014** within the City of Beaumont, subject to payment of all fees to the District and securing all approvals from the City of Beaumont and:

- A. Approve the Application for Water Service and furnish the "Will Serve Letter" and and request for annexation, or;
- B. Deny the Application for Water Service and request for annexation

Background

The Applicant, Kirk Howard, has requested water service from the District for a proposed Recreational Vehicle (RV) and Self-Storage Facility to be constructed on an existing vacant parcel of land located at 99 S. California Avenue and further identified as APN 417-180-014.

Subject property is located on the southwest corner of California Avenue and 1st Street in the City of Beaumont, California (see Figure 1 attached) and is currently outside the District's service area. The Applicant's engineer (Rick Engineering Co.) met with District staff in August of 2019 to discuss the District's existing facilities and potential utilities to support development of APN 417-180-014. During said meeting, the District identified the parcel is currently outside the District's Service Boundary and the Applicant shall annex the parcel into the District's service area. The District has confirmed there is an existing 12-inch domestic water main (2750 pressure zone) fronting the property on 1st Street and a future 24-inch domestic water main in California, south of 1st Street (see Figure 2 – Identified Main Extension).

The Applicant plans to construct an RV and Self Storage Facility on approximately 3.51 acres identified on Figure 1. The Applicant has further identified a need for domestic, irrigation and fire water service. The Applicant has provided the Estimated Total Water Usage (ETWU) calculations for the on-site landscaping (totaling 6,530 gallons per year) or approximately 18 gallons per day (0.03 EDU's) and has provided District staff a comparable consumption history report for the District to use to estimate the domestic consumption for APN 417-180-014. Said total water system usage is summarized as follows in Table 1:



Table 1

	Acre-Feet Per Year (AF)	Gallons Per Day (GPD)	Equivalent Dwelling Unit (EDU)
Non-Potable Water Demand	0.02 AF	18 GPD	0.03 EDUs
* Domestic Water Demand	3.13 AF	2,797 GPD	4.82 EDUs
TOTAL WATER DEMAND:	3.15 AF	2,815 GPD	4.85 EDUs

^{*}Estimated based on Applicant provided consumption Data from a comparable development.

The Applicant shall complete the annexation process with LAFCO and BCVWD, prepare water improvement plans and construct water facilities across the property frontage on California Avenue and pay all applicable District fees, including water Facilities Fees, a non-tract water service(s) installation charge (for the non-potable and domestic service connection[s]), and front-footage fees for 1st Street, in effect at the time of application for service installation. The Applicant will need to secure other necessary approvals from the City of Beaumont and/or County of Riverside.

Final domestic and non-potable meter sizes will be determined by the Applicant. Fire Flow requirements will be determined by the County of Riverside Fire Department and said requirements will dictate actual required Fire Hydrant Fire Flows to the property, and non-potable landscape system requirements.

Conditions:

The Applicant shall conform to all District requirements for water service and all City of Beaumont requirements.

- 1. The Applicant shall design and construct a 24-inch water main extension along the project property frontage on California Avenue from 1st Street where facilities are depicted in the District's Potable Water System Master Plan.
- 2. The Applicant will be required to pay commercial front-footage fees along all property frontages where facilities are currently installed.
- 3. The Applicant will be required to install a fire service connection(s) to support the City of Beaumont/County of Riverside Fire Department's requirement for on-site fire hydrants.
- 4. The District reserves the right to review annual consumption data (water consumption audit) and adjust the applicant Facilities Fees (at final buildout of the project and when project facilities are fully utilized) for any amount greater than 4.85 EDUs (2,815 gal/day) which is currently identified in Table 1.
- 5. To minimize the use of potable water, the District requires the applicant to conform to the City of Beaumont Landscaping Ordinances which pertains to water efficient landscape requirements and the following:
 - a. Landscaped areas which have turf, shall have "smart irrigation controllers" which use Evapotranspiration (ET) data to automatically control the watering. Systems shall have an automatic rain sensor to prevent watering during and shortly after rainfall, automatically determine watering schedule based on weather conditions, and not require seasonal monitoring changes. Orchard areas, if any, shall have drip irrigation.



b. Landscaping in non-turf areas should be drought-tolerant, consisting of planting materials which are native to the region. Irrigation systems for these areas should be drip or bubbler type.

Fiscal Impact:

None. All fees and deposits will be paid by the Applicant prior to providing service.

Attachments

- Figure 1 APN 417-180-014 Beaumont RV and Self Storage Site Map
- Figure 2 BCVWD Potable Master Plan, 2750 Pressure Zone
- Figure 3 Beaumont RV and Self Storage Preliminary Improvement Plans
- Figure 4 Beaumont RV and Self Storage Landscape Planting and Irrigation Plans

Application for Water Service for Riverside County APN 417-180-014

Staff Report prepared by Aaron Walker, Engineering Office Assistant



FIGURE 1 – APN 417-180-014 Beaumont RV & Self Storage

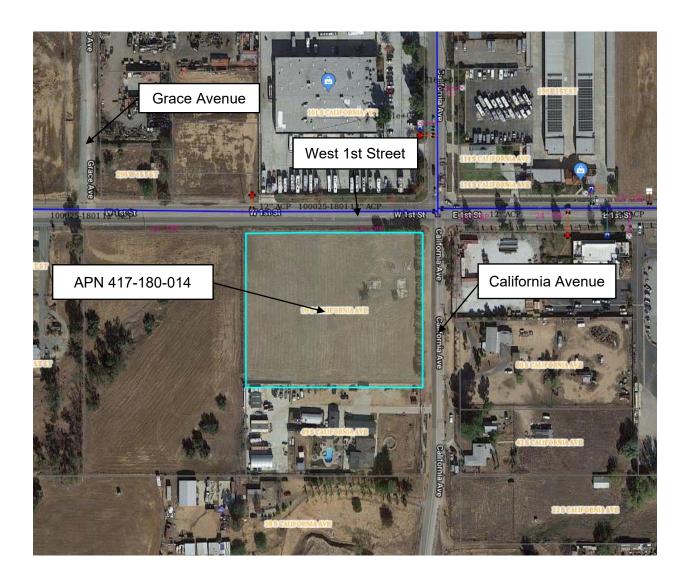
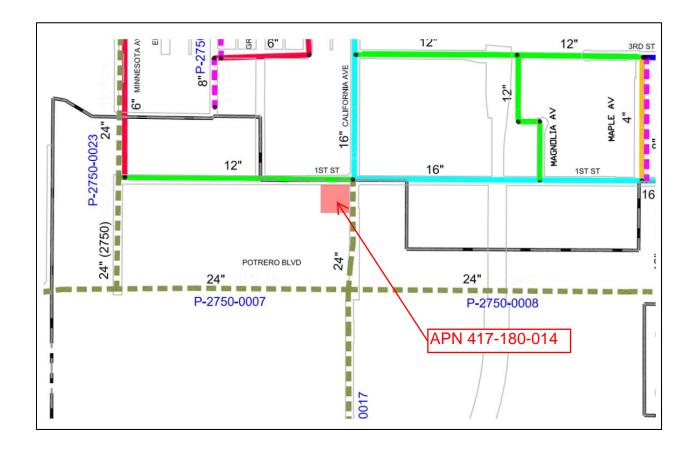
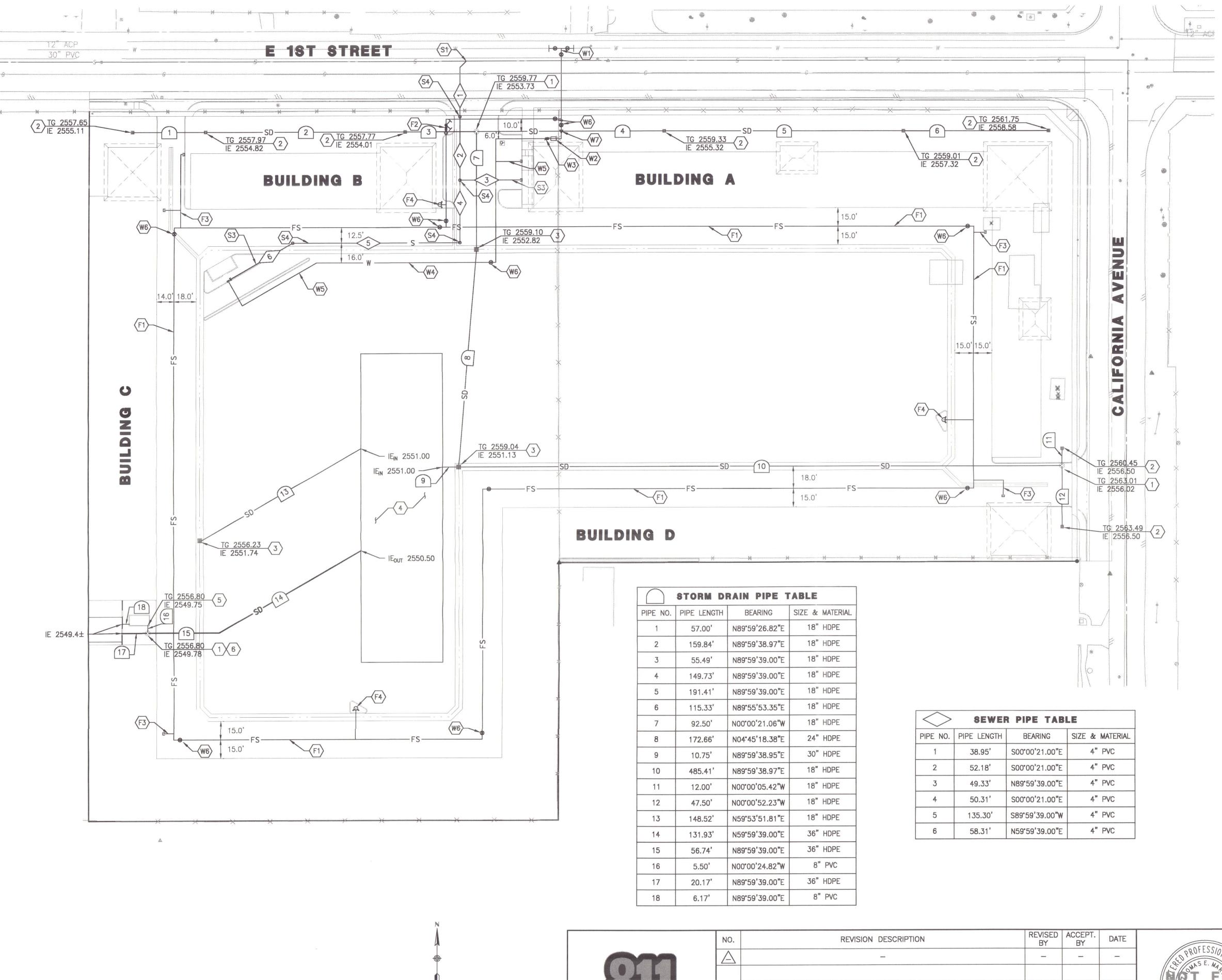


FIGURE 2
BCVWD POTABLE MASTER PLAN
2750 PRESSURE ZONE







STORM DRAIN NOTES

- 1 STORM DRAIN MANHOLE PER COUNTY OF RIVERSIDE STANDARD DETAIL NO. 607
- 2 24"X24" CATCH BASIN (BROOKS 1818 CATCH BASIN OR APPROVED EQUIVALENT)
- 3 36"X36" CATCH BASIN (BROOKS 3636 CATCH BASIN OR APPROVED EQUIVALENT)
- BIOCLEAN URBANPOND (OR APPROVED EQUIVALENT). SEE DETAILS ON SHEETS
- 5 BIOCLEAN MODULAR WETLAND SYSTEM (OR APPROVED EQUIVALENT). SEE DETAILS ON SHEET C17
- 6 DIVERSION WEIR. SEE DETAIL 6 ON SHEET C14

FIRE SERVICE/WATER NOTES

- F1 6" PVC C900 PRIVATE FIRE MAIN
- F2 POST INDICATOR VALVE (PIV), DOUBLE CHECK DETECTOR ASSEMBLY (DCDA), AND FIRE DEPARTMENT CONNECTION (FDC) PER NFPA 24 STANDARDS
- PVC PRIVATE FIRE LATERAL CONNECTION TO BUILDING, SIZE PER ARCHITECTURE PLAN
- F4 STANDARD FIRE HYDRANT PER BEAUMONT CHERRY VALLEY WATER DISTRICT STANDARDS, PLATE 1
- W1> WATER SERVICE CONNECTION TO CITY MAIN PER SEPARATE PERMIT
- 1" WATER METER PER BEAUMONT CHERRY VALLEY WATER DISTRICT STANDARDS, PLATE 12
- W3 WATER BACKFLOW PREVENTOR VALVE PER BEAUMONT CHERRY VALLEY WATER DISTRICT STANDARDS, PLATE 7
- (W4) 2" PVC C900 PRIVATE WATER LATERAL
- 2" PRIVATE WATER LATERAL CONNECTION TO BUILDING, SIZE PER ARCHITECTURE PLAN
- WATER VALVE PER BEAUMONT CHERRY VALLEY WATER DISTRICT STANDARDS,
- ₩7 6"X4" REDUCER

SEWER NOTES

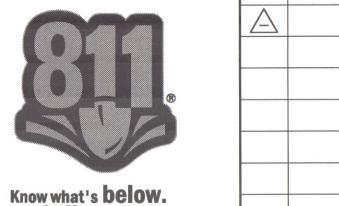
- S1) SEWER WYE CONNECTION TO EXISTING PUBLIC SEWER MAIN PER COUNTY OF RIVERSIDE STANDARD DETAIL NO. 600
- (S2) 4" PVC PRIVATE SEWER LATERAL
- 4" PVC PRIVATE SEWER LATERAL CONNECTION TO BUILDING, SIZE PER ARCHITECTURE PLANS
- S4 SEWER CLEANOUT PER COUNTY OF RIVERSIDE STANDARD DETAIL NO. 603

GENERAL NOTES

- 1. UTILITY TRENCHES SHALL COMPLY WITH SERVICE TRENCH DETAIL PER BEAUMONT CHERRY VALLEY WATER DISTRICT STANDARDS, PLATE 6-2.
- 2. GRADING AND IMPROVEMENTS WITHIN THE PUBLIC RIGHT OF WAY TO BE PERMITTED SEPARATELY.
- 3. FOR PRECISE GRADING INFORMATION, SEE SHEETS C3-C7.
- THRUST BLOCKS SHALL BE INSTALLED AT ALL BENDS AND TEES PER BEAUMONT CHERRY VALLEY WATER DISTRICT STANDARDS, PLATE 11-1 AND 11-2.
- 5. POINTS OF CONNECTION ARE TO BE 5 FEET OUT FROM BUILDING. SEE BUILDING PLANS FOR CONTINUATION.

LEGEND

DOMESTIC WATER		W	
STORM DRAIN		SD	
SEWER	***************************************	S	MANAGEMENT AND THE REST OF THE
FIRE SERVICE	***************************************	FS	***************************************



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Call before you dig.

GRAPHIC SCALE: 1"=40'

10.	REVISION DESCRIPTION	REVISED BY	ACCEPT. BY	DATE	
	_	_	-	_	
					COR



PROJECT ENGINEER

BEAUMONT	RV &	SELF	STORAGE
	UTILITY	PLAN	

/	SCALE: 1"=40'	REVIEWED FOR COMPLIANCE BY:	SHEET
	DATE: 7/5/2019		NO.
	DRAWN BY: CLF	SIGNATURE DATE	OF 17
	CHECKED BY: TK		DRAWING
DATE	JOB NO: 18115AC	SIGNATURE DATE	NO.

THE SAN LUIS OBISPO, CA 93401

San Luis Obispo

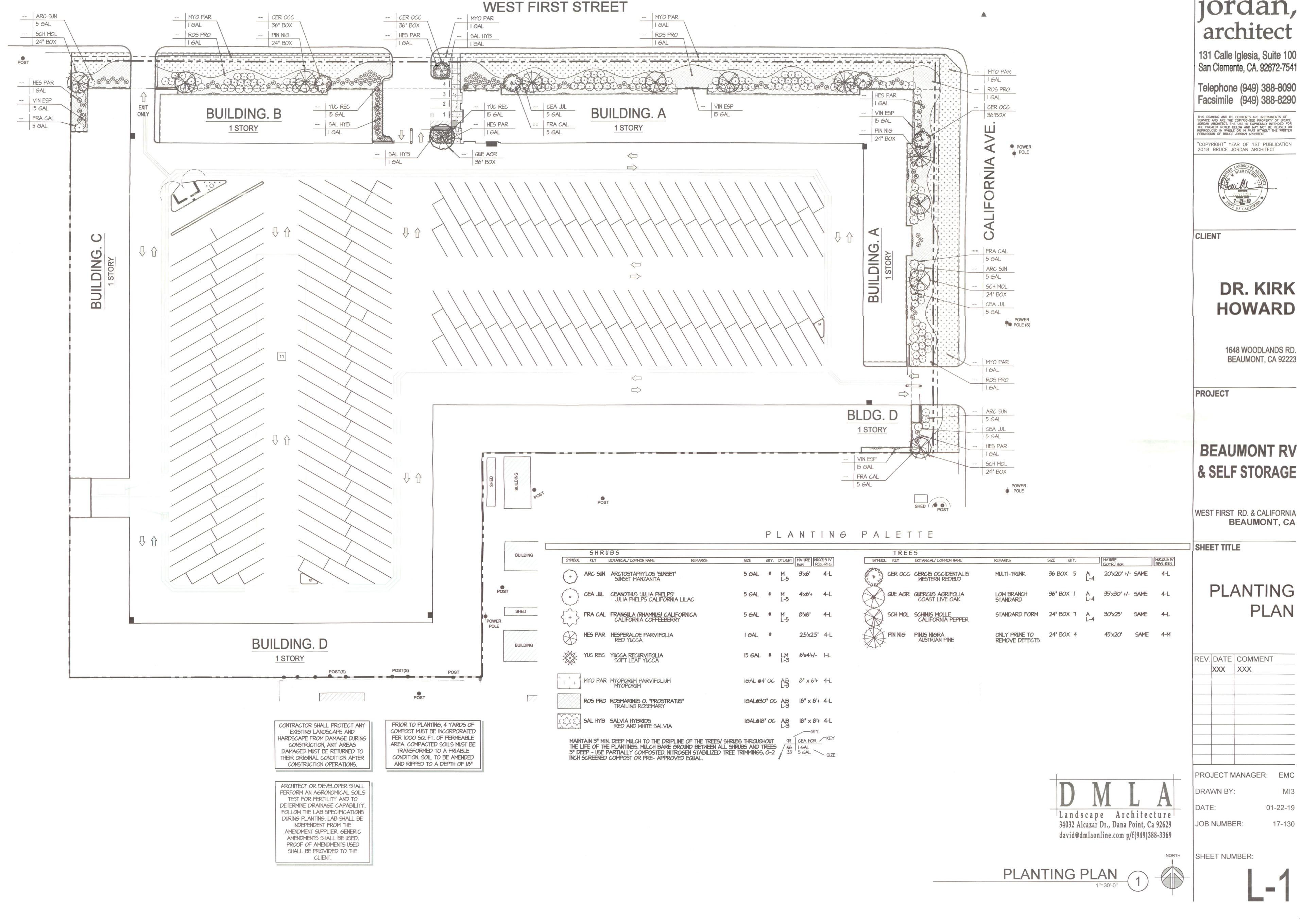
1160 MARSH STREET - SUITE 150

SAN LUIS OBISPO, CA 93401

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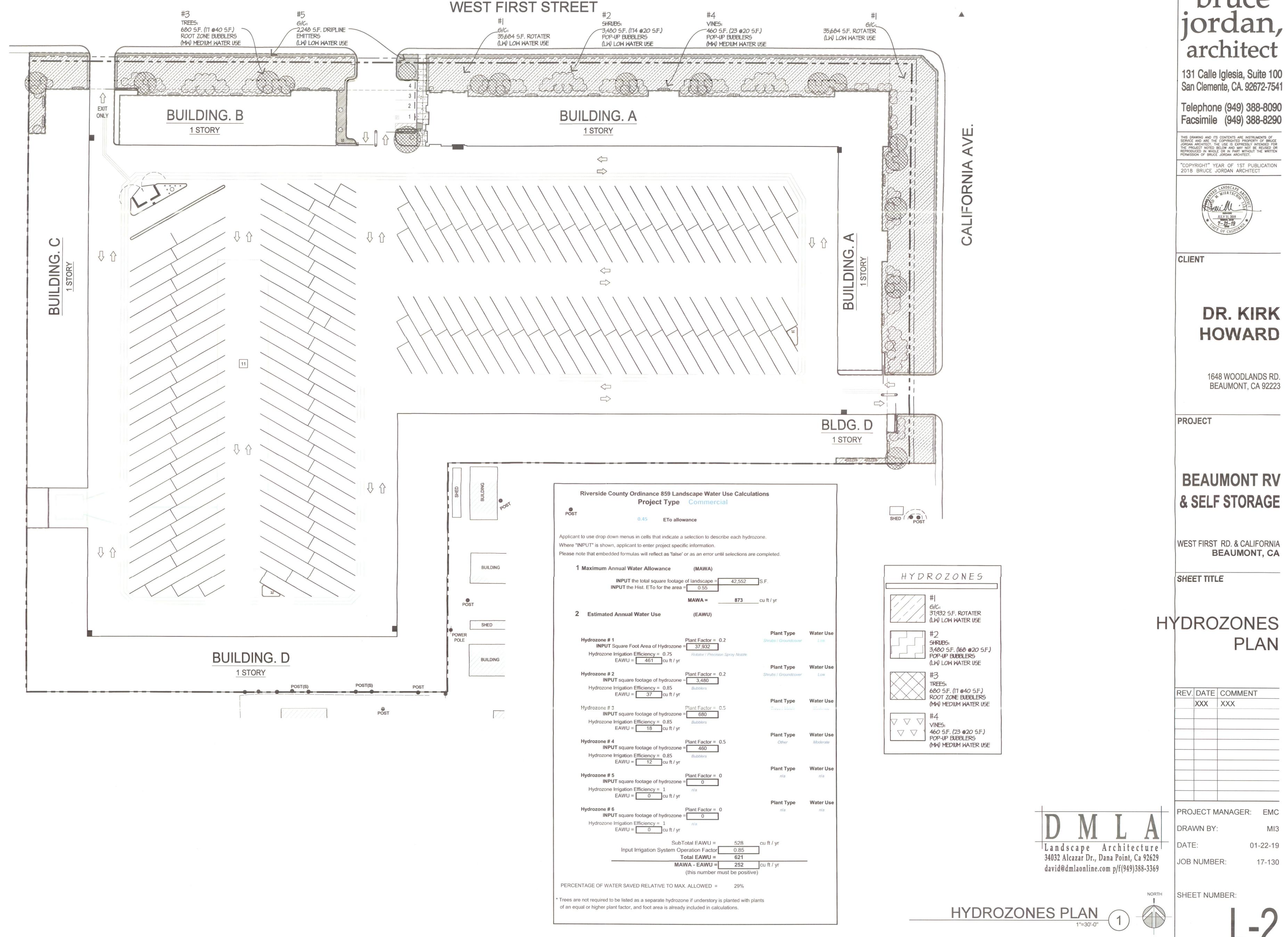


jordan, architect

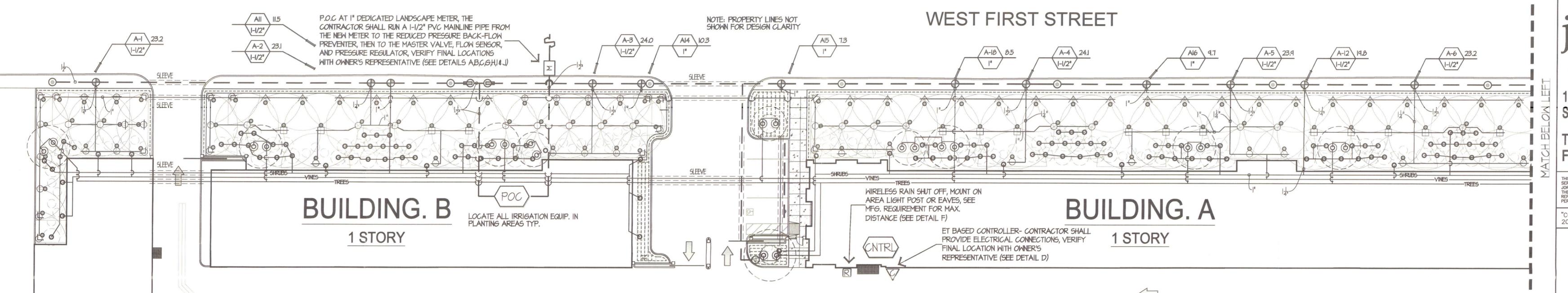
DR. KIRK **HOWARD**

PLAN

REV.	DATE	COMMEN	IT
	XXX	XXX	
PRO	JECT M	MANAGER:	EMC
DRA	WN BY		MI3
DATI	Ξ:	(01-22-19
JOB	NUMBE	ER:	17-130



MI3



ALL IRRIGATION PIPING SHALL BE SCHEDULE 40 PVC.

WITH 12-18" ROW SPACING

ANTI-DRAIN CHECK VALVES (ADV) SHALL BE INSTALLED AT ANY WATER OUTLET SUFFERING LOW HEAD DRAINAGE - FOR SPRINKLERS USE RAINBIRD SAM'S, HUNTER HCV 50M-50F OR VALCON V5000 SERIES.

ALL RECYCLED WATER LINES AND SLEEVES TO BE PURPLE ALERT LINE OR PURPLE TAPED, RECYCLED SYSTEM VALVE BOXES LIDS TO BE PURPLE.

ALL POTABLE WATER LINES AND SLEEVES TO BE WHITE OR BROWNLINE PVC OR POLY PIPE, POTABLE SYSTEM VALVE BOXES TO BE GREEN.

ALL UN-BURIED PVC/POLY PIPE SHALL BE UV RESISTANT, ALL EXPOSED VALVE WIRING SHALL BE UV RESISTANT.

POINT OF CONNECTION AND CONTROLLER INSTALLATION

- POINT OF CONNECTION TO THE I-I/2" SERVICE AND I" POTABLE IRRIGATION WATER METER INSTALLED BY THE COMMUNITY WATER DISTRICT. VERIFY THE EXACT STUBOUT LOCATION PER CIVIL ENGINEER'S DRAWINGS. THE LANDSCAPE CONTRACTOR SHALL PAY FOR ALL FEES AND PERMITS AND COORDINATE WITH THE WATER DEPARTMENT FOR THE INSTALLATION OF THE WATER METER. THE CONTRACTOR SHALL RUN A I-I/2" SCH. 40 MAINLINE PIPE FROM THE NEW METER TO THE PRESSURE REGULATOR AND BACKFLOW PREVENTION DEVICE THEN TO THE NORMALLY CLOSED MASTER VALVE AND THE FLOW SENSOR. PROVIDE ALL REQUIRED FITTINGS TO COMPLETE THE CONNECTION TASK. FINAL LOCATION OF THIS EQUIPMENT SHALL BE APPROVED BY THE CITY AND OWNER'S AUTHORIZED REPRESENTATIVES. THE SYSTEM HAS BEEN DESIGNED FOR A MAXIMUM FLOW OF 30 GPM AT MINIMUM OPERATING PRESSURE OF 110.0 PSI. THE CONTRACTOR SHALL VERIFY THE STATIC PRESSURE IN THE FIELD BEFORE COMMENCEMENT OF THE PROJECT.
- PROVIDE AND INSTALL CONTROLLER ASSEMBLY PER ALL STATE AND LOCAL CODES. FINAL LOCATION TO BE APPROVED BY THE OWNER'S AUTHORIZED REPRESENTATIVE. I20VAC POWER PROVIDED BY OTHERS. THE LANDSCAPE CONTRACTOR SHALL COORDINATE THE I20VAC POWER FROM THE SOURCE TO THE CONTROLLER LOCATION AND MAKE THE FINAL HOOKUP. ALL I20VAC POWER WIRING SHALL BE COMPLETED BY A LICENSED ELECTRICAL CONTRACTOR. THE LANDSCAPE CONTRACTOR SHALL CONNECT THE LOW VOLTAGE CONTROL WIRES TO THE CONTROLLER TERMINAL STRIP IN SEQUENCE PER THE DRAWINGS. ANY DEVIATIONS WILL BE NOTED ON THE AS-BUILT DRAWINGS. THE LANDSCAPE CONTRACTOR SHALL COORDINATE WITH THE LOCAL CONTROLLER REPRESENTATIVE FOR TESTING AND INSTALLATION CERTIFICATION.

GENERAL IRRIGATION NOTES

- I. ALL CITY AND STATE LAWS, RULES AND REGULATION GOVERNING OR RELATING TO ANY PORTION OF THIS WORK ARE HEREBY INCORPORATED INTO AND MADE A PART OF THESE SPECIFICATIONS AND THEIR PROVISIONS SHALL BE CARRIED OUT BY THE CONTRACTOR.
- 2. THIS DESIGN IS DIAGRAMMATIC. ALL PIPING, VALVES, ETC., SHOWN WITHIN PAVED AREAS IS FOR DESIGN CLARIFICATION ONLY AND SHALL BE INSTALLED IN PLANTING AREAS WHEREVER POSSIBLE. THE MAIN LINE PIPE SHALL BE INSTALLED AND ROUTED TO AVOID UNFORESEEN BELOW GRADE CONDITIONS. THE CONTRACTOR SHALL LOCATE ALL VALVES IN SHRUB AREAS UNLESS OTHERWISE DIRECTED BY THE OAR (OWNER'S AUTHORIZED REPRESENTATIVE.)
- 3. THE SPRINKLER SYSTEM DESIGN IS BASED ON THE MINIMUM OPERATING PRESSURE AND THE MAXIMUM FLOW DEMAND SHOWN ON THE IRRIGATION DRAWINGS AT EACH POINT OF CONNECTION. THE IRRIGATION CONTRACTOR SHALL VERIFY WATER PRESSURE PRIOR TO EACH CONSTRUCTION. REPORT ANY DIFFERENCE BETWEEN THE WATER PRESSURE INDICATED ON THE DRAWINGS AND THE ACTUAL PRESSURE READING AT THE IRRIGATION POINT OF CONNECTION OT THE OWNER'S AUTHORIZED REPRESENTATIVE. IN THE EVENT PRESSURE DIFFERENCES ARE NOT REPORTED PRIOR TO THE START OF CONSTRUCTION, THE IRRIGATION CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ANY REVISION NECESSARY
- 4. DO NOT WILLFULLY INSTALL THE SPRINKLER SYSTEM AS SHOWN ON THE DRAWINGS WHEN IT IS OBVIOUS IN THE FIELD THAT UNKNOWN OBSTRUCTIONS, GRADE DIFFERENCES OR DIFFERENCES IN THE AREA DIMENSIONS EXIST THAT MIGHT NOT HAVE BEEN CONSIDERED IN THE ENGINEERING. SUCH OBSTRUCTIONS OR DIFFERENCES SHOULD IMMEDIATELY BE BROUGHT TO THE ATTENTION OF THE OWNER'S AUTHORIZED REPRESENTATIVE. IN THE EVENT THIS NOTIFICATION IS NOT PERFORMED, THE IRRIGATION CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ANY REVISIONS NECESSARY.
- 5. THE IRRIGATION CONTRACTOR SHALL FLUSH AND ADJUST ALL SPRINKLER HEADS AND VALVES FOR OPTIMUM COVERAGE AND TO PREVENT OVER SPRAY ONTO WALKS, STREETS, WALLS, ETC. THIS SHALL INCLUDE USE OF VARIABLE ARC SPRINKLERS AND PRESSURE COMPENSATING SCREENS, SELECTING THE BEST DEGREE OF ARC TO FIT THE EXISTING SITE CONDITIONS AND TO THROTTLE THE FLOW CONTROL AT EACH REMOTE CONTROL VALVE TO OBTAIN THE OPTIMUM OPERATING PRESSURE FOR EACH SYSTEM.
- 6. ALL LATERAL LINE PIPING UNDER PAVING WITHOUT A SLEEVE SHALL BE PVC SCHEDULE 40 PIPE AND SHALL BE INSTALLED PRIOR TO PAVING.
- 7. TREE LOCATIONS TAKE PRIORITY OVER IRRIGATION PIPING. STAKE TREE LOCATIONS PRIOR TO TRENCHING FOR PIPE.
- 8. ALL SPRINKLER EQUIPMENT NOT OTHERWISE DETAILED OR SPECIFIED SHALL BE INSTALLED AS PER MANUFACTURER'S RECOMMENDATIONS AND SPECIFICATIONS.
- 9. REFER TO SPECIFICATIONS FOR ADDITIONAL DETAILED INFORMATION.

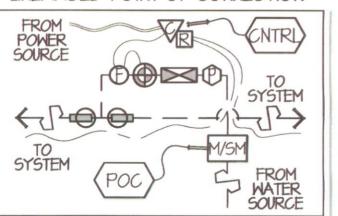
SYMBOL	DESCRIPTION REMARKS	DETAIL
М	NEW I" DEDICATED WATER METER AND I-1/4" SERVICE LINE PROVIDED AND INSTALLED BY GENERAL CONTRACTOR	
V _R	RAINBIRD ESP-LXMEF MODULAR CONTROLLER (& STATION) WITH MASTER VALVE PROGRAMMABILITY, FLOW SENSING, AND RAIN SHUT-OFF. INSTALL WITHIN RAINBIRD LXMMSS WALL MOUNT LOCKING ENCLOSURE.	CDF L-4
*	IRROMETER MOISTURE SENSORS-INSTALL A PAIR AT EACH HYDROZONE AT DRIEST REPRESENTATIVE AREA, SPLICE WIRING INSIDE 6" ROUND LOCKING VALVE BOX LOCATED NO MORE THAN 2'-3' FROM SENSORS. PLACE SENSORS WITHIN "ACTIVE" ROOT ZONE. PLACE AND INSTALL PER MFG REQ'S.	CE L
	NIBCO T-580A BALL VALVE (LINE SIZE)	6 L-
P	WILKENS #500XL PRESSURE REGULATOR (LINESIZE). INSTALL ONLY IF EXISTING STATIC PRESSURE IS GREATER THAN 80PSI	H L-
	FEBCO #825YA RP BACKFLOW PREVENTER W WILKINS YB BRONZE WYE STRAINER (LINE SIZE). INSTALL WITHIN V.I.T. "STRONGBOX" SBBC-30-CR DARK GREEN POWDER COATED STEEL ENCLOSURE, VERIFY EXACT MODEL PER BACKFLOW DEVICE. INSTALL PER CITY/COUNTY STANDARDS	l L-
	SUPERIOR 3300-1-1/2" NORMALLY OPEN MASTER VALVE IN RECTANGULAR VALVE BOX	J L-
•	RAIN BIRD PEB SERIES REMOTE CONTROL VALVE - INSTALL IN SHRUB BEDS WHEREVER POSSIBLE IN RECTANGULAR VALVE BOX	L L-
	RAIN BIRD XCZ SERIES CONTROL ZONE ASSEMBLY WITH REMOTE CONTROL LOW FLOW DVF VALVES AND MESH FILTER. INSTALL IN SHRUB BEDS WHEREVER POSSIBLE IN RECTANGULAR VALVE BOX. FOR RECYCLED WATER SYSTEM USE PURPLE TAGS AT EACH VALVE AND INSTALL IN PURPLE BOLT COVER VALVE BOXES, GREEN FOR POTABLE SYSTEMS PER CITY/COUNTY REQ'S.	M L-
	RAIN BIRD 33 DLRC QUICK COUPLER VALVE - INSTALL APPROXIMATELY 150' O.C. OR WHERE SHOWN IN CIRCULAR VALVE BOX. PROVIDE (I) HOSE KEY AND SWIVEL FOR EVERY IO VALVES INSTALLED	K L-
0	NETAFIM TLSOV FLUSH VALVE-INSTALL AT LEAST ONCE AT EACH SYSTEM/ VALVE AT ENDS OF LINES AND FARTHEST FROM SOURCE, PLACE IN ROUND LOCKING VALVE BOX WITH GRAVEL AND EXTRA LENGTH OF BLANK TUBING	T L-
	AIR RELIEF VALVEINSTALL ONE AT EACH SYSTEM/ VALVE AT HIGH POINT(S) IN ROUND LOCKING VALVE BOX WITH GRAVEL	S L-
	PVC WATER PIPE SCH. 40 (MAINLINE 1-1/2" AND SMALLER)	AB L
	PVC WATER PIPE SCH. 40 3/4"-1-1/2" (LATERALS) ALL IRRIGATION LATERAL PIPING SHALL BE 3/4" SIZE UNLESS NOTED OTHERWISE	AB L-
	PVC PIPE/SLEEVE SCH. 40 - 2" MIN. OR 2X DIA. OF PIPE OR WIRE BUNDLE, INSTALL WHERE SHOWN AND ALL STREET OR DRIVE CROSSINGS	BC L
	IRRIGATION BOXES -BELOW GRADE LOCKABLE 'BOXES" MANUFACTURED BY AMETEK OR CARSON. USE ROUND BOXES FOR GATE VALVES AND QUICK COUPLERS AND RECTANGULAR BOXES FOR BALL VALVES AND REMOTE CONTROL VALVES AND RECTANGULAR BOXES FOR BALL VALVES AND REMOTE CONTROL VALVES AND REMOTE CONTROL VALVES AND REMOTE CONTROL VALVES AND RECTANGULAR	

BOXES FOR BALL VALVES AND REMOTE CONTROL VALVES. VALVE BOX LIDS SHALL BE

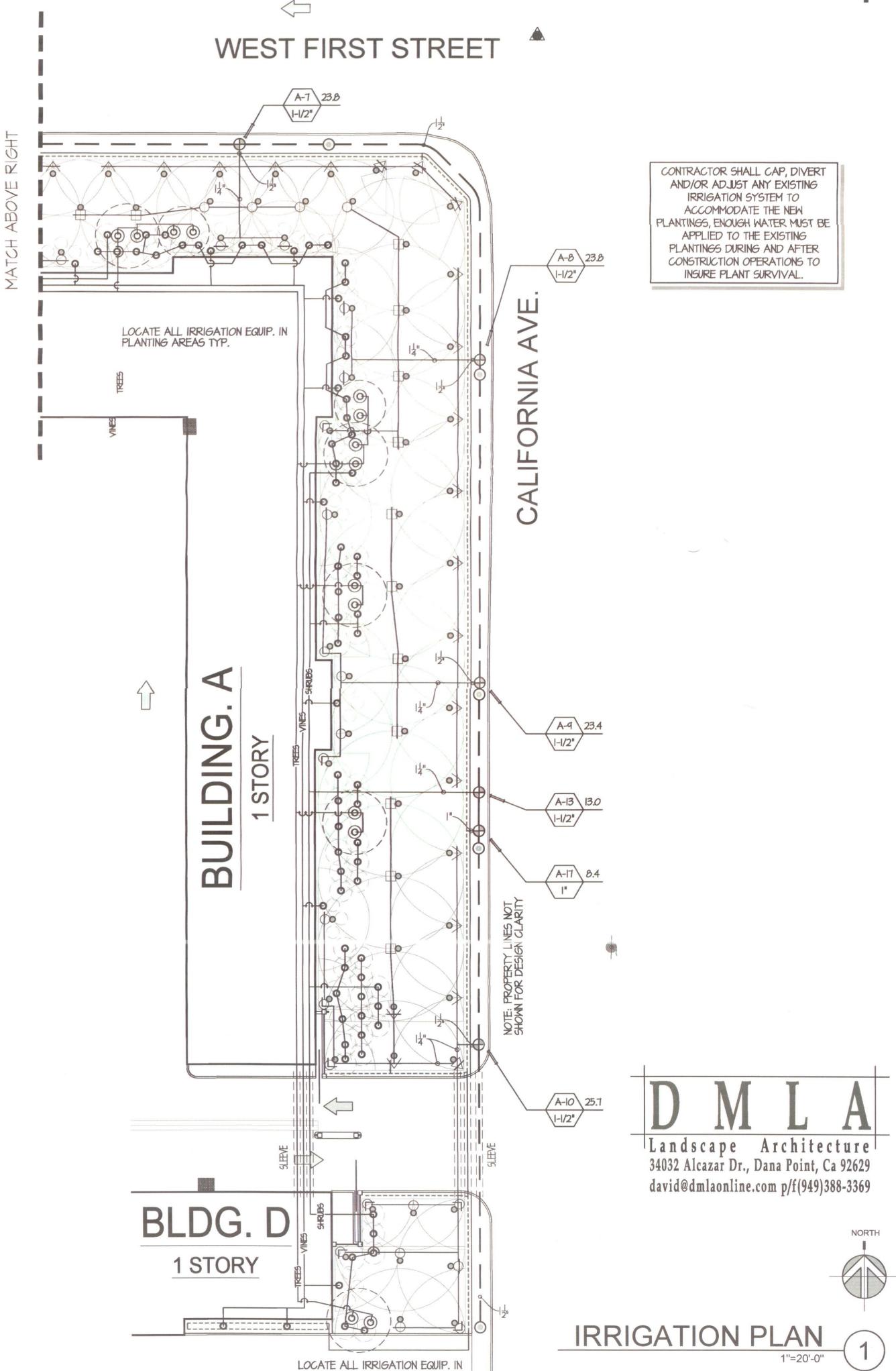
LABELED "BV", "GV", "QC" OR "RCV" WITH CONTROLLER STATION NUMBER, OR PER OAR.

IRRIGATION LEGEND

ENLARGED POINT OF CONNECTION



YDRAULIC CALCUL	ATIONS
WATER METER #:ASIZE:	
ELEVATION: STATIC PRESSURE: ASSUMED MINIMUM REMOTE CONTROL VALVE: A-IO (MORST CASE)	IIO PSI 26.7 GPM
PRESSURE CALCULATION WORK SHEET:	
PVC CLASS 200 LATERAL PIPE: (90'):	-11.5 75 -1.0 ')-16.1 -1.5
SUB-TOTAL SYSTEM LOSS: SPRINKLER PRESSURE REQUIREMENT:	
TOTAL PRESSURE LOSS: STATIC PRESSURE AVAILABLE:	-88.37 +110.0
RESIDUAL PRESSURE:	+21.63
SET PRESSURE REGULATOR:	N.A.
	1



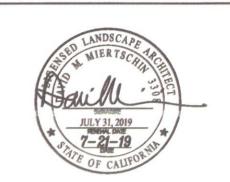
bruce jordan, architect

131 Calle Iglesia, Suite 100 San Clemente, CA. 92672-7541

Telephone (949) 388-8090 Facsimile (949) 388-8290

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CLIENT

DR. KIRK HOWARD

1648 WOODLANDS RD. BEAUMONT, CA 92223

PROJECT

BEAUMONT RV & SELF STORAGE

WEST FIRST RD. & CALIFORNIA BEAUMONT, CA

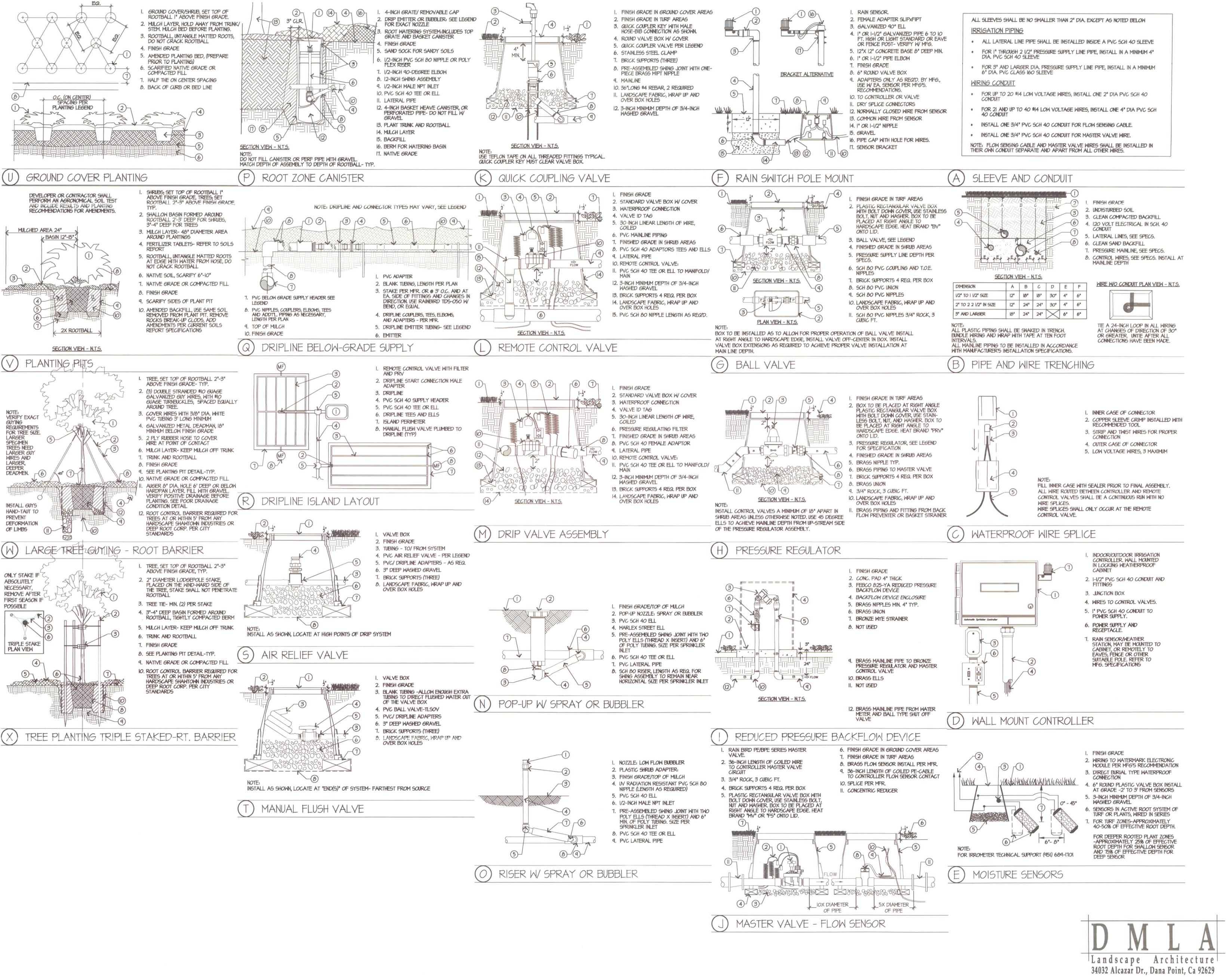
SHEET TITLE

IRRIGATION PLAN

PROJECT MANAGER: EMC
DRAWN BY: MI3
DATE: 01-22-19
JOB NUMBER: 17-130

SHEET NUMBER:

2019-09-26 - BCVWD Board of Directors Engineering Workshop - Page 44 of 116



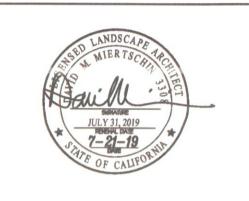
jordan, architect

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CLIENT

DR. KIRK HOWARD

1648 WOODLANDS RD. BEAUMONT, CA 92223

PROJECT

BEAUMONT RV & SELF STORAGE

WEST FIRST RD. & CALIFORNIA
BEAUMONT, CA

SHEET TITLE

LANDSCAPE

REV. DATE COMMENT

XXX XXX

PROJECT MANAGER: EMC
DRAWN BY: MI3

DATE:

JOB NUMBER:

SHEET NUMBER:

david@dmlaonline.com p/f(949)388-3369

L-4

01-22-19

17-130

I. GENERAL CONDITIONS

THE CONTRACTOR SHALL FIELD VERIFY THE EXISTING WATER PRESSURE (P.S.I.) AND AVAILABLE FLOW (G.P.M.) PRIOR TO CONSTRUCTION. NOTIFY THE OWNER'S AUTHORIZED REPRESENTATIVE (O.A.R.) IMMEDIATELY OF ANY DISCREPANCIES BETWEEN THE ACTUAL PRESSURE AND FLOW AVAILABLE WITH THOSE SHOWN IN THESE DRAWINGS. THIS DESIGN IS DIAGRAMMATIC. ALL PIPING, VALVES, ETC., SHOWN WITHIN PAYED AREAS IS FOR DESIGN CLARITY ONLY

AND SHALL BE INSTALLED IN PLANTING AREAS WHERE POSSIBLE DO NOT WILLFULLY INSTALL THE SPRINKLER SYSTEM AS SHOWN ON THE DRAWINGS WHEN IT IS OBVIOUS IN THE FIELD THAT THERE ARE UNKNOWN OBSTRUCTIONS, GRADE DIFFERENCES OR DIFFERENCES IN THE AREAS SIZE AND LAYOUT THAT WERE NOT CONSIDERED IN THE ORIGINAL DESIGN. NOTIFY THE O.A.R. OF SUCH OBSTRUCTIONS AND DIFFERENCES IMMEDIATELY.

IN THE EVENT THAT THE NOTIFICATIONS REQUIRED BY THESE NOTES ARE NOT PERFORMED, THE IRRIGATION CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR ANY REVISION NECESSARY.

II. QUALITY ASSURANCE AND REQUIREMENTS

THE CONTRACTOR SHALL MAINTAIN A QUALIFIED SUPERVISOR, FAMILIAR WITH THE TYPE OF WORK AND THE CONTRACT DOCUMENTS, ON SITE AT ALL TIMES DURING INSTALLATION OF THE WORK AND PRIMARY MAINTENANCE. ALL SPRINKLER EQUIPMENT NOT OTHERWISE DETAILED OR SPECIFIED SHALL BE INSTALLED PER THE MANUFACTURER'S RECOMMENDATIONS.

III. MATERIALS/ INSTALLATION

THE MAINLINE PIPE SHALL BE INSTALLED AND ROUTED TO AVOID UNFORSEEN OBSTACLES BELOW GRADE. TREE LOCATIONS TAKE PRIORITY OVER IRRIGATION PIPING. STAKE TREE LOCATIONS PRIOR TO TRENCHING. THE AUTOMATIC CONTROLLER AND THE BACKFLOW DEVICE SHALL BE FACTORY ASSEMBLED AND INSTALLED PER MANUFACTURER'S RECOMMENDATIONS. FINAL LOCATION OF THE AUTOMATIC CONTROLLER AND THE BACKFLOW DEVICE SHALL BE APPROVED BY THE O.A.R.

PRIOR TO INSTALLATION. THE 120 VOLT ELECTRICAL CONNECTION FOR THE CONTROLLER SHALL BE FURNISHED BY OTHERS. THE CONTRACTOR SHALL COORDINATE THE ROUTE OF THE ELECTRICAL SERVICE TO THE APPROVED CONTROLLER LOCATION WITH THE GENERAL CONTRACTOR. THE SERVICE TO THE CONTROLLER JUNCTION BOX SHALL BE INSTALLED BY A LICENSED ELECTRICIAN. THE IRRIGATION CONTRACTOR SHALL MAKE THE FINAL CONNECTIONS TO THE AUTOMATIC CONTROLLERS FROM THE PROVIDED JUNCTION BOX.

III. MATERIALS/ INSTALLATION

THE MAINLINE PIPE SHALL BE INSTALLED AND ROUTED TO AVOID UNFORSEEN OBSTACLES BELOW GRADE. TREE LOCATIONS TAKE PRIORITY OVER IRRIGATION PIPING. STAKE TREE LOCATIONS PRIOR TO TRENCHING. THE AUTOMATIC CONTROLLER AND THE BACKFLOW DEVICE SHALL BE FACTORY ASSEMBLED AND INSTALLED PER MANUFACTURER'S RECOMMENDATIONS.

FINAL LOCATION OF THE AUTOMATIC CONTROLLER AND THE BACKFLOW DEVICE SHALL BE APPROVED BY THE O.A.R. PRIOR TO INSTALLATION.

THE 120 VOLT ELECTRICAL CONNECTION FOR THE CONTROLLER SHALL BE FURNISHED BY OTHERS. THE CONTRACTOR SHALL COORDINATE THE ROUTE OF THE ELECTRICAL SERVICE TO THE APPROVED CONTROLLER LOCATION WITH THE GENERAL CONTRACTOR. THE SERVICE TO THE CONTROLLER JUNCTION BOX SHALL BE INSTALLED BY A LICENSED ELECTRICIAN. THE IRRIGATION CONTRACTOR SHALL MAKE THE FINAL CONNECTIONS TO THE AUTOMATIC CONTROLLERS FROM THE PROVIDED JUNCTION BOX.

ALL WIRES FROM THE CONTROLLER TO THE AUTOMATIC VALVES SHALL BE COPPER, DIRECT BURIAL, MINIMUM #14 GUAGE. INSTALL IN THE SAME TRENCH AS THE MAINLINE WHERE POSSIBLE. COMMON WIRE TO BE WHITE IN COLOR, CONTROL WIRES TO BE A DIFFERENT COLOR FOR EACH CONTROLLER USED. BUNDLE AND TAPE WIRES A MINIMUM OF TEN (10) FEET

THE CONTRACTOR SHALL RUN THREE (3) SPARE WIRES AND ONE (1) COMMON WIRE FROM THE CONTROLLER TO EACH END OF THE MAIN LINE FOR FUTURE USE, EXTEND THE WIRES AN EXTRA TEN (10) FEET, MAKE A COIL AND PLACE IN A RECTANGULAR PULL BOX. LABEL THE LID "SW".

ALL MAINLINE PIPING AND CONTROL WIRES UNDER PAVING SHALL BE INSTALLED IN SEPARATE SLEEVES. MAINLINE SLEEVE SIZE SHALL BE A MINIMUM OF TWICE (2x) THE DIAMETER OF THE PIPE TO BE SLEEVED. SIZE WIRE SLEEVES SO THAT WIRES ARE NOT BOUND IN PIPE. MINIMUM COVERAGE FOR SLEEVES SHALL BE TWENTY FOUR (24) INCHES FOR EEVED LATERAL LINES, THIRTY (30) INCHES FOR 120 VOLT WIRING IN CONDUIT AND THIRTY SIX (36) INCHES FOR BLEEVED MAINLINE AND/OR CONTROL WIRING.

ALL LATERAL LINE PIPING UNDER PAVEMENT NOT SLEEVED, SHALL BE PVC SCHEDULE 40 AND SHALL BE INSTALLED PRIOR TO PAVING.

DIG TRENCHES STRAIGHT AND SUPPORT PIPE CONTINUOUSLY ON BOTTOM. TRENCH MUST BE FREE OF ROCKS, DEBRIS OR ANY SHARP OBJECTS. SNAKE PLASTIC PIPE IN TRENCH. MINIMUM COVERAGE FOR MAINLINE SIZES 1-1/5" AND SMALLER IS EIGHTEEN (18) INCHES, FOR SIZES 2" AND LARGER COVERAGE IS TWENTY FOUR (24) INCHES, FOR LATERAL LINES TWELVE (12) INCHES, 120 YOLT WIRING IN CONDUIT THIRTY (30) INCHES AND LOW YOLTAGE CONTROL WIRE TWELVE (12) INCHES MINIMUM OR THE SAME DEPTH AS THE MAINLINE. DO NOT INSTALL ANY PIPE OR WIRING DIRECTLY OVER ANOTHER. BALL VALVES. GATE VALVES. REMOTE CONTROL VALVES (EXCEPT FOR ANTI-SIPHON TYPE) AND QUICK COUPLERS SHALL BE INSTALLED IN BELOW GRADE LOCKABLE "BOXES" MANUFACTURED BY AMETEK OR CARSON, USE ROUND BOXES FOR GATE VALVE, BALL VALVES AND QUICK COUPLERS AND RECTANGULAR BOXES FOR REMOTE CONTROL VALVES. VALVE BOX LIDS SHALL BE GREEN COLOR, LABELED "BV", "GV", "QC" OR "RCV" WITH CONTROLLER STATION NUMBER. SET VALVE BOXES ONE (1) INCH ABOVE FINISH GRADE, SET VALVES AT SUFFICIENT DEPTH TO PROVIDE APPROPRIATE CLEARANCE BETWEEN THE COVER AND THE VALVE. INSTALL IRRIGATION EQUIPMENT SO THE VALVE BOXES FIT WITHOUT CUTTING THE WALLS OF THE VALVE BOXES. CUT VALVE BOXES SHALL BE REPLACED AT NO COST TO THE OWNER. THE CONTRACTOR SHALL LOCATE ALL VALVES IN SHRUB AREAS, UNLESS DIRECTED OTHERWISE BY THE O.A.R.

ALL SPRINKLER HEADS SHALL BE SET PERPENDICULAR TO FINISH GRADE. INSTALL ALL SPRINKLERS ON RISERS TWELVE (12) INCHES AWAY FROM WALLS AND STRUCTURES.

ALL POP-UP TYPE SPRINKLER HEADS INSTALLED IN SHRUB AND GROUNDCOVER AREAS SHALL BE INSTALLED SO THAT THE TOP OF THE SPRINKLER HEAD IS ONE (1) INCH ABOVE FINISH GRADE. ALL POP-UP TYPE SPRINKLER HEADS INSTALLED IN TURF AREAS SHALL BE INSTALLED SO THAT THE TOP OF THE

SPRINKLER HEAD IS FLUSH WITH ADJACENT PAYING.

AFTER RECEIVING NOTIFICATION BY THE O.A.R., THE CONTRACTOR, WITHIN TEN (10) DAYS SHALL ADJUST ALL LAWN HEADS SO THAT THE TOP OF THE SPRINKLER HEAD IS ONE QUARTER (4) INCH ABOVE FINISH GRADE.

INSTALL ANTI DRAIN VALVES TO ELIMINATE LOW HEAD DRAINAGE. ANTI DRAIN VALVE (ADV) UNITS MAY NOT BE REQUIRED ON ALL HEADS., PRIOR TO INSTALLATION, CONTRACTOR SHALL VERIFY WITH ON SITE GRADES IF THERE IS AN ELEVATION DIFFERENCE OF TWO (2) FEET OR MORE BETWEEN THE HIGHEST AND LOWEST SPRINKLER HEAD ON A SYSTEM. INSTALL THE ADV WHERE NECESSARY.

ALL SOLVENT WELD PVC PRESSURE LINES AND FITTINGS MUST RECEIVE PRIMER BEFORE SOLVENT WELDING. IV. ADJUSTING AND TESTING THE SYSTEM

AFTER PIPELINE ASSEMBLY THE CONTRACTOR SHALL THOROUGHLY FLUSH THE SYSTEM. WITH OPEN ENDS ALL CAPPED PRESSURE TEST FOR FOUR (4) HOURS AT 150 P.S.I.

AFTER COVERAGE AND PRESSURE TESTING THE CONTRACTOR SHALL INSTALL ALL TERMINAL FIXTURES AND PERFORM A COVERAGE TEST. THE CONTRACTOR SHALL ADJUST ALL SPRINKLER HEADS AND VALVES FOR OPTIMUM COVERAGE AND TO PREVENT OVERSPRAY. THIS SHALL INCLUDE THE USE OF VARIABLE ARC NOZZLES (VAN) AND PRESSURE COMPENSATING SCREENS

(PCS), THE SELECTION OF THE BEST DEGREE OF ARC TO FIT THE SITE AND THROTTLING OF THE FLOW CONTROL AT EACH VALVE TO FIND THE OPTIMUM OPERATING PRESSURE FOR EACH SYSTEM. THE ENTIRE SYSTEM SHALL BE IN FULL AUTOMATIC OPERATION FOR ONE SEVEN (7) DAYS PRIOR TO ANY PLANTING.

V. SUBMITTALS UPON COMPLETION THE CONTRACTOR SHALL SUPPLY THE OWNER WITH A COMPLETE SET OF REPRODUCIBLE "AS-BUILT" DRAWINGS. THESE AS-BUILTS SHALL SHOW THE LOCATIONS OF ALL POINTS OF CONNECTION, VALVES, CROSSINGS, QUICK COUPLERS AND OTHER MAINLINE COMPONENTS DIMENSIONED ACCURATELY FROM TWO (2) PERMANENT SITE OBJECTS. IN ADDITION THE CONTRACTOR SHALL SUPPLY TWO (2) CONTROLLER CHARTS SHOWING EACH VALVE'S COVERAGE AREA COLOR CODED TO THE CORRESPONDING CONTROLLER STATION.

THE CONTRACTOR MUST ALSO FURNISH TWO (2) SETS EACH OF THE FOLLOWING: ANY SPECIAL VALVE OR SPRINKLER ADJUSTMENT TOOLS, KEYS FOR THE CONTROLLER ENCLOSURES, QUICK COUPLER KEYS AND ANY OPERATION MANUALS FOR THE EQUIPMENT INSTALLED.

VI. GUARANTEE THE CONTRACTOR'S WORK SHALL BE FULLY GUARANTEED FOR ONE (I) FULL YEAR FROM THE DATE OF ACCEPTANCE BY THE OWNER. ANY DEFECTIVE MATERIALS OR POOR WORKMANSHIP SHALL BE REPLACED OR CORRECTED AT NO COST TO

VII. MAINTENANCE A QUALIFIED SUPRVISOR SHALL BE RESPONSIBLE FOR OPERATING THE IRRIGATIONS SYSTEMS, ADJUSTING THE

CONTROLLERS AND OBSERVING THE EFFECTIVENESS OF THE IRRIGATION SYSTEM CHART ALL CONTROLLER PROGRAMS, RECORDING DATE, TIME, LENGHT OF WATERING FOR EACH STATION, RESET CONTROLLER AT LEAST MONTHLY TO ACCOUNT FOR SEASONAL VARIATIONS.

INSPECT AND ADJUST THE ENTIRE IRRIGATION SYSTEM WEEKLY DURING APRIL THRU OCTOBER AND BI-WEEKLY FOR THE REST OF THE YEAR. CHECK FOR LEAKS, WET AND DRY SPOTS, USE A MOISTURE SENSING DEVICE TO EVALUATE ACTUAL SOIL MOISTURE. OBSERVE NOZZLES FOR PROPER PATTERN AND PRESSURE.

VIII. CITY REQUIRED AS-BUILT PLANS

IRRIGATION AS-BUILT PLANS ARE REQUIRED TO BE SUBMITTED FOR THE H.O.A. COMMON LANDSCAPE AREAS. SUBMITTAL OF AS-BUILT PLANS SHALL BE AS REQUIRED BY THE ENGINEERING AND PLANNING DIVISIONS. THE FINAL PLANS SHOULD BE PREPARED BY THE LANDSCAPE ARCHITECT FROM DIMENSIONS PROVIDED BY THE CONTRACTOR, FINAL AS-BUILT PLANS SHALL BE DRAFTED CLEARLY TO THE SATISFACTION OF THE CITY, AND THE FINAL PLANS SHALL BE SUBMITTED TO THE CITY FOR THEIR KEEPING.

THE FINAL AS-BUILT PLANS WILL BE REQUIRED TO BE REVIEWED AND APPROVED BY THE CITY AND FINAL PLANS WILL BE REQUIRED TO BE APPROVED AND SIGNED BY THE CITY PRIOR TO RELEASE OF SECURITIES.

IV. MAXIMUM APPLIED WATER ALLOWANCE (MAWA)

STATE LAW REQUIRES THE LANDSCAPING AND IRRIGATION SYSTEM ON THE PROPERTY TO BE MAINTAINED AND OPERATED CONSISTENT WITH THE MAWA.

MAINTAIN THE IRRIGATION SYSTEM TO MEET OR EXCEED AN IRRIGATION EFFICIENCY NECESSARY TO MEET MAWA. REPLACE BROKEN OR MALFUNCTIONING IRRIGATION SYSTEM COMPONENTS WITH COMPONENTS OF THE SAME MATERIALS AND SPECIFICATIONS, THEIR EQUIVALENT OR BETTER.

ENSURE THAT WHEN VEGETATION IS REPLACED, REPLACEMENT PLANTINGS ARE REPRESENTATIVE OF THE HYDROZONE IN WHICH THE PLANTS WERE REMOVED AND ARE TYPICAL OF THE WATER USE REQUIREMENTS OF THE PLANTS REMOVED, SO THAT THE REPLACED VEGETATION DOES NOT RESULT IN MIXING HIGH WATER USE PLANTS WITH LOW WATER USE PLANTS IN THE SAME HYDROZONE.

PLANTING SPECS.

I. GENERAL

THESE DRAWINGS ARE DIAGRAMMATIC, SHOWING INTENDED LOCATIONS AND RELATIONSHIPS OF PLANTING ELEMENTS. FINAL SITE CONDITIONS, ALTERED DURING CONSTRUCTION MAY REQUIRE ADJUSTMENTS TO THE LAYOUT. THE IRRIGATION SYSTEM SHALL BE FULLY OPERATIONAL, TESTED AND INSPECTED PRIOR TO PLANTING. ANY SUBSTITUTIONS MUST BE APPROVED BY THE LANDSCAPE ARCHITECT OR O.A.R. PRIOR TO PURCHASE AND INSTALLATION.

II. PLANT MATERIAL/QUALITY ASSURANCE THE CONTRACTOR SHALL MAINTAIN A QUALIFIED SUPERVISOR, FAMILIAR WITH THE TYPE OF WORK AND THE CONTRACT DOCUMENTS, ON SITE AT ALL TIMES DURING INSTALLATION OF THE WORK AND PRIMARY MAINTENANCE ALL PLANT MATERIAL SHALL BE SUBJECT TO THE APPROVAL BY THE OWNER'S AUTHORIZED REPRESENTATIVE (O.A.R.). THE CONTRACTOR SHALL SUBMIT A LIST OF AVAILABILITY FOR ALL BOXED TREES THIRTY (30) DAYS BEFORE

SCHEDULED PLANTING FOR APPROVAL AT THE NURSERY BY THE O.A.R. CONTRACTOR IS RESPONSIBLE FOR FURNISHING PLANT MATERIAL FREE OF PESTS OR DISEASES AND NORMAL IN FORM FOR THE SPECIES AND DESIGN CALLED FOR IN THE PLANS. ONLY AS MANY PLANTS AS CAN BE PLANTED AND WATERED THAT SAME DAY SHALL BE DISTRIBUTED IN A PLANTING

THE CONTRACTOR SHALL NOT INSTALL PLANT MATERIAL THAT IS WILTED OR HAS A DAMAGED ROOT BALL. CONTRACTOR SHALL NOT INSTALL TREES WITHIN TEN (IO) FEET OF ROTORS/ IMPACT HEADS OR WITHIN THREE (3) FEET OF STREAM/ SPRAY HEADS. ALL TREES WITHIN A SPECIES SHALL HAVE MATCHING FORM, SIZE AND TEXTURAL DENSITY.

SOIL AMENDMENT AND BACKFILL MIX AS DESCRIBED HEREIN ARE FOR BIDDING PURPOSES ONLY. SPECIFIC AMENDMENTS AND FERTILIZER WILL BE SELECTED AND SPECIFIED AFTER ROUGH GRADING IS COMPLETE AND SOILS SAMPLES CAN BE TESTED. AMENDMENT AND FERTILIZER AMOUNT AND TYPE SHALL BE AS RECOMMENDED IN THE AGRONOMIC SOILS REPORT.

III. WEED ABATEMENT

WEED ABATEMENT SHALL BEGIN AFTER ROUGH GRADING. CONTRACTOR TO IRRIGATE PLANTING AREA FOR THREE (3) WEEKS OR UNTIL SUFFICIENT WEED SEEDS HAVE GERMINATED. AFTER WHICH A CONTACT HERBICIDE IS SPRAYED BY A LICENSED PEST CONTROL APPLICATOR. IRRIGATION IS STOPPED FOR FORTY-EIGHT (48) HOURS. THE DEAD WEEDS ARE THEN REMOVED AND AFTER SUCH TIME AS NECESSARY FOR THE HERBICIDE TO DISSIPATE, PLANTING MAY BEGIN.

IV. SOIL PREPARATION

NO SOIL PREPARATION SHALL BE DONE UNTIL ROUGH GRADING HAS BEEN APPROVED BY THE O.A.R. SOIL SAMPLES SHALL BE TAKEN FROM ENOUGH LOCATIONS ON THE SITE TO REPRESENT AN ADEQUATE CROSS SECTION OF CONDITIONS. SOIL TEST SHALL BE PERFORMED BY A SOIL TESTING LABORATORY (PRE-APPROVED BY THE CITY). THE TEST SHALL INDICATE BUT NOT BE LIMITED TO THE FOLLOWING: ORGANIC MATTER CONTENT

SOIL TEXTURE (SILT, CLAY, SAND)

RECOMMENDATIONS FOR AMENDMENTS, LEACHING AND MAINTENANCE FERTILIZATIONS THE RESULTS AND RECOMMENDATIONS OF THE TESTING LABORATORY SHALL BE SUBMITTED TO AND APPROVED BY THE CITY. THE APPROVED RECOMMENDATIONS FOR AMENDMENTS AND BACKFILL SHALL BE INCORPORATED INTO THE LANDSCAPE PLANS PRIOR TO THE START OF CONSTRUCTION AND SHALL BECOME PART OF THE APPROVED PLANS. CROSS RIP ALL PLANTING AREAS TO DEPTH OF TWELVE (12) INCHES AND UNIFORMLY INCORPORATE THE FOLLOWING AMENDMENTS INTO THE TOP SIX (6) INCHES AS PART OF THE FINISH GRADING WORK.

PER THOUSAND (1,000) SQUARE FEET TWO HUNDRED (200) POUNDS "GRO-POWER PLUS"

SIX (6) CUBIC YARDS NITROGEN STABILIZED ORGANIC COMPOST TWO HUNDRED (200) POUNDS AGRICULTURAL GYPSUM

PRIOR TO PLANTING OF ANY MATERIALS, COMPACTED SOILS SHALL BE TRANSFORMED TO A FRIABLE CONDITION. ON ENGINEERED SLOPES, ONLY AMENDED PLANTING HOLES NEED MEET THE REGUIREMENT OF THIS SECTION.

V. FINISHED GRADING AFTER ROUGH GRADING, WEED ABATEMENT AND SOIL PREPARATION ALL PLANTING AREAS SHALL BE SMOOTHLY GRADED. THE GRADE SHALL BE UNIFORM AND SMOOTH WITH NO ABRUPT CHANGE OF SURFACE GRADING SHALL PROVIDE FOR NATURAL RUNOFF WITHOUT LOW SPOTS. FLOW LINES SHALL BE ACCURATLEY SET BY INSTRUMENT AT TWO (2) PERCENT MINIMUM SLOPE.

CONTRACTOR SHALL REMOVE FROM PLANTING AREAS ALL DEBRIS, WEEDS AND ROCK LARGER THAN ONE (I) INCH IN DIAMETER FROM THE TOP SIX (6) INCHES OF SOIL AND DISPOSED OF OFF-SITE.

VI. INSTALLATION THE IRRIGATION SYSTEM SHALL BE FULLY OPERATIONAL, TREES INSTALLED AND A COVERAGE TEST COMPLETED PRIOR TO ANY CONTAINER OR GROUND COVER MATERIAL INSTALLATION.

EXCAVATION FOR PLANTING SHALL INCLUDE THE STOCKPILING OF TOPSOIL FROM WITHIN AREAS TO BE EXCAVATED FOR TRENCHES TREE HOLES, PLANT PITS AND BEDS. ALL EXCAVATED PLANTING HOLES SHALL HAVE VERTICAL, SCARIFIED SIDES, TWICE (2X) THE SIZE OF THE DIAMETER AND SIX (6) INCHES MINIMUM DEEPER THAN THE ROOTBALL EXCESS SOIL GENERATED FROM THE EXCAVATIONS AND NOT USED AS BACKFILL OR IN ESTABLISHING FINAL GRADES SHALL BE REMOVED FROM THE SITE. INSPECT ROOTBALL AND GENTLY LOOSEN OR UNTANGLE MATTED ROOTS, DO NOT CRACK ROOTBALL. REPLACE ANY

PLANTS WITH ROOTS GIRDLING THE ROOTBALL THE CROWN AREA OF TREES AND SHRUBS SHALL BE 2" HIGHER AFTER SETTLING, THAN ADJACENT FINISH GRADE. THE APPROVED BACKFILL FOR PLANT PITS SHALL CONSIST OF THE FOLLOWING MIX. PLANT PITS SHALL BE FILLED TO THE REQUIRED GRADE AND THOROUGHLY SETTLED BY WATER APPLICATION AND TAMPING. PER CUBIC YARD OF MIX: UNIFORMLY BLENDED

SIX (6) PARTS BY VOLUME ON-SITE SOIL OF NON SALINE, NON SODIC, LOW BORON CONTENT SANDY TEXTURED TOP SOIL FOUR (4) PARTS BY VOLUME NITROGEN STABILIZED ORGANIC AMENDMENT TWENTY (20) POUNDS "GRO-POWER PLUS"

TWENTY (20) POUNDS AGRICULTURAL GYPSUM BACKFILL PIT HALFWAY THEN PLACE "GRO-POWER" SEVEN (1) GRAM OR "AGRIFORM" TWENTY ONE (21) GRAM SLOW RELEASE PLANTING TABLETS SPREAD EVENLY AROUND ROOTBALL. THE NUMBER OF TABLETS PER PLANT SHALL BE PER THE MANUFACTURER.

PROVIDE A DEPRESSED WATER BASIN AS WIDE AS THE ROOT BALL FOR EACH PLANT. WATER AGAIN THOROUGHLY UNTIE VINES AND REMOVE ALL STAKES AND TRELLISES THEN SECURELY FASTEN AND TRAIN AGAINST WHATEVER STRUCTURE NEXT TO WHICH THEY ARE PLANTED. TREES MUST BE STAKED AND/OR GUYED AT THE TIME OF PLANTING. LAY SOD WITHIN TWO (2) DAYS OF DELIVERY AND DO NOT STORE IN HOT SUN. SET IN A STAGGERED PATTERN ON PRE-IRRIGATED MOIST GROUND AND SET FIRMLY AGAINST OTHER SOD PIECES. WATER THOROUGHLY AFTER PLANTING UNLESS NOTED OTHERWISE, CONTRACTOR SHALL PLANT GROUND COVERS IN STRAIGHT ROWS, EVENLY SPACED IN A TRIANGULAR PATTERN AT THE INTERVALS LISTED IN THE DRAWINGS.

THE APPLICATION OF ORGANIC MULCH MATERIALS MADE FROM RECYCLED OR POST-CONSUMER MATERIALS SHALL TAKE PRECEDENCE OVER INORGANIC MATERIALS UNLESS RECYCLED OR POST-CONSUMER MATERIALS ARE NOT LOCALLY AVAILABLE. AFTER ALL PLANTING IS COMPLETED, TOP DRESS ALL NON-TURF LANDSCAPED AREAS WITH SLOPES LESS STEEP THAN 3:1, WITH A 3" LAYER OF SINGLE GRIND SHREDDED BARK MULCH, TO COVER THE PLANTING AREA COMPLETELY. THIS

LAYER IS IN ADDITION TO SOIL AMENDMENT MATERIALS. UNLESS DIRECTED OTHERWISE BY THE O.A.R., PRUNE ONLY TO REMOVE DEAD OR BROKEN BRANCHES AND SUCKER GROWTH.

VII. GUARANTEE

CONTRACTOR SHALL PROVIDE A NINETY (90) DAY GUARANTEE FOR ALL PLANTS EXCLUDING TREES WHICH SHALL BE GUARANTEED FOR ONE (1) FULL YEAR. DURING THE GUARANTEE PERIOD THE CONTRACTOR SHALL REPLACE, IN A TIMELY MANNER, ANY PLANTS THAT ARE UNHEALTHY, MISSING OR DEAD. THIS GUARANTEE SHALL NOT INCLUDE DAMAGE TO GROUND COVER FROM EXCESSIVE RAIN RUN-OFF AND EXTREME WINDS. SUCH "NATURAL" DAMAGE SHALL BE REPAIRED FOR TIME AND MATERIALS.

CONTRACTOR SHALL INCLUDE IN THEIR BID FOR A 90 DAY MAINTENANCE PERIOD AFTER FINAL LANDSCAPE ACCEPTANCE BY THE OWNER. THIS MAINTENANCE SHALL INCLUDE, BUT IS NOT LIMITED TO, KEEPING ALL AREAS WEED FREE, WATERED, PEST AND DISEASE FREE AND ANY OTHER WORK NECESSARY FOR HEALTHY, VIGOROUS PLANT GROWTH AND APPEARANCE.

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- A. THE LANDSCAPE ARCHITECT WILL INTERPRET THE MEANING OF ANY PART OF THE PLANS AND SPECIFICATIONS ABOUT WHICH ANY MISUNDERSTANDING MAY ARISE, AND HIS DECISION WILL BE FINAL
- B. THE CONTRACTOR SHALL OBTAIN CLARIFICATION TO QUESTIONS RELATIVE TO THE DRAWING BEFORE SUBMITTING A BID. THE CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS, EQUIPMENT AND LABOR NECESSARY TO COMPLETE THE
- WORK SHOWN ON THE DRAWINGS. D. THE CONTRACTOR SHALL CARRY NECESSARY CALIFORNIA STATE CONTRACTORS LICENSE OR CERTIFICATE FOR TYPE
- OF WORK LISTED, SUCH AS C-27.
- E. THE CONTRACTOR SHALL CARRY ALL NECESSARY COMPENSATION AND LIABILITY INSURANCE TO COVER HIS WORKMEN
- AND WORK TO FULLY PROTECT THE OWNER FROM ANY POSSIBLE SUIT OR LIEN. F. THE CONTRACTOR SHALL MAINTAIN A QUALIFIED SUPERVISOR, FAMILIAR WITH THE TYPE OF WORK AND THE CONTRACT
- DOCUMENTS, ON SITE AT ALL TIMES DURING INSTALLATION OF THE WORK AND PRIMARY MAINTENANCE. G. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY PERMITS AND LICENSES AND ASSURE THAT ALL WORK TO BE PERFORMED MEETS OR EXCEEDS ALL APPLICABLE CODES AND ORDINANCES OF PRIVATE OR GOVERNMENTAL
- AGENCIES HAVING JURISDICTION OVER THE PROJECT. H. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO FAMILIARIZE HIMSELF WITH ALL GRADE DIFFERENCES, LOCATION OF WALLS, RETAINING WALLS, STRUCTURES AND UTILITIES. THE
- CONTRACTOR SHALL REPAIR OR REPLACE ALL ITEMS DAMAGED BY HIS WORK AT NO EXPENSE TO THE OWNER. HE SHALL COORDINATE HIS WORK WITH OTHER CONTRACTORS FOR THE LOCATION AND INSTALLATION OF PIPE SLEEVES AND LATERAL LINES THROUGH WALLS, UNDER ROADWAYS, DRIVES AND PAVING, ETC. THE CONTRACTOR SHALL USE ONLY NEW MATERIALS, OF BRANDS AND TYPES SHOWN AND DESCRIBED IN THESE
- DRAWINGS. . THE CONTRACTOR SHALL EXERCISE CARE IN HANDLING, LOADING, UNLOADING AND STORING ALL EQUIPMENT AND MATERIALS. ALL MATERIALS AND EQUIPMENT THAT IS DAMAGED WILL BE DISCARDED, EVEN IF INSTALLED, AND SHALL BE REPAIRED OR REPLACED AT THE DISCRETION OF THE OWNER'S AUTHORIZED REPRESENTATIVE (O.A.R.) AT NO
- EXPENSE TO THE OWNER. K. THE CONTRACTOR SHALL PROTECT ALL PLANTING AREAS FROM EXCESSIVE COMPACTION WHEN TRUCKING MATERIALS AND EQUIPMENT TO AND WITHIN THE SITE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL THEFTS OR DAMAGE TO MATERIALS ONCE DELIVERED TO JOB SITE. M. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION BETWEEN SUB-CONTRACTORS AS REQUIRED TO ACCOMPLISH ALL CONSTRUCTION OPERATIONS. ALL PIPING, CONDUIT, SLEEVES, ETC. SHALL BE IN PLACE PRIOR TO
- INSTALLATION OF CONSTRUCTION ITEMS. N. ALL PROGRESS INSPECTIONS SHALL BE COMPLETED BEFORE SUCCEEDING WORK IS STARTED. ANY WORK COVERED UP BEFORE REQUIRED INSPECTIONS ARE COMPLETED WILL BE EXPOSED FOR REVIEW AT THE CONTRACTOR'S EXPENSE.
- O. CLEAN-UP SHALL BE DONE AS EACH PORTION OF THE WORK PROGRESSES. REPUSE AND EXCESS DIRT SHALL BE REMOVED FROM THE SITE, ALL WALKS AND PAVING SHALL BE BROOMED AND ANY DAMAGE OCCURRING TO THE WORK OF OTHERS SHALL BE REPAIRED TO ORIGINAL CONDITION.

REFER TO THE SPECIFICATIONS FOR ADDITIONAL DETAILED INFORMATION.

- Q. THE CONTRACTOR'S WORK SHALL BE FULLY GUARANTEED FOR ONE (1) FULL YEAR FROM THE DATE OF ACCEPTANCE BY THE OWNER. ANY DEFECTIVE MATERIALS OR POOR WORKMANSHIP SHALL BE REPLACED OR CORRECTED AT NO COST TO
- R. UNLESS NOTED OTHERWISE ALL STRUCTURAL IMPROVEMENTS SHALL BE INSTALLED PRIOR TO IRRIGATION AND PLANTING
- S. IN THE CASE WHERE EXTRA WORK OR CHANGES WILL RESULT IN ANY INCREASED COSTS OVER THE CONTRACT FEE, THE CONTRACTOR SHALL FIRST RECEIVE THE OWNER'S EXPRESSED WRITTEN APPROVAL FOR SUCH ADDITIONAL FUNDS PRIOR TO PURCHASING MATERIALS OR DOING THE WORK/CHANGES.

MAINTENANCE

I. GENERAL

THE OWNER OR LESSEE WILL ENGAGE A MAINTENACE CONTRACTOR FOR THE MAINTENANCE OF THE SITE LANDSCAPE FOR THE LIFE OF THE LEASE. MAINTENANCE CONTRACTOR SHALL FURNISH ALL SUPERVISION, LABOR, MATERIALS AND EQUIPMENT NECESSARY FOR THE

COMPLETE MAINTENANCE OF ALL LANDSCAPE AREAS. ALL LANDSCAPE AREAS SHALL BE WATERED AS NECESSARY FOR THE PROPER DEVELOPMENT AND MAINTENANCE OF THE VEGETATION. PLANT MATERIALS SHALL BE MAINTAINED IN A HEALTHY AND VIGOROUS CONDITION, IRRIGATION AND DRAINAGE

SYSTEMS KEPT IN GOOD WORKING ORDER, AND THE GENERAL SITE KEPT CLEAN AND WEED FREE. MAINTENANCE CONTRACTOR SHALL ROUTINELY CHECK FOR BLOCKED DRAIN INLETS, AND KEEP SWALES FREE OF LEAVES AND OTHER DEBRIS. ALWAYS CHECK AND CLEAN BETWEEN STORMS ALL LITTER AND TRASH INCLUDING WEEDS, LEAVES, BOTTLES AND OTHER DEBRIS SHALL BE REMOVED FROM ALL AREAS OF THE SITE AND DISPOSED OF OFF-SITE.

MAINTENANCE CONTRACTOR SHALL REPAIR OR REPLACE ALL DEAD, DAMAGED OR DISEASED PLANT MATERIAL

II. IRRIGATION

A QUALIFIED PERSON SHALL BE COMPLETEIRESPONSIBLE FOR OPERATING THE IRRIGATION S STEMS, WITH THE DUTIES OF ADJUSTING CONTROLLERS, OBSERVING THE EFFECTIVENESS OF THE IRRIGATION S STEM, AND MAKING MINOR ADJUSTMENTS TO THE SYSTEM

THE IRRIGATION SYSTEM SHALL BE MAINTAINED FOR OPTIMUM PERFORMANCE. THIS INCLUDES CLEANING AND ADJUSTING ALL SPRINKLER HEADS AND VALVES FOR PROPER COVERAGE. A CHART SHALL BE MAINTAINED TO RECORD CURRENT IRRIGATION PROGRAMS, INCLUDING DAY, TIME, AND LENGTH OF WATERING FOR EACH STATION AND PROGRAM FOR EACH CONTROLLER. INSPECTIONS OF THE IRRIGATION SYSTEM, IN OPERATION, SHALL BE MADE WEEKLY DURING SUMMER MONTHS, APRIL THROUGH OCTOBER, AND BI-WEEKLY NOVEMBER THROUGH MARCH, TO DETECT ANY MALFUNCTIONING OF THE SYSTEM.

CHECK FOR LEAKS OR WET SPOTS. TURN ON EACH SYSTEM WITH THE CONTROLLER AND CHECK IT TO ENSURE THAT IT

OPERATES CORRECTLY -- OPENING AND CLOSING. VISUALLY OBSERVE EACH SPRINKLER HEAD I NOZZLE FOR PROPER OPERATION,

SPRAY PATTERN, PRESSURE AND WATER DISTRIBUTION.

A SOIL SAMPLING PROBE AND/OR A TENSIOMETER SHALL BE USED REGULARLY TO EVALUATE ACTUAL SOIL MOISTURE LEVELS AND IRRIGATION SCHEDULE.

CHECK AT LEAST WEEKLY TO MAKE SURE AREAS ARE NOT BEING OVER OR UNDER WATERED. ADJUST THE SCHEDULE AS NEEDED TO CORRECT FOR EITHER OF THESE SITUATIONS. RESET THE SCHEDULE ON OUR CONTROLLER AT LEAST MONTHLY, AT THIS TIME, CHECK THE TIME ON THE CONTROLLER TO MAKE SURE THAT IT IS CORRECT.

CHECK THE WATER BILL FOR EXCESSIVE CONSUMPTION. COMPARE MONTH TO MONTH AND YEAR TO YEAR, PAY SPECIAL ATTENTION TO LARGE FEE SWINGS.

LOOK AT THE GENERAL HEALTH AND "LOOK" OF THE PLANT MATERIAL MAKE DESIGN ADJUSTMENTS (ADDING/ DELETING OR MOVING OF HEADS, CHANGING NOZZLE TYPES, TRIMMING OR MOVING OF PLANT MATERIAL) SO THAT PROBLEMS CAN BE ELIMINATED INSTEAD OF TEMPORARILY FIXED. (SEE NOTES IV FOR MAWA CONSIDERATIONS)

ALL MALFUNCTIONING EQUIPMENT MUST BE REPAIRED PRIOR TO THE NEXT SCHEDULED IRRIGATION. ALL REPLACEMENT HEADS SHALL BE OF THE SAME MANUFACTURER, TYPE, AND

APPLICATION RATES. III. PLANTINGS

INSPECTIONS OF THE LANDSCAPE PLANTINGS SHALL BE MADE WEEKLY DURING SUMMER MONTHS, APRIL THROUGH OCTOBER, AND BI-WEEKLY NOVEMBER THROUGH MARCH- COORDINATE WITH THE IRRIGATION INSPECTION, ALL AREAS MUST BE KEPT WEED FREE, BY THE USE OF ORGANIC MULCHES, HAND REMOVAL CHEMICAL CONTROLS- IN

MULCHED AREAS MUST BE REPLENISHED AS MULCH DECOMPOSES- CHECK APRIL AND OCTOBER, REPLENISH AS

FERTILIZER SHALL BE APPLIED AS NEEDED USING SLOW RELEASE, ORGANIC BASED MATERIALS IN APRIL AND OCTOBER. USE AS INDICATED BY SOILS TEST ANALYSIS.

GROUND COVERS BORDERING WALKS AND CURBS SHALL BE EDGED AS NECESSARY TO PROVIDE A CLEAN CRISP LINE. VINES SHALL BE KEPT "PINNED" TO ADJACENT WALLS AS NECESSARY AND TRIMMED TO CONTROL EXCESSIVE GROWTH, NOT ALLOWING VINE TO GROW OVER WINDOWS, DOORS, GATES OR OTHER ARCHITECTURAL ELEMENTS AND EQUIPMENT. TREE PRUNING SHALL BE PERFORMED AS NEEDED TO ELIMINATE HAZARDS, MAINTAIN A NATURAL APPEARANCE. SHRUB PRUNING SHALL BE PERFORMED AS NEEDED TO MAINTAIN A NATURAL APPEARANCE. SHRUBS ARE INTENDED TO FILL THE PLANTING SPACE AS MUCH AS POSSIBLE. DO NOT POWER PRUNE SHRUBS INTO ODD TOPIARY SHAPES. TREES AND SHRUBS SHALL BE PRUNED TO CORRECT HAZARDS AND ANY STRUCTURAL DEFECTS, REMOVE SUCKERS, CRISS-CROSSING BRANCHES, DEAD AND DISEASED LIMBS AND FOLIAGE AND THINNING OF THE CROWN TO REDUCE WIND DAMAGE. ALWAYS CHECK/PRUNE IMMEDIATELY AFTER BIG WINDS-STORMS SPARSE GROUND COVER AREAS SHALL BE CHECKED FOR, AS THEY MAY INDICATE A FAILURE OF IRRIGATION S STEM

DESIGN. AS PLANTS GROW, LOOK OUT FOR DESIGN ADJUSTMENTS THAT CAN BE MADE (ADDING/ REMOVING, TRIMMING OR MOVING OF PLANT MATERIAL) SO THAT PROBLEMS CAN BE ELIMINATED INSTEAD OF TEMPORARILY FIXED. (SEE NOTES IV FOR MAWA CONSIDERATIONS)

OR THE NEED FOR FERTILIZER AND SOIL AMENDMENT. BARE AREAS SHALL BE RE-PLANTED TO MATCH ORIGINAL

Landscape Architecture 34032 Alcazar Dr., Dana Point, Ca 92629 david@dmlaonline.com p/f(949)388-3369

131 Calle Iglesia, Suite 100 San Clemente, CA. 92672-7541

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CLIENT

DR. KIRK HOWARD

1648 WOODLANDS RD. BEAUMONT, CA 92223

PROJECT

BEAUMONT RV

WEST FIRST RD. & CALIFORNIA BEAUMONT, CA

SHEET TITLE

ANDSCAPE

REV. DATE COMMENT

XXX	XXX	

DATE: 01-22-19

SHEET NUMBER:

JOB NUMBER

DRAWN BY

17-130



BEAUMONT CHERRY VALLEY WATER DISTRICT

560 Magnolia Avenue • PO Box 2037 Beaumont, CA 92223-2258 Phone (951) 845-9581 www.bcvwd.org

✓ Will :	Serve Request	Water Supply	Assessment (SB210)
Applicant Name:	and the second s	Contact Phor	ie#
Kirk Howard		(951) 769-77	700
Mailing Address: 190 E 1st Street		Fax #:	
City: Beaumont		E-mail:	kirkghoward71@me.com
State & Zip: CA, 92223			
Service Address: 99 E 1st Street, Beaumont, CA		,	
Assessor's Parcel Number (APN 417-180-013, 417-180-014), Tract Map No. Parce	l Map No.:	
Project Type: Single-Famil	y Multi-Family	✓ Commercial/Industrial	☐ Minor Subdivision (5 lots or less)
Major subdiv	vision (6+ lots)	☐ Other	
Site Map Attached: Yes	☐ No		
Recipient: Kirk Howard			
PLEASE CHOOSE ONE:			
Mail (above address)	✓ E-mail		
Fax	☐ Will pic	k up	
ssessment Reports that take i	nto account water a the District's ability g water demands.	vailability issues, conse	Il Serve Letters and/or Water Suppl rvation issues and the District's existin the subject property and maintain th
Applicant's Signature			Date



Beaumont-Cherry Valley Water District Regular Board Meeting September 26, 2019

Item 9

STAFF REPORT

TO: Board of Directors

FROM: Daniel Jaggers, General Manager

SUBJECT: Consideration of Request for Extension of "Will-Serve Letter" for Previously-

Approved Development: Riverside County Assessor's Parcel Nos. 401-020-007 and 401-020-008 (TTM 30450) located on Oak Glen Road South of Wildwood

Canyon Road in the Community of Cherry Valley

Staff Recommendation

Consider the request for the extension of "Will Serve Letter" for Tentative Tract Map (TTM) 30450, a proposed 20.8-acre single-family residential development spanning over two (2) parcels (Riverside County Assessor's Parcel Nos. [APN] 401-020-007 and 401-020-008) located in the Community of Cherry Valley:

- A. Approve the request for extension of "Will Serve Letter" for Water Service for one year, or;
- B. Deny the request for extension of "Will Serve Letter" for Water Service

Background

On September 16, 2019, District staff met with the Applicants/owners of APN 401-020-008, Mike Moran and Marilee Moran, to discuss the District's requirements for obtaining an extension of "Will Serve Letter" for TTM 30450. The Applicants explained that the tract map that was provided to the District is the most up-to-date version and was recorded with the County of Riverside in 2005.

Prior to the September 16, 2019 meeting with the Applicants, JR Allgower and Bobby Duncan approached District staff regarding the proposed single-family residential development (TTM 30450) representing the Applicants for land development in the Community of Cherry Valley. Mike Moran and Marilee Moran have since requested the application for water service be put in their names.

In 2004, the owners sought annexation to the Yucaipa Valley Water District (YVWD). The Beaumont-Cherry Valley Water District's (District) General Manager at the time, Chuck Butcher, sent a letter to LAFCO on April 6, 2005, protesting the annexation of the project to YVWD on the grounds that the project resided in BCVWD's sphere of influence (SOI) and the annexation to YVWD would threaten District wells with possible nitrate contamination. On May 27, 2005, the owners formally withdrew their LAFCO application and requested annexation to the BCVWD.

On December 20, 2005, the District issued a "Will Serve Letter" which discussed needed infrastructure that included a reservoir tank, booster station and 12" pipeline. Since the issuance of the 2005 "Will Serve Letter," in 2008, the District constructed a portion of the infrastructure for the project, including a 200,000-gallon bolted steel tank (3900 pressure zone tank) and installed a 12-inch ductile iron pipeline from the 3900 pressure zone tank to the proposed booster station location. The proposed booster station and associated pipeline infrastructure from the booster station to Oak Glen Road is still needed in order to provide water to the project. The design for the booster station and pipeline is approximately 70 to 90 percent complete.



TTM 30450 associated dwelling units are set forth as follows:

Tract	Dwelling Units or EDUs
30450	26 DU

The requested "Will Serve Letter" extension includes domestic water service as part of the Development of Tract 30450. The impact of this development on the District's water supply system has been mitigated by the water infrastructure mentioned above (200,000-gallon bolted steel tank, 12-inch ductile iron pipe).

Should the Board approve the extension of the "Will Serve Letter," the following will apply:

Conditions of Development:

Prior to final project development the following conditions must be met:

- 1. The Applicant shall enter into a water facilities extension agreement and pay all fees associated with the domestic water services for the Project. The Applicant shall also pay all fees related to new fire service facilities including any facilities improvements that may be necessary to meet the fire flow requirements.
- 2. The Applicant shall pay front footage fees along all property frontages where facilities are currently installed.
- 3. The Applicant shall incorporate drought tolerant landscaping throughout the project which conforms to the County of Riverside Landscaping Ordinance and implement efficient landscape requirements using the following:
 - a. Landscaped areas which have turf, shall have "smart irrigation controllers" which use Evapotranspiration (ET) data to automatically control the watering. Systems shall have an automatic rain sensor to prevent watering during and shortly after rainfall and automatically determine watering schedule based on weather conditions, and not require seasonal monitoring changes. Orchard areas, if any, shall have drip irrigation.
 - b. Landscaping in non-turf areas should be drought tolerant consisting of planting materials native to the region. Irrigation systems for these areas should be drip or bubbler type.
- 4. The Applicant shall conform to all District requirements and all County of Riverside requirements.

Fiscal Impact:

District staff will continue to meet with the project proponents to further define the costs related to the outstanding infrastructure related to the project.

Attachments

Attachment "1" Site Location Map - APNs 401-020-007 and 401-020-008 Attachment "2" Will Serve Application

Report prepared by Aaron Walker, Engineering Office Assistant



ATTACHMENT 1 - SITE LOCATION MAP - APNs 401-020-007 and 401-020-008





BEAUMONT CHERRY VALLEY WATER DISTRICT

560 Magnolia Avenue • PO Box 2037 Beaumont, CA 92223-2258 Phone (951) 845-9581 www.bcvwd.org

Applicant Nam	ne:		Contact Phon	e#
Mike & Marile			(909)772-373	
Mailing Addres	SS:		Fax #:	
35976 Oak G	en Rd.		(909)227-587	5
City:			E-mail:	
Yucaipa			m	oranspecialties@hotmail.com
State & Zip: CA				
Service Addr N/A	ess:			
Assessor's P Tract 30450	arcel Number (APN),	·		
Decided Tunes	☐ Single-Family			☐ Minor Subdivision (5 lots or less)
Project Type:	☐ Single-ramily		☐ Commercial/Industrial	
Site Map Atta	☐ Major subdivis ched: ☑ Yes	ion (6+ lots)	☐ Other	
Site Map Atta	☐ Major subdivis	ion (6+ lots)		IIIIII Guburileieii (e iele ei iese)
Site Map Atta	☐ Major subdivis ched: ☑ Yes	ion (6+ lots)		
Site Map Atta	☐ Major subdivis	ion (6+ lots)		IIIIIIO, Gabarriololi (c 1616 el 1656)
Site Map Atta	☐ Major subdivis	ion (6+ lots)		
Site Map Atta The letter s Recipient:	Major subdivis ched: ✓ Yes hould be delivered Mike Moran	ion (6+ lots)		
Site Map Atta The letter s Recipient:	☐ Major subdivis	ion (6+ lots)		
Site Map Atta The letter s Recipient:	Major subdivis ched: ✓ Yes hould be delivered Mike Moran	ion (6+ lots)	Other	
Site Map Atta The letter s Recipient:	Major subdivis ched: Yes hould be delivered Mike Moran	ion (6+ lots)	Other	

Applicant's Signature

District's ability to meet existing water demands.

Date

facilities, all of which impact the District's ability to provide service to the subject property and maintain the



Beaumont-Cherry Valley Water District Regular Board Meeting September 26, 2019

Item 10

STAFF REPORT

TO: Board of Directors

FROM: Dan Jaggers, General Manager

SUBJECT: BCVWD Engineering and Operations Departments Preliminary Facilities

Needs Analysis and Estimate

Staff Recommendation

No recommendation.

Background

Beaumont-Cherry Valley Water District's (District) current main office building is located at 560 Magnolia Ave in the City of Beaumont, which currently houses administrative services (administration, finance, customer service, and IT). The District also occupies a construction trailer at 12th Street and Palm Avenue which houses the production and transmission and distribution staff, and has recently occupied the Chestnut Avenue office which houses the engineering staff. These office locations are in addition to the multiple "yard" locations where inventory and materials are stored both indoors and outdoors throughout the District's service area. District locations and staffing levels are set forth in Table 1.

Table 1
District Facilities

Location	Facility	No. of Staff at Location	Size of Facility
560 Magnolia	Administration Office and Board Room	14-15	7,561 SF
12 th & Palm	Operations Office	17-18 Field Staff	1,400 SF
		(2-3 Full Time Staff)	
Chestnut Ave.	Engineering Office	3-4	1,350 SF
Cherry Yard	Existing Warehouse	No Staff	
	Meter Shop	No Staff	

When the main office building was constructed and subsequently opened in 2008, the District serviced a population of approximately 36,000 between the City of Beaumont, City of Calimesa, and the unincorporated community of Cherry Valley. This service population has since grown to



approximately 55,000 as of 2019 and is projected to grow to 80,000 by 2040 and double to 112,000 at build-out.

In discussions with the Board at various meetings in late 2018 and early 2019, District staff identified that the need for the recent procurement of the Engineering Office was due to a growth in office personnel, prompted by the continued fast-paced population growth in the BCVWD service area. Staff also identified that the Engineering Office is a short-term solution [five (5) years] with the long-term solution being an Engineering and Operations Center coming forward within the next ten (10) years and meeting the District's needs for the foreseeable future.

Staff further reviewed other public and private agency facilities, planning documents, and costs during the preparation of the attached "Draft" Engineering and Operations Departments Preliminary Facilities Needs Analysis and Estimate.

Attached are the preliminary research findings by District staff regarding long-term staffing and facility needs along with an approximate budget for said facilities. It should be noted that Staff has provided a preliminary projection of staffing needs over time and further identifies that these as presented in the "Draft" report are preliminary in nature and should be refined further by preparing a more comprehensive final facilities needs analysis and estimate, or completing this preliminary study. It should be noted that Staff also identified very preliminary budgetary costs for said facilities based on square footage costs for other Public Agency Facilities

The purpose of this study is to present to the Board, District staff's opinion of the long-term need for the District and to prepare and plan for the upcoming facility by identifying land development opportunities for existing District properties or alternatively (and more likely) the purchase of new land for development of this facility. Additionally it would be District staff's preference to purchase this land as it might be used for additional facilities such as new well site(s), booster station site, and/or water treatment facilities.

Fiscal Impact

Preliminary estimates indicate a cost of approximately \$19 million (2019 costs) for the design and construction of a new Engineering and Operations Center over the next 10 - 15 years. Staff anticipates phasing and project actual components may provide for revision to the estimate (possible cost control activities). Shorter term costs would likely be \$750,000 - \$1,750,000 for the purchase of land in the next 3 - 5 years and completion of facilities planning and construction documents.

Attachment(s)

Draft Engineering and Operations Departments Preliminary Facilities Needs Analysis and Estimate", dated August 12, 2019

Staff Report prepared by Dan Jaggers, General Manager and Erica Gonzales, Administrative Assistant

DATE: August 12, 2019

TO: Dan Jaggers, PE, General Manager

Mark Swanson, PE, Senior Engineer

FROM: Joe Reichenberger PE, Senior Engineer

SUBJECT: New Engineering and Operations Center

Background

In 1980, the population of Beaumont was 6,818 and the community of Cherry Valley was 5,012 with a total population within the BCVWD service area of 11,830. There were less than 4,000 connections at that time. BCVWD operated out of an approximately 2,500 sq. ft. facility on Magnolia Ave, the site of the present-day headquarters. Board meetings were held in the Beaumont City Council Chambers.



BCVWD's Headquarters until mid-1980s

The 2,500 sq. ft. facility was constructed in 1958 as a result of freeway construction that resulted in the demolition of the original office on 5th St. at Egan Ave. In the mid-1980s, the office building was enlarged to about 5,200 sq. ft. to make room for the new "telemetry" (SCADA) system and a Board Room. Developers were beginning to discuss Oak Valley along with other developments, including new golf courses at Oak Valley and Southern California PGA (now Morongo Tukwet Canyon). Around 2003, a "double-wide" trailer was added to the site for additional field construction staff. This facility served the District well; but it was clear, BCVWD was growing at an unanticipated rate. About 2007, construction began on the building that now serves as BCVWD's headquarters on Magnolia Ave. The old building was demolished and the trailer moved out to 12th and Palm Ave. to serve as the operational headquarters. The operational headquarters remains, to this date, at that location. The new building, approximately 9,000 sq. ft, was sized to fit BCVWD's for what was thought to be a long time. In

2008, when the new building was finally "open," the City of Beaumont's population had grown to about 30,000 people and BCVWD's service area was at 36,000 people. All throughout this period of time BCVWD relied on an outside consulting engineering firm (Parsons) for all of its engineering services, including developer plan checks, and even temporary field inspection services. This has changed; since about 2012 or so, where all of the developer plan checks and much of the engineering is performed "in house" by BCVWD engineering staff, with some capital project design contracted out to qualified consultants.

Currently, the service area population is approximately 55,000 with nearly 19,000 services. By 2040, the Districts' recently prepared "White Papers" project a service area population of about 80,000 people with build-out expected to be about 112,000 people -- about twice the current population.

BCVWD Organization, Staffing, and Facilities

The District has three Departments are they are as follows:

- Engineering
 - o Total and part-time staff for 2019: 3 Full time (F/T)/4 Part time (P/T)
- Finance and Administrative Services which includes three divisions: Finance and Administrative Services, Information Technology, and Human Resources and Risk Management
 - Total and part-time staff for 2019: 13 F/T/3 P/T
- Operations which includes five divisions: Source of Supply, Transmission and Distribution, Field Inspections, Customer Service and Meter Reading, and Maintenance and General Plant
 - Total and part-time staff for 2019: 22 F/T/0 P/T

Total staff, including General Manager in the 2019 budget is 39 F/T and 7 P/T. The staff is housed in three facilities: headquarters building on Magnolia, the Chestnut Engineering Annex, and the 12th and Palm trailers. Small materials, valves, meters, etc. are housed in an old Quonset hut at the Cherry Tanks site on Brookside Ave. and Cherry Ave. and at the 12th Street and Palm Avenue facility. Vehicles are parked at 12th Street and Palm Avenue facility when not used. Some equipment is housed in a facility on the recharge site, near Well No. 23. Larger materials, e.g., pipes and large valves are in open storage at Well No.2 and Well No. 3 sites on Michigan Ave., just south of 12th Street.

The current headquarters building contains the Board Room and Board Conference Room, fire-resistant file vault, restrooms, an office for the General Manager, all of the Finance and Administrative Services staff, the Director of Operations, and the Operations Customer Service Representative – about 15 F/T and 3 P/T staff. Recently, some space was "freed up" at the headquarters building with the move of the engineering staff to the Chestnut annex, but offices are still limited in the headquarters building.

To respond to anticipated growth in the District, wherein the current population is expected to double by build-out, the Districts' prior reactive planning and temporary fixes in the operations and engineering areas has reached its limits. Personnel, equipment, and materials are located

in multiple locations, leading to loss of efficiency. The use of recycled water brings on new requirements for regulatory reporting, cross-connection control, and site inspections. Recent legislation with respect to water conservation, will require more reporting. The District is already reporting water loss, streamflow diversions in Edgar Canyon, and water use on a monthly basis; this will only increase with the imposition of DWR's water budgets and indoor water use limits.

As the service area grows, additional operation and maintenance staff along with additional construction and maintenance equipment, as well as, materials to operate and maintain the potable and non-potable water system will be needed. The personnel and equipment need to be housed in a suitable, centralized facility for efficiency.

BCVWD believes now is the right time to plan for the future since it will take a number of years to secure land, fund and implement the needed facility.

Proposed Engineering and Operations Center

The proposed Engineering and Operations Center (EOC) will be a separate facility from the headquarters building on Magnolia Ave. The proposal is to provide sufficient land (about 10 acres) to allow construction of the EOC; vehicle, equipment, and materials storage; and a new production well. At this time, no specific site has been identified.

To provide a basis for estimating staff and facility needs and space requirements, BCVWD obtained a "Space Needs Validation Assessment" prepared by a consultant for Mouton Niguel Water District in Orange County. The first phase of this facility is close to being under construction and Moulton Niguel provided BCVWD staff with a cost estimate which was useful. At the appropriate time, when authorized by the Board, BCVWD staff recommends retaining a consultant, experienced in space needs for public agencies, to develop a final space needs assessment. Currently, the space and facility requirements can only be considered preliminary and for Capital Improvement Program budgetary purposes only.

Staffing

The current total engineering staff is 7, 3 F/T and 4 P/; this is projected to potentially increase to 13 at build-out. The primary need for the added staff would be to add a Records Management and GIS Coordinator and a GIS Technician to maintain BCVWD's GIS system, as well as other engineering support staff. Currently, the Districts' GIS is administered by Nobel, and it would be better if BCVWD took over the management of the GIS at some point to permit more rapid updating. Additional engineering design capability would allow more design work to be performed "in-house" rather than contracted out. BCVWD believes this would be more efficient.

Operations staff will increase through the addition of a Recycled Water Coordinator, as well as field staff. There are currently about 300 non-potable water connections. Each one of these will need to be inspected on an annual basis; and periodically for runoff, proper signage, overspray, etc. Each site is required to have a trained specialist (Owner's responsibility), but keeping track of this with potential personnel changes will require constant attention. Every four years, a shutdown pressure test will be required. Additionally, BCVWD will need to provide monthly recycled water use reports to the Regional Board. Table 1 provides a breakdown of the current and potential future needs of the Engineering and Operations Departments.

Table 1
EOC Current and Future Staffing

		Total Future
Postion	Current No.	No.
Director of Engineering		1
Senior Engineer	2	2
Civil Engineering Associates	2	3
Interns	1	2
CADD designers	1	2
Records, Mapping and GIS Coordinator		1
GIS Technician		1
Administrative Support	1	1
Subtotal Engineering	7	13
<u> </u>		
Operations Staff		
Director of Operations	1	1
Asst Director of Operations	1	1
Recycled Water Supervisor	1	1
Recycled Water Coordinator		1
Production Supervisor	1	1
Production Maintenance II	2	3
Production Maintenance I	1	2
Field Superintendent	1	1
Transmission and Distribution Supervisor	1	1
Water Utility Person II Cust Serv Meter	1	2
Water Utility Person I Cust Serv Meter	2	3
Regulatory compliance and reporting	-	1
Backflow and Cross-connection Control		1
Warehouse, Purchasing, and Inventory		_
Control		1
Administrative Support		1
riammonaure suppore		
Temporary Space Requirements		
Water Utility Person III	3	4
Water Utility Person II	2	3
Water Utility Person I	5	6
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
Subtotal Operations	22	34
Specialist Specialist		<u> </u>
Other Staff		
Water Conservation Coordinator		1
Receptionist/data entry		1
Subtotal Other Staff	0	2
		_
Total Staff @ EOC	29	49
		.5

With new regulations for reporting water loss, monthly potable water use, indoor water use, compliance with Department of Water Resources (DWR) mandated water budgets, more stringent testing of water supplies, and likely implementation of Indirect Potable Reuse (recharge) of advance-treated recycled water will require a new staff position in the area of regulatory compliance and reporting. Since each non-potable water connection requires a backflow prevention device, a backflow and cross-connection control staff position is recommended. Operations staff in the production area, water utility personnel, and customer service will increase as more services are added. Even though BCVWD will ultimately be

entirely on automatic meter reading (AMR) systems, there will still be need to troubleshoot and change out these systems.

BCVWD should ultimately consider a staff position for a water conservation coordinator. The new water conservation legislation requires the water agencies to pay the penalties to DWR for failure to meet water budgets. The water conservation coordinator would be responsible to monitor individual water use by customer and work with the customer to bring the customer into compliance. The City of Beaumont has a landscape ordinance, §17.06.130, which delegates enforcement of the landscaping requirements to the "water purveyors." This means that BCVWD is to enforce the ordinance if a homeowner switches out conforming landscaping in the front yard with turf.

The EOC will contain a warehouse and material storage area, and it is recommended that a warehouse, inventory, and purchasing control position be considered at some point. This individual would be responsible for managing the "in and out" of all materials, ordering and purchasing to ensure a supply on hand, reducing the need for emergency purchases. This staff member would be responsible for quantity takeoff and ordering of materials for District installed projects.

Since the EOC will be a separate facility with visitors, e.g., equipment and material suppliers, developers, and consultants, a reception area and receptionist is recommended. This individual could perform other functions like data entry, time charge verification, etc.

In summary, an additional 20 staff positions are ultimately believed to be required at build-out for engineering and operations. This would occur gradually over time as the District grows in size, but space should be provided, either initially or in a phased building expansion over time.

Staff Office and Space Requirements

In determining the space requirements, the methodology used by Moulton Niguel was applied. Engineering and Operations Directors, and senior management would have individual offices, with Directors having larger offices (160 sq ft) than senior management (130 sq ft). Other staff would have cubicles (tentatively 64 sq ft), similar to those in the current headquarters building. Some staff members would be working at the SCADA system and would be assigned a "work station" rather than a cubicle. Work stations would also be provided for those staff who are primarily in the field, but need to do daily reports, data entry, or other tasks on a regular basis. Each future staff member in Table 1 was assigned an office or cubicle, or work station.

Factors were used to adjust the theoretical space requirements to account for "circulation" of people in and around the offices, cubicles, and work stations; and to determine the gross square footage required. The factors were based on the Moulton Niguel study. The results of the staff space requirements are shown in Table 2. The areas in Table 2 are only for staff offices and cubicles, etc. and do not include all of the other support areas.

Table 2
EOC Future Staff Space Requirements

	Total Future			Circulation	Future Net	Future
Postion	No.	Space Type	Typical SF	Factor	Area, SF	Gross SI
Director of Engineering	1	Office	160	1.25	200	250
Senior Engineer	2	Office	130	1.25	325	406.25
Civil Engineering Associates	3	Cubicle	64	1.25	240	300
Interns	2	Cubicle	64	1.25	160	200
CADD designers	2	Cubicle	64	1.25	160	200
Records, Mapping and GIS Coordinator	1	Office	130	1.25	163	203
GIS Technician	1	Cubicle	64	1.25	80	100
Administrative Support	1	Cubicle	64	1.25	80	100
Subtotal Engineering	13				1408	1759
Operations Staff						
Director of Operations	1	Office	160	1.25	200	250
Asst Director of Operations	1	Office	130	1.25	163	203
Recycled Water Supervisor	1	Office	130	1.25	163	203
Recycled Water Coordinator	1	Cubicle	64	1.25	80	100
Production Supervisor	1	Cubicle	64	1.25	80	100
Production Maintenance II	3	Work Station	36	1.25	135	169
Production Maintenance I	2					
Field Superintendent	1	Cubicle	64	1.25	80	100
Transmission and Distribution Supervisor	1	Cubicle	64	1.25	80	100
Water Utility Person II Cust Serv Meter	2	Cubicle	64	1.25	160	200
Water Utility Person I Cust Serv Meter	3	Capicic		1.23	200	200
Regulatory compliance and reporting	1	Cubicle	64	1.25	80	100
Backflow and Cross-connection Control	1	Cubicle	64	1.25	80	100
Warehouse, Purchasing, and Inventory				1125	- 55	100
Control	1	Office	130	1.25	163	203
Administrative Support	1	Cubicle	64	1.25	80	100
Temporary Space Requirements						
Water Utility Person III	4					
Water Utility Person II	3					
Water Utility Person I	6	Work Stations	36	1.25	270	338
Subtotal Operations	34				1813	2266
Other Staff						
Water Conservation Coordinator	1	Cubicle	64	1.25	80	100
Receptionist/data entry	1	Cubicle	64	1.25	80	100
Subtotal Other Staff	2				160	200

Staff Support Spaces

Table 3 presents a list of the ultimate staff support facilities; such as conference rooms, break rooms, etc. Total building area for the main building is estimated to be approximately 13,000 sq. ft. This is about 50% larger than the existing BCVWD headquarters building on Magnolia Ave.

Other Facility Space Requirements

In addition to office space, there are other facilities planned for the Engineering and Operations Center; such as a warehouse, tools and equipment storage, meter shop, etc. The space requirements are show in Table 4.

The Warehouse would house small parts inventory such as meter stops, corporation stops, small valves, gauges, compression fittings, gaskets, small pipes, etc. The Warehouse and inventory manager would reside in this building and be responsible for ensuring the inventory is

adequate to meet anticipated project and emergency demands, and the parts and supplies are assigned to work order numbers for proper reimbursement, etc.

The Meter Shop houses the meters and meter accessories and is the place where meters are assembled and tested before being taken out in the field. The Electrical and Instrumentation Shop is where electrical and instrumentation equipment is assembled, repaired, and tested.

Table 3
EOC Future Staff Support Space Requirements and Total Main Building Area

			Circulation	Future Net			
	Number	Space SF	Factor	Area SF	Gross SF	Round to	
Copier/Printer/ Scanner	1	100	1.5	150	188		
Conference Room 8	1	225	1.35	304	380		
Conference Room 16	1	448	1.35	605	756		
Library/Report Storage	1	200	1.35	270	338		
Lobby/Entrance/Reception	1	300	1.5	450	563		
IT Closet	1	50	1.35	68	84		
Breakroom	1	300	1.5	450	563		
Map/Plan/File Vault	1	500	1.5	750	938		
Training Room	1	800	1.5	1200	1500		
SCADA Center	1	200	1.5	300	375		
Restrooms	4	80	1.25	400	500		
Shower/Locker Facilities	2	600	1.25	1500	1875		
Storage Closets	4	20	1.25	100	125)	
Clean Uniform Storage	1	150	1.35	202.5	253		
Soiled Uniform Storage	1	80	1.25	100	125		
Subtotal Space Requmts				6849	8561		
Sutotal Staff Space				3380	4225		
Total EOC Main Building				10229	12786	13000	sq ft

Table 4
Other Facility Space Requirements at EOC

			Circulation	Future Net			
	Number	Space SF	Factor	Area SF	Gross SF	Round to	
Warehouse/small inventory	1	500	1.25	625	781		
Meter Shop	1	300	1.25	375	469		
Tools and Equipment Storage	1	1000	1.25	1250	1563		
Electrical/Instrument Shop	1	800	1.25	1000	1250		
Repair/Field Fabrication	1	700	1.25	875	1094		
Chemical/Lubricant Storage	1	500	1.25	625	781		
Unisex Bathroom	1	80	1.25	100	125		
Subtotal Enclosed Storage				4850	6063	7000	sq ft

The Other Facility enclosed space totals 7,000 sq ft and would contain all of the facilities shown in Table 4 in a single enclosure. Spill containment would be provided for in the chemical and lubricant storage areas.

Outside Storage and Facilities (Except Vehicles)

In addition to enclosed facilities, exterior space will be required for storage of large materials such as pipe, large valves, and bulk materials. Other exterior items include a site emergency generator, trash enclosure, and material recycle bins for metals such as copper, brass, etc. These space requirements are shown in Table 5. About 12,000 sq ft will be needed for these items.

Vehicle Parking and Equipment Storage

Table 6 shows a list of the District's vehicles taken from the current list of insured equipment. With the additional population, connections, and facilities there will be additional equipment needed in the future which is also shown in Table 6. These vehicles will be parking at the Engineering and Operations Center when not in use. Also, space will be needed for staff and visitor parking. Visitor parking is anticipated to be minimal as the general public would not normally be coming to the Center for administrative services. The public would still be going to the main headquarters building on Magnolia Ave. to pay bills, secure new water service, close out an existing water service, etc. The visitors to the Engineering and Operations Center would be vendors and developers and their engineers.

Table 5
Outside Storage and Facilities (Except Vehicles)

		Circulation	Future Net			
Number	Space SF	Factor	Area SF	Gross SF	Round to	
1	200	1.25	250	313		
1	2000	1.25	2500	3125		
1	5000	1.25	6250	7813		
1	60	2.25	135	169		
2	30	3.25	195	244		
			9330	11663	12000	sq ft
	1 1 1 1	1 200 1 2000 1 5000 1 60	Number Space SF Factor 1 200 1.25 1 2000 1.25 1 5000 1.25 1 60 2.25	Number Space SF Factor Area SF 1 200 1.25 250 1 2000 1.25 2500 1 5000 1.25 6250 1 60 2.25 135 2 30 3.25 195	Number Space SF Factor Area SF Gross SF 1 200 1.25 250 313 1 2000 1.25 2500 3125 1 5000 1.25 6250 7813 1 60 2.25 135 169 2 30 3.25 195 244	Number Space SF Factor Area SF Gross SF Round to 1 200 1.25 250 313 1 2000 1.25 2500 3125 1 5000 1.25 6250 7813 1 60 2.25 135 169 2 30 3.25 195 244

Table 6
Vehicle Storage and Parking

					Future		
	Current	Future		Circulation	Net Area		
	Number	Number	Space SF	Factor	SF	Gross SF	Round to
Vehicle Storage		1000					
SUV and Light Trucks	20	35	200	2.25	15750	19688	
Heavy Equipment, Backhoes, Loaders, Dump Trucks etc	9	15	420	2,25	14175	17719	
Large Vehicle	5	10	540	2.25	12150	15188	
Trailers etc.	9	15	540	2.25	18225	22781	
Other Mobile Equipment							
Portable Generators/Trailer	2	4	300	2.25	2700	3375	
Compressors	2	4	300	2.25	2700	3375	
Staff and Visitor Parking							
Staff	27	49	200	2.25	22050	27563	
Visitors	2	8	200	2.25	3600	4500	
Subtotal Vehicle Parking					91350	114188	115000 sq ft

About 115,000 sq ft is required for all of the equipment and parking. This does not include the space for vehicle circulation and ingress and egress. This can only be determined once a site is tentatively selected and a rough layout (site plan) is completed. Table 7 is a Summary of the Space and Site Area Requirements.

Table 7
Summary of Space and Site Area Required

Facility	Space Required, sq ft
Engineering and Operations Center Main Building	13,000
Other Facilities, e.g., Warehouse, etc.	7,000
Outside Materials Storage	12,000
Vehicle and Equipment Storage and Parking	115,000
Total Minimum Site Area Required, (not including	147,000
traffic circulation)	(3.4 acres)
Allowing for a Well Site and Circulation, Minimum Area Required	8 to 10 acres

Validation of Space Requirements

Table 8 shows a comparison between BCVWD and Moulton Niguel Water District as a benchmark to validate the space and facility analysis. In the analysis shown in Table 8, Moulton Niguel's Administration Building also included a Board Room and office space for the General Manager, Finance Department and Human Resource staff in addition to Engineering and Operations staff. Deducting these areas from the total Administration Building area (46,215 sq ft) and proportioning the common spaces, the total Moulton Niguel Engineering and Operations portion of the Administration Building is 26,725 sq ft.

Table 8
Space Comparison - BCVWD and Moulton Niguel Water District

Parameter	Moulton Niguel Water District	BCVWD	Ratio BCVWD/Moulton Niguel
Services Provided	Potable Water, Wastewater Collection, Recycled Water	Potable and Non-potable water	No Wastewater
Current Population	170,000	55,000	32%
Build-out Population	177,500	112,000	63%
Service area	37 sq mi	28 sq mi (37.5 sq mi SOI)	76%
Total Staff	121, Ultimate 159 in Admin Bldgs.	29, Ultimate 49 in EOC	30% E&O current 40% ultimate in EOC
	98, Ultimate 124 E & O		
Building Area Allocated to Engineering and Operations	26,725 sq ft	13,000 sq ft (from Table 3)	49%
Gross sq ft/employee	215	265	

- BCVWD's ultimate service population is about 63% of Moulton Niguel's ultimate service population. Considering the Engineering and Operations alone, the space requirements for BCVWD's Engineering and Operations Center is 49%% of Moulton Niguel's as shown in Table 4. This is less than the proportion based on ultimate population (63%); however Moulton Niguel provides wastewater service and so has a larger staff to accommodate.
- BCVWD's ultimate Engineering and Operations staff is 40% of Moulton Niguel's ultimate
 Engineering and Operations staff vs. requiring 49% of Moulton Niguel's Engineering and
 Operations space requirements. This small difference is due to efficiencies of space for
 larger organizations (less common space per employee).
- The gross area per employee is 215 sq ft for Moulton Niguel's Engineering and
 Operations area compared to 265 sq ft for BCVWD. It is possible that a number of
 Moulton Niguel's listed staff may be out in the field primarily and only require common
 work stations.
- BCVWD's shops and warehouse totaled 7,000 sq ft compared to 27,377 sq ft for
 Moulton Niguel. Moulton Niguel has wastewater service, so the agency would have
 more materials and equipment specifically related to wastewater, e.g., service saddles
 for sewer pipe, parts for rod and jetting machines, closed circuit inspection cameras, etc.
 BCVWD's space requirements for shops and warehouse should be reviewed during
 space planning efforts.

Summarizing, the space requirements preliminarily determined for the BCVWD Engineering and Operations Center are reasonable. Before proceeding with the design of the facility, BCVWD should retain the services or space programing consultant, experienced in space planning for water and wastewater agencies, to refine the space requirements herein.

Budgetary Cost Estimate for Engineering and Operations Center

Table 9
Budgetary Cost Estimate for BCVWD Engineering and Operations Center (ENR CCI 11268)

Item	Quantity	Unit	U	Init Cost		Cost
Main EOC Building	13,000	sq ft	\$	500	\$	6,500,000
Warehousing and Shops	7,000	sq ft	\$	500	\$	3,500,000
Site Grading					\$	302,500
Site Paving					\$	625,000
Site Utilities					\$	580,000
Landscaping and Irrigation					\$	261,400
Site Security Lighting					\$	125,000
Site Fencing & Auto Gates					\$	145,000
Subtotal					\$1	2,038,900
Justician					71	2,030,300
Soft Costs						
Legal for land purchase etc	2%				\$	240,800
Program Development & Needs						
Assessment	1	LS	\$	60,000	\$	60,000
Design Archtecture and Engineering	10%				\$	1,203,900
Inspection and Testing	5%				\$	602,000
CEOA	20/		+		_	240,000
CEQA	2%	10		20,000	\$	240,800
Survey and Legal	-	LS	\$	20,000		20,000
Geotechnical Investigation	1 1%	LS	>	30,000	\$	30,000
Permitting	1%				\$	120,400
Subtotal					\$1	4,556,800
Contingencies	20%				\$	2,911,400
Subtotal Structures and Site Work					\$1	7,468,200
Land Cost	10	ac	Ś	100.000	5	1,000,000
20/10/0031	-20		Ď	100,000	Ť	2,000,000
Subtotal Structures, Site and Land					\$1	8,468,200
Allowances						
Furniture, Fixtures, Equipment (FF&E)	1	LS	\$	250,000	\$	250,000
Office Cubicles	25	ea	\$	3,000	\$	75,000
Budget Estimate					\$1	8,793,200

In the development of the cost estimate for the Engineering and Operations Center, the sq ft cost method was used. Administration and Operations Building for Yorba Linda Water District, Moulton Niguel Water District, and others were analyzed. A unit cost of \$500/sq ft was used which is believed to be reasonable, yet conservative. Land costs were based on two approximately 10 acre parcels on the market in Cherry Valley. One was priced at \$45,000/acre; the other at \$52,000/acre. A cost of \$50,000/acre was used for this assessment. Table 10 provides supporting details for some of the site development costs.

Table 10
Supporting Details for Site Development Cost
Engineering and Operations Center
(ENR CCI 11268)

Item	Quantity	Unit	U	nit Cost	Cost
Site Grading					
Area	10	ac			
Fraction of site utilized	50%				
Depth	5	ft			
Excavation	20167	су	\$	10.00	\$ 201,667
Compacted Fill	20167	су	\$	5.00	\$ 100,833
Subtotal					\$ 302,500
Site Paving					
Vehicle Storage and Parking	115000	sa ft			
Other paved areas	10,000				
Subtotal	125,000	- 4000	\$	5.00	\$ 625,000
Site Utilities				-	
Water/fire proction loop	1800	ft	\$	100.00	\$ 180,000
Sewer/Septic System	1	LS	\$	100,000	\$ 100,000
Stormwater/LID	1	LS	\$	300,000	\$ 300,000
Subtotal					\$ 580,000
Landscaping and Irrigation					
Fraction Landscaped	10%			7	
Landscaped area	21,780	sq ft	\$	12.00	\$ 261,400
Security Lighting					
Area lit	125,000	sa ft			
Coverage Area/luminaire		sq ft			
Luminaires		ea	\$	5,000	\$ 125,000
- /					
Fencing			7		
Perimeter	1,900		\$	50.00	\$ 95,000
Drive Gates	2	ea	\$	25,000	\$ 50,000
Subtotal					\$ 145,000

It was assumed that half the site would be excavated to a depth of 5 ft with the other half filled to an average depth of 5 ft. For utilities, a water/fire protection loop was anticipated along with either a sewer connection or an advanced septic tank system to comply with Riverside County Ordinance. With the amount of impervious surface created by the EOC, storm water mitigation (LID measure) would be needed.

The total cost of the Engineering and Operations Center is estimated to be approximately **\$19 million** including land cost, permitting, design, CEQA, and 20% contingencies. For comparison, the Moulton Niguel Facility cost a total of \$44.7 million. Moulton Niguel's facility, in addition to being larger, also included a fleet maintenance facility and a new fueling facility (totaling about \$5.5 million). It is to be situated on an existing 10 acre site which the water district already owned.



Beaumont-Cherry Valley Water District Regular Board Meeting September 26, 2019

Item 11

STAFF REPORT

TO: Board of Directors

FROM: Dan Jaggers, General Manager

SUBJECT: Consideration of Authorizing the General Manager to Enter into a Not-to-Exceed

Contract of \$15,000 for Planning and Guidance for the Implementation and

Permitting of a Recycled Water System

Staff Recommendation

Authorize the General Manager to enter into a contract with T.R. Holliman & Associates for consulting services to provide preliminary planning and guidance to District staff for the implementation and permitting of the District's existing Recycled Water System in a not to exceed amount of \$15,000.

Background

In August of 2018, Beaumont-Cherry Valley Water District (BCVWD) staff and City of Beaumont (City) staff began discussions that paved the way for a 2X2 Ad Hoc Recycled Water Committee in an effort to conceive and draft a Memorandum of Understanding (MOU) between the two agencies. During the preliminary discussions, BCVWD staff identified what is believed to be the steps to implementation of recycled water along with a schedule identifying an estimated timeline for these activities with milestones. A memorandum (attached for reference) for discussion with the City was produced by BCVWD staff identifying said steps to implementation. While some of these activities and milestones are to be completed by the City, a significant amount of work remains to be completed by BCVWD and the District needs to continue with the required work in an efficient manner.

To date, District staff has been organizing existing data and beginning dialog with the Department of Water Resources (DWR) to outline work activities that will need to be completed in order to finalize permitting of BCVWD's Non-Potable Water System (NPWS). Staff has also completed preliminary sizing of the required recycled water booster station and has continued discussions with the City regarding siting locations for said booster station.

Recycled water is anticipated to be significant part of the NPWS water supply portfolio. Staff also identifies that the NPWS water portfolio would likely include other sources of supply such as filtered surface water, non-compliant groundwater, domestic drinking water, and recycled water. While DWR does not regulate the use of filtered surface water, DWR staff recommends that the District's NPWS be operated, permitted, and tested as if recycled water was the only source of supply to the NPWS. When recycled water becomes available, the permit would be in place allowing BCVWD to introduce said recycled water source into the NPWS. To that end, staff has been working diligently towards understanding and beginning the permitting of the NPWS with DWR.



Summary

Staff desires to ensure that the District permitting process is streamlined and therefore desires to utilize some preliminary consulting services with an entity familiar with local permitting requirements to identify and verify BCVWD's requirements for said permitting. The intent of this work is to achieve a roadmap to implementation of the NPWS permitting and operation.

District staff identifies some of BCVWD's current needs moving forward include verifying and completing the following items:

- 1. Regulatory Agency Requirements
- 2. Onsite Supervisor Training Curriculum Framework
- 3. Recycled Water Rate Process
- 4. Public Outreach Program Framework
- 5. Cost Estimate for Permitting
- 6. Master Conversion Schedule

In March 2019, District staff received a proposal from T.R. Holliman & Associates (attached) identifying a scope of services which would provide tasks needed to develop a roadmap for the District to implement conversion of the NPWS and achieve permitting with the jurisdictional agencies as a Recycled Water distribution system. The proposed work product (roadmap) would be intended to provide BCVWD with direction, steps, and schedule in order for District staff to plan and execute the required activities for the NPWS permitting through DWR. It should be noted that staff anticipates additional consulting services will be required once work activities and schedules are identified as part of this preliminary planning component.

Staff recommends contracting for preliminary (planning) consulting services with T.R Holliman & Associates for work related to identifying work activities necessary for the permitting of the District's non-potable (and recycled water) system.

Fiscal Impact:

The fiscal impact to the District will be an amount not to exceed \$15,000.00. Work would be funded from developer Facility Fees collected from new development activities.

Attachments

City of Beaumont/BCVWD Ad Hoc Recycled Water Committee Status Report No. 1

BCVWD/City of Beaumont Milestone Estimate Schedule of Activities

T.R. Holliman & Associates Task Order Proposal for Recycled Water Implementation Road Map

Report prepared by James Bean, Assistant Director of Operations



Beaumont Cherry Valley Water District 560 Magnolia Avenue Beaumont, CA 92223

951-845-9581 www.bcvwd.org

DATE: August 23, 2018

TO: Dan Jaggers, General Manager

FROM: Joe Reichenberger PE, Senior Engineer

SUBJECT: City of Beaumont/BCVWD Ad Hoc Recycled Water Committee

Status Report No. 1

The Board of Directors of the Beaumont Cherry Valley Water District (BCVWD) and the City Council of the City of Beaumont (City) have formed an ad hoc Committee (Committee) for the purpose of coordinating the production and distribution of recycled water in the City of Beaumont. The City has committed to the Regional Water Quality Control Board (RWQCB) to have the City's Wastewater Treatment Plant (WWTP) operational and producing recycled water by March 1, 2020. This Status Report No. 1 was prepared by BCVWD staff to inform the Committee members of current project status and the next steps to full implementation of the recycled water program.

Project Benefits

The recycled water project benefits both the City and BCVWD. In 2004 the City and the San Timoteo Watershed Management Authority (STWMA), of which BCVWD and others were members, saw the need to maximize local water resources, including recycled water, to ensure a reliable water supply for the increasing demands of the area. The City and STWMA worked with the RWQCB to modify the Beaumont Management Zone (essentially the Beaumont Groundwater Basin) water quality objectives to allow recycled water to be used. The RWQCB amended the Basin Plan and established less stringent water quality objectives (called "maximum benefit objectives" to allow recycled water to be used for the maximum benefit of the people of the State. The "benefit" was the reduction in the need for imported water. In exchange the City and STWMA made commitments; one of those commitments was to install desalting facilities when required by the RWQCB.

STWMA was disbanded a few years later which required the RWQCB to again amend the Basin Plan in 2014 to include revised maximum benefit commitments from the City, BCVWD, and others. The RWQCB also revised the City's National Pollutant Discharge Elimination System (NPDES) permit in July 2015 which had the March 1, 2020 date for compliance, which includes the recycled water use. If the City is not in compliance the RWQCB will impose the non-degradation water quality objectives which will mean additional desalting and higher operating costs for wastewater treatment.

BCVWD, the City, and the Region benefits through maximizing local water resources thereby reducing the need for imported water. As the area grows, demands will increase, but so will the amount of recycled water. BCVWD, based on meter records from new housing projects, annual potable water use is about 0.546 acre-feet/year/Equivalent Dwelling Unit (AFY/EDU). This includes an allowance for commercial, industrial, and institutional demands associated with the new EDUs. The wastewater generated by each new EDU is 0.25 AFY/EDU. In other words, about 46% of the water used in a new house is recovered as recycled water.

Limitations on the Amount of Recycled Water Available

The City has been discharging treated effluent to Cooper's Creek since 1929, when the first plant was put in service. Over time, the effluent provided water for riparian habitat, including habitat for federally listed species. As part of environmental investigations conducted in 2007 or so, BCWVD, STWMA, and others met with officials from the State and federal Fish and Wildlife Service to discuss the habitat issue. It was agreed that 1.8 million gallons/day (mgd) would remain in Cooper's Creek to maintain habitat. Flow in excess of the 1.8 mgd is available for recycling. The City will need to file a "change petition" with the State Division of Water Rights, as discussed later in this status report. This issue will be a point of discussion.

BCVWD's Non-potable Water System

BCVWD has about 44 miles of non-potable water transmission and distribution piping already "in the ground and operating" within the City of Beaumont ranging in size from 8-in to 24-in diameter. BCVWD's system is termed a non-potable water system rather than a "recycled water" system because various types or blends of water are, or can be, in the existing system, including non-potable groundwater, potable water; screened, but otherwise untreated, imported State Project Water (SPW), and Title 22 recycled water from the City of Beaumont. At the present time (2018) only non-potable groundwater and potable water supply the non-potable system.

BCVWD set up the non-potable water system in a series of pressure zones, wherein the pressure zone "number" or designation is the nominal operating hydraulic grade line (HGL) of the zone. BCVWD currently has a 2 MG above ground steel tank at a nominal operating HGL of 2800 ft, mean sea level, City of Beaumont Datum, (2800 Zone Tank), located at the District's groundwater recharge facility, east of Beaumont Ave., just south of Cherry Valley Blvd. The tank bottom is at El. 2795; overflow is at El. 2811. Space and piping have been provided to add a second 2 MG tank next to the existing tank in the future when demands are projected to increase. The existing tank has a potable water make-up connection, through an air gap, and a connection to BCVWD's pipeline from San Gorgonio Pass Water Agency's (SGPWA's) turnout on the State Water Project's East Branch Extension. The tank is designed to overflow to the recharge basins and where it would percolate in the event of an accidental overflow. This possible occurrence should be included in BCVWD's recycled water permit.

BCVWD's non-potable water demand in year 2017 was 1,612 acre-ft/year (AFY) through about 332 connections; the average non-potable water demand for the period 2006-2017 was 1,609 AFY, or 1.4 million gallons per day (mgd). Winter average day demands are about 25% of the

annual average; summer peak demands are about 2.5 times the annual average. The City of Beaumont is the largest user on the non-potable water system. At this time, non-potable water is not served to any of the local golf courses, even though BCVWD has turnouts in place to serve water to Tukwet Canyon and Oak Valley Greens Golf Courses. About 80 to 85%% of the non-potable water is served in the 2800 Zone.

In addition to the 2800 Zone, BCVWD has three other pressure zones planned; all are located south of I-10. The non-potable water system south of I-10 is currently served from BCVWD's potable water system through reduced pressure backflow devices. The non-potable water system south of I-10 is isolated from the 2800 Zone non-potable system. This will change in the future when recycled water is available and/or when BCVWD installs planned motorized strainers on the imported water supply to the 2800 Zone Tank.

BCVWD is in the process of completing a Non-potable Water Master Plan to identify facility needs (piping, pumping and storage) from current needs to build-out. The Master Plan only envisions using recycled water in the City and should be complete as soon as facilities to receive the City's recycled water are finalized.

BCVWD's non-potable water demands at build-out were projected in the Master Plan to be 3,710 AFY, not including any golf course demands. This projected demand may be overstated since it was based on older landscaping requirements and water use projections before the current water efficiency regulations and ordinances were in place. For example, the irrigation of turf in street medians with potable water or with recycled water systems, installed after January 2018, will be prohibited after 2025, unless there is some functional or recreational benefit. This regulation will reduce the amount of non-potable water used by some, yet-to-be determined, amount. BCVWD anticipates the City and Home Owner Associations (HOAs) will re-landscape these median and common areas with drought tolerant, low water using plantings.

BCVWD estimated that the wastewater flow from the City of Beaumont at buildout, (90,600 people), will be about 6.8 mgd based on 75 gallons per capita per day (gpcd), dry weather flow, including commercial, institutional, and industrial (CII) contributions. Recent legislation signed by the Governor, (AB 1668/SB 606), establishes 55 gpcd as the standard for indoor residential water use (effective immediately). Beginning January 1, 2025, the indoor residential water use standard will drop to 52.5 gpcd and will drop further to 50 gpcd by January 1, 2030. A rough analysis by BCVWD staff, based on water consumption in BCVWD's 2015 Urban Water Management Plan (UWMP), indicates the CII contribution to the City's wastewater is about 16 gpcd, (rounded to 15 gpcd). Based on this, the per capita wastewater flow in Beaumont, including CII, will be 70 gpcd effective immediately, reducing to 67.5 gpcd by January 1, 2025, and then to 65 gpcd by January 1, 2030 and beyond.

This will reduce the amount of wastewater flow to about 5.9 mgd at build-out assuming 90,600 people in the City. Deducting the 1.8 mgd for required environmental mitigation flow to Cooper's Creek (discussed above), about 4.1 mgd (4,600 AFY) could be available for reuse. Deducting another 10% for brine discharge and other losses, and assuming only half of the effluent will be processed through the desalting system, about 4,130 AFY could be available for reuse. This is more than the current Master Plan projected build-out landscape recycled water requirement of 3,710 AFY, not including the golf courses. As stated previously, the 3,710 AFY

projection is likely overstated considering the recent water conservation legislation regarding street medians etc. Any unused recycled water could be used on the golf courses as a supplement to the golf courses' well supply or could be recharged to the Beaumont Basin as part of an indirect potable reuse (IPR) project. Some additional treatment may be needed for IPR depending on the quality and quantity recharged and the regulations in place at the time.

However, this analysis assumes a uniform annual demand. During the winter/spring months there will be more recycled water available than can be applied to the landscaped areas. Some of this recycled water could be used on the golf courses; some could be recharged. Recharging may require more advanced treatment. During the summer and early fall months, there will not be enough recycled water available to meet demands, so other sources of water will be needed. This could include screened, imported SPW and/or non-potable groundwater.

Steps to Implementation

The following steps or actions needed for BCVWD to be able to use the City's recycled water. The numbering does not necessarily indicate a priority, however.

- 1. City of Beaumont to apply for and secure "Change Petition" approval from SWRCB Division of Water Rights. An aspect of the Change Petition is the operational strategy relative to the control and management of the 1.8 mgd environmental mitigation flow.
- 2. Agreement between BCVWD and City of Beaumont
- 3. Finalizing the location and design requirements for the facilities at the City's WWTP to pump the recycled water into BCVWD's system, including "balancing storage."
- 4. Complete the detailed design and commissioning for the pumping and 2600 Zone storage facilities if installed intially.
- 5. Finalize an agreement between the City and BCVWD relative to recycled water "hand-off."
- 6. Apply for SRF/WRFP low interest loan/grant.
- 7. Preparation of BCVWD's Title 22 Engineering Report for Recycled Water Use for Landscape Irrigation and Other Approved Uses.
- 8. Obtaining plans and maps of each reuse site and location of sprinklers, control valves, hose quick-connects, drinking fountains, lunch/food areas, etc. Field verify with GPS.
- 9. Obtain plans for all recycled water main installations.
- 10. Develop plans for signage of reuse areas.
- 11. Application for General Order Water Reclamation Permit by BCVWD from Division of Drinking Water (DDW) and the RWQCB.
- 12. Cross-connection testing for all recycled water users by BCVWD.
- 13. Finalization, review and adoption of regulations for recycled water use by BCVWD.
- 14. Informational Workshops with BCVWD Non-potable Water Customers
- 15. User designation of their Site Supervisors for each reuse site and training of each Site Supervisor
- 16. BCVWD Recycled Water Staff Training
- 17. BCVWD to Develop Recycled Water User Agreement

Apply for and Secure Change Petition from SWRCB Division of Water Rights (City of Beaumont)

The City's wastewater inflow follows a typical diurnal curve and varies throughout the day as shown in Figure 1 below, taken from the City's Title 22 Engineering Report, July 2016 by Aqua/Albert Webb. The final effluent flow curve will be similar, unless there is significant storage in the membrane bioreactor process units to equalize or attenuate the flow. Figure 1 also shows the 1.8 mgd environmental mitigation flow requirment discussed above.

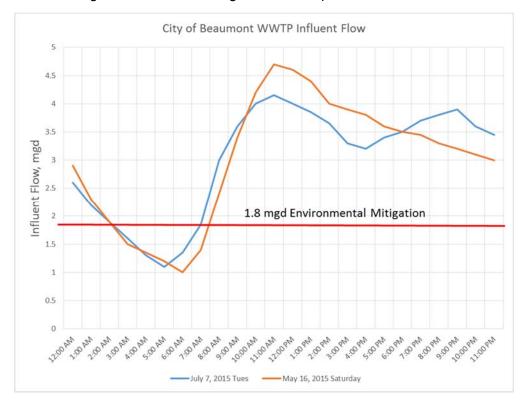


Figure 1
City of Beaumont Influent Wastewater Hydrograph

Note that during the early morning hours the mitigation flow rate is greater than the influent flow. When the City discusses the Change Petition with the Division of Water Rights and Fish and Wildlife, the control and management of this flow will need to be addressed.

- Will flows less than 1.8 mgd be approved for short periods of time during the day?
- Is 1.8 mgd a minimum flow? If so, the City will need to store some water during high flow periods to "fill in." It may be possible to take recycled water from BCVWD's pressurized distribution system storage to "fill in," but this would not be energy efficient. Furthermore if the recycled water is chlorinated for water quality purposes, the chlorine will need to be removed.
- Are flows less than 1.8 mgd acceptable as long as the "shortfall" is made up later in the day when flows are greater?

This can only be addressed by the City through the Change Petition Process; BCVWD staff will provide assistance if requested.

2. Agreement between BCVWD and City of Beaumont

The City and BCVWD will need to develop and agreement for recycled water which would define the point of delivery, responsibilities of the parties for meeting permit requirements, costs to be borne by each party, responsibilities, accounting and invoicing format, SCADA interconnections, etc.

It might be beneficial for accounting purposes to have a separate SCE power service to the Booster Pumping Stations to better isolate the power costs. This should be identified early so that the electrical service requirements can be incorporated into the design of the pump stations. Separate accounts should be developed to properly track operations labor and benefits, chemical costs, maintenance and repair costs, and other direct related costs. etc.

In late 2017 BCVWD provided the City with a draft Memorandum of Understanding (MOU) for the use of the City of Beaumont's Recycled Water. This MOU identified some principles which should be included in a final agreement.

3. Finalizing the location and design requirements for the facilities at the City's WWTP to pump the recycled water into BCVWD's system, including "balancing storage."

Figure 2 shows a possible recycled water supply and distribution facility schematic which integrates the City's plan to repurpose the existing secondary clarifiers for recycled water storage. BCVWD is unsure how the repurposed clarifiers will integrate into the effluent reuse system hydraulically and has made the assumption that a low lift-transfer pump station may be needed to lift the water into the repurposed secondary clarifiers. Depending on the hydraulics, this low-lift, transfer pump station may not be necessary.

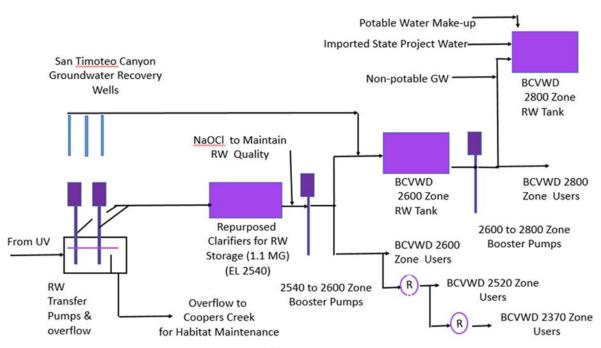


Figure 2
BCVWD Potential Recycled Water Supply and Distribution System Schematic

In addition to the equalization storage provided by the repurposed clarifiers, a booster pump station should be constructed on the wastewater treatment plant site to lift the recycled water from the repurposed clarifiers into a proposed 2600 Zone Non-potable Tank as shown in Figure 2. There are several options for the phasing and location of the 2600 Zone Non-potable Tank; this is discussed later in this status report. The City and BCVWD should collaborate on the location for this pump station.

The 2600 Zone Non-potable Tank will supply non-potable water to the 2600 Non-potable Pressure Zone, which lies south of I-10 and west of the City's WWTP. The 2600 Zone serves Tournament Hills, Fairway Canyon, Heartland, and Hidden Canyon developments, as well as future developments in the City south and west of the wastewater treatment plant, including Legacy Highlands (The Preserve) and Jack Rabbit Trail. The 2600 Zone could also supply Tukwet Canyon Golf Course as piping exists to serve the golf course.

Since most of the non-potable water demand is in the 2800 Zone, recycled water would also need to be boosted from the 2600 Zone to the 2800 Zone system. This would require a second set of booster pumps as shown in Figure 2. This 2600 to 2800 Zone Booster Pump Station should also be located on the City's WWTP site.

The 2600 to 2800 Zone Booster Pumps would connect to an existing 24-in, 2800 Zone transmission main, in Fourth St., which extends from Viele St. westward to the end of the existing ProLogis Development.

As an alternative the 2600 to 2800 Zone Booster Pumps could connect to an existing 30-in, 2800 Zone transmission main, in Viele St. on the east side of the wastewater treatment plant site. At one point it was believed the main recycled water pipeline from the wastewater treatment plant site would extend eastward toward the 30-in transmission main in Viele St. That may no longer be possible considering the gravity sewer trunk mains which enter the wastewater treatment plant site in this area and run parallel with Cooper's Creek. However, BCVWD believes this option should be explored, since there is an existing tee in the 30-in non-potable pipeline in Viele St.

Figure 2 also shows that water from the proposed San Timoteo Canyon Groundwater Recovery Wells could be pumped into the 2600 Zone system. This groundwater recovery system is described later in this memo but will not be installed initially.

Figure 2 shows the introduction of sodium hypochlorite (NaOCI, liquid bleach) into the recycled water as it enters the non-potable water distribution system. This is not needed for disinfection but for water quality purposes. Based on BCVWD staff's experience with other recycled water systems, BCVWD believes it is appropriate to maintain a chlorine residual in the recycled water distribution system to ensure preservation of the high quality treated water produced by the wastewater treatment plant and minimization of potential musty odors which might otherwise occur as a result of residence time in the pipelines. Sodium hypochlorite can be fed into the suction side of the booster pumps.

The concept plan described above and shown in Figure 2 has some elements to be resolved:

Location of the on-site WWTP recycled water booster pump stations

BCVWD understands that space may be limited at the WWTP site for the two booster pump stations described above. The two pump stations can be combined into a single dual-zone booster pump station have one set of pumps discharging into the 2600 Zone and another set discharging into the 2800 Zone. This would be very cost effective as the dual system can share common facilities, such as electrical service, etc.

Consideration may be given to constructing a reinforced concrete platform/partial cover over the clarifiers and installing vertical turbine pumps on the platform/partial cover.

Equalization Storage Requirements

Storage analysis using the average of the diurnal curves presented previously in Figure 1 was prepared by BCVWD as part of the preparation of the Non-potable Water Master Plan to determine the amount of equalization storage is needed at the City's WWTP. This would be the volume required for the repurposed clarifiers. The storage analysis was based on the following:

- 1.8 mgd of environmental mitigation flow would be discharged to Cooper's Creek; during
 the early morning hours it was assumed that mitigation flow less than 1.8 mgd was
 acceptable for short periods of time.
- No pumping into the non-potable water system during the peak power periods in summer (noon to 6 pm) to keep power costs to a minimum
- A 20% emergency reserve was included.

Table 1 shows the amount of equalization storage (MG) at the City of Beaumont's WWTP based on the assumptions above.

Table1
Non-potable Water Equalization Storage Requirements at City of Beaumont WWTP

	2020	2025	2030	2035	2040	2045	Build-out
Equalization Storage Required, MG	0.82	0.96	1.12	1.31	1.49	1.66	2.14

As can be seen in Table 1, the repurposed clarifiers at 1.1 MG storage will be adequate until 2030. At that time addition storage can be provided or additional pumping capacity.

Recycled Water Pumping Station Requirements

Table 2 shows the non-potable water pump station requirements at the City of Beaumont's WWTP based on the following assumptions:

- 1.8 mgd of environmental mitigation flow would be discharged to Cooper's Creek; during the early morning hours it was assumed that mitigation flow less than 1.8 mgd was acceptable for short periods of time.
- No pumping into the non-potable water system during the peak power periods in summer (noon to 6 pm) to keep power costs to a minimum.
- Pumping to the 2600 Zone: Static = 60 ft, TDH = 100 ft (to be verified)
- Pumping from 2600 Zone to 2800 Zone: Static = 210 ft, TDH = 240 ft (to be verified)
- Pumping to the 2800 Zone: Static = 270 ft, TDH 320 ft (to be verified)
- Pump efficiency = 0.70, Vertical Turbine, Can Type, Pumps

- The same pumping rates are assumed in whether pumping from repurposed clarifiers to 2600 Zone or from repurposed clarifiers to 2800 Zone or from 2600 Zone to 2800 Zone.
 This is to ensure there is adequate pumping capacity should the 2600 Zone be at minimum demand and there is storage capacity in the 2800 Zone.
- The pumping rates in the later years may be conservative since there may be some reduction in wastewater flow and hence recycled water production due to indoor water conservation, new high efficiency appliances, water-efficient plumbing fixtures, etc.

Table2
Non-potable Water Booster Pumping Requirements at City of Beaumont WWTP

	2020	2025	2030	2035	2040	2045	Build-out				
Total Pumpi	Total Pumping Capacity to Pump Recycled Water from City of Beaumont WWTP to BCVWD Non-Potable Water System										
Total Pumping Capacity, gpm	1,370	1,370 1,740 2,147 2,600 3,056 3,472									
Pump Type		Ver	tical Turbine	, Constant S	peed, Can T	уре					
	Pumping	from Repurp	osed Clarifie	ers to 2600 Z	one						
No. of Pumps	2	2 3									
Design Point, Each Pump			1750 (gpm, 100 ft,	75 HP						
	Pun	nping from 20	600 Zone to	2800 Zone							
No. of Pumps	2	2		3	3		4				
Design Point, Each Pump			1750 g	ıpm, 240 ft, 2	200 HP						
	Pumping	from Repurp	osed Clarifie	ers to 2800 Z	one						
No. of Pumps 2 3 4											
Design Point, Each Pump			1750 g	ıpm, 320 ft, 2	250 HP						

Location of Recycled Water Storage Facilities

Figure 3 shows the existing and master planned, non-potable water facilities near the wastewater treatment plant and in the southwest portion of Beaumont. A 2600 Pressure Zone pipeline has been recently extended south from Oak Valley Parkway southward through the Heartlands Project to the south end of Potrero Blvd in the vicinity of Hwy 60 where the Potrero Interchange is currently under construction. BCVWD has plans for the installation of potable and non-potable pipelines in the interchange bridge section and the extension of the 2600 Zone non-potable transmission main in the future Potrero Blvd. extension. This will need to be coordinated with the current construction.

BCVWD has tentative plans for a total of about 3 MG of storage in the 2600 Zone. There are two potential locations for the 2600 Zone Tank(s) shown in the schematic in Figure 2 (shown on a previous page): at the treatment plant site or on the Legacy Highlands (The Preserve) site. However, it appears the timing for the Legacy Highlands (The Preserve) Project is still a number of years away.

There are two options to consider:

• Option 1 – Temporarily Boost from WWTP to 2800 Zone Until Legacy Highlands Develops: Install booster pumps at the wastewater treatment plant to boost from the repurposed clarifiers directly into the 2800 Zone pipeline on Fourth Street; serve the 2600 Zone and lower pressure zones through pressure regulators from the 2800 Zone until the Legacy Highlands (The Preserve) Project develops. At that time a 2600 Zone tank can be constructed in the Legacy Highlands Development. At that same time, BCVWD would extend a new 2600 Zone non-potable water pipeline in Fourth St., from the Potrero Interchange area, eastward, parallel to the existing 2800 Zone non-potable pipeline, to the vicinity of the wastewater treatment plant. A second booster pump station would be constructed at the wastewater treatment plant to boost recycled water from the repurposed clarifiers into the 2600 Zone once the Legacy Highlands, 2600 Zone, tank was completed.

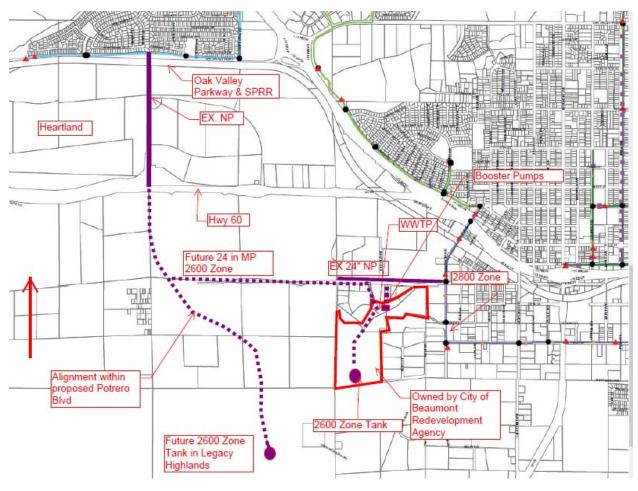


Figure 3
Existing and Master Planned Non-potable Water System Facilities in Southwest Beaumont

• Option 2A-- Construct a 2600 Zone Tank Initially at the City's WWTP: Install two sets of booster pumps, (Dual Zone Booster Station), at the wastewater treatment plant; one set of pumps would boost into the 2600 Zone tank from the repurposed clarifiers; the other set of pumps would boost from the 2600 Zone Tank inlet-outlet pipeline to the 2800 Zone. BCVWD would extend a new 2600 Zone non-potable water pipeline in Fourth St., parallel to the existing 2800 Zone non-potable pipeline, to the vicinity of the wastewater treatment plant and connect to the 2600 Zone tank, similar to the configuration described above for Option 1.

Figure 4 shows a suggested layout of the non-potable water system with the 2600 Zone tank on the City's wastewater treatment plant site (Option 2A). The site of the 2600 Zone tank, shown in Figure 4, is owned by the City of Beaumont Redevelopment Agency. The approximate boundary of the City-owned property is shown along with possible pipeline alignments.

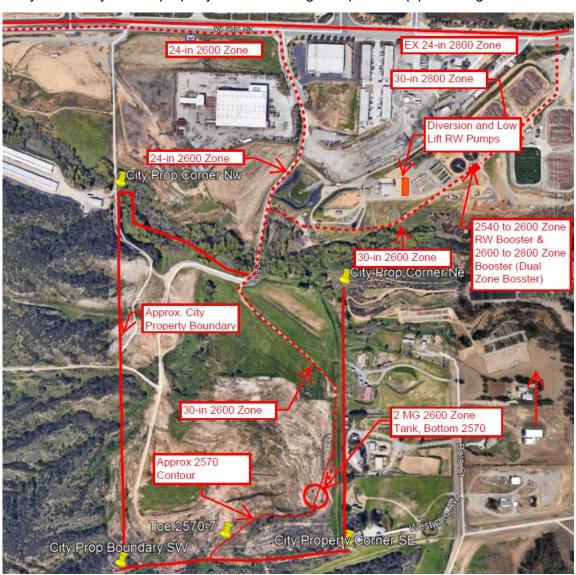


Figure 4
Tentative Plan for Non-potable Water Facilities at City of Beaumont Wastewater Treatment Plant

Figure 4 shows the location of a 2 MG 2600 Zone Non-potable Water Tank. (A 1.5 MG is the minimum size recommended). The location was determined from a rough topographic analysis of the site using Google Earth. A tentative bottom elevation of 2570 is proposed. (The 2570 contour is shown on Figure 4.) Grading a suitable pad will be required and significant fill will be needed. The feasibility of this needs to be investigated geotechnically. The proposed tank will be steel, anchored to a circular concrete foundation or concrete ring foundation as recommended by the geotechnical engineering consultant. If this location is acceptable to the City, additional studies should be conducted to refine the grading and obtain preliminary geotechnical information.

Figure 4 shows a 30-in/24-in diameter 2600 Zone Tank inlet-outlet pipeline extending from the 2600 Zone tank to Fourth St. where it will connect to a proposed 24-in diameter, 2600 Zone pipeline, in Fourth St. extending to Potrero Blvd. The pipeline would have to cross Cooper's Creek either through a pipe bridge or bore and jack. A permit from California Fish and Wildlife will be needed for this crossing. This pipeline would serve Hidden Canyon, Heartland, Tournament Hills, Fairway Canyon and ultimately Legacy Highlands and possibly Jack Rabbit Trail.

Figure 4 also shows a 30-in diameter branch pipeline from the 2600 Zone Tank inlet/outlet pipeline to the Dual Zone Booster Pump Station. One set of pumps would pump from the repurposed clarifiers to the 2600 Zone Tank; the second set would pump from the 2600 Zone Tank to 2800 Zone Tank. The 30-in discharge from the 2600 Zone to 2800 Zone (Dual Zone) Booster Pump Set would extend to and connect to the existing 24-in diameter, 2800 Zone, non-potable pipeline in Fourth St.

It should be pointed out that the facility and pipeline locations are only suggested and can be changed to meet site conditions. These suggestions form a starting point for discussions.

• 2600 Tank Site at WWTP Not Available (Option 2B). In the event the 2600 Zone Tank Site at the City's WWTP shown in Figure 4 is not available for any reason, the City's recycled water could be boosted from the repurposed clarifiers directly into the 2800 Zone Non-potable pipeline in Fourth St. The 2600 and lower non-potable water pressure zones would be served through pressure regulators from the 2800 Zone until a site for a 2600 Zone Tank is available in the Legacy Highlands (The Preserve) development. This operation would result in some increased energy costs to boost the water to the 2800 Zone and then breaking pressure to the 2600 Zone, (200 ft of head). Considering about 300 AFY is used in the 2600 Zone and lower pressure zones, operating in this way would result in increased energy costs estimated to be about \$15,600 per year.

In addition, not having a 2600 Zone Tank may cause a delay in the implementation of the San Timoteo Canyon Groundwater Recovery Well Project, (described below), as it will require pumping this water up to the 2800 Zone and then releasing it through pressure regulators. This is not desirable because most of this recovered groundwater would be used in the 2600 Zone and lower pressure zones.

A decision on the feasibility of the 2600 Zone Tank on the City's WWTP site affects the design of the recycled water boosters and must be made early to meet the project online deadline of March 1, 2020.

• San Timoteo Canyon Groundwater Recovery Wells. BCVWD has a plan to install recovery wells in San Timoteo Canyon to recover groundwater and supplement the non-potable water system during the summer when non-potable water demand exceeds the supply of recycled water from the City. Without the San Timoteo wells, groundwater from the Beaumont Basin or screen imported State Project Water (SPW) will be needed as a supplement. Figure 5 shows a conceptual plan of BCVWD's San Timoteo Canyon Groundwater Recovery Wells (STCGRW). The project consists of a series of shallow wells along San Timoteo Creek pumping into a common collector pipe which leads to a small storage tank along Oak Valley Parkway. From the small storage tank, the water will be boosted into the adjacent 2520 Zone and 2600 Non-potable Pressure Zones. The extraction wells are outside of the Adjudicated Beaumont Groundwater Basin. There is evidence from the Beaumont Basin Watermaster that groundwater is likely "leaking out" of the Beaumont Basin into the San Timoteo Groundwater Basin.

This is over and above the amount historically leaking out, i.e., before BCVWD's recharge at Noble Creek. The extraction wells could recover this water.

The amount of subsurface water has increased above historic conditions due to construction of the Tukwet Canyon Golf Course, Fairway Canyon, and Tournament Hills developments. Return flows from landscape and golf course irrigation is percolating downward and moving subsurface toward San Timoteo Canyon. In addition, the increased impervious areas resulting from development is increasing the surface runoff into San Timoteo Creek, further recharging the San Timoteo Groundwater Basin with this additional flow. BCVWD believes this subsurface water can be captured and introduced into the non-potable water system and reused, especially for summer-time, non-potable system peaking activities.

The City of Beaumont has been discharging treated wastewater into Cooper's Creek, a tributary of San Timoteo Creek, for decades. The treated effluent maintains a habitat in Cooper's Creek and, whatever is not used by the vegetation, percolates. The City is required to maintain a flow of 1.8 mgd as habitat mitigation. BCVWD believes this mitigation water may be a candidate to be captured with shallow wells once it percolates and no longer supports habitat. This captured water can be introduced into the non-potable water system as well. Additional studies and investigations will be needed to evaluate the feasibility and economics of the STCGRW.

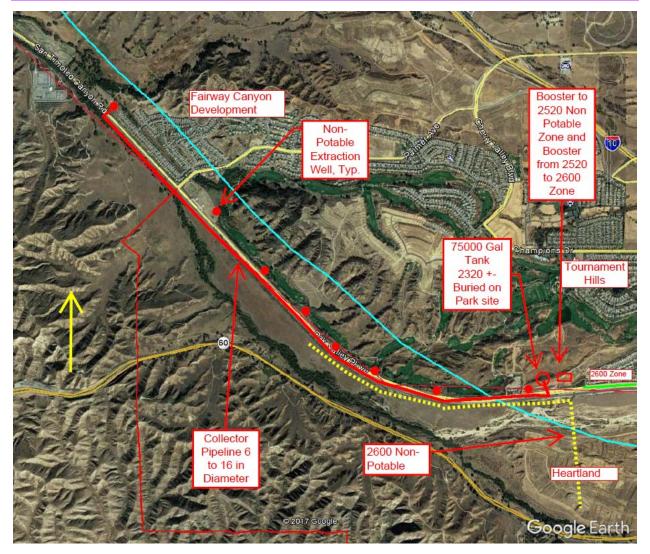


Figure 5
San Timoteo Groundwater Recovery System

4. Complete the detailed design and commissioning for the pumping facilities and any needed 2600 Zone Storage Tank

BCVWD will undertake the design of the booster pumping facilities, the hypochlorination facilities, and the initial 2600 Zone Storage Tank on the City Property if Option 2A is selected. The design time is estimated to be 12 months with a minimum of 12 to 16 months for construction. At this point it will be very difficult to meet the March 1, 2020 operational date for the non-potable water system.

5. Apply for SRF/WRFP low interest loan/grant

There is money available for a low interest loan from the State Revolving Fund (SRF) and possibly funding from the Water Recycling Funding Program (WRFP). The loan interest is 1% for water recycling projects and 1.8% for other wastewater projects. The pumping station and storage and connecting pipelines are eligible for this funding in BCVWD and the City want to pursue it. BCVWD did submit a facilities plan to the SWRCB for recycled water facilities; and in

August 2014, the SWRCB approved the facilities plan. This Facilities Plan was for a pump station, piping and pressure regulating stations to take recycled water from Yucaipa Valley Water District (YVWD). Since that time YVWD has determined that there is presently no surplus recycled water available for BCVWD. At the time the Facilities Plan was going through the approval process, including a pumping station for City of Beaumont Recycled Water was discussed and the SWRCB indicated that an amendment to the Facilities Plan Report could be made. It might be worth discussing the options and timing with the SWRCB to determine if it is still possible to obtain funding. A decision on this would need to be made quickly.

6. Preparation of BCVWD's Title 22 Engineering Report for Recycled Water Use for Landscape Irrigation and Other Approved Uses

BCVWD has a draft Title 22 Engineering Report for Recycled Water Use for Landscape Irrigation and Other Approved Uses that was prepared by an engineering firm in 2006. This report will need to be updated and resubmitted with the latest maps, regulations, etc. This Title 22 Engineering Report would not address indirect potable reuse (IPR) through groundwater recharge. A separate engineering report and additional hydrogeologic studies are likely to be required before significant amounts of recycled water are recharged at BCVWD's groundwater recharge facility.

For the most part, the landscape irrigation systems are owned and operated by Home Owners Associations (HOAs), the City, and the Beaumont Unified School District. These irrigate common areas, street medians, City parks, and school playgrounds. K-hov has some landscape irrigation of the front lawns of individual residences. This will require some discussion with the SWRCB, DDW to ensure the Title 22 Report addresses these locations.

7. Obtaining plans and maps of each reuse site and location of sprinklers, control valves, hose quick-connects, drinking fountains, lunch/food areas, etc. Field verify with GPS.

One of the requirements for BCVWD's Title 22 Engineering Report is up-to-date maps showing the irrigation connections and irrigated area, location of the meters, irrigation plans of each non-potable water customer showing the location of the sprinkler heads, on-site piping, backflow prevention devices, drinking fountains and lunch tables, if any, and proposed location for the recycled water used signage. BCVWD intends to use GPS in conjunction with their GIS system to present this information. Some information may need to be collected from individual users.

8. Obtain plans for all recycled water main installations.

BCVWD has a GIS system which shows the location of the potable water and non-potable water transmission and distribution piping and the location of all meters. Detailed plans and profiles exist from most of the new non-potable water system and some of the newer potable water systems. However, there are locations where non-potable water pipelines parallel older potable water pipelines. The GIS system is accurate, but will need to be field verified. BCVWD intends on submitting the GIS system maps as part of the Title 22 Engineering Report. The process of preparing the maps will need to be discussed with the DDW before proceeding.

9. Develop plans for signage of reuse areas.

Each reuse site will need to have signage indicating recycled water is used on the site. BCVWD will develop the "artwork" and "wording" for the signage. The sign placement is shown on the landscape plans in the Title 22 Engineering Report and will be coordinated with each user. All storage tanks, valve and meter boxes, above ground piping, etc. will need appropriate labeling. For the most part the on-site non-potable water irrigation systems comply with the requirements, but this will need to be field verified.

10. Application for General Order Water Reclamation Permit by BCVWD from Division of Drinking Water (DDW) and the RWQCB.

BCVWD will need to apply for a General Order Water Reclamation Permit from the SWRCB and DDW (SWRCB Order WQ-2016-0068 DDW). This is a blanket permit which covers recycled water use for all approved uses except groundwater recharge (Indirect Potable Reuse). The permit allows BCVWD to administer the addition of new users without having to make a formal amendment to BCVWD's Title 22 Engineering Report. Once BCVWD has the approval, BCVWD can add users and simply provide the data for the new user to the DDW. Key to securing the Water Reclamation Permit is the Title 22 Engineering Report. BCVWD will need to file a Notice of Intent (NOI) to the Santa Ana RWQCB and submit the Title 22 Engineering Report to the San Diego Office of DDW. Because BCVWD's service area actually covers two Regional Boards, (Colorado River and Santa Ana), it has been suggested that the application (NOI) be filed with the SWRCB in Sacramento. This should be discussed with the Regional Boards early to identify if this is the correct process.

A technical report has to be submitted with the NOI covering specific requirements; for the most part these would be covered in the Title 22 Engineering Report. Once approved, the SWRCB will issue a Notice of Applicability (NOA), i.e., the General Order is "applicable" in this case.

There are some monthly and annual reporting requirements.

11. Cross-connection testing for all recycled water users by BCVWD.

BCVWD has prepared a cross-connection testing plan which was approved by DDW. Because it was submitted and approved several years ago, BCVWD will resubmit it to DDW to ensure it includes their latest requirements. BCVWD has developed a sequenced program for cross-connection testing but testing cannot be completed too far ahead of the time that the non-potable (recycled) water system is to be on-line. There are about 330 - 340 sites which have to be tested – so about 3 or 4 per day will need to be tested, considering a 4 day work week and 26 weeks, allowed by DDW, to complete the work.

12. Finalization, review and adoption of regulations for recycled water use by BCVWD.

BCVWD has completed a draft of the regulations for recycled water use in BCVWD's service area. These will need another internal review and formal review and approval by the Division of Drinking Water (DDW). Once approved, the rules will be submitted to the District's Board of Directors for adoption. The recycled water rules with then be incorporated into the District's Rules and Regulations for Water Service.

13. Informational Workshops with BCVWD Non-potable Water Customers

BCVWD will need to set up a series on Informational Workshops with each non-potable water user to inform them about the change over to recycled water and the implications of this change over which includes, providing BCVWD with irrigation system plans (if any exist), identification of a site supervisor, the training of the designated site supervisor and other staff persons in the operation requirements of their on-site system, the cross-connection testing program and requirements, the importance of not making changes to the piping system without BCVWD's approval, the inspections and monitoring requirements, and the requirement to post the recycled water use permit regulations. Each user will need to execute a recycled water use agreement and be aware of BCVWD's Rules and Regulations.

14. User designation of their Site Supervisors for each reuse site and training of each Site Supervisor

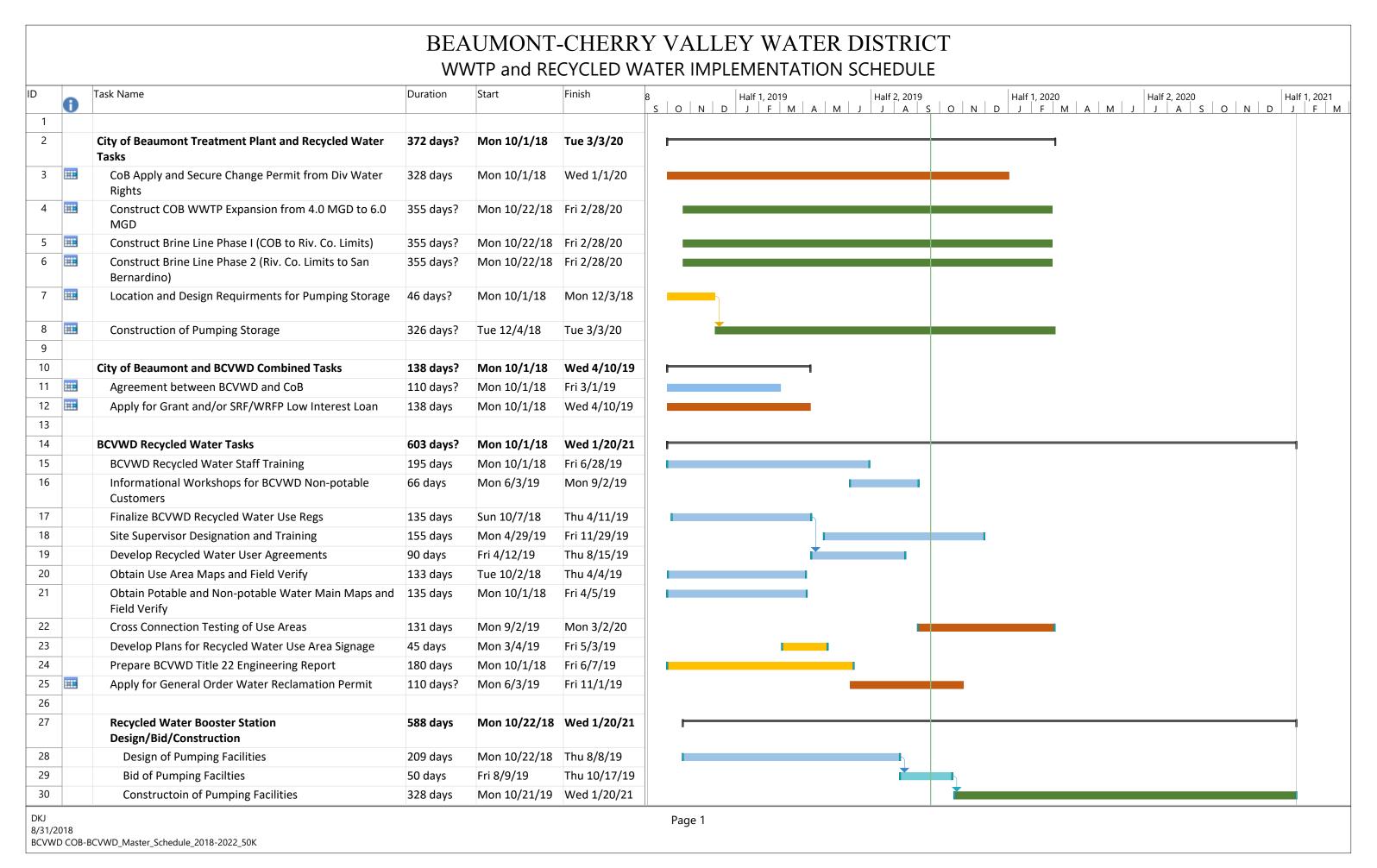
Each recycled water user will have to designate a Site Supervisor who will be responsible for the operation and monitoring of the on-site system. The Site Supervisor will need to attend a Site Supervisor Training Program.

15. BCVWD Recycled Water Staff Training

BCVWD's Lead Water Recycling Coordinator will need to attend the appropriate training sessions to operate recycled water systems. The Coordinator, in conjunction with other BCVWD staff, should develop Site Supervisor Training programs to be able to train Site Supervisors at BCVWD instead of having them go elsewhere. BCVWD may consider working with YVWD and perhaps Eastern MWD to develop a regional "rotating" program to minimize travel. Ultimately the City of Banning could be included.

16. BCVWD to Develop Recycled Water User Agreement

BCVWD will need to develop a Recycled Water User Agreement, using examples from YVWD and Eastern MWD and others. This will need to be adopted by the BCVWD Board of Directors.





March 28, 2019

Mr. James Bean Operations Manager Beaumont Cherry Valley Water District 560 Magnolia Ave Beaumont, CA 92223

Subject: Task Order Proposal for Recycled Water Implementation Road Map

Dear Mr. Bean,

The T.R. Holliman and Associates, Inc. (TRHA) Project Team is pleased to submit this task order proposal to prepare a road map that will lay out the required steps and schedule for the Beaumont Cherry Valley Water District's (District) conversion of the non-potable system to recycled water. We understand that the District's existing non-potable distribution system, serving approximately 300 customers, will begin receiving recycled water from the City of Beaumont's wastewater plant in March 2020. In order to be ready to accept that recycled water when the plant is complete, the District has a significant amount of work which must be done in advance. This work will include:

- Meeting the requirements of the local and State regulatory agencies such as; engineer's reports for each site, cross connection testing, overspray inspections, and proper signage
- Meeting the requirements of groundwater regulatory agencies if winter flows will be spread for groundwater recharge
- Working with your existing non-potable customers to obtain complete "buy-in" to using recycled water
- Helping the non-potable customers ensure their systems are ready to accept recycled water in 2020
- Completing internal organizational changes that will impact operations, engineering, customer service, public relations, administration, and finance
- Determining recycled water rates

To accomplish all of this work, within the one-year period between now and March 2020, it is critical that the District have a roadmap that includes all of the required steps, the resources needed to accomplish those steps, and an overall schedule to monitor success.

TRHA has assembled an expert team that has extensive experience in all facets of recycled water planning, engineering, operations, onsite conversion, finance, and public outreach. We understand the importance of maximizing the use of recycled water in the District's service area both from a regulatory compliance perspective, but more importantly, to allow for continued sustainable development.

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Unique combination of Public and Private Recycled Water Planning Experience

For this project we have assembled a Project Team of experts with over 100 years of combined public/private agency experience in recycled water systems, wastewater engineering, and groundwater management.

TRHA has successfully completed several comprehensive master plans and onsite conversion projects throughout Southern California. These projects include recycled water for agencies such as:

- Orange County Water District
- Mesa Water District
- Inland Empire Utilities Agency
- Long Beach Water Department
- Central Basin Municipal Water District
- Castaic Lake Water Agency
- Rincon del Diablo Municipal Water District
- Fontana Water Company
- San Gabriel Valley Water Company
- West Basin Municipal Water District
- Upper San Gabriel Valley Municipal Water District
- Cities of Fontana, Ontario, Oxnard, Simi Valley, and San Juan Capistrano

Implementation of Recycled Water Systems

TRHA has the recycled water implementation experience to develop appropriate recycled water master planning solutions for the District. Our team has been involved in over 800 customer conversions from potable to recycled water. These include:

- 200 elementary schools
- 40 junior high schools
- 50 high schools
- 8 universities
- 250 parks
- 50 golf courses
- 27 homeowner associations
- three oil refineries

- the first commercial laundry in California to use recycled water
- 2 carpet mills
- paper mills
- 2 power plants
- industrial facilities, and
- hundreds of other irrigation customers

March 28, 2019 Mr. James Bean Page 3

The TRHA Team has extensive public and private experience through our work as consultants and recycled water/wastewater/groundwater agency managers. Our Project Manager, **Thomas Holliman, PE,** is regarded as an expert in recycled water program development and was as the creator of the color "purple" for recycled water systems. Mr. Holliman has almost two decades of local experience in the Inland Empire, recently serving as Engineering and Operations Manager for the East Valley Water District in Highland, CA, and a total of 40 years in recycled water. He has also served as District Engineer for the San Gorgonio Pass Water Agency as part of Boyle Engineering, now AECOM.

Joining Mr. Holliman will be **John Robinson**, **John Robinson Consulting**, **Inc**. Mr. Robinson was chosen as Principal Planner, due to his 26 years of environmental engineering experience focused exclusively on water reclamation and wastewater master planning projects and engineering for municipalities in California and Arizona. During his career he has completed over 550 recycled water customer conversions (i.e. water through the meter) as well as completed and additional 2,000 recycled water customer conversion assessments.

TRHA is also pleased to include **Mr. Reymundo Trejo**, **PE**, **SAFNA** in the TRHA team. Mr. Trejo has managed teams of consultants and implemented advanced water treatment, conveyance infrastructure, waste water conveyance, and regional scale recycled water programs. His experience spans more than 22 years and has involved nearly \$1 Billion in infrastructure programs. As Chief Engineer and Assistant General Manager at the Upper San Gabriel Valley Municipal Water District (Upper District), he managed the implementation of a \$55 Million recycled water program, regional water conservation, and water resources programs.

To identify the steps necessary to establish recycled water rates for the District, the TRHA team will include **Mr. G.Clayton Tuckfield**, **Tuckfield and Associates**. Since 1985, Mr. Tuckfield has used innovative methods, combined with time-tested strategies, to assist municipalities and special districts in achieving their financial goals. Clients have included public utilities, state and county governments, municipalities, and public districts.

We have also added Mr. Shane Bradford, AWWA Cross Connection Program Specialist to the TRHA team, due to his extensive field experience in cross connection testing and field inspections. Over the past 12 years he has performed over 200 Recycled Water Shutdown Tests & Inspections at dual-plumbed and dual-source recycled water sites, including hospitals, schools, parks, laundries, soccer fields, paper mills, golf courses, apartment complexes, shopping centers, and residential & commercial properties.

Finally, we have included **Katz and Associates, Inc.** (**K&A**) to provide a framework for the public relations program that will be needed for the project. K&A specializes in strategic communication, public involvement and community relations to advance essential projects. K&A is comprised of nationally recognized facilitation, public outreach and public relations experts in water resources, transportation, environmental planning, private sector development and land use. March 28, 2019

Mr. James Bean Page 4

Our Project Team has worked with numerous agencies and agency representatives that could play a role in the conversion of the District's non-potable system to recycled water including the Regional Water Quality Control Board – Santa Ana Region, State Water Resources Control Board Division of Drinking Water. The TRHA Project Team has helped numerous communities obtain over \$182M in funding needed to implement their recycled water systems.

We have attached brief resumes for the team members and a company profile for Katz and Associates, Inc.

Scope of Services

The TRHA team will prepare for the District a technical memorandum, often referred to as a "road map", which will identify the sequence of steps necessary to complete the conversion of the non-potable system to recycled water. To complete the road map the following tasks will be accomplished:

- Regulatory Agencies Requirements meet with the regulatory agencies and document their requirements including engineering report requirement for each site or the acceptance of a Master Engineers Report covering all of the District sites under one document. Testing protocol requirements, and how long the cross-connection tests will be accepted before recycled water is actually served to the site. TRHA has prepared, and secured, approval of engineering reports for hundreds of conversion sites as well as successfully obtained Health Department approval for Master Engineer's Reports for several major conversion areas.
- Onsite Supervisor Training develop an outline of the curriculum for the required onsite supervisor training. Based on the number of sites, there will be a minimum of 300 supervisors that will need to be trained. It is conceivable that each site may have a back-up supervisor which will increase the number to 600 supervisors. TRHA can provide training in both English and Spanish and has developed and conducted training for multiple agencies.
- Recycled water rate identify the steps necessary to develop a recycled water rate.
- <u>Public Outreach</u> develop a recommended public outreach program framework and process to identify key stakeholders.
- <u>Cost Estimate</u> develop a cost estimate for completing all of the necessary steps to prepare the non-potable system for conversion to recycled water.
- Master Schedule prepare a master schedule for the conversion project.

March 28, 2019 Mr. James Bean Page 5

Schedule and Compensation

Our not- to-exceed fee for completing the road map is \$15,000. Please refer to the attached fee estimate. We expect to be able to complete the road map within three weeks from notice to proceed. Our completion time may be affected by the availability of Regulatory Agency staff, but we will communicate any change from our estimate after our first contact with the Regulatory Agencies.

We appreciate your consideration of our proposal. Should you have any questions, please feel free to contact me at (909) 573-6802 or at trholliman@gmail.com.

Sincerely,

T.R Holliman and Associates, Inc.

Thomas R. Holliman, PE President/Managing Engineer

Attachments

TRHA Team Profiles



Thomas Holliman,
PE, Project Manager
T.R, Holliman and
Associates, Inc.

Thomas Holliman was chosen as Project Manager because he has over forty (40) years of professional experience in the planning, design, and

operations of major recycled water, potable water, and sewer facilities throughout Southern California. Mr. Holliman is a recognized expert in California for recycled water/non-potable In addition to receiving several systems. WateReuse Association awards for special projects of merit, Tom was instrumental in the development of the color "purple" as the identifier for non-potable systems, which has national become the and international designation for recycled/non-potable facilities.

He previously served Director of as Engineering/Planning for the Long Beach Water Department, District Engineer/Assistant General Manager for the Water Replenishment District of Southern California, and recently Engineering and Operations Manager for the East Valley Water District. With Boyle Engineering, now AECOM, Mr. Holliman served as the District Engineer for the San Gorgonio Pass Water Agency. Mr. Holliman has also held senior technical and management positions in private consulting firms. He is accomplished in all facets of agency administrative functions from development of agency budgets, developing RFP's for major capital projects, and working closely with elected and appointed agency Board of Directors.



John Robinson, Principal Planner John Robinson Consulting, Inc.

John Robinson was chosen as Principal Planner due to his 20 years of environmental engineering experience focused

experience focused exclusively on water

reclamation, and wastewater master planning projects and engineering for municipalities in California and Arizona. He has been involved in feasibility/master studies and planning, technology evaluation and recommendations, preparation of study and design reports, as well as process and mechanical design for new water reclamation and wastewater facilities and expansion of existing facilities. He has provided system computer reclamation hvdraulic modeling and has been intimately involved with regulatory agencies with permitting jurisdiction over recycled water projects.

During his career he has completed over 550 recycled water customer conversions (i.e. water through the meter) as well as completed and additional 2,000 recycled water customer conversion assessments. He specializes in assisting clients with identifying and assessing customers, evaluating potential non-potable reuse system components as well as managing all customer development for customer Mr. Robinson has developed conversions. recycled water conversion plans and worked with customers to develop conversion construction costs. John has developed and conducted training seminars for both client staff as well as end use customers. He is particularly adept at working closely with SWRCB DDW and OCHCA for coordination of site issues and approvals and understands how to make the regulatory approval process go smoothly.



<u>Reymundo Trejo, PE</u> <u>SAFNA – Principal</u> Engineer

Mr. Trejo's background involves program management on a broad range of infrastructure and engineering projects. He has managed teams of consultants and

implemented advanced water treatment. conveyance infrastructure, waste conveyance, and regional scale recycled water programs, that span more than 22 years and have involved nearly \$1 Billion in infrastructure programs. He has been responsible infrastructure programs for regional, coastal and Inland Empire agencies. Since he has been employed by both private and public agencies, as well as having had a position of responsibility in a city environment, he has a versatile frame of reference with planning, operations, budgets, grant funding, staffing, and overall program management requirements. He is a proven manager of complex programs, innovative projects, and personnel, with emphasis on effective management. Mr. Trejo has made numerous presentation to boards, City Councils, and forums for agencies including WateReuse and AWWA.

Prior to joining SAFNA Engineering & Consulting, Mr. Trejo served as Chief Engineer and Assistant General Manager at the Upper San Gabriel Valley Municipal Water District (Upper District), where he managed the implementation of a \$55 Million recycled water program, regional water conservation, and water resources programs. As Chief Engineer, he was responsible for the day-to-day activities involving complex engineering decisions and working with dozens of consultants, contractors, water districts and local cities, negotiating terms and conditions to implement regional projects.



G. Clayton Tuckfield,
PE Recycled Water
Rate Development
Tuckfield and
Associates

Clayton is President and Principal Consultant of Tuckfield & Associates where he provides utility rate and capacity charge consulting services.

Clayton has managed or been directly involved in publicly owned utility financial services for over 30 years. Since 1985, Mr. Tuckfield has used innovative methods combined with timetested strategies to assist municipalities and special districts in achieving their financial goals. Clients have included public utilities, state and county governments, municipalities, and public Prior to forming Tuckfield & districts. Associates, Clayton served Black & Veatch Corporation for nearly 15 years in their Management Consulting Division. Tuckfield has worked with numerous cities and special districts in California and has written papers and articles for AWWA (American Water Works Association) and California Special Districts Association (CSDA) and has conducted a webinar for CSDA regarding financing projects with USDA funding.



Shane Bradford,
Cross Connection
Control Specialist
Cross Connection
Control Specialist

Mr. Bradford is currently part of the Ontario Municipal Utilities Company where he is

responsible for implementing the City's Cross Connection Control Policies. He leads a team of four (4) cross connection control specialists and manages the operational aspect of the City's Recycled Water & Backflow programs.

Over the past 12 years he has performed over 200 Recycled Water Shutdown Tests & Inspections at dual-plumbed and dual-source recycled water sites, including hospitals, schools, parks, laundries, sports arenas, paper mills, golf courses, apartment complexes, shopping centers, and residential & commercial properties.

Katz and Associates, Inc. (K&A)

Katz & Associates specializes in strategic communication, public involvement community relations to advance essential projects. K&A is comprised of nationally recognized facilitation, public outreach and public relations experts in water resources, transportation, environmental planning, private sector development and land use. K&A specialists combine their backgrounds in communications, geography, sociology, public affairs, environmental sciences and long-range planning to effectively translate highly technical information into language understandable to a variety of audiences. The majority of K&A's clients are public entities implementing large infrastructure and environmental initiatives. K&A also works with private developers seeking to entitle and build housing or commercial projects, and with organizations and groups planning major civic or community events.

Founded in 1986, K&A is a certified small and woman-owned business enterprise headquartered in San Diego, with offices in Los Angeles and San Francisco and a statewide team of more than 40 professionals. K&A has supported projects across the U.S. and internationally, working with special districts, municipalities, privately owned utilities, local, state and federal agencies and regional coalitions.

Beaumont Cherry Valley Water District Recycled Water Road Map - Not-to-Exceed Fee

3/28/2019

Task	Project Tasks	Manager Principal Principal Principal Rate Study Connection Specialist		Total Hours	Total Labor	Katz and Associates Public Outreach	ODCs	TOTAL FEES			
		\$210	\$150	\$195	\$175	\$125					
I.	Identify Regulatory Agency Requirements	12	18	2			32	\$5,610			
II.	Onsite Supervisor Training Cirriculum Framework	4				4	8	\$1,340			\$1,340
III.	Recycled Water Rate Process	1	2	2	8		13	\$2,300			\$2,300
IV.	Public Outreach Program Framework	1	2				3	\$510	\$2,000		\$510
V.	Cost Estimate	8	2	2			12	\$2,370			\$2,370
VI.	Master Conversion Schedule	8				2	10	\$1,930			\$1,930
VIII.	VIII. Project Management and Coordination	4					4	\$840		\$100	\$940
	Total Hours	38	24	6	8	6	82	\$ 14,900		\$ 100	\$ 15,000
					•	•	-	Tot	tal Not-to-Exc	ceed Fee	\$15,000



Beaumont-Cherry Valley Water District Regular Board Meeting September 26, 2019

Item 12

STAFF REPORT

TO: Board of Directors

FROM: Daniel Jaggers, General Manager

SUBJECT: Discussion and Consideration of Elm Avenue Mainline Extension, South of

Fourth Street

Staff Recommendation

Discussion and provide further direction to District staff, as desired.

Background

Earlier this year, the property located at 310 Elm Avenue was purchased along with two adjacent parcels located on Olive Avenue by 310 Elm, LLC. (See Exhibit 1). These parcels are located in the City of Beaumont and are zoned as residential in the City's 2007 and March 2018 General Plan Maps (See Exhibits 2 and 3).

At the City of Beaumont's May 28, 2019 Planning Commission meeting, the owner of 310 Elm Avenue identified there was a potential buyer, 310 Elm, LLC., for the property and the potential buyer was proposing to convert the existing residential lot to a construction storage yard. At said meeting, several existing residents of Elm Avenue expressed concern regarding the protection of their private water lines running through the subject property to service their residences. Subsequently, the City Planning Department set Condition 95 regarding this project which reads:

"Prior to the issuance of a Building Permit, the applicant shall verify existing water lines on the site and record an easement for maintenance and continuous service to the affected property owners on Elm Avenue, or to the satisfaction of the Public Works Director and Community Development Director."

Between June and July of 2019, District staff worked with the representatives and their engineer for 310 Elm, LLC. to develop options that would realign the private water lines along the property line of 310 Elm Avenue and would also meet Beaumont-Cherry Valley Water District (BCVWD) standards. Staff also prepared a preliminary cost estimate for the construction of an 8-inch mainline in Elm Avenue from Fourth Street south to the end of the existing street. Said cost estimate was approximately \$200,000. These options were presented at the August 22, 2019 BCVWD Board of Directors Engineering Workshop.

Several existing residents of Elm Avenue attended the August 22, 2019 Engineering Workshop as well as the September 11, 2019 BCVWD Regular Board meeting and expressed their concern regarding the protection of their service connections and water lines and the lack of fire protection on Elm Avenue.

On August 29, 2019, District staff received correspondence from 310 Elm, LLC. indicating that they no longer desire to work with the District for an alternative solution to the conditions set forth by the City of Beaumont and they would protect the water lines which run across their property in-place.



Subsequently, District staff has developed a conceptual pipeline alignment for a mainline in Elm Avenue south from Fourth Street. Staff has also identified more detailed probable costs related to the construction of said pipeline alignment, including prevailing wage, CEQA requirements, and the design of construction drawings. These costs are set forth in Exhibit 5, attached.

The attached Exhibit 4 depicts a mainline in Elm Avenue. It is estimated that a timeline for this project would be approximately 1-1.5 years from the beginning of design to the end of construction.

Currently, the District Potable Master Plan does not provide for a waterline in Elm Avenue, therefore the current adopted 10-year Capital Improvement Plan (CIP) does not include funding for this effort.

Fiscal Impact:

The fiscal impact to the District to construct an 8-inch mainline (with fire hydrants) and relocate the existing five (5) meters to each residence frontage on Elm Avenue is estimated to be approximately \$288,000 and the earliest this project could be addressed in the CIP would be 2023-2024 due to existing leaking infrastructure mitigation needs.

Attachments

Exhibit 1 – Vicinity Map

Exhibit 2 - City of Beaumont 2007 General Plan Map - Adopted

Exhibit 3 – City of Beaumont March 2018 General Plan Map – Unadopted

Exhibit 4 - Water Mainline Extension Exhibit for Elm Avenue South of 4th Street

Exhibit 5 - Preliminary Pipeline Engineers Construction Cost Estimate

Report prepared by Erica Gonzales, Administrative Assistant

Exhibit 1
310 Elm Avenue – Vicinity Map



Exhibit 2

CITY OF BEAUMONT – 2012 GENERAL PLAN EXHIBIT

(FROM 2007 GENERAL PLAN)



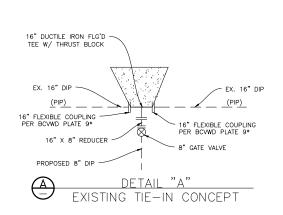
Exhibit 3

CITY OF BEAUMONT – MARCH 2018 GENERAL PLAN
(NOT YET ADOPTED)

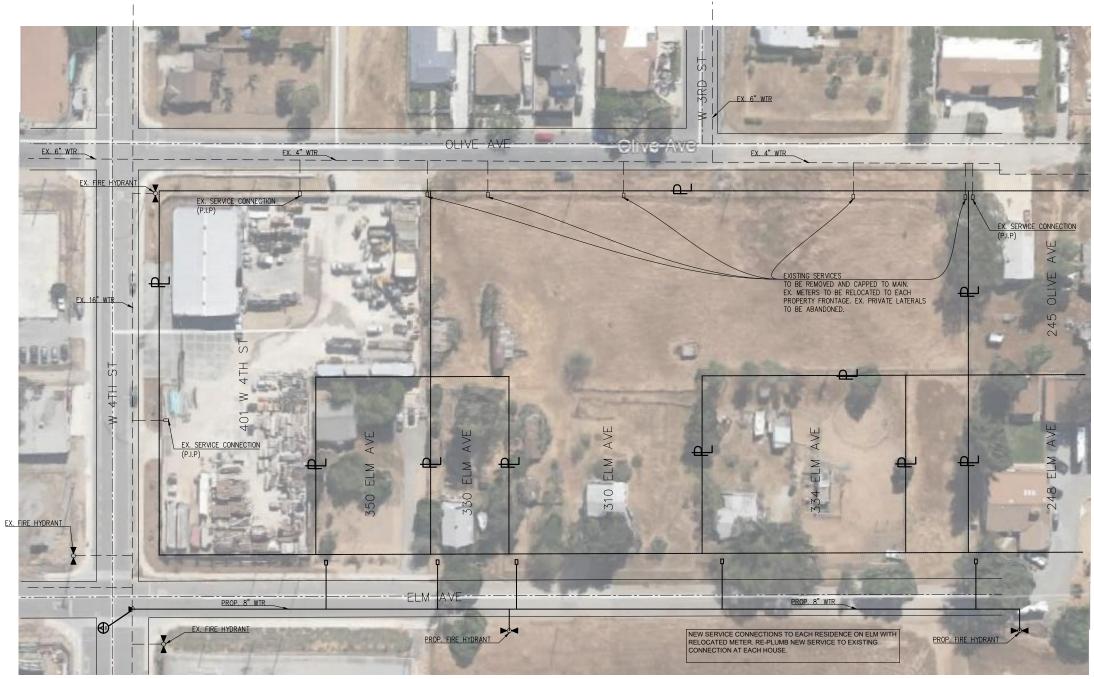


BEAUMONT-CHERRY VALLEY WATER DISTRICT WATER MAINLINE EXTENSION EXHIBIT **ELM AVENUE SOUTH OF 4TH STREET**

PRESSURE ZONE 2750



<u>ESTIMATED QUANTITIES</u>	UNIT	QTY.
8" DUCTILE IRON PIPE	LF	850
FIRE HYDRANT	EA	2
3 CONNECTION TO EXISTING 16" MAINLINE	EA	1
4 16" BUTTERFLY VALVE	EA	2
5 16" FLEXIBLE COUPLING	EA	2
6 16" X 8" REDUCER	EA	1
8" GATE VALVE	EA	1
8 6" GATE VALVE	EA	2
9 SERVICE CONNECTION LATERAL TO 8" PROPOSED DIP	EA	5





"NOT FOR CONSTRUCTION"

BCVWD | ELM AVENUE SOUTH OF 4TH STREET, WATER MAINLINE EXTENSION | 1 OF 1

EXHIBIT 5

BEAUMONT-CHERRY VALLEY WATER DISTRICT

PRELIMINARY PIPELINE ENGINEERS CONSTRUCTION COST ESTIMATE PROJECT No. Elm Avenue (South of 4th Street) Mainline Extension

				ENGINEER'S	ESTIMATE
ITEM NO.	DESCRIPTION	QTY	UNIT	UNIT PRICE	TOTAL
1	Mobilization				
1.1	Mobilization	1	L.S.	\$3,285.00	\$3,285.00
1.2	Bonds/Insurance	1	L.S.	\$3,285.00	\$3,285.00
1.3	Schedule of Values	1	L.S.	\$1,095.00	\$1,095.00
1.4	Preliminary Project Schedule	1	L.S.	\$1,095.00	\$1,095.00
1.5	Demobilization	1	L.S.	\$2,190.00	\$2,190.00
				Sub Total:	\$10,950.00
2	Dust Control				
2.1	Dust Control	1	L.S.	\$5,000.00	\$5,000.00
				Sub Total:	\$5,000.00
3	SWPPP				
3.1	Prepare and Submit SWPPP Plan	1	L.S.	\$5,000.00	\$5,000.00
3.2	Install Initial BMPS	1	L.S.	\$2,000.00	\$2,000.00
3.3	Maintain BMPS	1	L.S.	\$2,500.00	\$2,500.00
0.0	Walitaii Bivii 3	<u>'</u>	L.O.	Sub Total:	\$9,500.00
4	Traffic Control				
4.1	Implement Traffic Control	1	L.S.	\$3,500.00	\$3,500.00
				Sub Total:	\$3,500.00
5	Environmental				
5.1	Technical Analyses(Acoustical/Air Quality)	1	L.S.	\$5,000.00	\$5,000.00
5.2	Biological Investigation	1	L.S.	\$4,000.00	\$4,000.00
5.3	Cultural Resources Investigation	1	L.S.	\$4,000.00	\$4,000.00
5.4	IS/MND	1	L.S.	\$10,000.00	\$10,000.00
				Sub Total:	\$23,000.00
6	Permits				
6.1	Encroachment	1	L.S.	\$2,500.00	\$2,500.00
6.2	SMARTS	1	L.S.	\$1,000.00	\$1,000.00
6.3	Utility Coordinate	1	L.S.	\$2,000.00	\$2,000.00
	•		1	Sub Total:	\$5,500.00

EXHIBIT 5

BEAUMONT-CHERRY VALLEY WATER DISTRICT

PRELIMINARY PIPELINE ENGINEERS CONSTRUCTION COST ESTIMATE PROJECT No. Elm Avenue (South of 4th Street) Mainline Extension

				ENCINEEDIG	ECTIMATE
ITEM NO.	DESCRIPTION	QTY	UNIT	ENGINEER'S UNIT PRICE	TOTAL
7	Potable Water Pipeline	050		0.40.00	* 40 000 00
7.1	8" Potable Water Pipeline - Delivered and Offloaded	850	L.F.	\$48.00	\$40,800.00
7.2	Trench Excavation	850	L.F.	\$12.00	\$10,200.00
7.3	Pipe Laid in Place	850	L.F.	\$6.00	\$5,100.00
7.4	Trench Backfilled and Compacted	850	L.F.	\$12.00	\$10,200.00
7.5	Test and Cleanup	850	L.F.	\$8.00	\$6,800.00
7.6	4" Blowoff Labor and Materials	0	EA	\$5,000.00	\$0.00
7.7	2" Air Vac Valve Labor and Materials	0	EA	\$5,500.00	\$0.00
7.8	EBAA Iron Flexible Coupling Labor and Materials	2	EA	\$2,500.00	\$5,000.00
7.9	16" Flanged Tee	1	EA	\$2,500.00	\$2,500.00
7.10	16" Butterfly Valve	2	EA	\$5,800.00	\$11,600.00
7.11	16" x 8" Flanged Reducer(Eccentric)	1	EA	\$600.00	\$600.00
7.12	8" Gate Valve	1	EA	\$2,500.00	\$2,500.00
7.13	6" Gate Valves (Fire Hydrant)	2	EA	\$1,000.00	\$2,000.00
7.14	6" Fire Hydrant Run Pipeline	2	EA	\$2,500.00	\$5,000.00
7.15	Fire Hydrant	2	EA	\$4,800.00	\$9,600.00
7.16	Connection to Existing System	1	EA	\$10,000.00	\$10,000.00
				Sub Total:	\$121,900.00
8	Thrust Block				
8.1	Material (Concrete / Rebar)	5	C.Y.	\$100.00	\$500.00
8.2	Labor	2	EA	\$1,200.00	\$2,400.00
0.2	Labor			Sub Total:	\$2,900.00
9	Double and Double and Double and				
-	Pavement Removal Repair and Replacement	950	1.5	¢6.00	¢E 100.00
9.1	Pulverize	850	L.F.	\$6.00	\$5,100.00
9.2	Cold mix	850	L.F.	\$10.00	\$8,500.00
9.3	Furnish and Install Class II Base	850	L.F.	\$8.00	\$6,800.00
9.4	Furnish and Install Base Paving	850	L.F.	\$11.00	\$9,350.00
9.5	Cold Plane	850	L.F.	\$3.00	\$2,550.00
9.6	Overlay	850	EA	\$8.00	\$6,800.00 \$39,100.00
				ous rotali	400,100.00
	SUBTOTAL ENGINEERS CONSTRUC	TION COST	ESTIMATE		\$221,350.00
	ESTIMATED ENGI	NEERING CO	OSTS (10%)		\$22,135.00
	CONTINCENCIES (200/) (CONSTRUCTION	1)			¢44.070.00
	CONTINGENCIES (20%) (CONSTRUCTION COTAL PIPELINE CONSTRUCTION ESTIMATE AND CO		-6		\$44,270.00 \$287,755.00



Beaumont-Cherry Valley Water District Regular Board Meeting September 26, 2019

Item 16

STAFF REPORT

TO: Board of Directors

FROM: Dan Jaggers, General Manager

SUBJECT: Update: Status of District Wells, Capital Improvements, and Engineering

Projects

Staff Recommendation

No recommendation.

Background

Beginning in late 2017, the Board approved a number of Capital Improvement, Engineering and Well repair and rehabilitation projects, either as part of the annual program to ensure quality of supply and serviceable equipment, or out of necessity due to equipment failure. The purpose of this staff report is to update the Board on all major Capital Improvement, Engineering and Well repair and rehabilitation projects that are ongoing or are upcoming in the near future.

Summary

The attached tables set forth the current status of said on-going projects.

Attachments

Table 1 – 2019 Board Approved Facility Replacement and Well Site Repair, Rehabilitation, and Replacement

Table 2 – On-going Capital Improvement Projects

Table 3 – Upcoming Capital Improvement Progress

Prepared by Erica Gonzales, Administrative Assistant

						Table 1		
	201	8-19	Board Appro	oved	Facility Rep	acement and Well S	ite Repair, Rehabiliati	on, and Replacement
	Total							
	Anticipated Y-T-		T-D Costs					
Potable Infrastructure	able Infrastructure Project Total Proje		tal Project	(August 31,				
Project Description	Amount	١	Expenses	2019)		Funding Source	Current Status	Project Notes
						Capital		
Well 21 and Booster						Replacement		
21A	\$ 70,837	\$	59,889	\$	59,889	Reserve	Complete	New motors installed and in service
						Capital		
Well 22 Repair and						Replacement		
Rebilitation	\$ 217,660	\$	205,736	\$	20,689	Reserve	Ongoing	Work complete pending landscaping, and paint
						Capital		Completion pending well chemical treatment,
Well 3 Repair and						Replacement		instalation of new equipment, flushing and sampling
Rehabilitation	\$ 113,240	\$	99,930	\$	99,930	Reserve	Ongoing	(currently underway)
						Capital		
Well 4A Repair and						Replacement		
Rehabilitation	\$ 80,000	\$	-	\$	-	Reserve	Underway	Pumping Unit removal expected next week (7-22-19)
						Capital		
Well 10 Repair and						Replacement		Pumping Unit has been Removed, well inspection and
Rehabilitation	See Well 4A	\$	-	\$	-	Reserve	Underway	rehabilitation efforts starting soon.
						Capital		
Well 18 Repair and						Replacement		Pumping Unit has been Removed, well inspection and
Rehabilitation	See Well 4A	\$	-	\$	-	Reserve	Underway	rehabilitation efforts starting soon.

						Table 2					
				Ongoi	ing Capital Im	provement Plan (Cl	IP) Pro	ojects	1		T
Project No.	Project Description	Approved CI	P Cost		Project Costs st 31, 2019)	% Expended	E	Budget 201 9	Y-T-D Costs (August 31, 2019)	% Completion -	Funding Source
	Recycled Water										
WR-REWTR-Plan	Masterplan Update 2016	\$ 2	5,000	\$	88,997	356%	\$	-		60%	Facilities Fees
	Grand Avenue Storm										
WR	Drain Replace 2750 Zone Well	\$ 2,14	5,810	\$	40,676	2%	\$	1,158,434	\$ 2,310	20%	Facilities Fees
W-2750-0005	1	\$ 4,13	0,856	\$	36,580	1%	\$	3,660,650	\$ 5,750	1%	Facilities Fees
W-2750-0001	Replacement for Well 2	\$ 5,36	50,424	\$	32,812	1%	\$	2,356,775	\$ 3,140	1%	Capital Replacement Reserve
W-2750-0002	2750 Zone Well in Noble Creek Regional Park	\$ 5,97	8,918	\$	16,732	0%	\$	5,041,310		1%	Facilities Fees
	New Beaumont Basin Well on Pardee										
W-2850-0001	Sundance Site 2850/2750 Pressure Reducing Station &	\$ 5,84	14,739	\$	16,004	0%	\$	2,482,399		1%	Facilities Fees
M-2750-0001	Piping (Cherry Reservoir)	\$ 5	1,898	\$	869	2%	\$	51,898		1%	Capital Replacement Reserve
M-2850-0001	Well 25 East Block Wall and Entrance Gate	\$ 5	1,900	\$	4,761	9%	\$	51,900		15%	Facilities Fees
M-0000-0001	800hp Spare Motor	\$ 12	9,512	\$	2,433	2%	\$	129,512		2%	Capital Replacement Reserve
M-3040-0002	Noble Booster Pump and Motor(Spare Pump & Motor)	\$ 2	23,211	ć	2,978	13%	\$	23,211		139/	Capital Replacement Reserve
IVI-3040-0002	,	\$ Z	.5,211	ş	2,970	15%	۶	23,211		1370	Reserve
NPT-2800-001	Raw Water Filter System at 2800 PZ Tank	\$ 26	51,308	\$	2,235	1%	\$	261,308		1%	Facilities Fees
T-3040-0001	Pressure Zone Pipeline	\$ 1,23	8,531	\$	20,885	2%	\$	55,649	\$ 6,946	70%	Facilities Fees
T-3040-0001	2 MG 3040 Zone Tank		4,982	\$	184,714	5%	\$	148,229	\$ 24,600		Facilities Fees
P-2750-0069	Egan Ave-California Ave. Alley, 5th to 7th	\$ 18	3,896	\$	61,217	33%	\$	183,896	\$ 14,164	70%	Capital Replacement Reserve
P-3620-0012	Ave Altejo Bella, Ave Miravilla to end of cul-de- sac		57,504	\$	61,833	24%	\$	257,504	\$ 14,782	700/	Capital Replacement Reserve
1 3020-0012		23 ب	7,504	ڔ	01,033	2470	۶	237,304	7 14,/82	70%	
P-3620-0015	Appletree Ln, B line to Oak Glen Rd	\$ 65	9,530	\$	60,368	9%	\$	659,530	\$ 14,848	70%	Capital Replacement Reserve
M-0000-0002	Chlorination Retrofit At Misc. Wells (6 Well Sites)	\$ 6	8,189	\$	31,615	46%	\$	36,574		75%	Capital Replacement Reserve
IT-NETW-0004	Email Spam Protection/Archive Solution	\$	6,917	\$	922	13%	\$	6,917		80%(1)	Capital Replacement Reserve

09/17/2019

				Ongo	ning Capital Im	Table 2 provement Plan (Cl	P) Pro	niects			
Project No.	Project Description	Appro	ved CIP Cost	Total	Project Costs ust 31, 2019)	% Expended		Budget 2019	Y-T-D Costs (August 31, 2019)	% Completion -	Funding Source
	Wonderware SCADA			(* ***8		,, , _			(1.00)	,	Capital Replacement
IT-SCAD-0002	Phase 2 Project	\$	391,596	\$	263	0%	\$	391,596		50%	Reserve
IT-NETW-0002	Redundant SAN Project	\$	51,417	\$	49,807	97%	\$	23,467	\$ 49,807	100%	Capital Replacement Reserve
IT-NETW-0012	Server Replacement Project	\$	51,771	\$	50,737	98%	\$	51,771	\$ 50,737	100%	Capital Replacement Reserve
	Investment in Sites										
WR-SITES-Reser.	Reservoir Project	\$	4,000,000	\$	428,299	11%	\$	73,800	\$ 262,099	20%(2)	Facilities Fees
VE-EQIP-0004	Confined Space Retrieval System	\$	15,000	\$	12,402	83%	\$	15,000	\$ 12,402	100%	Capital Replacement Reserve
	Workstation Replacement project (50 units @ \$1,000 per unit -										Capital Replacement
IT-NETW-0006	33% per year)	\$	101,392	\$	40,124	40%	\$	20,597	\$ 11,604	80% (3)	Reserve
	Front Office Space Reconfiguration and										Capital Replacement
IT-ADMN-0003	Furniture Replacement	\$	38,500	\$	1,387	4%	\$	38,500	\$ 1,387	15%	Reserve
	Well Eyewash Station Additions	\$	51,630	\$	4,490	9%	\$	-	\$ 4,490	15%	Capital Replacement Reserve
	Engineering Office Tenant	<u></u>		ć	12.000	100%			43,000	1000/ (4)	Capital Replacement
	Improvements/Furniture	\$	-	\$	13,008	100%	\$	-	\$ 13,008	100% (4)	Reserve
IT-SCAD-0004	AMR / AMI Deployment Project	\$	4,044,735	\$	420,242	10%	\$	1,890,335	\$ 134,855	50%	Capital Replacement Reserve
VE-TRUK-0008	Ford F150 Super Duty 2x4 - Unit 40	\$	35,179	\$	27,035	77%	\$	35,179	\$ 27,035	100%	Capital Replacement Reserve
VE-TRUK-0009	Ford F250 Super Duty 4x4 - Unit 41	\$	35,046	\$	31,763	91%	\$	35,046	\$ 31,763	100%	Capital Replacement Reserve
VE-TRUK-0011	Ford F250 Super Duty 4x4 - Unit 42	\$	47,440	\$	31,737	67%	\$	47,440	\$ 31,737	100%	Capital Replacement Reserve

NOTES:

- (1) Operating budget used to fund since less than \$5,000 threshold
- (2) BCVWD is a participant in this project , currently in Phase II, for 4,000 AF
- (3) Project completion % for 2019 portion
- (4) Budget from IT-ADMN-0003 used to fund

	Table 2019 Upcoming Capital Improv	_	ent Plan (CIP) Pro	jects	
		Αŗ	proved Capital Improvement		
Project No.	Project Description		Budget Cost	Funding Source	Priority (1 -5)
M-0000-0002	Chlorination Retrofit at Misc. Wells	\$	68,189	Capital Replacement Reserve	2
TM-3040-0001	Highland Springs Reservoir Recoat & Retrofit	\$	375,201	Capital Replacement Reserve	2
TM-3330-0001	Lower Edgar Reservoir Recoat & Retrofit	\$	375,201	Capital Replacement Reserve	2
BP-2850-0001	2850 Zone to 3040 Zone Booster Pump Station	\$	3,921,014	Facilities Fees	2 - 3
W-2850-0003	New Beaumont Basin Well Noble Creek Meadows	\$	6,688,707	Facilities Fees	5
PR-3330-0001	3330 to 3150 Lower Mesa, Noble Regulator	\$	37,286	Capital Replacement Reserve	4
PR-3620-0001	3620 to 3330 Fisher Pressure Regulator	\$	37,286	Capital Replacement Reserve	3
-	Arc Flash Study and Improvement Project	\$	58,708	Capital Replacement Reserve	1
-	Well Eyewash Station Additions	\$	51,630	Capital Replacement Reserve	1
-	Well 29 Primary Conductor Replacement	\$	17,360	Capital Replacement Reserve	1
-	Well 21 Generator Conduit and Wiring	\$	33,090	Capital Replacement Reserve	1
-	Climate Control for High Horsepower Electrical Buildings	\$	50,000	Capital Replacement Reserve	2
NBP-2600-0001	2600 Zone to 2800 Zone Booster Pump Station	\$	4,729,888	Facilities Fees	1
NPR-2600-0001	2600 Zone Non-potable Regulation and Metering Station	\$	362,475	Facilities Fees	3 - 4

Upcoming Capital Improvement Plan (CIP) Projects BC 09/17/2019

	Table 2019 Upcoming Capital Improv	_	ent Plan (CIP) Pro	ierts	
	2013 Opcoming Capital Impro-	A	pproved Capital Improvement		
Project No.	Project Description		Budget Cost	Funding Source	Priority (1 -5)
	2600 Zone Non-potable Booster at CoB				
NBP-2600-0003	Treatment Plant	\$	2,789,545	Facilities Fees	3 - 4
	2800 to 2600 Non-potable Water				
NPR-2800-0001	Pressure Regulator	\$	211,431	Facilities Fees	2
NPT-2800-001	Raw Water Filter System at 2800 PZ Tank	\$	261,308	Facilities Fees	2 - 3
NT-2800-0001	2MG Non-potable 2800 Zone Tank	\$	200,018	Facilities Fees	3 - 4
	San Timoteo Creek Non-potable				
NWR-2600-0002	Extraction Wells	\$	4,980,678	Facilities Fees	2 - 3
P-3040-0021	Lincoln St., Noble St to West end	\$	326,050	Capital Replacement Reserve	4
P-3040-0022	Friendship Dr., Vineland St. to End	\$	120,347	Capital Replacement Reserve	4
P-3040-0025	Star Ln, Sky Ln, and View Dr	\$	374,235	Capital Replacement Reserve	2
P-3040-0026	Utica Way, Vineland St to View Dr.	\$	173,350	Capital Replacement Reserve	1
P-3620-0009	Ave. Miravilla, End of 12-in to Whispering Pines	\$	339,092	Capital Replacement Reserve	1
P-2750-0067	Elm AveWellwood Ave. Alley, 7th St. to 5th St.	\$	152,976	Capital Replacement Reserve	1
	Endpoint Protection / LanGuard Security				
IT-NETW-0003	Software Project	\$	11,010	Capital Replacement Reserve	2
	Shoretel Phone System Redundancy				
IT-NETW-0008	Equipment	\$	13,769	Capital Replacement Reserve	2
IT NETW 0044	Server Room Uninterrupted Power	,	F0 000	Canital Davidacement Davids	2
IT-NETW-0011	Source	\$	50,886	Capital Replacement Reserve	2
IT-SCAD-0003	Wonderware SCADA Phase 3 Project	\$	224,685	Capital Replacement Reserve	3 - 4

Upcoming Capital Improvement Plan (CIP) Projects BC 09/17/2019

	Table	e 3			
	2019 Upcoming Capital Impro	vemen	t Plan (CIP) Pro	jects	
		App	roved Capital		
		In	nprovement		
Project No.	Project Description	В	udget Cost	Funding Source	Priority (1 -5)
IT-ADMN-0001	Laser-Fishe Digitized Fileroom Project	\$	132,910	Capital Replacement Reserve	5
IT-ADMN-0002	Board Room Audio/Video System	\$	150,000	Capital Replacement Reserve	4
IT-ADMN-0003	Front Office Space Reconfiguration and Furniture Replacement	\$	38,500	Capital Replacement Reserve	2 - 3
VE-TRUK-0008	2006 4X4 F250 (Apr, 2006)	\$	35,179	Capital Replacement Reserve	1
VE-TRUK-0009	2008 4X4 F250 (May, 2007)	\$	35,046	Capital Replacement Reserve	1
VE-TRUK-0011	2008 F250 (Feb, 2008)	\$	47,440	Capital Replacement Reserve	1
VE-EQIP-0004	Confined Space Retrieval System	\$	15,000	Capital Replacement Reserve	1



Beaumont-Cherry Valley Water District Regular Board Meeting September 26, 2019

Item 17

Update: Legislative Action and Issues Affecting BCVWD

Federal			
Issue	Status	Description	New or Change in Status (New/Y/N)
HR 1435 – Sites Reservoir Protection Act	2/28/19 – Introduced 3/15/19 Ref to Com on Water, Oceans	ACWA Supports. Referred to Committee on Natural Resources. Supports building of the Reservoir and other water infrastructure in the Central Valley. Could also authorize additional funding and technological assistance for the project. Matching funds provided through Prop. 1. 9/16 – No new action.	N
HR 2473 – SAVE Water Resources Act	5/2/19 - Introduced in House 6/13/19 – Heard in Natural Resources Subcommittee	ACWA supports with amendments. Requires the Bureau of Reclamation to fast-track California water storage projects such as the Sites Reservoir. Will create cutting-edge programs to grow and sustain the region's water supply by improving storage capacity, supporting key new technological innovations for drought resistance and groundwater management and establishing responsible levels of federal funding to invest in water future. Amendments under consideration.	N
H. Res 19 – Exp. Concern Re Hex. Chrom. In Water	1/3/19 - Introduced in House.	Resolution recognizes the importance of protecting the American people from drinking water polluted with carcinogens, such as hexavalent chromium. 9/13/19 – No change in status	N
H.R. 1621 – Water Supply Permitting Coordination Act	Introduced 3/7/19 – Referred to House Com on Natural Resources	To authorize the Secretary of the Interior to coordinate Federal and State permitting processes related to the construction of new surface water storage projects on lands under the jurisdiction of the Secretary of the Interior and the Secretary of Agriculture and to designate the Bureau of Reclamation as the lead agency for permit processing, and for other purposes. Helps with NEPA and Endangered Species Act. FEO becomes lead review agency. 9/13/19 – No change in status.	N
S.1932 – Drought Resiliency and Water Supply Infrastructure Act	Introduced 6/20/19 (Feinstein) 7/18/19 – Hearing in Senate Energy and Natural Resources Committee 9/13/19 – No change in status	Federal Drought Legislation. ACWA-supported bill would build on Sen. Feinstein's 2016 drought legislation that was included in the Water Infrastructure Improvements for the Nation (WIIN) Act. The bipartisan Act would improve the nation's water supply and drought resiliency to protect against climate change impacts. Key provisions include: • Extending funding under the WIIN Act for an additional five years, including \$670 million for surface and groundwater storage projects, and supporting conveyance, \$100 million for water recycling projects, \$60 million for desalination projects • Creating a new loan program for water agencies at 30-year Treasury rates to spur investment in new water supply projects • Authorizing \$140 million for habitat restoration and environmental compliance projects, including forest, meadow and watershed restoration and projects that benefit threatened and endangered species.	New

\\08dc.main.bcvwd.com\Shared\^Administrative\BOARD_ADMINISTRATION\Agendas\Agendas 2019\Regular Board Meeting\2019-09-26 Engineering Workshop\17 - Legislative Update\16 - 2019-09-26 Legislative Update final.docxUpdate Prepared by: Lynda Kerney, Administrative Assistant

California			
Issue	Status	Description	New or Change in Status (New/Y/N)
ACA 1: 55% Vote for General Obligation Bonds and Special Taxes	3/28/19 – Revised and referred to Com on Appropriations 8/21/19 – Failed to pass Assembly 9/3/19 – Motion for reconsideration	Supported by CSDA. Currently, the California Constitution requires a two-thirds vote at the local level for both General Obligation (G.O.) bonds and special taxes, regardless of for what the city, county, or special district proposes to use the funds. Creates a new constitutional vote threshold of 55 percent for both G.O. bonds and special taxes, when proposed specifically for the construction, reconstruction, rehabilitation, or replacement of public infrastructure or affordable housing, or the acquisition or lease of real property for those purposes. The bill also specifies requirements for voter protection, public notice, and financial accountability. 8/21/19 – Needed 10 more votes to pass Assembly, failed. 9/13/19 – Motion to reconsider – no action. Bill dead.	Υ
ACA 3: Clean Water for All Act	3/20/19 – Amended in Assembly 4/30/19 – Failed Committee, granted reconsideration	Constitutional Amendment to require a minimum of 2% of specified state revenues to be earmarked for payment of principal and interest on bonds authorized by the Water Quality, Supply and Infrastructure Improvement Act of 2014. 4/15/19 – Now called the "Clean Water for All Act" 9/13/19 – No change in status	N
AB 292: Recycled water: raw water and groundwater augmentation	6/20/19 Amended in Senate. 8/12/19 Ordered to 2nd reading in Sen 8/30/19 – Ordered to inactive status per Sen. Dodd	CSDA supports. Current law requires the State Water Resources Control Board, on or before December 31, 2023, to adopt uniform water recycling criteria for direct potable reuse through raw water augmentation, as specified. Current law defines "direct potable reuse" and "indirect potable reuse for groundwater recharge" for these purposes. This bill would eliminate the definition of "direct potable reuse" and instead would substitute the term "groundwater augmentation" for "indirect potable reuse for groundwater recharge" in these definitions. The bill would revise the definition of "treated drinking water augmentation."	Υ
AB 402: State Water Resources Control Bd – funding stabilization	6/18/19 – Introduced 8/12/19 – Appr placed in suspense file 9/13/19 – Died in the Senate Appr Suspense file	ACWA and CSDA opposed unless amended. Would create an opt-in program, administered by the SWRCB, to fund regulatory oversight of small public drinking water systems. Establish regulatory fees paid annually by public water systems. ACWA opposes due to collection of fees from all agencies used to subsidize regulatory costs of oversight of local primary agencies. 8/30/19 – Amended to remove CSDA's opposition. Clarified the intent of the program to assist Local Primary Agencies where oversight costs have outpaced fee revenue. Will likely lead to fee increases for all public water systems, but rates would still increase if LPAs return their authority to the State Water Board.	Υ
AB 636: State Water Resources Control Board – water quality initiatives	2/15/19 – Introduced 3/14/19 - Referred to Com on Env Safety and Toxic Materials	Requires the Legislature to hold a hearing to review proposals of the State Board which result in significant environmental harm before said proposals can go into effect. Targeted at the Bay-Delta plan; could affect the Sites Reservoir. 4/9/19 – First hearing was set, but then canceled by author. 6/19/19 – Failed deadline, now a 2-year bill 9/13/19 – No change in status.	N

AB 638: Dept of Water Resources: Water storage: climate change impacts	8/30/19 – Passed Appr as amended. 9/4/19 – Passed Sen., Enrolled, to Gov for signature	Requires the state to take into account the impacts climate change will have on water reliability, including accounting for the projected shrinkage of the Sierra Nevada snowpack which acts as California's largest natural reservoir. The state would be required to identify projects and strategies to mitigate adverse impacts losses and incorporate those strategies into planning efforts going forward. 5/16/19 – Title of bill amended. Now requires inventory of storage facilities and pushes deadline to 2023. 7/11/19 – Amended. Re-referred to Appropriations.	Υ
AB 992: Open Meetings – Social Media	2/21/19 – Introduced 5/1/19 – Failed to pass Com on LG, but granted reconsideration	The Ralph M. Brown Act generally requires that the meetings of legislative bodies of local agencies be conducted openly. That act defines "meeting" for purposes of the act and expressly excludes certain activities from the application of the act. This bill would provide that the Act does not apply to the posting, commenting, liking, interaction with, or participation in, internet-based social media platforms that are ephemeral, live, or static, by a majority of the members of a legislative body, provided that a majority of the members do not discuss among themselves business of a specific nature that is within the subject matter jurisdiction of the legislative body of the local agency. CSDA supports. 9/13/19 – No change	N
AB 1180: Recycled Water	9/13/19 – Enrolled, to Gov for signature	CSDA supports. Existing law requires, on or before January 1, 2020, the state board to adopt standards for backflow protection and cross-connection control through the adoption of a policy handbook, as specified. This bill would require that handbook to include provisions for the use of a swivel or changeover device to supply potable water to a dual-plumbed system during an interruption in recycled water service. 8/30/19 – Moves to third reading.	Υ
AB 1414: Urban Retail Water Suppliers: Reporting.	6/3/19 Amended. 8/27/19 – Enrolled and presented to Gov for signature 9/5/19 – Signed by Gov, CHAPTERED.	CSDA Watch List. Would require each urban retail water supplier to submit a completed and validated water loss audit report as prescribed by the Department of Water Resources on or before October 1 of each year until October 1, 2023, if reporting on a calendar year basis and on or before January 1 of each year until January 1, 2024, if reporting on a fiscal year basis. The bill would require on or before January 1, 2024, and on or before January 1 of each year thereafter, each urban retail water supplier to submit a completed and validated water loss audit report for the previous calendar year or previous fiscal year as part of an existing report relating to its urban water use.	New
AB 1204: Maximum Contaminant Level Compliance Period	2/21/19: Read first time. 4/9/19: Second committee hearing canceled	Sponsored by ACWA and the Calif Water Assn. Would require the adoption or amendment of a primary drinking water standard for a contaminant in drinking water not regulated by a federal primary drinking water standard or that is more stringent than a federal primary drinking water standard to take effect 3 years after the date on which the state board adopts or amends the primary drinking water standard. 9/13/19 – No change in status	N
AB 1483: Housing Data: Collection and Reporting	9/6/19 – Amended in Senate to include special districts 9/10/19: Passed by Com on Government	Amended on 9/6 to include special districts. Development Impact Fees. CSDA Watch. Would require a- city, county, or special district to maintain on its website, as applicable, a current schedule of fees, exactions, and affordability requirements imposed by the- special district, including any dependent special- district, applicable to a proposed housing development- project, all zoning ordinances and development- standards, and annual fee reports or annual financial reports, as specified. The bill would require a special district to provide on its website an archive of impact fee	NEW

	and Finance, return to Senate floor in January 2020.	nexus studies, cost of service studies, or equivalent, as specified. By requiring a city or county to include this information on its internet website, the bill would impose a state-mandated local program. CSDA analysis: will mandate the posting of numerous fee-related documents and reports for all local agencies. CSDA and its coalition partners worked diligently to pare down the broad mandates and make them workable under real-world conditions. There are a few issues that remain unresolved, but the author's office has agreed to address outstanding concerns in January when the State Legislature reconvenes. For Special Districts, the new AB 1483 mandatory website postings will include: Nexus studies, Annual Fee reports, Cost of service studies or their equivalents	
AB 1484: Mitigation Fee Act: Housing Developments	9/6/19: Amended in Senate to include Special Districts 9/10/19 – Delay hearing until 2020, per author	Development Impact Fees. CSDA watch: Would place into law an expansive list of requirements that would run parallel to and in conjunction with both the Fee Mitigation Act and the Quimby Act as well as the Mello-Roos Community Facilities Districts Act. CSDA holds major concerns with this measure including: • Projects would need an individualized determination of their alignment with the nexus study; • Adds a new standard of "roughly proportional" in addition to the more common "reasonable" standard, which may not be appropriate for these types of fees and charges; • Levels of service may not exceed that of the "existing community"; • New facilities to be funded via impact fees would have to be specifically identified within the district's capital improvement plan (CIP); • "Capital Cost Level of Service" would be prohibited; • Mandates even more public website postings, hearings, and comment periods prior to adopting a nexus study; • If challenged in court, the burden would be on a district to demonstrate compliance with this bill. The author has agreed to postpone hearing AB 1484 until 2020 as the issues it tackles and their consequences are too complicated to resolve in one week. There may be informational hearings during the interim between legislative session late in 2019. We anticipate AB 1483 will move forward this week and will likely pass the Legislature.	NEW
SB 13: Accessory Dwelling Units	8/12 – Amended 2 nd time, sent to Appr 8/30/19 – Passed Appropriations 9/13/19 – Assembly amended. ENROLLED and to Gov for signature.	Opposed by CSDA. Would prohibit impact fees on accessory dwelling units (ADUs) smaller than 750 square feet and significantly limit the impact fees that can be charged for larger ADUs. Given that revenue for local governments is tightly restricted by the California Constitution, fees are one of the few ways special districts can offset the indirect costs of growth. Impact fees are critical for park, fire protection, and other types of districts trying to recoup their costs for providing infrastructure and services to new ADU developments. 5/16/19 – Amended pertaining to max. / min. square footage of accessory dwelling unit. Prohibits impact fees on ADUs smaller than 750 sf. For ADUs larger than 750, fees must be proportional to the main dwelling.	Υ

AB 1486: Disposal
of Surplus Land

2/22/19 - Introduced 4/11/19 – Amended in Assembly 5/17/19 - Passed Appr, read second time and amended 5/29/19 - Amended and passed Assembly 5/30 – Read 1st time in Senate 6/12 – Ref to Com on Gov & Finance 7/27 – Amd in Senate 8/12/19 -**Appropriations Com** placed on suspense 8/30/19 - Passed Appr as amended. Moved to second reading. 9/12/19 -ENROLLED. To Gov for signature.

Strongly opposed by CSDA. Amends Calif Govt Code to require special districts and other public agencies to offer a right of first refusal to affordable housing developers, schools, and park agencies before leasing, selling, or otherwise "conveying" any of the agency's land. The new mandate in <u>Assembly Bill 1486</u> would prevent prudent efforts to lease or otherwise protect land for important community purposes, such as buffer land surrounding a water or wastewater treatment facility, energy generation plant, or airport, as well as the long-term lease of district property that will be needed for future infrastructure.

4/11/19 – Amended to require local agency to provide an annual list of properties to the Calif Department of Housing and Community Development. 4/16/19 – (update from CSDA) Amended in Assembly Local Government Committee in a positive step for special districts. Amendments remove the bill's new definition of "disposal" under the Surplus Land Act (SLA). In effect, leases and transfers of land will continue to not be subject to the SLA. "AB 1486 generated intense opposition from a coalition of public agencies, including CSDA. Over 40 CSDA members submitted letters of opposition to the bill and called members of the Committee. Thanks largely to this grassroots effort, the author was compelled to accept the Committee's amendment in order to keep AB 1486 moving through the Legislature."

5/16/19 – Amended to specify "the bill would, with regard to disposing of surplus land for the purpose of developing low- and moderate-income housing, only require the local agency disposing of the surplus land to send a specified notice of availability if the land is located in an urbanized area."

5/29/19 – Amended in Assembly to expand the Surplus Land Act to cover ALL land owned by public agencies. AB 1486 passed off the Assembly Floor on a mostly party line vote and now advances to the Senate for consideration in policy committees.

6/27/19 – The BCVWD Board voted to oppose AB 1486. Appropriate legislators and the CSDA were notified via formal letter.

8/30/19 – Amended to remove the applicability of the Act to leases and other conveyances of surplus land. CSDA removed its opposition.

9/17/19 CSDA update: As originally introduced, the bill applied to both the sale and lease of special district surplus land. It was amended in the Assembly to limit the bill to the sale of land, but the bill sponsors will likely continue to press in future years for restrictions on leasing special district land.

CSDA strongly opposed the AB 1486 throughout the year, joined by a groundswell of grassroots opposition to the bill from dozens of special districts that expressed their concerns by submitting letters to various committees and legislators. After months of working with the author's office, compromise amendments were taken September 6 to remove opposition from CSDA and the coalition. The amendments substantially expanded the definition of "agency's use" for special districts (not applicable to transit agencies) to permit a wide range of uses of surplus land, including commercial, retail or entertainment uses if the district board declares that the "agency's

Υ

		use" of the surplus land either directly furthers the express purpose of agency work or operations or is expressly authorized by a statute governing the district. The negotiated amendments to AB 1486 also permit additional activities by a district in the "pre-negotiation" stage of disposing surplus land. Finally, a proposed 50 percent penalty of the final sale value of the land for violating the Surplus Land Act was reduced to 30% for a first-time offense and 50% for any subsequent offense, and the penalty provision will not go into effect until January 1, 2021. CSDA thanks all the districts that sent in letters on this AB 1486, without your efforts we may not have been successful in securing amendments to address special districts' largest concerns.	
SB 200: Safe and Affordable Drinking Water Fund	7/24/19 – Signed by Governor CHAPTERED	Would establish the Safe and Affordable Drinking Water Fund in the State Treasury to help water systems provide an adequate and affordable supply of safe drinking water in both the near and the long term. Would authorize deposit into the fund of federal contributions, voluntary contributions, gifts, grants, and bequests and would provide that moneys in the fund are available, upon appropriation by the Legislature, to the board to fund grants, loans, contracts, or services to assist eligible recipients.	Υ
ACR 89 – Special Districts Week	5/13/19 – Introduced in House 8/19/19 – Passed and sent to Governor for sig 8/22/19 - CHAPTERED	Assembly Concurrent Resolution 89 declares the week of September 22, 2019, to September 28, 2019, to be "Special Districts Week." It will coincide with the annual meeting of the California Special Districts Association. ACR 89 encourages all Californians to be involved in their communities and be civically engaged with their local government. It raises awareness of the role and services of special districts.	Υ
AB 658 Water Rights – Water Management	7/11/19 – Amd in Senate 8/30 – Passed Appr, ordered to 3 rd reading on 9/3 9/13/19 – Gutted and Amended. Enrolled, headed to Gov for signature	Would create a five-year permit that would allow groundwater recharge projects to divert water during high-flow events. The intent of the bill is to increase groundwater recharge when specific conditions exist. ACWA Analysis 9/13/19: After extensive negotiations late in the session with the State Water Board and Assembly member Arambula, a compromise could not be reached in time and the bill was gut and amended. AB 658 currently reflects all amendments drafted by ACWA's Groundwater Recharge Workgroup. While the bill would not solve every basin's issues, AB 658 does move the conversation regarding groundwater recharge forward. This bill would authorize a groundwater sustainability agency or local agency to apply for a conditional temporary permit for diversion of surface water to underground storage for beneficial use. Projects could proceed either through a proposed five-year permit process or through the existing permanent water right process.	Y

		After the bill was first introduced, ACWA adopted a support-if-amended position and worked with the author and stakeholders to secure amendments drafted by the Groundwater Recharge Workgroup. The bill was amended to represent the broad agreement between a number of ACWA members, the legislature, and the State Water Board. However, the bill included an additional provision drafted by Senate Natural Resources Committee staff that would require the State Water Board to ensure that proposed projects with five-year permits are consistent with their basin's groundwater sustainability plan. This requirement is viewed by some as an expansion of the State Water Board's authority. As a result, ACWA maintained a support-if-amended position seeking to strike this requirement. ACWA submitted amendments to address those concerns; however, the author did not accept them. The bill head to the governor's desk.	
SB 749 – Public Records Act amendments	6/18 – Amended, ref to Com on Appr. 7/10 – Placed on suspense. 8/30/19 – Passed Appropriations. 9/13/19 – Ordered to INACTIVE by Asm. Calderon.	CSDA now neutral. This bill will have a single provision that seeks to remove the "Trade Secrets" exemption from the CPRA for records of wages, benefits, working hours, and other employment terms and conditions of employees working for a private industry employer, or a subcontractor of a private industry employer, pursuant to a contract with a state or local agency. This provision may impact the number of bids Districts receive in response to RFPs and the amount of information provided in those bids. 7/17/19 - CSDA has changed position from Oppose to NEUTRAL since the amendments addressed the most significant concerns.	Υ
SB 1: Environmental, Public Health, and Workers Defense Act	7/9/19 – Re-referred to Asm Com on Appr 8/30/19, Passed; moves to Assembly 9/10 – Amended in Assembly 9/13/19 – Passed. To Governor for sig	ACWA opposes unless amended. Seeking to prevent a backsliding of the federal regulatory structure as it existed prior to the current federal administration taking office, this bill establishes a minimum baseline for environmental, public health, and labor standards. The baseline is set as the federal standard that existed prior to the current federal administration assuming office. ACWA Analysis: In the days leading up to Friday's vote, Democratic Senators and Assembly Members requested Atkins to make SB 1 a two-year bill so all parties could continue working on problematic provisions. When the bill came up on the Assembly floor late Friday night, members of both parties spoke at length about the consequences this bill presented for water management in the Sacramento-San Joaquin Bay Delta and its tributaries. Despite concerns, the bill narrowly passed the Assembly with a final vote 43-21. ACWA will now turn its efforts to the Governor's office and request he veto the bill. 9/16/19 – According to an article in the L.A. Times, Gov. Newsom intends to veto: "I fully support the principles behind Senate Bill 1: to defeat efforts by the President and Congress to undermine vital federal protections that protect clean air, clean water and endangered species," Newsom said in a statement released Saturday. "Senate Bill 1 does not, however, provide the state with any new authority to push back against the Trump Administration's environmental policies and it limits the state's ability to rely upon the best available science to protect our environment," the statement said.	Y