

**AGENDA
IRVINE RANCH WATER DISTRICT
BOARD OF DIRECTORS
REGULAR MEETING**

August 26, 2024

CALL TO ORDER 5:00 p.m.

PLEDGE OF ALLEGIANCE

ROLL CALL Directors LaMar, McLaughlin, Swan, Withers, and President Reinhart

PUBLIC COMMENT NOTICE

This meeting will be held in-person at the District’s headquarters located at 15600 Sand Canyon Avenue, Irvine, California. The meeting will also be broadcasted via Webex for those wanting to observe the meeting virtually.

To observe this meeting virtually, please join online using the link and information below:

Via Web: <https://irwd.webex.com/irwd/j.php?MTID=m03968c67b23bb4e2dd151ca12585820e>
Meeting Number (Access Code): 2490 775 2380
Meeting Password: gmPyPxaQ333

PLEASE NOTE: Webex observers of the meeting will be placed into the Webex lobby when the Board enters closed session. Participants who remain in the “lobby” will automatically be returned to the open session of the Board once the closed session has concluded. Observers joining the meeting while the Board is in closed session will receive a notice that the meeting has been locked. They will be able to observe the meeting once the closed session has concluded.

Public comments are limited to three minutes per speaker on each subject. If you wish to address the Board of Directors on any item, you may attend the meeting in person and submit a “speaker slip” to the Secretary. Forms are provided outside of IRWD’s Board Room. If attending via Webex, please submit your request to speak, or your comment, via the “chat” feature and your remarks will be read into the record at the meeting. You may also submit a public comment in advance of the meeting by emailing comments@irwd.com before 12:00 p.m. on Monday, August 26, 2024.

COMMUNICATIONS TO THE BOARD

1. Written:
2. Oral:
3. ITEMS RECEIVED TOO LATE TO BE AGENDIZED

Recommendation: Determine the need to discuss and/or take immediate action on item(s).

CONSENT CALENDAR, Items 4 through 10

4. BOARD MEETING MINUTES

Recommendation: That the minutes of the August 12, 2024 Regular Board meeting be approved as presented.

5. JULY 2024 TREASURY REPORT

Recommendation: That the Board receive and file the Treasurer's Investment Summary report, the summary of fixed and variable rate debt, and the disclosure report of reimbursements to Board members and staff, approve the July 2024 summary of payroll ACH payments in the total amount of \$2,505,929, and approve the July 2024 accounts payable disbursement summary of warrants 443804 through 444221, Workers' Compensation distributions, ACH payments, virtual card payments, wire transfers, payroll withholding distributions, and voided checks in the total amount of \$50,988,142.

6. PLANNING AREA 40 CYPRESS VILLAGE MARINE WAY CAPITAL DOMESTIC WATER IMPROVEMENTS

Recommendation: That the Board authorize the General Manager to accept Irvine Community Development Company's construction contract with Shoffeitt Pipeline, Inc. in the amount of \$795,843.25, and authorize a budget increase for Project 12510 in the amount of \$693,000, from \$507,000 to \$1,200,000, for the Planning Area 40 Cypress Village Marine Way Capital Domestic Water Improvements.

7. PLANNING AREA 51 HERITAGE FIELDS MARINE WAY STAGE 3 CAPITAL FACILITIES

Recommendation: That the Board authorize the General Manager to accept Heritage Fields' construction contract with L&S Construction, Inc. in the amount of \$2,031,738 for the Planning Area 51 Marine Way Stage 3 Capital Facilities Improvements Project; and authorize the addition of Projects 13107, 13109, and 13110 in the respective amounts of \$710,000, \$1,200,000, and \$900,000 to the Fiscal Year 2024-25 Capital Budget for the Planning Area 51 Marine Way Stage 3 Capital Improvements Project.

CONSENT CALENDAR, Items 4 through 10, continued

8. FISCAL YEARS 2023-24 AND 2024-25 GENERAL REPLACEMENTS AND MODIFICATIONS PROJECTS BUDGET INCREASES

Recommendation: That the Board authorize budget increases to Fiscal Year 2023-24 for Project 11774 in the amount of \$967,000, from \$6,663,000 to \$7,600,000, and for Project 11777 in the amount of \$1,037,000, from \$2,663,000, to \$3,700,000; and authorize budget increases to Fiscal Year 2024-25 for Project 11850 in the amount of \$3,517,000, from \$6,283,000, to \$9,800,000, Project 11851 in the amount of \$3,597,000, from \$2,103,000, to \$5,700,000, and Project 11852 in the amount of \$1,815,000, from \$1,785,000, to \$3,600,000.

9. TRUNK SEWER PROTECTION WITHIN SAN DIEGO CREEK AT STATE ROUTE 133 CONTRACT CHANGE ORDER AND FINAL ACCEPTANCE

Recommendation: That the Board approve Contract Change Order No. 1 in the credit amount of \$1,803,000, accept construction of the Trunk Sewer Protection within San Diego Creek at State Route 133, authorize the General Manager to file a Notice of Completion, and authorize the payment of the retention 35 days after the date of recording the Notice of Completion for Project 12125.

10. FARM LEASES ON IRWD PROPERTIES IN PALO VERDE IRRIGATION DISTRICT

Recommendation: That the Board authorize the General Manager to execute a five-year lease agreement with E&S Farming LLC for the Williams and Martin properties at \$335 per acre, and an amendment to the existing lease agreement with Van Dyke Farms to extend the lease term and include the Holt property starting at \$275 per acre, subject to non-substantive changes.

ACTION CALENDAR

11. SYPHON RESERVOIR IMPROVEMENTS VARIANCE AND FINAL ENVIRONMENTAL IMPACT REPORT ADDENDUM NO. 1

Recommendation: That the Board authorize the General Manager to execute Variance No. 3 in the amount of \$660,000 with AECOM for additional engineering design services for Project 03808, and approve the proposed Addendum No. 1 to the Syphon Reservoir Improvement Project Final Environmental Impact Report, including the determinations set forth in Addendum No. 1, approve the modifications to the project consisting of the off-site habitat as mitigation for the Syphon Reservoir Improvements Project and authorize staff to post and file a Notice of Determination.

ACTION CALENDAR, continued

12. ORANGE HEIGHTS ZONE 5 TO 6 AND ZONE C+ TO E BOOSTER PUMP STATIONS CONSULTANT SELECTION

Recommendation: That the Board authorize the General Manager to execute a Professional Services Agreement with Lee + Ro in the amount of \$836,760 for engineering design services for the Orange Heights Zone 5 to 6 and Zone C+ to E Pump Stations, Projects 07136 and 07139.

OTHER BUSINESS

Pursuant to Government Code Section 54954.2, members of the Board of Directors or staff may ask questions for clarification, make brief announcements, and make brief reports on his/her own activities. The Board or a Board member may provide a reference to staff or other resources for information, request staff to report back at a subsequent meeting concerning any matter, or direct staff to place a matter of business on a future agenda. Such matters may be brought up under the General Manager's Report or Directors' Comments. Pursuant to AB 1234 and Government Code Section 53232.3(d), a written draft report of the meetings that any Board member attended on behalf of IRWD since the last Board Meeting will be available at the table near the Board Room entrance, and will be amended verbally, if necessary, during Directors' Comments.

13. General Manager's Report

14. Receive oral update(s) from District liaison(s) regarding communities within IRWD's service area and interests.

15. Directors' Comments and Meeting Reports

16. Closed Session

A. CONFERENCE WITH LEGAL COUNSEL — ANTICIPATED LITIGATION — Pursuant to Government Code Section 54956.9(d)(2): significant exposure to litigation. (*One (1) potential case; City of Lake Forest re: El Toro Road Damage.*)

17. Open Session

18. Adjournment

Availability of agenda materials: Agenda exhibits and other writings that are disclosable public records distributed to all or a majority of the members of the above-named Board in connection with a matter subject to discussion or consideration at an open meeting of the Board are available for public inspection in the District's office, 15600 Sand Canyon Avenue, Irvine, 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 Secretary of 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 will be available electronically via the Webex meeting noted. Upon request, the District will provide for written agenda materials in appropriate alternative formats, and reasonable disability-related modification or accommodation to enable individuals with disabilities to participate in and provide comments at public meetings. Please submit a request, including your name, phone number and/or email address, and a description of the modification, accommodation, or alternative format requested at least two days before the meeting. Requests should be emailed to comments@irwd.com. Requests made by mail must be received at least two days before the meeting. Requests will be granted whenever possible and resolved in favor of accessibility.

August 26, 2024
Prepared and
submitted by: K. Swan
Approved by: Paul A. Cook *PAC*

CONSENT CALENDAR

BOARD MEETING MINUTES

SUMMARY:

Provided are the minutes of the August 12, 2024 Regular Board meeting for approval.

FISCAL IMPACTS:

None.

ENVIRONMENTAL COMPLIANCE:

Not applicable.

COMMITTEE STATUS:

Not applicable.

RECOMMENDATION:

THAT THE MINUTES OF THE AUGUST 12, 2024 REGULAR BOARD MEETING BE APPROVED AS PRESENTED.

LIST OF EXHIBITS:

Exhibit "A" – August 12, 2024 Minutes

Note: This page is intentionally left blank.

EXHIBIT “A”

MINUTES OF REGULAR MEETING – AUGUST 12, 2024

The regular meeting of the Board of Directors of the Irvine Ranch Water District (IRWD) was called to order by President Reinhart at 5:00 p.m. on August 12, 2024 at the District offices, 15600 Sand Canyon Avenue, Irvine.

Directors Present: McLaughlin, Withers, Swan, LaMar, and President Reinhart.

Directors Absent: None.

Oral and Written Communications: None.

Items too late to be agendized: None.

Also Present: General Manager Cook, Executive Director of Technical Services Burton, Executive Director of Operations Chambers, Executive Director of Finance Adly, Executive Director of Water Policy Weghorst, Director of Human Resources Mitcham, Director of Maintenance Manning, Recycling Operations Zepeda, Director of Water Resources Sanchez, Director of Information Technology Kaneshiro, Director of Water Quality and Regulatory Compliance Colston, Director of Strategic Communications and Advocacy/Deputy General Counsel Compton, Director of Financial Planning and Data Analytics Smithson, Water Efficiency Manager McNulty, and General Counsel Collins, Secretary Swan, Consultant Newell, and members of the staff and public.

CONSENT CALENDAR

Item 9 was moved to the Action Calendar at the request of President Reinhart. Prior to voting on the Consent Calendar, General Counsel Collins announced a minor title change on Exhibit “C” of agenda item 8 was requested by the City of Irvine. This desired change would not affect the content of the report or agreement, it would simply change a portion of title on the reimbursement agreement between IRWD and the City of Irvine from “Annual Street Rehabilitation and Slurry Seal” to “On-call Street Rehabilitation and Slurry Seal Contract”. On MOTION by Withers, seconded by LaMar and unanimously carried, CONSENT CALENDAR ITEMS 5 THROUGH 8 AND 10 WERE APPROVED AS FOLLOWS:

4. BOARD MEETING MINUTES

Recommendation: That the minutes of the July 22, 2024 Regular Board meeting be approved as presented.

5. 2024 LEGISLATIVE AND REGULATORY UPDATE

Recommendation: Receive and file.

CONSENT CALENDAR (CONTINUED)

6. RENEWAL OF GROUP MEDICAL, DENTAL, VISION, AND ANCILLARY PLAN SERVICES FOR CALENDAR YEAR 2025

Recommendation: That the Board authorizes the continuation of IRWD's health insurance coverage with CalPERS with changes in District and employee contribution rates as outlined, authorize the continuation of the District's dental insurance coverage with Delta Dental, authorize the continuation of the District's vision insurance coverage with EyeMed, authorize the renewal of the District's Employee Assistance Program with REACH, authorize the term life, accidental death and dismemberment, long-term disability and employee assistance program coverage with Reliance Standard, and contract with Inspira Financial to administer the Flexible Spending Account, Lifestyle Savings Account, Health Reimbursement Arrangement, COBRA, and Commuter Benefits

7. ORANGE HEIGHTS SUPPLEMENTAL REIMBURSEMENT AGREEMENT

Recommendation: That the Board authorize the General Manager to execute a supplemental Reimbursement Agreement with Irvine Community Development Company, LLC for the Orange Heights Capital Facilities.

8. REIMBURSEMENT AGREEMENT BETWEEN IRWD AND THE CITY OF IRVINE FOR THE FISCAL YEARS 2024-25 AND 2025-26 ANNUAL STREET REHABILITATION AND SLURRY SEAL PROJECT

Recommendation: That the Board authorize the General Manager to execute the Reimbursement Agreement (On-call Street Rehabilitation and Slurry Seal Contract) between IRWD and the City of Irvine for adjustment of street utilities to grade for the Fiscal Years 2024-25 and 2025-26 Annual Street Rehabilitation and Slurry Seal Project, subject to non-substantive changes.

10. UTILITY BILL PRINTING, MAILING, AND ELECTRONIC BILL PRESENTMENT SERVICES CONTRACT

Recommendation: That the Board approve a two-year renewal period effective August 16, 2024, through August 15, 2026, with Infosend, Inc. for utility bill printing, mailing, and electronic bill presentment services, totaling approximately \$1,400,000.

ACTION CALENDAR

9. SAN JOAQUIN RESERVOIR VALVE ACTUATOR PURCHASE AND BUDGET ADDITION

President Reinhart questioned the limited lifespan of the valve actuators. Executive Director of Technical Services Burton confirmed that the new actuators maintain a high-quality reputation in the water industry.

ACTION CALENDAR (CONTINUED)

On MOTION by LaMar, seconded by Swan, and carried unanimously, THE BOARD AUTHORIZED THE GENERAL MANAGER TO APPROVE A CONTRACT WITH SOUTHWEST VALVE & EQUIPMENT IN THE AMOUNT OF \$366,427 FOR THE PURCHASE OF REPLACEMENT VALVE ACTUATORS AND AUTHORIZED THE ADDITION OF THE SAN JOAQUIN RESERVOIR ACTUATOR REPLACEMENT, PROJECT 13111, IN THE AMOUNT OF \$982,300 TO THE FY 2024-25 CAPITAL BUDGET.

11. ADVANCED METERING INFRASTRUCTURE AND METER REPLACEMENT FEASIBILITY STUDY

Using PowerPoint, Water Efficiency Manager McNulty presented an overview of the Advanced Metering Infrastructure (AMI) and Meter Replacement Feasibility Study. She explained how AMI aligns with six of the District's target activities. Providing a thorough history of AMI, benefits associated with AMI systems, the study, and next steps, Water Efficiency Manager McNulty fielded questions from the Board. Director McLaughlin provided an Engineering and Operations' Committee Report, and the Committee supports the staff recommendation. The Board expressed interest in exploring the next steps of the AMI data communications technology assessment, implementation plan, and associated recommendations.

On MOTION by McLaughlin, seconded by Withers, and carried unanimously, THE BOARD APPROVED BUDGET INCREASES TO THE AMI IMPLEMENTATION FOR THE DOMESTIC AND RECYCLED SYSTEMS PROJECTS 12514 AND 12515 IN THE AMOUNT OF \$125,000 EACH, FOR A COMBINED AMOUNT OF \$250,000, TO THE FISCAL YEAR 2024-25 CAPITAL BUDGET TO BE USED IN DEVELOPING A DETAILED AMI IMPLEMENTATION PLAN.

OTHER BUSINESS

12. General Manager's Report

General Manager Cook stated that he did not have a report for the evening.

13. Receive oral update(s) from District liaison(s) regarding communities within IRWD's service area and interests.

Consultant Newell reported that the Canyons are doing well; IRWD is present due to the work being done on the reservoir; and he's looking forward to IRWD's participation in their annual community meeting

14. Directors' Comments and Meeting Reports

Director McLaughlin reported on her attendance at the WACO monthly meeting via teleconference.

Director Withers reported on his participation at the ISDOC Quarterly Luncheon; the Southern California Water Coalition's Quarterly Luncheon in Downey; the monthly WACO Meeting via teleconference; the monthly ISDOC Executive Committee meeting via teleconference; and the MWDOC Board Workshop with MWD Directors: "*A Presentation on the Delta Conveyance Project Benefits & Costs*" via teleconference.

OTHER BUSINESS (CONTINUED)

14. Directors' Comments and Meeting Reports (Continued)

Director Swan reported on his participation in the Quarterly MWDOC / OCWD Joint Planning Committee Meeting; his attendance at the CASA Annual Conference in Monterey; the monthly WACO Meeting via teleconference; the MWDOC Planning and Operations / Administration and Finance Combined Committee Meeting via teleconference; and the MWDOC Board Workshop with MWD Directors: "A Presentation on the Delta Conveyance Project Benefits & Costs" via teleconference.

Director LaMar reported on his participation at the South Orange County Agencies' Group Meeting; the Southern California Water Coalition's Board meeting in Downey; the Southern California Water Coalition's Quarterly Luncheon in Downey; the monthly WACO Meeting via teleconference; the Forecast Informed Reservoir Operations Colloquium in La Jolla; and the MWDOC Board Workshop with MWD Directors: "A Presentation on the Delta Conveyance Project Benefits & Costs" via teleconference.

President Reinhart reported on his participation in the Quarterly MWDOC / OCWD Joint Planning Committee Meeting; the South Orange County Agencies' Group Meeting; the Southern California Water Coalition's Quarterly Luncheon in Downey; the monthly WACO Meeting via teleconference; the MWDOC Planning and Operations / Administration and Finance Combined Committee Meeting via teleconference; the MWDOC Board Workshop with MWD Directors: "A Presentation on the Delta Conveyance Project Benefits & Costs" via teleconference; the OCWD Board meeting via teleconference; and the OCWD Communications and Legislative Liaison Committee meeting via teleconference.

15. CLOSED SESSION

President Reinhart convened the meeting into Closed Session at 5:58 p.m. and General Legal Counsel Collins announcing the following:

A. CONFERENCE WITH REAL PROPERTY NEGOTIATORS – Pursuant to California Government Code Section 54956.8:

Property: APNs 839-150-002, 839-150-001, 821-160-010, 821-160-001, 815-180-018, 827-120-010-3, 827-130-005-0, 827-140-001-7, 830-050-004, 830-050-008, 830-050-010, 827-040-005, 827-040-004, 827-072-001, 827-072-002, 827-072-003, 827-072-004, 827-072-005, 827-072-010, 827-120-002-6, 827-120-001-5, 827-040-006-3, 827-040-003-0, 827-050-003-1, 827-050-007, 827-050-005, 827-050-001-9, 827-050-002-0, 827-120-003-7, 827-120-004-8, 827-120-007-1, 827-120-006-0, 827-120-005-9, 827-120-008-2, 827-120-009-3, 827-120-011-4, 827-130-012-6, 827-030-003-9, 827-030-003, 827-020-004-9, 827-020-018, 827-020-018-2, 827-020-002, 827-020-001, 827-020-003, 815-180-011, 815-180-006, 815-180-003, 827-040-001-8, 830-030-004

Agency Negotiators: Paul Cook, Paul Weghorst

Negotiating Parties: E&S Farming, Poole Farming, Red River Farms, Van Dyke Farms

Under Negotiation: Price and Terms of Payment

OTHER BUSINESS (CONTINUED)

16. OPEN SESSION

Following the Closed Session, the meeting was reconvened in Open Session with Directors Withers, Swan, McLaughlin, LaMar, and President Reinhart present. General Counsel Collins announced that there was no action to report.

17. Adjournment

There being no further business, President Reinhart adjourned the meeting at 6:08 p.m.

APPROVED and SIGNED this 26th day of August 2024.


President, IRVINE RANCH WATER DISTRICT

Secretary, IRVINE RANCH WATER DISTRICT

APPROVED AS TO FORM:

Claire Hervey Collins, General Counsel
Hanson Bridgett LLP

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August 26, 2024
Prepared by: O. Mendoza / J. Davis
Submitted by: N. Adly
Approved by: Paul A. Cook 

CONSENT CALENDAR

JULY 2024 TREASURY REPORT

SUMMARY:

The following is submitted for the Board's information and approval:

- A. The July 2024 Investment Summary Report. This Investment Summary Report conforms with the 2024 Investment Policy and provides sufficient liquidity to meet estimated expenditures during the next six months as outlined in Exhibit "A";
- B. The Summary of Fixed and Variable Rate Debt as of July 31, 2024, as outlined in Exhibit "B";
- C. The Monthly Interest Rate Swap Summary as of July 31, 2024, as outlined in Exhibit "C";
- D. The July 31, 2024, Disbursement Summary of warrants 443804 through 444221, Workers' Compensation distributions, ACH payments, virtual card payments, wire transfers, payroll withholding distributions, and voided checks in the total amount of \$50,988,142 as outlined in Exhibit "D";
- E. The Summary of Payroll ACH payments in the total amount of \$2,505,929 as outlined in Exhibit "E"; and
- F. The Disclosure Report of Reimbursements to Board members and staff for July 2024, detailing payments or reimbursements for individual charges of \$100 or more per transaction as outlined in Exhibit "F".

FISCAL IMPACTS:

As of July 31, 2024, the book value of the investment portfolio was \$379,786,926, with a 4.53% rate of return and a market value of \$379,883,723. Based on IRWD's June 30, 2024, quarterly real estate annualized investment rate of return of 14.63%, the weighted average return for the fixed income and real estate investments was 6.66%.

As of July 31, 2024, the outstanding principal amount of fixed and variable rate debt was \$583,895,000. The monthly weighted average all-in variable rate was 2.94%. Including IRWD's weighted average fixed rate bond issues of 3.73% and the negative cash accruals from fixed payer interest rate swaps, which hedge a portion of the District's variable rate debt, the total average debt rate was 3.45%.

Payroll ACH payments totaled \$2,505,929. Wire transfers, other ACH payments, and checks issued for debt service, accounts payable, payroll, water purchases, and voided checks for July totaled \$50,988,142.

ENVIRONMENTAL COMPLIANCE:

This item is not a project as defined in the California Environmental Quality Act Code of Regulations, Title 14, Chapter 3, Section 15378.

COMMITTEE STATUS:

All items in this report were not submitted to a Committee; the investment and debt reports are submitted to the Finance and Personnel Committee monthly.

RECOMMENDATION:

THAT THE BOARD RECEIVE AND FILE THE TREASURER'S INVESTMENT SUMMARY REPORT, THE SUMMARY OF FIXED AND VARIABLE RATE DEBT, AND THE DISCLOSURE REPORT OF REIMBURSEMENTS TO BOARD MEMBERS AND STAFF, APPROVE THE JULY 2024 SUMMARY OF PAYROLL ACH PAYMENTS IN THE TOTAL AMOUNT OF \$2,505,929, AND APPROVE THE JULY 2024 ACCOUNTS PAYABLE DISBURSEMENT SUMMARY OF WARRANTS 443804 THROUGH 444221, WORKERS' COMPENSATION DISTRIBUTIONS, ACH PAYMENTS, VIRTUAL CARD PAYMENTS, WIRE TRANSFERS, PAYROLL WITHHOLDING DISTRIBUTIONS, AND VOIDED CHECKS IN THE TOTAL AMOUNT OF \$50,988,142.

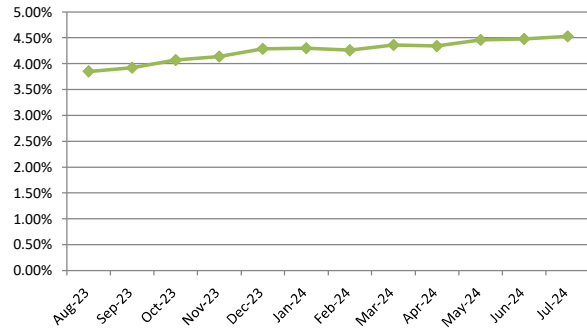
LIST OF EXHIBITS:

- Exhibit "A" – Investment Summary Report
- Exhibit "B" – Summary of Fixed and Variable Debt
- Exhibit "C" – Monthly Interest Rate Swap Summary
- Exhibit "D" – Monthly Summary of District Disbursements
- Exhibit "E" – Monthly Payroll ACH Summary
- Exhibit "F" – Disclosure of Reimbursements to Board Members and Staff

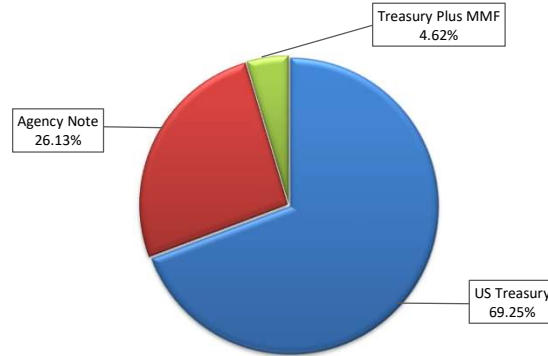
Exhibit "A"

Irvine Ranch Water District Investment Portfolio Summary July 2024

Monthly Fixed Income Yield



Portfolio Distribution



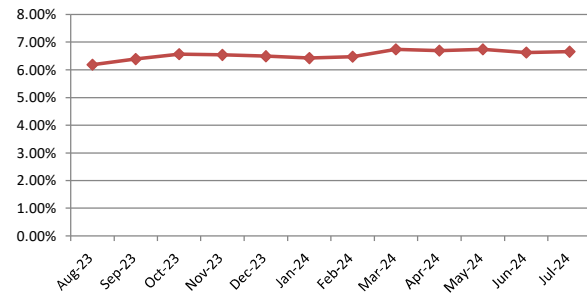
Investment Summary

Type	PAR	Book Value	Market Value
US Treasury	265,000,000	262,709,606	263,174,709
Agency Note	100,000,000	99,387,156	99,018,850
Treasury Plus MMF	17,690,164	17,690,164	17,690,164
Grand Total	382,690,164	379,786,926	379,883,723

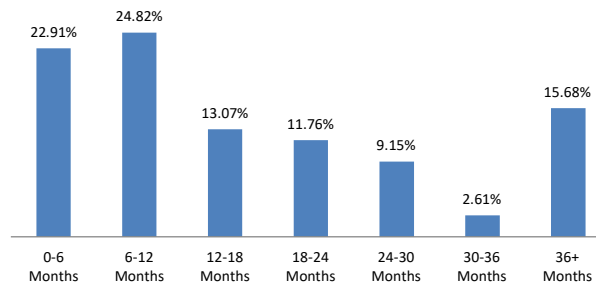
Top Issuers

Issuer	PAR	% Portfolio
US Treasury	265,000,000	69.25%
Fed Farm Credit Bank	55,000,000	14.37%
Fed Home Loan Bank	30,000,000	7.84%
Wells Fargo / Allspring	17,690,164	4.62%
Fed Home Loan Mortgage Corp	15,000,000	3.92%
Grand Total	382,690,164	100.00%

Weighted Average Return Including Real Estate Portfolio



Maturity Distribution



IRVINE RANCH WATER DISTRICT
INVESTMENT SUMMARY REPORT

07/31/24

SETTLMT	Call Schedule	Initial Call	Maturity Date	Rating	INVESTMENT TYPE	INSTITUTION / ISSUER	PAR Amount	COUPON DISCOUNT	YIELD	ORIGINAL COST	CARRY VALUE	MARKET VALUE ⁽¹⁾ 7/31/2024	UNREALIZED ⁽²⁾ GAIN/(LOSS)
04/06/23			08/01/24		LAIF	State of California Tsy.	\$0.00		4.590%	\$0.00	\$0.00	0.00	0.00
07/31/24			08/01/24		Treasury Plus MMF	Wells Fargo / Allspring	17,690,163.81		5.183%	17,690,163.81	17,690,163.81	17,690,163.81	0.00
05/22/24	NA	NA	08/15/24	Aaa/AA+/AA+	Treasury - Note	US Treasury	5,000,000	0.375%	5.264%	4,943,554.69	4,990,703.13	4,990,350.00	(353.13)
08/31/22	NA	NA	08/26/24	Aaa/AA+/NR	FFCB - Note	Fed Farm Credit Bank	5,000,000	3.375%	3.500%	4,988,050.00	4,999,588.50	4,992,550.00	(7,038.50)
S 09/09/22	One Time	11/28/2022	08/28/24	Aaa/AA+/NR	FHLB - Note	Fed Home Loan Bank	5,000,000	4.000%	3.950%	4,995,000.00	4,999,812.24	4,994,900.00	(4,912.24)
02/28/23	One Time	8/28/2023	08/28/24	Aaa/AA+/NR	FHLB - Note	Fed Home Loan Bank	5,000,000	5.250%	5.338%	4,993,750.00	4,999,691.50	4,999,300.00	(391.50)
08/31/22	NA	NA	09/13/24	Aaa/AA+/NR	FHLB - Note	Fed Home Loan Bank	5,000,000	3.250%	3.530%	4,972,750.00	5,020,638.44	4,986,950.00	(33,688.44)
09/30/22	NA	NA	09/13/24	Aaa/AA+/NR	FHLB - Note	Fed Home Loan Bank	5,000,000	3.250%	4.340%	4,898,930.00	4,993,913.15	4,986,950.00	(6,963.15)
09/30/22	NA	NA	09/26/24	Aaa/AA+/NR	FFCB - Note	Fed Farm Credit Bank	5,000,000	4.250%	4.334%	4,992,100.00	4,999,391.47	4,990,200.00	(9,191.47)
10/17/22	NA	NA	10/17/24	Aaa/AA+/NR	FFCB - Note	Fed Farm Credit Bank	10,000,000	4.375%	4.535%	9,969,800.00	9,996,818.88	9,976,300.00	(20,518.88)
03/14/24	NA	NA	10/31/24	Aaa/AA+/AA+	Treasury - Note	US Treasury	5,000,000	2.250%	5.257%	4,908,007.81	4,963,760.65	4,962,450.00	(1,310.65)
10/31/22	NA	NA	11/15/24	Aaa/AA+/AA+	Treasury - Note	US Treasury	5,000,000	2.250%	4.489%	4,783,984.38	4,969,306.09	4,956,550.00	(12,756.09)
12/22/22	NA	NA	11/18/24	Aaa/AA+/AAA	FFCB - Note	Fed Farm Credit Bank	5,000,000	0.875%	4.260%	4,693,316.75	4,952,039.49	4,934,150.00	(17,889.49)
10/31/22	NA	NA	12/31/24	Aaa/AA+/AA+	Treasury - Note	US Treasury	5,000,000	2.250%	4.471%	4,773,046.88	4,956,443.34	4,940,500.00	(15,943.34)
10/31/22	NA	NA	12/31/24	Aaa/AA+/AA+	Treasury - Note	US Treasury	5,000,000	2.250%	4.483%	4,771,875.00	4,956,218.43	4,940,500.00	(15,718.43)
10/31/22	NA	NA	01/15/25	Aaa/AA+/AA+	Treasury - Note	US Treasury	5,000,000	1.125%	4.476%	4,651,562.50	4,927,894.59	4,910,300.00	(17,594.59)
10/31/22	NA	NA	01/31/25	Aaa/AA+/AA+	Treasury - Note	US Treasury	5,000,000	2.500%	4.483%	4,789,843.75	4,956,510.42	4,936,050.00	(20,460.42)
11/30/23	NA	NA	01/31/25	Aaa/AA+/AA+	Treasury - Note	US Treasury	10,000,000	2.500%	5.097%	9,708,593.75	9,875,403.40	9,872,100.00	(3,303.40)
02/07/23	NA	NA	02/14/25	Aaa/AA+/AAA	FFCB - Note	Fed Farm Credit Bank	5,000,000	1.750%	4.500%	4,737,350.00	4,929,888.82	4,916,850.00	(13,038.82)
12/30/22	NA	NA	02/28/25	Aaa/AA+/AA+	Treasury - Note	US Treasury	5,000,000	2.750%	4.317%	4,839,453.13	4,957,173.97	4,934,450.00	(22,723.97)
02/07/23	NA	NA	03/14/25	Aaa/AA+/NR	FHLB - Note	Fed Home Loan Bank	5,000,000	4.250%	4.518%	4,973,050.00	4,992,083.88	4,980,200.00	(11,883.88)
12/30/22	NA	NA	03/15/25	Aaa/AA+/AA+	Treasury - Note	US Treasury	5,000,000	1.750%	4.329%	4,731,250.00	4,924,643.30	4,901,950.00	(22,693.30)
04/12/23	NA	NA	03/31/25	Aaa/AA+/AA+	Treasury - Note	US Treasury	20,000,000	3.875%	4.073%	19,925,781.25	19,975,019.56	19,857,800.00	(117,219.56)
12/22/22	NA	NA	04/01/25	Aaa/AA+/AAA	FHLB - Note	Fed Home Loan Bank	5,000,000	4.200%	4.160%	5,004,550.00	5,001,330.51	4,977,050.00	(24,280.51)
04/18/24	NA	NA	04/15/25	Aaa/AA+/AA+	Treasury - Note	US Treasury	10,000,000	2.625%	5.163%	9,757,617.18	9,827,921.59	9,837,109.40	9,187.81
12/08/22	Quarterly	02/12/2023	05/12/25	Aaa/AA+/AAA	FHLMC - Note	Fed Home Loan Mortgage Corp	5,000,000	3.050%	4.427%	4,843,000.00	4,949,674.94	4,921,750.00	(27,924.94)
01/11/23	NA	NA	05/15/25	Aaa/AA+/AA+	Treasury - Note	US Treasury	5,000,000	2.750%	4.148%	4,845,312.50	4,948,075.66	4,917,100.00	(30,975.66)
12/13/22	NA	NA	06/13/25	Aaa/AA+/AAA	FFCB - Note	Fed Farm Credit Bank	5,000,000	4.250%	4.340%	4,989,400.00	4,996,331.22	4,970,700.00	(25,631.22)
12/13/22	NA	NA	06/13/25	Aaa/AA+/AAA	FFCB - Note	Fed Farm Credit Bank	5,000,000	4.250%	4.352%	4,988,000.00	4,995,846.66	4,970,700.00	(25,146.66)
08/01/23	NA	NA	07/15/25	Aaa/AA+/AA+	Treasury - Note	US Treasury	10,000,000	3.000%	4.917%	9,646,875.00	9,827,888.66	9,833,000.00	5,111.34
04/24/23	NA	NA	07/24/25	Aaa/AA+/AAA	FFCB - Note	Fed Farm Credit Bank	10,000,000	4.250%	4.253%	10,000,000.00	10,000,000.00	9,946,500.00	(53,500.00)
04/21/23	NA	NA	09/23/25	Aaa/AA+/AAA	FHLMC - Note	Fed Home Loan Mortgage Corp	10,000,000	0.375%	4.127%	9,143,400.00	9,595,870.43	9,518,600.00	(77,270.43)
12/01/22	NA	NA	10/15/25	Aaa/AA+/AA+	Treasury - Note	US Treasury	5,000,000	4.250%	4.298%	4,993,359.38	4,997,214.61	4,975,800.00	(21,414.61)
12/01/23	NA	NA	11/15/25	Aaa/AA+/AA+	Treasury - Note	US Treasury	10,000,000	2.250%	4.719%	9,543,750.00	9,699,449.30	9,705,500.00	6,050.70
12/01/22	Continuous after	9/12/2023	12/12/25	Aaa/AA+/AAA	FFCB - Note	Fed Farm Credit Bank	5,000,000	4.125%	4.694%	4,920,500.00	4,964,235.77	4,955,200.00	(9,035.77)

IRVINE RANCH WATER DISTRICT
INVESTMENT SUMMARY REPORT

07/31/24

SETTLMT	Call Schedule	Initial Call	Maturity Date	Rating	INVESTMENT TYPE	INSTITUTION / ISSUER	PAR Amount	COUPON DISCOUNT	YIELD	ORIGINAL COST	CARRY VALUE	MARKET VALUE ⁽¹⁾ 7/31/2024	UNREALIZED ⁽²⁾ GAIN/(LOSS)
04/18/24	NA	NA	01/15/26	Aaa/AA+/AA+	Treasury - Note	US Treasury	10,000,000	3.875%	5.033%	9,808,593.75	9,840,144.23	9,903,100.00	62,955.77
02/21/24	NA	NA	02/15/26	Aaa/AA+/AA+	Treasury - Note	US Treasury	15,000,000	4.000%	4.553%	14,844,140.63	14,878,967.14	14,883,450.00	4,482.86
04/30/24	NA	NA	03/31/26	Aaa/AA+/AA+	Treasury - Note	US Treasury	5,000,000	4.500%	5.017%	4,953,125.00	4,959,352.68	5,001,550.00	42,197.32
07/06/23	NA	NA	06/15/26	Aaa/AA+/AA+	Treasury - Note	US Treasury	15,000,000	4.125%	4.566%	14,819,531.25	14,885,339.39	14,929,650.00	44,310.61
06/03/24	NA	NA	07/15/26	Aaa/AA+/AA+	Treasury - Note	US Treasury	5,000,000	4.500%	4.843%	4,965,625.00	4,968,252.10	5,012,500.00	44,247.90
09/27/23	NA	NA	09/15/26	Aaa/AA+/AA+	Treasury - Note	US Treasury	10,000,000	4.625%	4.846%	9,939,453.13	9,956,712.34	10,060,600.00	103,887.66
11/03/23	NA	NA	10/15/26	Aaa/AA+/AA+	Treasury - Note	US Treasury	10,000,000	4.625%	4.784%	9,956,640.63	9,967,591.19	10,067,200.00	99,608.81
12/28/23	NA	NA	12/15/26	Aaa/AA+/AA+	Treasury - Note	US Treasury	10,000,000	4.375%	4.020%	10,098,046.88	10,078,401.29	10,025,400.00	(53,001.29)
01/31/24	NA	NA	01/15/27	Aaa/AA+/AA+	Treasury - Note	US Treasury	10,000,000	4.000%	4.171%	9,952,734.38	9,960,743.28	9,943,400.00	(17,343.28)
03/11/24	NA	NA	09/30/27	Aaa/AA+/AA+	Treasury - Note	US Treasury	10,000,000	4.125%	4.195%	9,976,953.13	9,979,492.19	10,003,500.00	24,007.81
05/24/24	NA	NA	01/31/28	Aaa/AA+/AA+	Treasury - Note	US Treasury	10,000,000	3.500%	4.621%	9,623,437.50	9,642,726.89	9,808,200.00	165,473.11
07/18/24	NA	NA	04/30/28	Aaa/AA+/AA+	Treasury - Note	US Treasury	5,000,000	1.250%	4.152%	4,496,484.38	4,501,585.12	4,512,700.00	11,114.88
06/27/24	NA	NA	07/31/28	Aaa/AA+/AA+	Treasury - Note	US Treasury	10,000,000	4.125%	4.394%	9,900,000.00	9,902,341.14	10,025,000.00	122,658.86
11/28/23	NA	NA	10/31/28	Aaa/AA+/AA+	Treasury - Note	US Treasury	10,000,000	4.875%	4.464%	10,179,687.50	10,155,016.68	10,321,900.00	166,883.32
12/15/23	NA	NA	11/30/28	Aaa/AA+/AA+	Treasury - Note	US Treasury	15,000,000	4.375%	3.897%	15,319,921.88	15,279,313.69	15,205,050.00	(74,263.69)
SUB-TOTAL							<u>\$382,690,164</u>			<u>\$376,241,352.80</u>	<u>\$379,786,925.75</u>	<u>\$379,883,723.21</u>	<u>\$96,797.46</u>
TOTAL INVESTMENTS							<u>\$382,690,164</u>			<u>\$376,241,352.80</u>	<u>\$379,786,925.75</u>	<u>\$379,883,723.21</u>	<u>\$96,797.46</u>

Petty Cash			3,400.00
Ck Balance	Bank of America	ECR 1.77%	1,363,923.28
Ck Balance	Wells Fargo	ECR 2.00%	(5)
			<u>\$377,608,676.08</u>

<p>⁽¹⁾ LAIF market value is as of the most recent quarter-end as reported by LAIF. Security market values are determined using Bank of New York ("Trading Prices"), Bloomberg and/or broker dealer pricing.</p> <p>⁽²⁾ Gain (loss) calculated against carry value using the trading value provided by Bank of New York/or Brokers</p> <p>⁽³⁾ Real estate rate of return is based on most recent quarter end return.</p> <p>⁽⁴⁾ Original Cost updated to reflect capital tenant improvements added for Fiscal Year 2023. of capital tenant improvements during FY 2023.</p> <p>⁽⁵⁾ Cash balance in this account are funds that are pending purchase into the current money market fund.</p> <p>*S - Step up</p> <p>This Investment Summary Report is in conformity with the 2024 Investment Policy and provides sufficient liquidity to meet the next six months estimated expenditures.</p>	<p>Outstanding Variable Rate Debt \$210,800,000</p> <p>Net Outstanding Variable Rate Debt (Less \$60 million fixed-payer swaps) \$150,800,000</p> <p>Investment Balance: \$377,608,676</p> <p>Investment to Variable Rate Debt Ratio: 250%</p> <p>Portfolio - Average Number of Days To Maturity 516</p>																
	<table border="1"> <thead> <tr> <th></th> <th>Investment Portfolio</th> <th>Real Estate⁽³⁾⁽⁴⁾ Portfolio</th> <th>Weighted Avg. Return</th> </tr> </thead> <tbody> <tr> <td>July</td> <td>4.53%</td> <td>14.63%</td> <td>6.66%</td> </tr> <tr> <td>June</td> <td>4.48%</td> <td>14.63%</td> <td>6.62%</td> </tr> <tr> <td>Change</td> <td>0.05%</td> <td>0.00%</td> <td>0.04%</td> </tr> </tbody> </table>		Investment Portfolio	Real Estate ⁽³⁾⁽⁴⁾ Portfolio	Weighted Avg. Return	July	4.53%	14.63%	6.66%	June	4.48%	14.63%	6.62%	Change	0.05%	0.00%	0.04%
		Investment Portfolio	Real Estate ⁽³⁾⁽⁴⁾ Portfolio	Weighted Avg. Return													
	July	4.53%	14.63%	6.66%													
June	4.48%	14.63%	6.62%														
Change	0.05%	0.00%	0.04%														

IRVINE RANCH WATER DISTRICT
SUMMARY OF MATURITIES

07/31/24

DATE	TOTAL	%	LAIF	Agency Notes	Agency Discount Notes	Municipal Bonds	US Treasury	Investment Sweep
7/24	17,690,164	4.62%						17,690,164
8/24	20,000,000	5.23%		15,000,000			5,000,000	
9/24	15,000,000	3.92%		15,000,000				
10/24	15,000,000	3.92%		10,000,000			5,000,000	
11/24	10,000,000	2.61%		5,000,000			5,000,000	
12/24	10,000,000	2.61%					10,000,000	
1/25	20,000,000	5.23%					20,000,000	
2/25	10,000,000	2.61%		5,000,000			5,000,000	
3/25	30,000,000	7.84%		5,000,000			25,000,000	
4/25	15,000,000	3.92%		5,000,000			10,000,000	
5/25	10,000,000	2.61%		5,000,000			5,000,000	
6/25	10,000,000	2.61%		10,000,000				
SUB-TOTAL	\$182,690,164	47.74%		\$75,000,000			\$90,000,000	\$17,690,164

13 MONTHS - 3+ YEARS								
7/01/2025 - 09/30/2025	\$30,000,000	7.84%		20,000,000			10,000,000	
10/01/2025 - 12/31/2025	\$20,000,000	5.23%		5,000,000			15,000,000	
01/01/2026 - 03/31/2026	\$30,000,000	7.84%					30,000,000	
04/01/2026 - 6/30/2026	\$15,000,000	3.92%					15,000,000	
7/01/2026 - 09/30/2026	\$15,000,000	3.92%					15,000,000	
10/01/2026 - 12/31/2026	\$20,000,000	5.23%					20,000,000	
01/01/2027 - 03/31/2027	\$10,000,000	2.61%					10,000,000	
04/01/2027 - 6/30/2027								
07/01/2027 - 9/30/2027	\$10,000,000	2.61%					10,000,000	
10/01/2027 - 12/31/2027								
01/01/2028 - 03/31/2028	\$10,000,000	2.61%					10,000,000	
4/01/2028 +	\$40,000,000	10.45%					40,000,000	
SUB-TOTAL	\$200,000,000	52.26%		\$25,000,000			\$175,000,000	
TOTALS	\$382,690,164	100.00%		\$100,000,000			\$265,000,000	\$17,690,164

% OF PORTFOLIO

26.13%

69.25%

4.62%

Irvine Ranch Water District
 Summary of Real Estate - Income Producing Investments
 6/30/2024

	ACQUISITION DATE	PROPERTY TYPE	OWNERSHIP INTEREST	ORIGINAL COST	MARKET VALUE 6/30/2024	ANNUALIZED RATE OF RETURN QUARTER ENDED 6/30/2024
Sycamore Canyon	Dec-92	Apartments	Fee Simple	\$ 45,457,369	\$ 220,000,000	23.58%
Wood Canyon Villas	Jun-91	Apartments	Limited Partner	\$ 6,000,000	\$ 38,420,894	8.57%
ITC (230 Commerce)	Jul-03	Office Building	Fee Simple	\$ 5,568,747	\$ 10,000,000	11.04%
Waterworks Business Pk.	Nov-08	Research & Dev.	Fee Simple	\$ 8,983,395	\$ 13,500,000	7.46%
Sand Canyon Professional Center - Medical Office	Jul-12	Medical Office	Fee Simple	\$ 8,715,929	\$ 12,000,000	8.03%
Sand Canyon Professional Center - General Office ⁽¹⁾	Sep-20	Office Building	Fee Simple	\$ 31,404,103	\$ 32,000,000	7.35%
Total - Income Properties				\$ 106,129,543	\$ 325,920,894	14.63%

(1) Original Cost updated to reflect capital tenant improvements added for Fiscal Year 2023.

IRVINE RANCH WATER DISTRICT INVESTMENT SUMMARY REPORT
INVESTMENT ACTIVITY⁽¹⁾
Jul-24

MATURITIES/SALES/CALLS

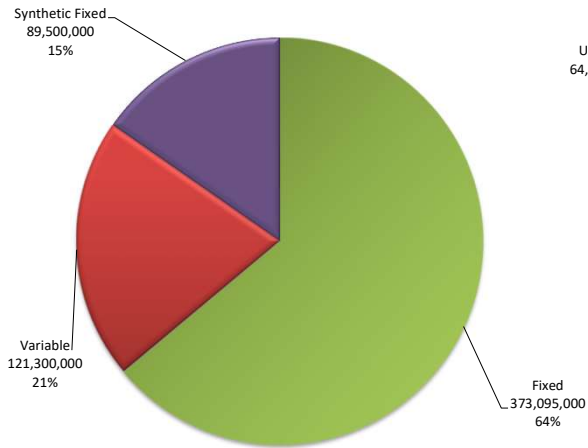
PURCHASES

DATE	SECURITY TYPE	PAR	YIELD	Settlement Date	Maturity Date	SECURITY TYPE	PAR	YIELD TO MATURITY
7/2/2024	FNMA - Note	\$5,000,000	4.45%	7/18/2024	4/30/2028	Treasury - Note	\$5,000,000	4.15%
7/11/2024	Treasury - Bill	\$5,000,000	5.30%					
7/24/2024	FHLB - Discount Note	\$5,000,000	5.40%					
7/31/2024	Treasury - Note	\$5,000,000	3.25%					
7/31/2024	Treasury - Note	\$10,000,000	5.29%					

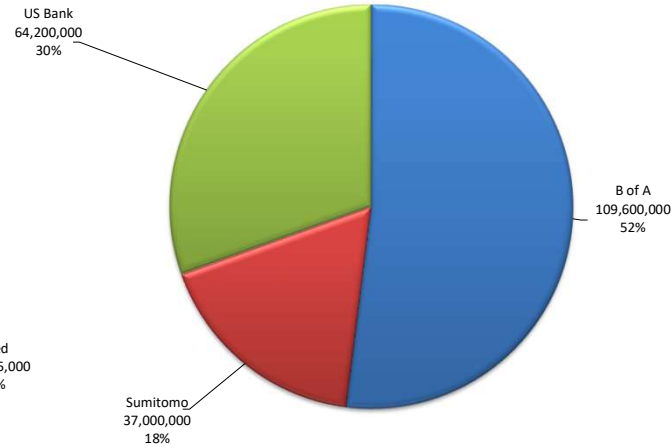
(1) Italicized entries indicate securities that are scheduled but not yet matured, sold, called, or purchased. There may be additional investment purchases if there are pending maturities for the month.

Exhibit "B"
Irvine Ranch Water District
Summary of Fixed and Variable Rate Debt
July 2024

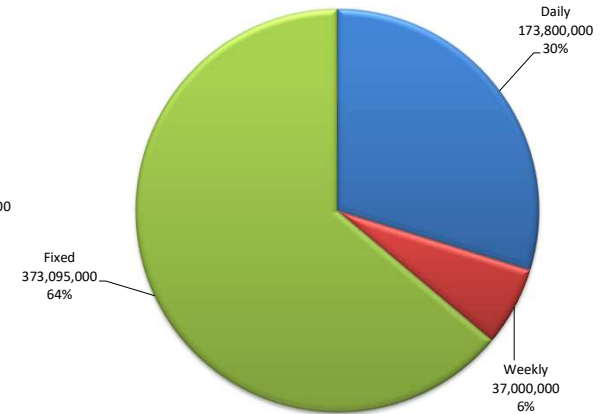
Current Debt Mix By Type



Letters of Credit / Support



Current Debt Rate Reset



Outstanding Par by Series

Series	Issue Date	Maturity Date	Remaining Principal	Percent	Letter of Credit/Support	Rmkt Agent	Mode	Reset
Series 1993	05/19/93	04/01/33	\$19,200,000	3.29%	US Bank	BAML	Variable	Daily
Series 2008-A Refunding	04/24/08	07/01/35	\$37,000,000	6.34%	Sumitomo	BAML	Variable	Weekly
Series 2011-A-1 Refunding	04/15/11	10/01/37	\$38,760,000	6.64%	B of A	Goldman	Variable	Daily
Series 2011-A-2 Refunding	04/15/11	10/01/37	\$25,840,000	4.43%	B of A	Goldman	Variable	Daily
Series 2009 - A	06/04/09	10/01/41	\$45,000,000	7.71%	US Bank	US Bank	Variable	Daily
Series 2009 - B	06/04/09	10/01/41	\$45,000,000	7.71%	B of A	Goldman	Variable	Daily
2016 COPS	09/01/16	03/01/46	\$101,490,000	17.38%	N/A	N/A	Fixed	Fixed
2010 Build America Taxable Bond	12/16/10	05/01/40	\$175,000,000	29.97%	N/A	N/A	Fixed	Fixed
Series 2016	10/12/16	02/01/46	\$96,605,000	16.54%	N/A	N/A	Fixed	Fixed
Total			\$583,895,000	100.00%				

IRVINE RANCH WATER DISTRICT
SUMMARY OF FIXED & VARIABLE RATE DEBT

July-24

Daily
Weekly

GENERAL BOND INFORMATION							LETTER OF CREDIT INFORMATION							TRUSTEE INFORMATION											
VARIABLE RATE ISSUES	Issue Date	Maturity Date	Principal Payment Date	Payment Date	Original Par Amount	Remaining Principal	Letter of Credit	Reimbursement Agreement Date	L/C Exp. Date	MOODY'S	S&P	FITCH	LOC Stated Amount	LOC Fee	Annual LOC Cost	Rmkt Agent	Reset	Rmkt Fees	Annual Cost	Trustee					
SERIES 1993	05/19/93	04/01/33	Apr 1	5th Bus. Day	\$38,300,000	\$19,200,000	US BANK	05/07/15	05/01/25	Aa3/VMIG1	AA-/A-1+	N/R	\$19,458,805	0.3000%	\$58,376	BAML	DAILY	0.10%	\$19,200	BANK OF NY					
SERIES 2008-A Refunding	04/24/08	07/01/35	Jul 1	5th Bus. Day	\$60,215,000	\$37,000,000	SUMITOMO	04/01/11	05/28/25	A1/P-1	A/A-1	A/F1	\$37,547,397	0.3150%	\$118,274	BAML	WED	0.07%	\$25,900	BANK OF NY					
SERIES 2011-A-1 Refunding	04/15/11	10/01/37	Oct 1	1st Bus. Day	\$60,545,000	\$38,760,000	B of A	02/01/24	02/08/27	Aa1/VMIG1	A+/A-1	AAA/F1+	\$39,193,262	0.3200%	\$125,418	Goldman	DAILY	0.07%	\$27,132	BANK OF NY					
SERIES 2011-A-2 Refunding	04/15/11	10/01/37	Oct 1	1st Bus. Day	\$40,370,000	\$25,840,000	B of A	02/01/24	02/08/27	Aa1/VMIG1	A+/A-1	AAA/F1+	\$26,128,842	0.3200%	\$83,612	Goldman	DAILY	0.07%	\$18,088	BANK OF NY					
SERIES 2009 - A	06/04/09	10/01/41	Oct 1	1st Bus. Day	\$75,000,000	\$45,000,000	US BANK	04/01/11	05/01/25	Aa2/VMIG1	AA-/A-1+	AA/F1+	\$45,503,014	0.3000%	\$136,509	US Bank	DAILY	0.07%	\$31,500	US BANK					
SERIES 2009 - B	06/04/09	10/01/41	Oct 1	1st Bus. Day	\$75,000,000	\$45,000,000	B of A	04/01/11	04/21/25	Aa2/VMIG1	A/A-1	A1/F1+	\$45,503,014	0.2800%	\$127,408	Goldman	DAILY	0.07%	\$31,500	US BANK					
\$349,430,000						\$210,800,000	SUB-TOTAL VARIABLE RATE DEBT							\$213,334,334			0.3045%		\$649,599		0.07%			\$153,320	
															(Wt. Avg)			(Wt. Avg)							

FIXED RATE ISSUES																					
2010 GO Build America Taxable Bonds	12/16/10	05/01/40	May (2025)	May/Nov	\$175,000,000	\$175,000,000	N/A	N/A	N/A	Aa1	AAA	NR	N/A	N/A	N/A	N/A	N/A	N/A	N/A	US BANK	
2016 COPS	09/01/16	03/01/46	Mar 1	Mar/Sept	\$116,745,000	\$101,490,000	N/A	N/A	N/A	NR	AAA	AAA	N/A	N/A	N/A	N/A	N/A	N/A	N/A	US BANK	
SERIES 2016	10/12/16	02/01/46	Feb 1	Feb/Aug	\$103,400,000	\$96,605,000	N/A	N/A	N/A	NR	AAA	AAA	N/A	N/A	N/A	N/A	N/A	N/A	N/A	BANK OF NY	
\$395,145,000						\$373,095,000	SUB-TOTAL FIXED RATE DEBT														
\$744,575,000						\$583,895,000	TOTAL - FIXED & VARIABLE RATE DEBT														

Remarketing Agents			GO VS COP'S		
Goldman	109,600,000	52%	GO:	482,405,000	83%
BAML	56,200,000	27%	COPS:	101,490,000	17%
US Bank	45,000,000	21%	Total	<u>583,895,000</u>	
	<u>210,800,000</u>				

LOC Banks			Breakdown Between Variable & Fixed Rate Mode		
SUMITOMO	37,000,000	18%	Daily Issues	173,800,000	30%
BANK OF AMERICA	109,600,000	52%	Weekly Issues	37,000,000	6%
US BANK	64,200,000	30%	Sub-Total	<u>210,800,000</u>	
	<u>210,800,000</u>		Fixed Rate Issues	\$373,095,000	64%
			Sub-Total - Fixed	<u>373,095,000</u>	
			TOTAL DEBT		
			FIXED & VAR.	<u>583,895,000</u>	100%

SUMMARY OF DEBT RATES

Jul-24

Rmkt Agent Mode	GOLDMAN DAILY	GOLDMAN DAILY	GOLDMAN DAILY	MERRILL LYNCH DAILY	MERRILL LYNCH WEEKLY	US BANK DAILY
Bond Issue	2009 - B	2011 A-1	2011 A-2	1993	2008-A	2009-A
Par Amount	45,000,000	38,760,000	25,840,000	19,200,000	37,000,000	45,000,000
LOC Bank Reset	BOFA	BOFA	BOFA	US BANK	Sumitomo Wednesday	US BANK
7/1/2024	3.40%	3.40%	3.40%	3.10%	3.14%	3.65%
7/2/2024	2.40%	2.40%	2.40%	2.50%	3.14%	2.60%
7/3/2024	2.45%	2.45%	2.45%	2.20%	3.14%	2.35%
7/4/2024	2.45%	2.45%	2.45%	2.20%	2.27%	2.35%
7/5/2024	2.10%	2.10%	2.10%	1.80%	2.27%	2.20%
7/6/2024	2.10%	2.10%	2.10%	1.80%	2.27%	2.20%
7/7/2024	2.10%	2.10%	2.10%	1.80%	2.27%	2.20%
7/8/2024	1.60%	1.60%	1.60%	1.45%	2.27%	1.75%
7/9/2024	1.75%	1.75%	1.75%	1.45%	2.27%	1.45%
7/10/2024	1.92%	1.92%	1.92%	1.85%	2.27%	1.75%
7/11/2024	2.25%	2.25%	2.25%	2.00%	1.85%	2.25%
7/12/2024	2.20%	2.20%	2.20%	2.10%	1.85%	2.30%
7/13/2024	2.20%	2.20%	2.20%	2.10%	1.85%	2.30%
7/14/2024	2.20%	2.20%	2.20%	2.10%	1.85%	2.30%
7/15/2024	1.90%	1.90%	1.90%	1.95%	1.85%	2.20%
7/16/2024	1.70%	1.70%	1.70%	1.70%	1.85%	1.95%
7/17/2024	1.70%	1.70%	1.70%	1.90%	1.85%	2.10%
7/18/2024	2.35%	2.35%	2.35%	2.30%	1.93%	2.30%
7/19/2024	2.50%	2.50%	2.50%	2.53%	1.93%	2.50%
7/20/2024	2.50%	2.50%	2.50%	2.53%	1.93%	2.50%
7/21/2024	2.50%	2.50%	2.50%	2.53%	1.93%	2.50%
7/22/2024	2.50%	2.50%	2.50%	2.65%	1.93%	2.65%
7/23/2024	2.95%	2.95%	2.95%	2.95%	1.93%	2.80%
7/24/2024	3.30%	3.30%	3.30%	3.25%	1.93%	3.25%
7/25/2024	3.40%	3.40%	3.40%	3.65%	2.90%	3.40%
7/26/2024	3.90%	3.90%	3.90%	3.75%	2.90%	3.75%
7/27/2024	3.90%	3.90%	3.90%	3.75%	2.90%	3.75%
7/28/2024	3.90%	3.90%	3.90%	3.75%	2.90%	3.75%
7/29/2024	3.80%	3.80%	3.80%	3.80%	2.90%	3.80%
7/30/2024	3.80%	3.80%	3.80%	3.75%	2.90%	3.80%
7/31/2024	3.15%	3.15%	3.15%	3.85%	2.90%	3.80%
Avg Interest Rates	2.61%	2.61%	2.61%	2.55%	2.32%	2.66%
Rmkt Fee	0.07%	0.07%	0.07%	0.10%	0.07%	0.07%
LOC Fee	0.28%	0.32%	0.32%	0.30%	0.32%	0.30%
All-In Rate	2.96%	3.00%	3.00%	2.95%	2.71%	3.03%
Par Amount		109,600,000		56,200,000		45,000,000

Interest Rate Mode	Percent of Total Variable Rate Debt	Par Outstanding	Weighted All-In Average Rate	Base Rate Average
Daily	82.45%	173,800,000	2.99%	2.62%
Weekly	17.55%	37,000,000	2.71%	2.32%
	100.00%	\$210,800,000	2.94%	2.56%
Fixed				
COPS 2016	27.20%	101,490,000	2.90%	
BABS 2010	46.90%	175,000,000	4.44%	(1)
SERIES 2016	25.89%	96,605,000	3.32%	
	100.00%	\$373,095,000	3.73%	
All-In Debt Rate Including \$60 Million Notional Amount of Swaps				3.45%

(1) Rate adjusted up from 4.35% as a result of sequestration reducing BAB's subsidy by 5.7%

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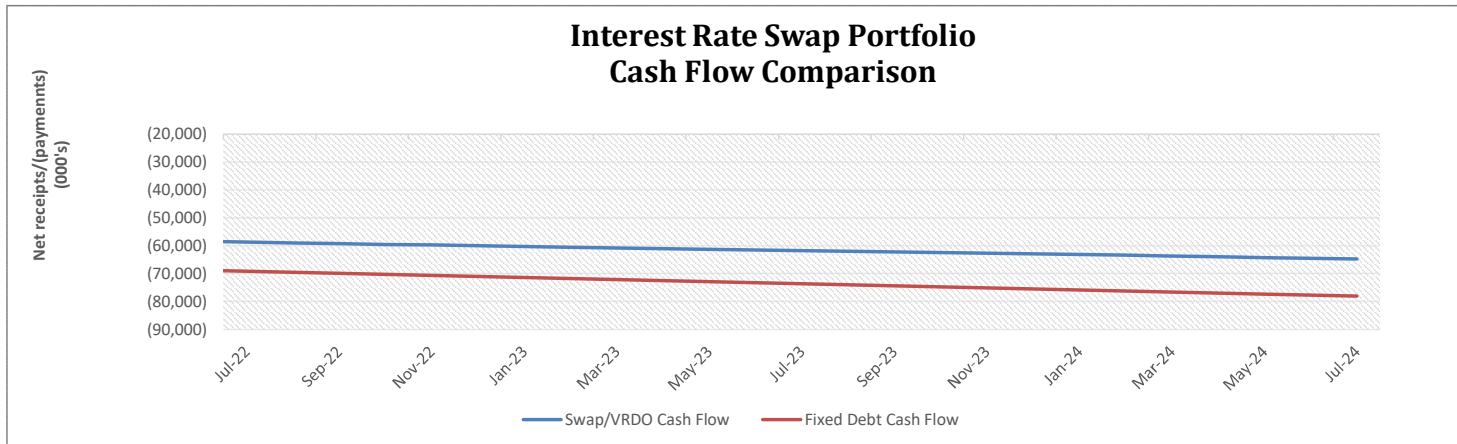
Exhibit "C"
Irvine Ranch Water District
Interest Rate Swap Summary
July 2024

	Prior Mo.	Current Mo.	12-Mo Avg
LIBOR Fibk Avg %	5.45%	5.45%	5.45%

Current Fiscal Year Active Swaps								Cash Flow				(Since 3/07)	Mark to Market	
Effective Date	Maturity Date	Years to Maturity	Counter Party	Notional Amt	Type	Base Index	Fixed Rate	Prior Month	Current Month	Fiscal YTD	Cumulative Net Accrual	Current Mark to Market	Notional Difference	
Fixed Payer Swaps - By Effective Date														
3/10/2007	3/10/2029	4.6	ML	30,000,000	FXP	LIBOR	5.687%	(1,235)	(6,553)	(6,553)	(21,995,805)	27,690,885	(2,309,115)	
3/10/2007	3/10/2029	4.6	CG	30,000,000	FXP	LIBOR	5.687%	(1,235)	(6,553)	(6,553)	(21,995,598)	27,688,780	(2,311,220)	
Totals/Weighted Avgs							4.6	\$ 60,000,000	5.687%	\$ (2,470)	\$ (13,106)	\$ (13,106)	\$ (43,991,404)	\$ 55,379,665 \$ (4,620,335)
Total Current Year Active Swaps				\$ 60,000,000				\$ (2,470)	\$ (13,106)	\$ (13,106)	\$ (43,991,404)	\$ 55,379,665	\$ (4,620,335)	

Current Fiscal Year Terminated Swaps								Cash Flow				Mark to Market	
Effective Date	Maturity Date		Counter Party	Notional Amt	Type	Base Index	Fixed Rate	Prior Month	Current Month	Fiscal YTD	Cumulative Net Accrual	Current Mark to Market	Notional Difference
Total Current Year Terminated Swaps								\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Current Fiscal Year - Total Swaps								Cash Flow				Mark to Market	
Effective Date	Maturity Date		Counter Party	Notional Amt	Type	Base Index	Fixed Rate	Prior Month	Current Month	Fiscal YTD	Cumulative Net Accrual	Current Mark to Market	Notional Difference
Total Current Year Active & Terminated Swaps								\$ 60,000,000	\$ (2,470)	\$ (13,106)	\$ (13,106)	\$ (43,991,404)	\$ 55,379,665 \$ (4,620,335)



Cash Flow Comparison Synthetic Fixed vs. Fixed Rate Debt	
Cash Flow to Date	
Synthetic Fixed =	\$64,691,380
Fixed Rate =	\$78,058,333
Assumptions:	
- Fixed rate debt issued at 4.93% in Mar-07	
(estimated TE rate - Bloomberg)	
- 'Synthetic' includes swap cash flow + interest + fees to date	

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Exhibit "D"

IRVINE RANCH WATER DISTRICT AP DISBURSEMENTS AND VOIDS FOR JULY 2024

CHECK OR ELECTRONIC #	PAYMENT DATE	SUPPLIERS	PAYMENT AMOUNT	PAYMENT METHOD	STATUS
443804	3-Jul-24	ABU QBEITAH, SUZAN	346.32	IRWD Wells Fargo Check No Print	Reconciled
443805	3-Jul-24	AMPCO CONTRACTING, INC.	0.81	IRWD Wells Fargo Check No Print	Reconciled
443806	3-Jul-24	ANDERSON, JANET	40.63	IRWD Wells Fargo Check No Print	Negotiable
443807	3-Jul-24	AT&T CORP	3,804.45	IRWD Wells Fargo Check No Print	Reconciled
443808	3-Jul-24	AZTEC TECHNOLOGY CORPORATION	969.76	IRWD Wells Fargo Check No Print	Reconciled
443809	3-Jul-24	BATTERIES PLUS AND BATTERIES PLUS BULBS	3,408.13	IRWD Wells Fargo Check No Print	Reconciled
443810	3-Jul-24	BIAN, MINGHAO	25.43	IRWD Wells Fargo Check No Print	Reconciled
443811	3-Jul-24	CANON SOLUTIONS AMERICA, INC	4,756.58	IRWD Wells Fargo Check No Print	Reconciled
443812	3-Jul-24	CHEN, YAJUAN	76.12	IRWD Wells Fargo Check No Print	Reconciled
443813	3-Jul-24	COX COMMUNICATIONS, INC.	41.37	IRWD Wells Fargo Check No Print	Reconciled
443814	3-Jul-24	DAIOHS USA INCORPORATED	1,777.97	IRWD Wells Fargo Check No Print	Reconciled
443815	3-Jul-24	DAVIS, COMFORT	70.30	IRWD Wells Fargo Check No Print	Reconciled
443816	3-Jul-24	DCS MANAGEMENT LLC	742.82	IRWD Wells Fargo Check No Print	Reconciled
443817	3-Jul-24	DOWNSTREAM SERVICES INC	233.49	IRWD Wells Fargo Check No Print	Reconciled
443818	3-Jul-24	DXP ENTERPRISES, INC.	3,000.00	IRWD Wells Fargo Check No Print	Reconciled
443819	3-Jul-24	ECC LLC	346.64	IRWD Wells Fargo Check No Print	Reconciled
443820	3-Jul-24	EDWARDS LIFE SCIENCES	17,630.66	IRWD Wells Fargo Check No Print	Reconciled
443821	3-Jul-24	EDWARDS LIFESCIENCES	26,469.23	IRWD Wells Fargo Check No Print	Reconciled
443822	3-Jul-24	FEDEX	221.97	IRWD Wells Fargo Check No Print	Reconciled
443823	3-Jul-24	FISHER SCIENTIFIC COMPANY LLC	3,626.87	IRWD Wells Fargo Check No Print	Reconciled
443824	3-Jul-24	GARY BALE REDI-MIX CONCRETE, INC.	1,015.89	IRWD Wells Fargo Check No Print	Reconciled
443825	3-Jul-24	GEORGE T. HALL CO., INC.	640.00	IRWD Wells Fargo Check No Print	Reconciled
443826	3-Jul-24	GRAINGER	10,503.45	IRWD Wells Fargo Check No Print	Reconciled
443827	3-Jul-24	GRAYBAR ELECTRIC COMPANY	8,669.94	IRWD Wells Fargo Check No Print	Negotiable
443828	3-Jul-24	GUIDA SURVEYING INC.	1,550.10	IRWD Wells Fargo Check No Print	Reconciled
443829	3-Jul-24	HEROLD-CARTER, JULIE	57.22	IRWD Wells Fargo Check No Print	Negotiable
443830	3-Jul-24	HOME DEPOT USA INC	271.82	IRWD Wells Fargo Check No Print	Reconciled
443831	3-Jul-24	INTEGRITY MUNICIPAL SERVICES LLC	59,600.00	IRWD Wells Fargo Check No Print	Reconciled
443832	3-Jul-24	INTERPRO SOLUTIONS, LLC.	16,000.00	IRWD Wells Fargo Check No Print	Reconciled
443833	3-Jul-24	JESSICA O'MALLEY	781.19	IRWD Wells Fargo Check No Print	Reconciled
443834	3-Jul-24	JIMERSON, MICKEY	19.83	IRWD Wells Fargo Check No Print	Negotiable
443835	3-Jul-24	JOSE MARTINEZ TREE SERVICE INC.	6,500.00	IRWD Wells Fargo Check No Print	Reconciled
443836	3-Jul-24	KILL-N-BUGS TERMITE AND PEST CONTROL SERVICES	1,750.00	IRWD Wells Fargo Check No Print	Reconciled
443837	3-Jul-24	LEIGHTON CONSULTING, INC.	1,025.00	IRWD Wells Fargo Check No Print	Reconciled
443838	3-Jul-24	LEMPERT-COHEN, CHERYL	1,052.09	IRWD Wells Fargo Check No Print	Reconciled
443839	3-Jul-24	LI, WEI	103.04	IRWD Wells Fargo Check No Print	Negotiable
443840	3-Jul-24	LINDE GAS & EQUIPMENT INC.	138.44	IRWD Wells Fargo Check No Print	Reconciled
443841	3-Jul-24	MAIMONE, SAMUEL J	525.37	IRWD Wells Fargo Check No Print	Reconciled
443842	3-Jul-24	MC FADDEN-DALE INDUSTRIAL	340.64	IRWD Wells Fargo Check No Print	Reconciled
443843	3-Jul-24	MC MASTER CARR SUPPLY CO	637.44	IRWD Wells Fargo Check No Print	Reconciled
443844	3-Jul-24	NATHAN KIMMEL COMPANY, LLC	779.04	IRWD Wells Fargo Check No Print	Reconciled
443845	3-Jul-24	ROBERT HALF INC.	7,015.00	IRWD Wells Fargo Check No Print	Reconciled
443846	3-Jul-24	SHOETERIA	250.00	IRWD Wells Fargo Check No Print	Reconciled
443847	3-Jul-24	SIGNATURE FLOORING, INC	28,084.00	IRWD Wells Fargo Check No Print	Reconciled
443848	3-Jul-24	SITEONE LANDSCAPE SUPPLY, LLC	20.35	IRWD Wells Fargo Check No Print	Reconciled
443849	3-Jul-24	SOUTHERN CALIFORNIA EDISON COMPANY	64,211.16	IRWD Wells Fargo Check No Print	Reconciled
443850	3-Jul-24	TRIPAC MARKETING INC	377.69	IRWD Wells Fargo Check No Print	Reconciled
443851	3-Jul-24	UNITED PARCEL SERVICE INC	137.13	IRWD Wells Fargo Check No Print	Reconciled
443852	3-Jul-24	VERIZON WIRELESS SERVICES LLC	20,316.81	IRWD Wells Fargo Check No Print	Reconciled
443853	3-Jul-24	VULCAN MATERIALS COMPANY	2,132.37	IRWD Wells Fargo Check No Print	Reconciled
443854	3-Jul-24	WAXIE'S ENTERPRISES, INC	1,111.34	IRWD Wells Fargo Check No Print	Reconciled
443855	3-Jul-24	WEST COAST SAND & GRAVEL INC.	739.49	IRWD Wells Fargo Check No Print	Reconciled
443856	3-Jul-24	WEST YOST & ASSOCIATES, INC.	7,943.25	IRWD Wells Fargo Check No Print	Reconciled
443857	3-Jul-24	WILSON DOW AVE LLC	1,932.32	IRWD Wells Fargo Check No Print	Reconciled
443858	3-Jul-24	YANJUN CHE AND XIAOXIA GONG	50.00	IRWD Wells Fargo Check No Print	Reconciled
443859	3-Jul-24	CONTINENTAL AMERICAN INSURANCE COMPANY	2,486.72	IRWD Wells Fargo Check	Reconciled
443860	3-Jul-24	FRANCHISE TAX BOARD	1,078.39	IRWD Wells Fargo Check	Reconciled
443861	3-Jul-24	INTERNATIONAL BROTHERHOOD OF ELECTRICAL WORKERS LOCAL 47	8,228.00	IRWD Wells Fargo Check	Reconciled
443862	3-Jul-24	PERS LONG TERM CARE	589.27	IRWD Wells Fargo Check	Reconciled
443863	3-Jul-24	STATE OF ARKANSAS	1,013.26	IRWD Wells Fargo Check	Reconciled
443864	11-Jul-24	11:11 SYSTEMS INC.	10,720.00	IRWD Wells Fargo Check No Print	Reconciled
443865	11-Jul-24	8X8 INC	14,952.69	IRWD Wells Fargo Check No Print	Reconciled
443866	11-Jul-24	ABC ICE, INC	543.76	IRWD Wells Fargo Check No Print	Reconciled
443867	11-Jul-24	ABRAHEM, ADEL	2,186.59	IRWD Wells Fargo Check No Print	Reconciled
443868	11-Jul-24	AGILENT TECHNOLOGIES, INC.	564.45	IRWD Wells Fargo Check No Print	Reconciled
443869	11-Jul-24	AIRGAS, INC.	2,508.28	IRWD Wells Fargo Check No Print	Reconciled
443870	11-Jul-24	ANTHONY N. LARSEN	810.00	IRWD Wells Fargo Check No Print	Reconciled
443871	11-Jul-24	ARAKELIAN ENTERPRISES, INC.	14,917.48	IRWD Wells Fargo Check No Print	Reconciled
443872	11-Jul-24	AT&T CORP	1,049.44	IRWD Wells Fargo Check No Print	Reconciled
443873	11-Jul-24	AUTOZONE PARTS, INC.	2,288.30	IRWD Wells Fargo Check No Print	Reconciled
443874	11-Jul-24	B & H PHOTO VIDEO	27,105.01	IRWD Wells Fargo Check No Print	Reconciled
443875	11-Jul-24	BLUEBEAM, INC	733.34	IRWD Wells Fargo Check No Print	Reconciled
443876	11-Jul-24	C WELLS PIPELINE MATERIALS INC	3,234.66	IRWD Wells Fargo Check No Print	Reconciled

**IRVINE RANCH WATER DISTRICT
AP DISBURSEMENTS AND VOIDS FOR JULY 2024**

CHECK OR ELECTRONIC #	PAYMENT DATE	SUPPLIERS	PAYMENT AMOUNT	PAYMENT METHOD	STATUS
443877	11-Jul-24	CALTROL, INC.	755.16	IRWD Wells Fargo Check No Print	Reconciled
443878	11-Jul-24	CANON SOLUTIONS AMERICA, INC	13.53	IRWD Wells Fargo Check No Print	Reconciled
443879	11-Jul-24	CHAIREL CUSTOM HAY, INC.	7,510.22	IRWD Wells Fargo Check No Print	Negotiable
443880	11-Jul-24	CHEM TECH INTERNATIONAL INC	15,270.02	IRWD Wells Fargo Check No Print	Reconciled
443881	11-Jul-24	CITY OF ORANGE	298.52	IRWD Wells Fargo Check No Print	Reconciled
443882	11-Jul-24	CITY OF SANTA ANA	605.97	IRWD Wells Fargo Check No Print	Reconciled
443883	11-Jul-24	CLA-VAL COMPANY	3,597.78	IRWD Wells Fargo Check No Print	Reconciled
443884	11-Jul-24	CLEAN ENERGY	7,610.53	IRWD Wells Fargo Check No Print	Reconciled
443885	11-Jul-24	COMMERCIAL DOOR OF ORANGE COUNTY, INC.	10,980.01	IRWD Wells Fargo Check No Print	Reconciled
443886	11-Jul-24	DELL MARKETING LP	2,602.88	IRWD Wells Fargo Check No Print	Reconciled
443887	11-Jul-24	DG INVESTMENT INTERMEDIATE HOLDINGS 2, INC.	1,109.00	IRWD Wells Fargo Check No Print	Reconciled
443888	11-Jul-24	EISEL ENTERPRISES INC	5,075.03	IRWD Wells Fargo Check No Print	Reconciled
443889	11-Jul-24	ELIJAH STANDING WARRIOR	2,100.00	IRWD Wells Fargo Check No Print	Reconciled
443890	11-Jul-24	ENVIRONMENTAL EXPRESS INC	2,548.98	IRWD Wells Fargo Check No Print	Reconciled
443891	11-Jul-24	EXCEL PAVING CO.	521.71	IRWD Wells Fargo Check No Print	Reconciled
443892	11-Jul-24	FIERRO, SERGIO D	4,662.00	IRWD Wells Fargo Check No Print	Reconciled
443893	11-Jul-24	FISHER SCIENTIFIC COMPANY LLC	2,518.24	IRWD Wells Fargo Check No Print	Reconciled
443894	11-Jul-24	GANNETT FLEMING, INC.	15,615.97	IRWD Wells Fargo Check No Print	Reconciled
443895	11-Jul-24	GARZA INDUSTRIES, INC	1,766.67	IRWD Wells Fargo Check No Print	Reconciled
443896	11-Jul-24	GEI CONSULTANTS INC	8,013.25	IRWD Wells Fargo Check No Print	Reconciled
443897	11-Jul-24	GEIGER BROS	3,898.36	IRWD Wells Fargo Check No Print	Reconciled
443898	11-Jul-24	GOLDEN STAR TECHNOLOGY, INC.	96,567.58	IRWD Wells Fargo Check No Print	Reconciled
443899	11-Jul-24	GRAINGER	6,042.73	IRWD Wells Fargo Check No Print	Reconciled
443900	11-Jul-24	GRAYBAR ELECTRIC COMPANY	3,001.76	IRWD Wells Fargo Check No Print	Reconciled
443901	11-Jul-24	HACH COMPANY	5,485.63	IRWD Wells Fargo Check No Print	Reconciled
443902	11-Jul-24	HDR ENGINEERING INC	36,774.50	IRWD Wells Fargo Check No Print	Reconciled
443903	11-Jul-24	HOME DEPOT USA INC	82.63	IRWD Wells Fargo Check No Print	Reconciled
443904	11-Jul-24	HORNE LLP	4,556.05	IRWD Wells Fargo Check No Print	Reconciled
443905	11-Jul-24	INDUSTRIAL METAL SUPPLY CO	128.00	IRWD Wells Fargo Check No Print	Reconciled
443906	11-Jul-24	INFOSEND, INC.	35,512.64	IRWD Wells Fargo Check No Print	Reconciled
443907	11-Jul-24	IRVINE UNIFIED SCHOOL DISTRICT	100.00	IRWD Wells Fargo Check No Print	Negotiable
443908	11-Jul-24	IRVINE UNIFIED SCHOOL DISTRICT	100.00	IRWD Wells Fargo Check No Print	Negotiable
443909	11-Jul-24	IRVINE UNIFIED SCHOOL DISTRICT	100.00	IRWD Wells Fargo Check No Print	Negotiable
443910	11-Jul-24	KAWANA, HISASHI	24.36	IRWD Wells Fargo Check No Print	Negotiable
443911	11-Jul-24	LEE, JONATHAN	38.76	IRWD Wells Fargo Check No Print	Reconciled
443912	11-Jul-24	LIFENG, XU	49.78	IRWD Wells Fargo Check No Print	Reconciled
443913	11-Jul-24	LIN, JENNIFER	31.78	IRWD Wells Fargo Check No Print	Reconciled
443914	11-Jul-24	LINDE GAS & EQUIPMENT INC.	124.05	IRWD Wells Fargo Check No Print	Reconciled
443915	11-Jul-24	LUBRICATION ENGINEERS	2,541.49	IRWD Wells Fargo Check No Print	Reconciled
443916	11-Jul-24	MAACK, JULIE	28.95	IRWD Wells Fargo Check No Print	Negotiable
443917	11-Jul-24	MAP COMMUNICATIONS, INC.	1,564.80	IRWD Wells Fargo Check No Print	Reconciled
443918	11-Jul-24	MARK THOMAS & COMPANY, INC.	7,396.77	IRWD Wells Fargo Check No Print	Reconciled
443919	11-Jul-24	MC MASTER CARR SUPPLY CO	2,821.34	IRWD Wells Fargo Check No Print	Reconciled
443920	11-Jul-24	METTLER-TOLEDO INC	3,136.77	IRWD Wells Fargo Check No Print	Reconciled
443921	11-Jul-24	MICROSOFT CORPORATION	24.00	IRWD Wells Fargo Check No Print	Reconciled
443922	11-Jul-24	MISSION COMMUNICATIONS, LLC	5,781.00	IRWD Wells Fargo Check No Print	Reconciled
443923	11-Jul-24	MOBLEY, PATRIC	138.87	IRWD Wells Fargo Check No Print	Negotiable
443924	11-Jul-24	MORSCO SUPPLY, LLC	196.30	IRWD Wells Fargo Check No Print	Reconciled
443925	11-Jul-24	NINYO & MOORE	3,221.00	IRWD Wells Fargo Check No Print	Reconciled
443926	11-Jul-24	NMG GEOTECHNICAL INC	14,493.10	IRWD Wells Fargo Check No Print	Reconciled
443927	11-Jul-24	NOVACOAST INC	7,106.25	IRWD Wells Fargo Check No Print	Reconciled
443928	11-Jul-24	ONESOURCE DISTRIBUTORS LLC	1,525.10	IRWD Wells Fargo Check No Print	Reconciled
443929	11-Jul-24	PACIFIC MECHANICAL SUPPLY	832.72	IRWD Wells Fargo Check No Print	Reconciled
443930	11-Jul-24	PALP INC. DBA EXCEL PAVING COMPANY	473,547.36	IRWD Wells Fargo Check No Print	Reconciled
443931	11-Jul-24	PAN, GEOFFREY	29.07	IRWD Wells Fargo Check No Print	Reconciled
443932	11-Jul-24	PREFERRED PAVING CO	1,717.18	IRWD Wells Fargo Check No Print	Reconciled
443933	11-Jul-24	R.F. MACDONALD CO.	1,781.25	IRWD Wells Fargo Check No Print	Reconciled
443934	11-Jul-24	REAL WATER CONSULTANTS INC.	18,250.00	IRWD Wells Fargo Check No Print	Reconciled
443935	11-Jul-24	REALTECH CONTROLS, LLC	934.33	IRWD Wells Fargo Check No Print	Reconciled
443936	11-Jul-24	ROSENFELD, ROBERT	34.17	IRWD Wells Fargo Check No Print	Reconciled
443937	11-Jul-24	RPM TEST EQUIPMENT SOLUTIONS INC	7,697.59	IRWD Wells Fargo Check No Print	Reconciled
443938	11-Jul-24	RS HUGHES COMPANY, INC.	314.97	IRWD Wells Fargo Check No Print	Reconciled
443939	11-Jul-24	SAFETY-KLEEN SYSTEMS, INC	296.00	IRWD Wells Fargo Check No Print	Reconciled
443940	11-Jul-24	SAND CANYON MEDICAL GROUP	6,115.00	IRWD Wells Fargo Check No Print	Reconciled
443941	11-Jul-24	SANTA MARGARITA FORD	2,222.11	IRWD Wells Fargo Check No Print	Reconciled
443942	11-Jul-24	SCA OF CA, LLC	1,420.00	IRWD Wells Fargo Check No Print	Reconciled
443943	11-Jul-24	SERRANO WATER DISTRICT	4,093.30	IRWD Wells Fargo Check No Print	Reconciled
443944	11-Jul-24	SMITH, KENNETH	99.08	IRWD Wells Fargo Check No Print	Reconciled
443945	11-Jul-24	SOUTHERN CALIFORNIA EDISON COMPANY	412,780.52	IRWD Wells Fargo Check No Print	Reconciled
443946	11-Jul-24	SOUTHERN CALIFORNIA GAS COMPANY	14.51	IRWD Wells Fargo Check No Print	Reconciled
443947	11-Jul-24	SPINIELLO INFRASTRUCTURE WEST INC	463.53	IRWD Wells Fargo Check No Print	Reconciled
443948	11-Jul-24	SU, JIAN	28.87	IRWD Wells Fargo Check No Print	Negotiable
443949	11-Jul-24	SUITE, IAN	254.59	IRWD Wells Fargo Check No Print	Reconciled

**IRVINE RANCH WATER DISTRICT
AP DISBURSEMENTS AND VOIDS FOR JULY 2024**

CHECK OR ELECTRONIC #	PAYMENT DATE	SUPPLIERS	PAYMENT AMOUNT	PAYMENT METHOD	STATUS
443950	11-Jul-24	SUN, JIANHUA	18.99	IRWD Wells Fargo Check No Print	Negotiable
443951	11-Jul-24	SUNSET INDUSTRIAL PARTS	6,451.01	IRWD Wells Fargo Check No Print	Reconciled
443952	11-Jul-24	TANKVISIONS, INC	30.00	IRWD Wells Fargo Check No Print	Reconciled
443953	11-Jul-24	TIERRA VERDE INDUSTRIES	22.63	IRWD Wells Fargo Check No Print	Reconciled
443954	11-Jul-24	TIMOTHY W. HOGAN	8,659.54	IRWD Wells Fargo Check No Print	Reconciled
443955	11-Jul-24	TRENCH SHORING COMPANY	193.12	IRWD Wells Fargo Check No Print	Reconciled
443956	11-Jul-24	TURNER, KATHERINE	120.07	IRWD Wells Fargo Check No Print	Negotiable
443957	11-Jul-24	UNITED PAVING CO	1,758.78	IRWD Wells Fargo Check No Print	Reconciled
443958	11-Jul-24	VERIZON WIRELESS SERVICES LLC	5,982.82	IRWD Wells Fargo Check No Print	Reconciled
443959	11-Jul-24	VULCAN MATERIALS COMPANY	2,136.25	IRWD Wells Fargo Check No Print	Reconciled
443960	11-Jul-24	VWR INTERNATIONAL, LLC	40.47	IRWD Wells Fargo Check No Print	Reconciled
443961	11-Jul-24	WASTE MANAGEMENT COLLECTIONS AND RECYCLING, INC.	3,064.56	IRWD Wells Fargo Check No Print	Reconciled
443962	11-Jul-24	WAXIE'S ENTERPRISES, INC	1,267.95	IRWD Wells Fargo Check No Print	Reconciled
443963	11-Jul-24	WEST YOST & ASSOCIATES, INC.	9,975.00	IRWD Wells Fargo Check No Print	Reconciled
443964	11-Jul-24	WHITE, GINNY	37.21	IRWD Wells Fargo Check No Print	Negotiable
443965	11-Jul-24	WUERFEL, KIMBER	25.72	IRWD Wells Fargo Check No Print	Negotiable
443966	11-Jul-24	YU, XIAOFENG	82.32	IRWD Wells Fargo Check No Print	Negotiable
443967	11-Jul-24	PALO VERDE IRRIGATION DISTRICT	235,654.00	IRWD Wells Fargo Check	Reconciled
443968	11-Jul-24	SOUTHERN CALIFORNIA EDISON COMPANY	1,490.48	IRWD Wells Fargo Check	Reconciled
443969	18-Jul-24	FRANCHISE TAX BOARD	242.00	IRWD Wells Fargo Check	Reconciled
443970	18-Jul-24	INTERNATIONAL BROTHERHOOD OF ELECTRICAL WORKERS LOCAL 47	8,326.56	IRWD Wells Fargo Check	Reconciled
443971	18-Jul-24	PERS LONG TERM CARE	589.27	IRWD Wells Fargo Check	Reconciled
443972	18-Jul-24	SOUTHERN CALIFORNIA EDISON COMPANY	5,369.67	IRWD Wells Fargo Check	Reconciled
443973	18-Jul-24	STATE OF ARKANSAS	1,013.26	IRWD Wells Fargo Check	Reconciled
443974	18-Jul-24	11:11 SYSTEMS INC.	6,135.00	IRWD Wells Fargo Check No Print	Reconciled
443975	18-Jul-24	3V GEOMATICS INC.	10,500.00	IRWD Wells Fargo Check No Print	Negotiable
443976	18-Jul-24	ACCELERATED TECHNOLOGY LABORATORIES, LLC	13,406.00	IRWD Wells Fargo Check No Print	Negotiable
443977	18-Jul-24	ADS CORP.	2,700.00	IRWD Wells Fargo Check No Print	Reconciled
443978	18-Jul-24	AGILENT TECHNOLOGIES, INC.	731.66	IRWD Wells Fargo Check No Print	Reconciled
443979	18-Jul-24	AIR TECHNOLOGY LABORATORIES	289.00	IRWD Wells Fargo Check No Print	Reconciled
443980	18-Jul-24	AIRGAS, INC.	396.32	IRWD Wells Fargo Check No Print	Reconciled
443981	18-Jul-24	AM CONSERVATION GROUP, INC.	72.13	IRWD Wells Fargo Check No Print	Reconciled
443982	18-Jul-24	APPLIED INDUSTRIAL TECHNOLOGIES - CA LLC	156.56	IRWD Wells Fargo Check No Print	Reconciled
443983	18-Jul-24	AQUATIC BIOASSAY & CONSULTING LABORATORIES, INC.	5,135.00	IRWD Wells Fargo Check No Print	Reconciled
443984	18-Jul-24	AT&T CORP	165.87	IRWD Wells Fargo Check No Print	Reconciled
443985	18-Jul-24	AT&T CORP	4,775.71	IRWD Wells Fargo Check No Print	Reconciled
443986	18-Jul-24	AT&T CORP	172.62	IRWD Wells Fargo Check No Print	Reconciled
443987	18-Jul-24	AT&T CORP	6,657.00	IRWD Wells Fargo Check No Print	Reconciled
443988	18-Jul-24	AT&T CORP	29.56	IRWD Wells Fargo Check No Print	Reconciled
443989	18-Jul-24	AUTOZONE PARTS, INC.	561.23	IRWD Wells Fargo Check No Print	Reconciled
443990	18-Jul-24	BECK, SUE	44.70	IRWD Wells Fargo Check No Print	Negotiable
443991	18-Jul-24	BEST DRILLING AND PUMP, INC.	76,178.40	IRWD Wells Fargo Check No Print	Reconciled
443992	18-Jul-24	BIOTAGE LLC	4,931.83	IRWD Wells Fargo Check No Print	Reconciled
443993	18-Jul-24	BOFA SECURITIES, INC.	11,561.47	IRWD Wells Fargo Check No Print	Reconciled
443994	18-Jul-24	BOLLIBOKKA LIVERMORE LLC	20.32	IRWD Wells Fargo Check No Print	Reconciled
443995	18-Jul-24	BORCHARD SURVEYING & MAPPING, INC.	3,205.00	IRWD Wells Fargo Check No Print	Reconciled
443996	18-Jul-24	BPS SUPPLY GROUP	107.27	IRWD Wells Fargo Check No Print	Reconciled
443997	18-Jul-24	BRAD ROSBOROUGH	580.00	IRWD Wells Fargo Check No Print	Reconciled
443998	18-Jul-24	BRIGHTVIEW LANDSCAPE DEVELOPMENT	994.60	IRWD Wells Fargo Check No Print	Reconciled
443999	18-Jul-24	BROOKFIELD RESIDENTIAL	390.92	IRWD Wells Fargo Check No Print	Reconciled
444000	18-Jul-24	BRUCE HADLEY NEWELL	2,500.00	IRWD Wells Fargo Check No Print	Reconciled
444001	18-Jul-24	C WELLS PIPELINE MATERIALS INC	4,070.67	IRWD Wells Fargo Check No Print	Reconciled
444002	18-Jul-24	CAL MICROTURBINE, INC.	750.00	IRWD Wells Fargo Check No Print	Negotiable
444003	18-Jul-24	CANON FINANCIAL SERVICES, INC.	9,790.47	IRWD Wells Fargo Check No Print	Reconciled
444004	18-Jul-24	CHEM TECH INTERNATIONAL INC	6,967.82	IRWD Wells Fargo Check No Print	Reconciled
444005	18-Jul-24	CHENG, JOYCE	29.30	IRWD Wells Fargo Check No Print	Reconciled
444006	18-Jul-24	CLA-VAL COMPANY	27,767.22	IRWD Wells Fargo Check No Print	Reconciled
444007	18-Jul-24	CLIFFORD MORIYAMA	5,000.00	IRWD Wells Fargo Check No Print	Reconciled
444008	18-Jul-24	COLE, DIXIE	21.59	IRWD Wells Fargo Check No Print	Negotiable
444009	18-Jul-24	CORELOGIC INC	614.09	IRWD Wells Fargo Check No Print	Reconciled
444010	18-Jul-24	CORTLAND VALUATION GROUP, INC.	5,000.00	IRWD Wells Fargo Check No Print	Reconciled
444011	18-Jul-24	COUNTY OF ORANGE	1,083.16	IRWD Wells Fargo Check No Print	Negotiable
444012	18-Jul-24	COUNTY OF ORANGE	799.84	IRWD Wells Fargo Check No Print	Negotiable
444013	18-Jul-24	COX COMMUNICATIONS, INC.	290.76	IRWD Wells Fargo Check No Print	Reconciled
444014	18-Jul-24	CR & R INCORPORATED	306.09	IRWD Wells Fargo Check No Print	Reconciled
444015	18-Jul-24	CURATIVE I.T. LLC	284.29	IRWD Wells Fargo Check No Print	Reconciled
444016	18-Jul-24	DANG, CINDY	69.79	IRWD Wells Fargo Check No Print	Negotiable
444017	18-Jul-24	DAVENPORT, HARRIET	51.71	IRWD Wells Fargo Check No Print	Reconciled
444018	18-Jul-24	DELL MARKETING LP	2,347.56	IRWD Wells Fargo Check No Print	Reconciled
444019	18-Jul-24	DENALI WATER SOLUTIONS LLC	8,819.07	IRWD Wells Fargo Check No Print	Reconciled
444020	18-Jul-24	DOI, MEGUMI	128.19	IRWD Wells Fargo Check No Print	Negotiable
444021	18-Jul-24	DURHAM GEO SLOPE INDICATOR	953.38	IRWD Wells Fargo Check No Print	Reconciled
444022	18-Jul-24	ENEL X ADVISORY SERVICES NORTH AMERICA, INC.	3,000.00	IRWD Wells Fargo Check No Print	Reconciled

**IRVINE RANCH WATER DISTRICT
AP DISBURSEMENTS AND VOIDS FOR JULY 2024**

CHECK OR ELECTRONIC #	PAYMENT DATE	SUPPLIERS	PAYMENT AMOUNT	PAYMENT METHOD	STATUS
444023	18-Jul-24	ENTERPRISE HOLDINGS, INC.	15,020.50	IRWD Wells Fargo Check No Print	Reconciled
444024	18-Jul-24	ENTERPRISE INFORMATION SYSTEMS, INC.	3,696.00	IRWD Wells Fargo Check No Print	Reconciled
444025	18-Jul-24	ENVIRONMENTAL EXPRESS INC	1,738.38	IRWD Wells Fargo Check No Print	Reconciled
444026	18-Jul-24	ENVIRONMENTAL RESOURCE ASSOCIATES	4,638.03	IRWD Wells Fargo Check No Print	Reconciled
444027	18-Jul-24	FASTBLUE COMMUNICATIONS INC.	1,988.72	IRWD Wells Fargo Check No Print	Reconciled
444028	18-Jul-24	FEDEX	699.92	IRWD Wells Fargo Check No Print	Reconciled
444029	18-Jul-24	FIRE EXTINGUISHING SAFETY & SERVICE	1,607.71	IRWD Wells Fargo Check No Print	Reconciled
444030	18-Jul-24	FISHER SCIENTIFIC COMPANY LLC	4,400.34	IRWD Wells Fargo Check No Print	Reconciled
444031	18-Jul-24	FLORES, HILDA	156.62	IRWD Wells Fargo Check No Print	Negotiable
444032	18-Jul-24	FRANK CHEN	177.55	IRWD Wells Fargo Check No Print	Negotiable
444033	18-Jul-24	FRONTIER CALIFORNIA INC.	363.75	IRWD Wells Fargo Check No Print	Reconciled
444034	18-Jul-24	GAY, CEDRICK	1,044.57	IRWD Wells Fargo Check No Print	Negotiable
444035	18-Jul-24	GOLDMAN, SACHS & CO. LLC	19,075.19	IRWD Wells Fargo Check No Print	Negotiable
444036	18-Jul-24	GRAINGER	6,452.30	IRWD Wells Fargo Check No Print	Reconciled
444037	18-Jul-24	GRAYBAR ELECTRIC COMPANY	3,378.40	IRWD Wells Fargo Check No Print	Reconciled
444038	18-Jul-24	GSRP ST SOLAR I LLC	13,617.33	IRWD Wells Fargo Check No Print	Reconciled
444039	18-Jul-24	HACH COMPANY	4,628.95	IRWD Wells Fargo Check No Print	Reconciled
444040	18-Jul-24	HAYTARKHANI, MOBIN	53.31	IRWD Wells Fargo Check No Print	Negotiable
444041	18-Jul-24	HAZEN AND SAWYER	4,537.50	IRWD Wells Fargo Check No Print	Negotiable
444042	18-Jul-24	HDR ENGINEERING INC	49,813.75	IRWD Wells Fargo Check No Print	Reconciled
444043	18-Jul-24	HOME DEPOT USA INC	210.88	IRWD Wells Fargo Check No Print	Reconciled
444044	18-Jul-24	HOME DEPOT USA INC	301.23	IRWD Wells Fargo Check No Print	Reconciled
444045	18-Jul-24	HORIZON ENGINEERING SYSTEMS LLC	1,950.00	IRWD Wells Fargo Check No Print	Reconciled
444046	18-Jul-24	INDUSTRIAL METAL SUPPLY CO	82.59	IRWD Wells Fargo Check No Print	Reconciled
444047	18-Jul-24	INFOSEND, INC.	18,931.17	IRWD Wells Fargo Check No Print	Reconciled
444048	18-Jul-24	INTEGRITY MUNICIPAL SERVICES LLC	19,410.00	IRWD Wells Fargo Check No Print	Reconciled
444049	18-Jul-24	IRON MOUNTAIN INFORMATION MANAGEMENT INC	1,184.77	IRWD Wells Fargo Check No Print	Reconciled
444050	18-Jul-24	IRVINE PACIFIC	1,419.06	IRWD Wells Fargo Check No Print	Negotiable
444051	18-Jul-24	JANG, YOUNGHEE	48.20	IRWD Wells Fargo Check No Print	Negotiable
444052	18-Jul-24	JOHN S. ADAMS & ASSOCIATES, INC.	14,000.00	IRWD Wells Fargo Check No Print	Reconciled
444053	18-Jul-24	JONATHAN, RAYMOND	9.58	IRWD Wells Fargo Check No Print	Reconciled
444054	18-Jul-24	KAN VENTURES, INC	7,750.00	IRWD Wells Fargo Check No Print	Negotiable
444055	18-Jul-24	KONG, DIFEI	1,944.54	IRWD Wells Fargo Check No Print	Negotiable
444056	18-Jul-24	KURZ INSTRUMENTS INC	5,122.03	IRWD Wells Fargo Check No Print	Reconciled
444057	18-Jul-24	KWON, ANDREW	45.05	IRWD Wells Fargo Check No Print	Negotiable
444058	18-Jul-24	LA SALLE, KIMBERLY	137.48	IRWD Wells Fargo Check No Print	Negotiable
444059	18-Jul-24	LEIGHTON CONSULTING, INC.	8,207.56	IRWD Wells Fargo Check No Print	Reconciled
444060	18-Jul-24	LINDE GAS & EQUIPMENT INC.	2,079.79	IRWD Wells Fargo Check No Print	Reconciled
444061	18-Jul-24	MC FADDEN-DALE INDUSTRIAL	453.21	IRWD Wells Fargo Check No Print	Reconciled
444062	18-Jul-24	MCCARTHY BUILDING COMPANIES	893.71	IRWD Wells Fargo Check No Print	Reconciled
444063	18-Jul-24	MICROSOFT CORPORATION	488.65	IRWD Wells Fargo Check No Print	Reconciled
444064	18-Jul-24	MILES CHEMICAL COMPANY, INC.	1,993.88	IRWD Wells Fargo Check No Print	Reconciled
444065	18-Jul-24	MISSION COMMUNICATIONS, LLC	10,976.00	IRWD Wells Fargo Check No Print	Reconciled
444066	18-Jul-24	MORSCO SUPPLY, LLC	205.28	IRWD Wells Fargo Check No Print	Reconciled
444067	18-Jul-24	MSC INDUSTRIAL SUPPLY CO	58.90	IRWD Wells Fargo Check No Print	Reconciled
444068	18-Jul-24	MUTUAL PROPANE	36.00	IRWD Wells Fargo Check No Print	Reconciled
444069	18-Jul-24	NATIONAL READY MIXED CONCRETE SALES, LLC	1,666.71	IRWD Wells Fargo Check No Print	Reconciled
444070	18-Jul-24	NINYO & MOORE	5,613.50	IRWD Wells Fargo Check No Print	Reconciled
444071	18-Jul-24	NORIMA CONSULTING US	4,208.75	IRWD Wells Fargo Check No Print	Reconciled
444072	18-Jul-24	ORANGE COUNTY MOSQUITO AND VECTOR CONTROL DISTRICT	43.40	IRWD Wells Fargo Check No Print	Reconciled
444073	18-Jul-24	PACIFIC EH&S SERVICES, INC.	9,811.41	IRWD Wells Fargo Check No Print	Reconciled
444074	18-Jul-24	PANAGOS, THOMAS	254.65	IRWD Wells Fargo Check No Print	Reconciled
444075	18-Jul-24	PENN ARCHIVE SERVICES	93.76	IRWD Wells Fargo Check No Print	Reconciled
444076	18-Jul-24	PEREDO, EDMUNDO	108.81	IRWD Wells Fargo Check No Print	Negotiable
444077	18-Jul-24	PERRICONE, JILL	18.48	IRWD Wells Fargo Check No Print	Negotiable
444078	18-Jul-24	PINNACLE TOWERS LLC	911.53	IRWD Wells Fargo Check No Print	Reconciled
444079	18-Jul-24	PLANTATION KEY ASSOCIATES, LLC	914.68	IRWD Wells Fargo Check No Print	Negotiable
444080	18-Jul-24	POLLARDWATER.COM	1,912.62	IRWD Wells Fargo Check No Print	Reconciled
444081	18-Jul-24	PSOMAS	2,310.00	IRWD Wells Fargo Check No Print	Reconciled
444082	18-Jul-24	PUBLIC POLICY INSTITUTE OF CALIFORNIA	12,000.00	IRWD Wells Fargo Check No Print	Negotiable
444083	18-Jul-24	R.F. MACDONALD CO.	1,995.30	IRWD Wells Fargo Check No Print	Reconciled
444084	18-Jul-24	RECONSTRUCTION EXPERTS INC	593.44	IRWD Wells Fargo Check No Print	Negotiable
444085	18-Jul-24	RENTOKIL NORTH AMERICA, INC	6,525.55	IRWD Wells Fargo Check No Print	Reconciled
444086	18-Jul-24	RESA SERVICE, LLC	7,340.00	IRWD Wells Fargo Check No Print	Reconciled
444087	18-Jul-24	ROBERT HALF INC.	11,711.00	IRWD Wells Fargo Check No Print	Reconciled
444088	18-Jul-24	SAMSARA INC.	92.67	IRWD Wells Fargo Check No Print	Reconciled
444089	18-Jul-24	SANTA MARGARITA FORD	520.00	IRWD Wells Fargo Check No Print	Reconciled
444090	18-Jul-24	SCA OF CA, LLC	1,420.00	IRWD Wells Fargo Check No Print	Reconciled
444091	18-Jul-24	SCHULER CONSTRUCTORS, INC.	4,747.65	IRWD Wells Fargo Check No Print	Reconciled
444092	18-Jul-24	SECURITAS SECURITY SERVICES USA, INC.	91,808.87	IRWD Wells Fargo Check No Print	Reconciled
444093	18-Jul-24	SERVERSUPPLY.COM INC	1,044.10	IRWD Wells Fargo Check No Print	Reconciled
444094	18-Jul-24	SHOETERIA	432.12	IRWD Wells Fargo Check No Print	Reconciled
444095	18-Jul-24	SITONE LANDSCAPE SUPPLY, LLC	249.02	IRWD Wells Fargo Check No Print	Reconciled

**IRVINE RANCH WATER DISTRICT
AP DISBURSEMENTS AND VOIDS FOR JULY 2024**

CHECK OR ELECTRONIC #	PAYMENT DATE	SUPPLIERS	PAYMENT AMOUNT	PAYMENT METHOD	STATUS
444096	18-Jul-24	SOUTH COAST BOBCAT	171.62	IRWD Wells Fargo Check No Print	Reconciled
444097	18-Jul-24	SOUTHERN CALIFORNIA EDISON COMPANY	354,731.06	IRWD Wells Fargo Check No Print	Reconciled
444098	18-Jul-24	SOUTHERN CALIFORNIA GAS COMPANY	21,935.71	IRWD Wells Fargo Check No Print	Reconciled
444099	18-Jul-24	SOUTHERN CALIFORNIA SECURITY CENTERS, INC.	4,452.38	IRWD Wells Fargo Check No Print	Reconciled
444100	18-Jul-24	SPARKLETTS	250.18	IRWD Wells Fargo Check No Print	Reconciled
444101	18-Jul-24	SPIRAC (USA) INC	4,726.99	IRWD Wells Fargo Check No Print	Reconciled
444102	18-Jul-24	STANTEC CONSULTING SERVICES INC.	11,821.74	IRWD Wells Fargo Check No Print	Reconciled
444103	18-Jul-24	STATE WATER RESOURCES CONTROL BOARD	18,227.06	IRWD Wells Fargo Check No Print	Negotiable
444104	18-Jul-24	STERIS CORPORATION	8,339.35	IRWD Wells Fargo Check No Print	Reconciled
444105	18-Jul-24	STEWART, MATTIE	1.79	IRWD Wells Fargo Check No Print	Negotiable
444106	18-Jul-24	TAN, CHONG HSI	67.95	IRWD Wells Fargo Check No Print	Negotiable
444107	18-Jul-24	THE ESCAL INSTITUTE OF ADVANCED TECHNOLOGIES, INC.	14,757.00	IRWD Wells Fargo Check No Print	Reconciled
444108	18-Jul-24	THE IRVINE COMPANY LLC	266.17	IRWD Wells Fargo Check No Print	Negotiable
444109	18-Jul-24	TICIC SUB LLC	2,000.00	IRWD Wells Fargo Check No Print	Reconciled
444110	18-Jul-24	TOLL BROS. INC.	322.72	IRWD Wells Fargo Check No Print	Reconciled
444111	18-Jul-24	TRIPAC MARKETING INC	44.80	IRWD Wells Fargo Check No Print	Reconciled
444112	18-Jul-24	USA WASTE OF CALIFORNIA, INC.	685.80	IRWD Wells Fargo Check No Print	Reconciled
444113	18-Jul-24	V&A CONSULTING ENGINEERS	52,500.00	IRWD Wells Fargo Check No Print	Reconciled
444114	18-Jul-24	VANTAGE PM MANAGEMENT SC INC	83.63	IRWD Wells Fargo Check No Print	Reconciled
444115	18-Jul-24	WANG, LILI	15.79	IRWD Wells Fargo Check No Print	Reconciled
444116	18-Jul-24	WARMINGTON HOMES	117.52	IRWD Wells Fargo Check No Print	Negotiable
444117	18-Jul-24	WASTE MANAGEMENT COLLECTIONS AND RECYCLING, INC.	2,260.53	IRWD Wells Fargo Check No Print	Reconciled
444118	18-Jul-24	WAXIE'S ENTERPRISES, INC	1,001.11	IRWD Wells Fargo Check No Print	Reconciled
444119	18-Jul-24	WEST YOST & ASSOCIATES, INC.	468.50	IRWD Wells Fargo Check No Print	Reconciled
444120	18-Jul-24	WOODBURY EAST COMMUNITY ASSN	61,143.23	IRWD Wells Fargo Check No Print	Reconciled
444121	18-Jul-24	YUNMI MARTIN	7,750.00	IRWD Wells Fargo Check No Print	Reconciled
444122	18-Jul-24	ZHANG, JINLI	31.64	IRWD Wells Fargo Check No Print	Reconciled
444123	25-Jul-24	A&Y ASPHALT CONTRACTORS, INC.	66,277.00	IRWD Wells Fargo Check No Print	Reconciled
444124	25-Jul-24	ABC ICE, INC	1,153.72	IRWD Wells Fargo Check No Print	Negotiable
444125	25-Jul-24	ACCELERATED TECHNOLOGY LABORATORIES, LLC	926.25	IRWD Wells Fargo Check No Print	Negotiable
444126	25-Jul-24	ALAN SMITH POOL PLASTERING, INC	1,014.82	IRWD Wells Fargo Check No Print	Reconciled
444127	25-Jul-24	ALLIANT INSURANCE SERVICES, INC	12,391.00	IRWD Wells Fargo Check No Print	Reconciled
444128	25-Jul-24	ARCADIS U.S., INC.	28,657.71	IRWD Wells Fargo Check No Print	Negotiable
444129	25-Jul-24	AT&T CORP	4,471.95	IRWD Wells Fargo Check No Print	Reconciled
444130	25-Jul-24	AUTOZONE PARTS, INC.	325.53	IRWD Wells Fargo Check No Print	Reconciled
444131	25-Jul-24	BRITTANY APTS	180.51	IRWD Wells Fargo Check No Print	Negotiable
444132	25-Jul-24	BROOKFIELD RESIDENTIAL	69.79	IRWD Wells Fargo Check No Print	Reconciled
444133	25-Jul-24	BUTIER ENGINEERING INC	10,800.00	IRWD Wells Fargo Check No Print	Reconciled
444134	25-Jul-24	C WELLS PIPELINE MATERIALS INC	329.72	IRWD Wells Fargo Check No Print	Negotiable
444135	25-Jul-24	CALMEX ENGINEERING INC	1,237.56	IRWD Wells Fargo Check No Print	Reconciled
444136	25-Jul-24	CALPINE CORPORATION	84,928.63	IRWD Wells Fargo Check No Print	Reconciled
444137	25-Jul-24	CANON SOLUTIONS AMERICA, INC	668.63	IRWD Wells Fargo Check No Print	Negotiable
444138	25-Jul-24	CASILLAS, SUZZETTE	41.31	IRWD Wells Fargo Check No Print	Negotiable
444139	25-Jul-24	CLA-VAL COMPANY	5,472.65	IRWD Wells Fargo Check No Print	Reconciled
444140	25-Jul-24	CONSOLIDATED CONTRACTING SERVICES, INC.	1,705.38	IRWD Wells Fargo Check No Print	Negotiable
444141	25-Jul-24	COUNTY OF ORANGE	11,203.47	IRWD Wells Fargo Check No Print	Negotiable
444142	25-Jul-24	COXCO LLC	30,507.00	IRWD Wells Fargo Check No Print	Reconciled
444143	25-Jul-24	DAMATO ASSOCIATES	1,336.14	IRWD Wells Fargo Check No Print	Reconciled
444144	25-Jul-24	DEALERS SERVICE COMPANY, INC	2,977.55	IRWD Wells Fargo Check No Print	Negotiable
444145	25-Jul-24	DELL MARKETING LP	42,623.74	IRWD Wells Fargo Check No Print	Negotiable
444146	25-Jul-24	E.J. MEYER COMPANY	17,574.54	IRWD Wells Fargo Check No Print	Reconciled
444147	25-Jul-24	EL TORO WATER DISTRICT	140,414.00	IRWD Wells Fargo Check No Print	Reconciled
444148	25-Jul-24	ESPERANZA APARTMENTS	79.88	IRWD Wells Fargo Check No Print	Negotiable
444149	25-Jul-24	FARRELL & ASSOCIATES	305.45	IRWD Wells Fargo Check No Print	Reconciled
444150	25-Jul-24	FIZER, SHEQUETA	65.10	IRWD Wells Fargo Check No Print	Negotiable
444151	25-Jul-24	GALLAGHER BENEFIT SERVICES, INC.	4,250.00	IRWD Wells Fargo Check No Print	Negotiable
444152	25-Jul-24	GIDIS HOLDINGS LLC	92.29	IRWD Wells Fargo Check No Print	Negotiable
444153	25-Jul-24	GRAINGER	16,882.10	IRWD Wells Fargo Check No Print	Negotiable
444154	25-Jul-24	GREGG DRILLING LLC	1,784.45	IRWD Wells Fargo Check No Print	Reconciled
444155	25-Jul-24	HAZEN AND SAWYER	2,406.25	IRWD Wells Fargo Check No Print	Negotiable
444156	25-Jul-24	HDR ENGINEERING INC	69,174.78	IRWD Wells Fargo Check No Print	Reconciled
444157	25-Jul-24	HI-LINE INC	1,129.39	IRWD Wells Fargo Check No Print	Reconciled
444158	25-Jul-24	INDUSTRIAL METAL SUPPLY CO	17.31	IRWD Wells Fargo Check No Print	Negotiable
444159	25-Jul-24	J.B BOSTICK COMPANY INC	3,466.72	IRWD Wells Fargo Check No Print	Negotiable
444160	25-Jul-24	J.F SHEA CONSTRUCTION INC	1,856.61	IRWD Wells Fargo Check No Print	Reconciled
444161	25-Jul-24	JEFF CANNON ABZ LLC	634.34	IRWD Wells Fargo Check No Print	Reconciled
444162	25-Jul-24	JILK HEAVY CONSTRUCTION INC	1,361.31	IRWD Wells Fargo Check No Print	Reconciled
444163	25-Jul-24	JUST ENERGY SOLUTIONS INC.	74.68	IRWD Wells Fargo Check No Print	Reconciled
444164	25-Jul-24	KARDEN, LEN	70.27	IRWD Wells Fargo Check No Print	Reconciled
444165	25-Jul-24	KIMBALL MIDWEST	565.57	IRWD Wells Fargo Check No Print	Negotiable
444166	25-Jul-24	LAPLANTE, LINDA	79.77	IRWD Wells Fargo Check No Print	Negotiable
444167	25-Jul-24	LILLESTRAND LEADERSHIP CONSULTING, INC.	10,315.63	IRWD Wells Fargo Check No Print	Negotiable
444168	25-Jul-24	LINDE GAS & EQUIPMENT INC.	17,068.74	IRWD Wells Fargo Check No Print	Reconciled

**IRVINE RANCH WATER DISTRICT
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CHECK OR ELECTRONIC #	PAYMENT DATE	SUPPLIERS	PAYMENT AMOUNT	PAYMENT METHOD	STATUS
444169	25-Jul-24	LUNDQUIST, MARK	40.51	IRWD Wells Fargo Check No Print	Negotiable
444170	25-Jul-24	MC FADDEN-DALE INDUSTRIAL	216.15	IRWD Wells Fargo Check No Print	Negotiable
444171	25-Jul-24	MCCALL'S METERS, INC.	1,084.11	IRWD Wells Fargo Check No Print	Negotiable
444172	25-Jul-24	MEHDI ABEDI AND MOHAMMED GHIASSI	537.08	IRWD Wells Fargo Check No Print	Reconciled
444173	25-Jul-24	MILES CHEMICAL COMPANY, INC.	11,405.71	IRWD Wells Fargo Check No Print	Reconciled
444174	25-Jul-24	MOODY'S INVESTORS SERVICE INC	5,000.00	IRWD Wells Fargo Check No Print	Negotiable
444175	25-Jul-24	MORSCO SUPPLY, LLC	55.58	IRWD Wells Fargo Check No Print	Negotiable
444176	25-Jul-24	NATHAN KIMMEL COMPANY, LLC	895.71	IRWD Wells Fargo Check No Print	Reconciled
444177	25-Jul-24	NGUYEN, LYNH	520.75	IRWD Wells Fargo Check No Print	Reconciled
444178	25-Jul-24	NOVA GEOTECHNICAL AND INSPECTION SERVICES	2,199.00	IRWD Wells Fargo Check No Print	Negotiable
444179	25-Jul-24	ORCHARD HILLS APARTMENTS	255.10	IRWD Wells Fargo Check No Print	Negotiable
444180	25-Jul-24	PALMERAS APARTMENTS	620.30	IRWD Wells Fargo Check No Print	Negotiable
444181	25-Jul-24	PARK, JAE IN	256.87	IRWD Wells Fargo Check No Print	Negotiable
444182	25-Jul-24	PHUONG NGUYEN AND HOANG CHAU	1.55	IRWD Wells Fargo Check No Print	Negotiable
444183	25-Jul-24	PREFERRED PAVING CO	1,386.46	IRWD Wells Fargo Check No Print	Negotiable
444184	25-Jul-24	PRIDEMARK CONTRACTORS	1,327.93	IRWD Wells Fargo Check No Print	Negotiable
444185	25-Jul-24	PRUDENTIAL OVERALL SUPPLY	10,886.18	IRWD Wells Fargo Check No Print	Negotiable
444186	25-Jul-24	PTI SAND & GRAVEL INC	1,531.39	IRWD Wells Fargo Check No Print	Reconciled
444187	25-Jul-24	QUADIENT FINANCE USA, INC.	1,000.00	IRWD Wells Fargo Check No Print	Reconciled
444188	25-Jul-24	RESILIENT COMMUNICATIONS INC.	5,000.00	IRWD Wells Fargo Check No Print	Negotiable
444189	25-Jul-24	ROBERT HALF INC.	18,056.25	IRWD Wells Fargo Check No Print	Reconciled
444190	25-Jul-24	ROBERTSON, MARILYN	91.84	IRWD Wells Fargo Check No Print	Negotiable
444191	25-Jul-24	SANTA MARGARITA FORD	2,090.73	IRWD Wells Fargo Check No Print	Reconciled
444192	25-Jul-24	SANTA MARIA APTS	10.08	IRWD Wells Fargo Check No Print	Negotiable
444193	25-Jul-24	SHADOW OAKS APTS	362.76	IRWD Wells Fargo Check No Print	Negotiable
444194	25-Jul-24	SHAMROCK SUPPLY CO INC	301.54	IRWD Wells Fargo Check No Print	Reconciled
444195	25-Jul-24	SHOETERIA	227.14	IRWD Wells Fargo Check No Print	Reconciled
444196	25-Jul-24	SKORUZ TECHNOLOGIES	16,380.00	IRWD Wells Fargo Check No Print	Negotiable
444197	25-Jul-24	SONOMA APTS	1,578.79	IRWD Wells Fargo Check No Print	Negotiable
444198	25-Jul-24	SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT	1,414.00	IRWD Wells Fargo Check No Print	Negotiable
444199	25-Jul-24	SOUTHERN CALIFORNIA EDISON COMPANY	424.29	IRWD Wells Fargo Check No Print	Reconciled
444200	25-Jul-24	SOUTHERN CALIFORNIA EDISON COMPANY	289,882.99	IRWD Wells Fargo Check No Print	Reconciled
444201	25-Jul-24	TAIT ENVIRONMENTAL SERVICES, INC.	420.00	IRWD Wells Fargo Check No Print	Negotiable
444202	25-Jul-24	THE IRVINE COMPANY	2,535.48	IRWD Wells Fargo Check No Print	Reconciled
444203	25-Jul-24	THOMAS, JACK	164.88	IRWD Wells Fargo Check No Print	Reconciled
444204	25-Jul-24	TIC-IPG-COMMON	441.98	IRWD Wells Fargo Check No Print	Negotiable
444205	25-Jul-24	TIC-OFFICE PROPERTIES	3,327.89	IRWD Wells Fargo Check No Print	Negotiable
444206	25-Jul-24	TRI COUNTY PUMP COMPANY	55,819.68	IRWD Wells Fargo Check No Print	Reconciled
444207	25-Jul-24	TURELK INC	1,627.83	IRWD Wells Fargo Check No Print	Reconciled
444208	25-Jul-24	UNITED PARCEL SERVICE INC	103.48	IRWD Wells Fargo Check No Print	Reconciled
444209	25-Jul-24	UNIVAR SOLUTIONS USA INC.	7,134.60	IRWD Wells Fargo Check No Print	Negotiable
444210	25-Jul-24	US BANK NAT'L ASSOC N.DAKOTA	7,831.96	IRWD Wells Fargo Check No Print	Negotiable
444211	25-Jul-24	USA BLUEBOOK	144.37	IRWD Wells Fargo Check No Print	Negotiable
444212	25-Jul-24	VACO LLC	10,970.50	IRWD Wells Fargo Check No Print	Negotiable
444213	25-Jul-24	VILLA CORONADO APTS	120.42	IRWD Wells Fargo Check No Print	Negotiable
444214	25-Jul-24	WANG, MING	105.46	IRWD Wells Fargo Check No Print	Negotiable
444215	25-Jul-24	WANG, ZHUANGZHOU	41.44	IRWD Wells Fargo Check No Print	Negotiable
444216	25-Jul-24	WATERLINE TECHNOLOGIES INC	14,144.00	IRWD Wells Fargo Check No Print	Reconciled
444217	25-Jul-24	WOODBIDGE WILLOWS APARTMENTS	51.88	IRWD Wells Fargo Check No Print	Negotiable
444218	25-Jul-24	WU, CHUNTEKO	48.69	IRWD Wells Fargo Check No Print	Negotiable
444219	25-Jul-24	WU, JACQUELINE	59.60	IRWD Wells Fargo Check No Print	Negotiable
444220	25-Jul-24	FRANCHISE TAX BOARD	92.00	IRWD Wells Fargo Check	Negotiable
444221	25-Jul-24	STANDARD & POOR'S FINANCIAL SERVICES LLC	5,000.00	IRWD Wells Fargo Check No Print	Reconciled
SUB-TOTAL IRWD WELLS FARGO CHECK AND IRWD WELLS FARGO CHECK NO PRINT DISBURSEMENTS			4,256,418.26		

1003850	3-Jul-24	Almazan, Robert (Chris)	54.27	IRWD Wells Fargo ACH for Expense Reports	Reconciled
1003851	3-Jul-24	Bosley, Kelleen M	14.74	IRWD Wells Fargo ACH for Expense Reports	Reconciled
1003852	3-Jul-24	Cahatol, Justin	321.00	IRWD Wells Fargo ACH for Expense Reports	Reconciled
1003853	3-Jul-24	Jakubas-Pufal, Dorota	25.46	IRWD Wells Fargo ACH for Expense Reports	Reconciled
1003854	3-Jul-24	Jara, Daniel	61.64	IRWD Wells Fargo ACH for Expense Reports	Reconciled
1003855	3-Jul-24	Jones, Morgan	105.00	IRWD Wells Fargo ACH for Expense Reports	Reconciled
1003856	3-Jul-24	Madding, Joshua	95.27	IRWD Wells Fargo ACH for Expense Reports	Reconciled
1003857	3-Jul-24	McQuown, Devin Christina	80.20	IRWD Wells Fargo ACH for Expense Reports	Reconciled
1003858	3-Jul-24	Moudy, Crystal Marie	86.03	IRWD Wells Fargo ACH for Expense Reports	Reconciled
1003859	3-Jul-24	Pulles, Margaret M (Margaret)	13.92	IRWD Wells Fargo ACH for Expense Reports	Reconciled
1003860	3-Jul-24	Vu, Johnny T (Johnny)	77.72	IRWD Wells Fargo ACH for Expense Reports	Reconciled
1003861	3-Jul-24	Wang, Gabrielle	185.48	IRWD Wells Fargo ACH for Expense Reports	Reconciled
1003862	3-Jul-24	Zamora, Victor A	413.09	IRWD Wells Fargo ACH for Expense Reports	Reconciled
1003881	11-Jul-24	Aguilar, Alan C	14.61	IRWD Wells Fargo ACH for Expense Reports	Reconciled
1003882	11-Jul-24	Calderon, Alfonso	56.42	IRWD Wells Fargo ACH for Expense Reports	Reconciled
1003883	11-Jul-24	Cervantes, Angel	26.80	IRWD Wells Fargo ACH for Expense Reports	Reconciled
1003884	11-Jul-24	Contreras, Joaquin	57.08	IRWD Wells Fargo ACH for Expense Reports	Reconciled
1003885	11-Jul-24	Escobar, Omar (Omar)	10.00	IRWD Wells Fargo ACH for Expense Reports	Reconciled

**IRVINE RANCH WATER DISTRICT
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CHECK OR ELECTRONIC #	PAYMENT DATE	SUPPLIERS	PAYMENT AMOUNT	PAYMENT METHOD	STATUS
1003886	11-Jul-24	Estrada, Robert C	134.54	IRWD Wells Fargo ACH for Expense Reports	Reconciled
1003887	11-Jul-24	Haug, Jack Philip Ryan	82.43	IRWD Wells Fargo ACH for Expense Reports	Reconciled
1003888	11-Jul-24	Justice, Jack L (Jack)	103.00	IRWD Wells Fargo ACH for Expense Reports	Reconciled
1003889	11-Jul-24	Kleinau, William T	108.00	IRWD Wells Fargo ACH for Expense Reports	Reconciled
1003890	11-Jul-24	Madding, Joshua	95.27	IRWD Wells Fargo ACH for Expense Reports	Reconciled
1003891	11-Jul-24	Maldonado, Damien Michael	94.86	IRWD Wells Fargo ACH for Expense Reports	Reconciled
1003892	11-Jul-24	Marquez, Jesus	84.96	IRWD Wells Fargo ACH for Expense Reports	Reconciled
1003893	11-Jul-24	Moudy, Crystal Marie	46.90	IRWD Wells Fargo ACH for Expense Reports	Reconciled
1003894	11-Jul-24	Nguyen, Irene	31.49	IRWD Wells Fargo ACH for Expense Reports	Reconciled
1003895	11-Jul-24	Nguyen, Jeanny	45.42	IRWD Wells Fargo ACH for Expense Reports	Reconciled
1003896	11-Jul-24	Perez, Cesar (Cesar)	599.00	IRWD Wells Fargo ACH for Expense Reports	Reconciled
1003897	11-Jul-24	Reed, Megan A	25.86	IRWD Wells Fargo ACH for Expense Reports	Reconciled
1003898	11-Jul-24	Schreiner, Terrance M Jr (Terrance)	334.00	IRWD Wells Fargo ACH for Expense Reports	Reconciled
1003899	11-Jul-24	Shapiro, Matthew	62.46	IRWD Wells Fargo ACH for Expense Reports	Reconciled
1003900	11-Jul-24	Spencer, Jeremy J	37.79	IRWD Wells Fargo ACH for Expense Reports	Reconciled
1003901	11-Jul-24	Trigg, Tyler	131.93	IRWD Wells Fargo ACH for Expense Reports	Reconciled
1003902	11-Jul-24	Vega Beltran, Benjamin Vega	150.00	IRWD Wells Fargo ACH for Expense Reports	Reconciled
1003926	18-Jul-24	Almazan, Robert (Chris)	54.27	IRWD Wells Fargo ACH for Expense Reports	Reconciled
1003927	18-Jul-24	Bosley, Kelleen M	29.48	IRWD Wells Fargo ACH for Expense Reports	Reconciled
1003928	18-Jul-24	Cano, Marco T (Marco)	16.34	IRWD Wells Fargo ACH for Expense Reports	Reconciled
1003929	18-Jul-24	Contreras, Max Albert	17.29	IRWD Wells Fargo ACH for Expense Reports	Reconciled
1003930	18-Jul-24	Garcia, Dorys Elizabeth	46.90	IRWD Wells Fargo ACH for Expense Reports	Reconciled
1003931	18-Jul-24	Haug, Jack Philip Ryan	49.78	IRWD Wells Fargo ACH for Expense Reports	Reconciled
1003932	18-Jul-24	Jakubas-Pufal, Dorota	25.46	IRWD Wells Fargo ACH for Expense Reports	Reconciled
1003933	18-Jul-24	Kaneshiro, Lance	232.29	IRWD Wells Fargo ACH for Expense Reports	Reconciled
1003934	18-Jul-24	Lopez, Miguel	22.52	IRWD Wells Fargo ACH for Expense Reports	Reconciled
1003935	18-Jul-24	Madding, Joshua	95.27	IRWD Wells Fargo ACH for Expense Reports	Reconciled
1003936	18-Jul-24	Marquez, Jesus	42.48	IRWD Wells Fargo ACH for Expense Reports	Reconciled
1003937	18-Jul-24	Moeder, Jacob J (Jacob)	30.00	IRWD Wells Fargo ACH for Expense Reports	Reconciled
1003938	18-Jul-24	Ordonez, Bernardino A (Berny)	150.08	IRWD Wells Fargo ACH for Expense Reports	Reconciled
1003939	18-Jul-24	Ramirez, Eric	46.36	IRWD Wells Fargo ACH for Expense Reports	Reconciled
1003940	18-Jul-24	Reed, Megan A	25.86	IRWD Wells Fargo ACH for Expense Reports	Reconciled
1003941	18-Jul-24	Valencia, Reynaldo (Rey)	29.41	IRWD Wells Fargo ACH for Expense Reports	Reconciled
1003942	18-Jul-24	Villalta, Jonathan	39.53	IRWD Wells Fargo ACH for Expense Reports	Reconciled
1003943	18-Jul-24	Vu, Johnny T (Johnny)	19.43	IRWD Wells Fargo ACH for Expense Reports	Reconciled
1003979	25-Jul-24	Aguilar, Alan C	29.22	IRWD Wells Fargo ACH for Expense Reports	Reconciled
1003980	25-Jul-24	Akiyoshi, Eric S (Eric)	1,791.25	IRWD Wells Fargo ACH for Expense Reports	Reconciled
1003981	25-Jul-24	Cervantes, Jose Santiago	8.58	IRWD Wells Fargo ACH for Expense Reports	Reconciled
1003982	25-Jul-24	Colston, James	663.00	IRWD Wells Fargo ACH for Expense Reports	Reconciled
1003983	25-Jul-24	Contreras, Joaquin	57.08	IRWD Wells Fargo ACH for Expense Reports	Reconciled
1003984	25-Jul-24	Contreras, Max Albert	17.29	IRWD Wells Fargo ACH for Expense Reports	Reconciled
1003985	25-Jul-24	Cortez, Malcolm A (Malcolm)	118.59	IRWD Wells Fargo ACH for Expense Reports	Reconciled
1003986	25-Jul-24	Engstrom, Scott	321.60	IRWD Wells Fargo ACH for Expense Reports	Reconciled
1003987	25-Jul-24	Hansen, Casey	26.80	IRWD Wells Fargo ACH for Expense Reports	Reconciled
1003988	25-Jul-24	Johnson, Susanne	81.02	IRWD Wells Fargo ACH for Expense Reports	Reconciled
1003989	25-Jul-24	Kleinau, William T	221.00	IRWD Wells Fargo ACH for Expense Reports	Reconciled
1003990	25-Jul-24	Koenig, Timothy (Tim)	16.75	IRWD Wells Fargo ACH for Expense Reports	Reconciled
1003991	25-Jul-24	Ludwig, Jason	64.32	IRWD Wells Fargo ACH for Expense Reports	Reconciled
1003992	25-Jul-24	Melendez, Isabel	4.73	IRWD Wells Fargo ACH for Expense Reports	Reconciled
1003993	25-Jul-24	O'Neill, Owen H	1,100.33	IRWD Wells Fargo ACH for Expense Reports	Reconciled
1003994	25-Jul-24	Rodriguez, Jimmy	13.00	IRWD Wells Fargo ACH for Expense Reports	Reconciled
1003995	25-Jul-24	Salazar, Kyle	34.97	IRWD Wells Fargo ACH for Expense Reports	Reconciled
1003996	25-Jul-24	Schreck, Jeffrey A (Jeffrey)	58.17	IRWD Wells Fargo ACH for Expense Reports	Reconciled
1003997	25-Jul-24	Shapiro, Matthew	116.58	IRWD Wells Fargo ACH for Expense Reports	Reconciled
1003998	25-Jul-24	Shih, Han-Tsuei (Josephine)	993.35	IRWD Wells Fargo ACH for Expense Reports	Reconciled
1003999	25-Jul-24	Smith, Brianna	18.22	IRWD Wells Fargo ACH for Expense Reports	Reconciled
1004000	25-Jul-24	Stupy, Cole Austin	16.08	IRWD Wells Fargo ACH for Expense Reports	Negotiable
1004001	25-Jul-24	Swan, Peer	1,449.82	IRWD Wells Fargo ACH for Expense Reports	Reconciled
1004002	25-Jul-24	Valencia, Reynaldo (Rey)	29.41	IRWD Wells Fargo ACH for Expense Reports	Reconciled
1004003	25-Jul-24	Webster, Tanner	161.75	IRWD Wells Fargo ACH for Expense Reports	Negotiable
1004004	25-Jul-24	Withers, John B	798.97	IRWD Wells Fargo ACH for Expense Reports	Reconciled
1004005	25-Jul-24	Yuson, Janice C (Janice)	41.97	IRWD Wells Fargo ACH for Expense Reports	Reconciled
SUB-TOTAL IRWD WELLS FARGO ACH FOR EXPENSE REPORTS			13,093.24		

1003863	3-Jul-24	ACCURATE MEASUREMENT SYSTEMS INC	2,495.15	IRWD Wells Fargo ACH	Reconciled
1003864	3-Jul-24	AECOM TECHNICAL SERVICES, INC.	14,287.29	IRWD Wells Fargo ACH	Reconciled
1003865	3-Jul-24	AMAZON CAPITAL SERVICES, INC.	331.30	IRWD Wells Fargo ACH	Reconciled
1003866	3-Jul-24	CITY OF IRVINE	60,344.40	IRWD Wells Fargo ACH	Reconciled
1003867	3-Jul-24	DATA CLEAN CORPORATION	690.00	IRWD Wells Fargo ACH	Reconciled
1003868	3-Jul-24	EUROFINS ENVIRONMENT TESTING AMERICA HOLDINGS, INC.	136.50	IRWD Wells Fargo ACH	Reconciled
1003869	3-Jul-24	JCI JONES CHEMICALS INC	4,992.74	IRWD Wells Fargo ACH	Reconciled
1003870	3-Jul-24	LANDCARE HOLDINGS, INC.	75,242.25	IRWD Wells Fargo ACH	Reconciled
1003871	3-Jul-24	MARK ENTERPRISES TECHNOLOGIES LLC	52,211.31	IRWD Wells Fargo ACH	Reconciled

**IRVINE RANCH WATER DISTRICT
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CHECK OR ELECTRONIC #	PAYMENT DATE	SUPPLIERS	PAYMENT AMOUNT	PAYMENT METHOD	STATUS
1003872	3-Jul-24	NATIONAL WATER RESEARCH INSTITUTE	50,000.00	IRWD Wells Fargo ACH	Reconciled
1003873	3-Jul-24	O.C. SUPERIOR CUSTOM CLEANING	3,900.00	IRWD Wells Fargo ACH	Reconciled
1003874	3-Jul-24	OLIN CORPORATION	45,020.22	IRWD Wells Fargo ACH	Reconciled
1003875	3-Jul-24	RAM AIR ENGINEERING INC	9,500.00	IRWD Wells Fargo ACH	Reconciled
1003876	3-Jul-24	REGENTS OF THE UNIVERSITY OF CALIFORNIA	10,000.00	IRWD Wells Fargo ACH	Reconciled
1003877	3-Jul-24	TETRA TECH, INC	4,055.00	IRWD Wells Fargo ACH	Reconciled
1003878	3-Jul-24	VSS SALES INC	1,921.13	IRWD Wells Fargo ACH	Reconciled
1003879	3-Jul-24	WESTAMERICA COMMUNICATIONS, INC.	742.50	IRWD Wells Fargo ACH	Reconciled
1003880	3-Jul-24	AUVIK NETWORKS INC.	9,536.10	IRWD Wells Fargo ACH	Reconciled
1003903	11-Jul-24	ACE INDUSTRIES, INC.	5,304.71	IRWD Wells Fargo ACH	Reconciled
1003904	11-Jul-24	ALEXANDER'S CONTRACT SERVICES, INC.	135,122.61	IRWD Wells Fargo ACH	Reconciled
1003905	11-Jul-24	AMAZON CAPITAL SERVICES, INC.	18,033.40	IRWD Wells Fargo ACH	Reconciled
1003906	11-Jul-24	CALIFORNIA BARRICADE RENTAL, INC.	13,998.12	IRWD Wells Fargo ACH	Reconciled
1003907	11-Jul-24	CIMARRON ENERGY, INC	12,503.33	IRWD Wells Fargo ACH	Reconciled
1003908	11-Jul-24	CONSERV CONSTRUCTION INC.	5,795.00	IRWD Wells Fargo ACH	Reconciled
1003909	11-Jul-24	COTTONS POINT DESIGN, INC.	4,933.66	IRWD Wells Fargo ACH	Reconciled
1003910	11-Jul-24	DRAKE TRAFFIC CONTROL SERVICES INC	2,500.00	IRWD Wells Fargo ACH	Reconciled
1003911	11-Jul-24	EUROFINS ENVIRONMENT TESTING AMERICA HOLDINGS, INC.	1,758.75	IRWD Wells Fargo ACH	Reconciled
1003912	11-Jul-24	FOUGHT, CYNTHIA J.	2,829.88	IRWD Wells Fargo ACH	Reconciled
1003913	11-Jul-24	HILL BROTHERS CHEMICAL COMPANY	2,651.33	IRWD Wells Fargo ACH	Reconciled
1003914	11-Jul-24	LANDCARE HOLDINGS, INC.	116,604.64	IRWD Wells Fargo ACH	Reconciled
1003915	11-Jul-24	LIEBERT CASSIDY WHITMORE	97.50	IRWD Wells Fargo ACH	Reconciled
1003916	11-Jul-24	MUNICIPAL WATER DISTRICT OF ORANGE COUNTY	410.47	IRWD Wells Fargo ACH	Reconciled
1003917	11-Jul-24	N1 CRITICAL TECHNOLOGIES, INC	19,244.40	IRWD Wells Fargo ACH	Reconciled
1003918	11-Jul-24	O.C. SUPERIOR CUSTOM CLEANING	792.00	IRWD Wells Fargo ACH	Reconciled
1003919	11-Jul-24	OLIN CORPORATION	44,824.98	IRWD Wells Fargo ACH	Reconciled
1003920	11-Jul-24	ORANGE COUNTY AUTO PARTS CO	2,024.30	IRWD Wells Fargo ACH	Reconciled
1003921	11-Jul-24	ORIGIN CONSULTING LLC	3,787.50	IRWD Wells Fargo ACH	Reconciled
1003922	11-Jul-24	PACIFIC PARTS & CONTROLS INC	8,174.04	IRWD Wells Fargo ACH	Reconciled
1003923	11-Jul-24	RINCON TRUCK CENTER INC.	420.80	IRWD Wells Fargo ACH	Reconciled
1003924	11-Jul-24	SUNSHINE SUPPLY COMPANY, INC.	2,997.61	IRWD Wells Fargo ACH	Reconciled
1003925	11-Jul-24	WEST COAST SAFETY SUPPLY INC	450.29	IRWD Wells Fargo ACH	Reconciled
1003944	18-Jul-24	ACE INDUSTRIES, INC.	1,411.27	IRWD Wells Fargo ACH	Reconciled
1003945	18-Jul-24	AECOM TECHNICAL SERVICES, INC.	93,736.05	IRWD Wells Fargo ACH	Reconciled
1003946	18-Jul-24	AMAZON CAPITAL SERVICES, INC.	2,042.76	IRWD Wells Fargo ACH	Reconciled
1003947	18-Jul-24	APPLIED ENGINEERING CONCEPTS	9,580.00	IRWD Wells Fargo ACH	Reconciled
1003948	18-Jul-24	AQUA BEN CORPORATION	3,719.17	IRWD Wells Fargo ACH	Reconciled
1003949	18-Jul-24	CALIFORNIA BARRICADE RENTAL, INC.	1,806.50	IRWD Wells Fargo ACH	Reconciled
1003950	18-Jul-24	COTTONS POINT DESIGN, INC.	13,010.81	IRWD Wells Fargo ACH	Reconciled
1003951	18-Jul-24	DRAKE TRAFFIC CONTROL SERVICES INC	1,950.00	IRWD Wells Fargo ACH	Reconciled
1003952	18-Jul-24	ENVIRONMENTAL ENGINEERING AND CONTRACTING, INC.	15,363.75	IRWD Wells Fargo ACH	Reconciled
1003953	18-Jul-24	FISHER & PHILLIPS LLP	1,133.10	IRWD Wells Fargo ACH	Reconciled
1003954	18-Jul-24	GM SAGER CONSTRUCTION CO, INC.	101,022.00	IRWD Wells Fargo ACH	Reconciled
1003955	18-Jul-24	HANSON BRIDGETT LLP	49,679.29	IRWD Wells Fargo ACH	Reconciled
1003956	18-Jul-24	HILL BROTHERS CHEMICAL COMPANY	12,935.36	IRWD Wells Fargo ACH	Reconciled
1003957	18-Jul-24	JCI JONES CHEMICALS INC	18,278.59	IRWD Wells Fargo ACH	Reconciled
1003958	18-Jul-24	KRONICK MOSKOVITZ TIEDEMANN & GIRARD	756.00	IRWD Wells Fargo ACH	Reconciled
1003959	18-Jul-24	LANDCARE HOLDINGS, INC.	49,929.14	IRWD Wells Fargo ACH	Reconciled
1003960	18-Jul-24	LIEBERT CASSIDY WHITMORE	5,631.00	IRWD Wells Fargo ACH	Reconciled
1003961	18-Jul-24	MARK KADESH	10,821.00	IRWD Wells Fargo ACH	Reconciled
1003962	18-Jul-24	MCR TECHNOLOGIES INC	754.20	IRWD Wells Fargo ACH	Reconciled
1003963	18-Jul-24	MUNICIPAL WATER DISTRICT OF ORANGE COUNTY	1,771,434.23	IRWD Wells Fargo ACH	Reconciled
1003964	18-Jul-24	OLIN CORPORATION	144,995.51	IRWD Wells Fargo ACH	Reconciled
1003965	18-Jul-24	ORANGE COUNTY AUTO PARTS CO	453.21	IRWD Wells Fargo ACH	Reconciled
1003966	18-Jul-24	ORANGE COUNTY SANITATION DISTRICT	34,483.18	IRWD Wells Fargo ACH	Reconciled
1003967	18-Jul-24	PACIFIC PARTS & CONTROLS INC	3,425.88	IRWD Wells Fargo ACH	Reconciled
1003968	18-Jul-24	PUBLIC RISK, INNOVATION, SOLUTIONS, AND MANAGEMENT	3,167,425.00	IRWD Wells Fargo ACH	Reconciled
1003969	18-Jul-24	RAM AIR ENGINEERING INC	7,805.61	IRWD Wells Fargo ACH	Reconciled
1003970	18-Jul-24	RINCON TRUCK CENTER INC.	957.44	IRWD Wells Fargo ACH	Reconciled
1003971	18-Jul-24	RLG ENTERPRISES, INC	512.30	IRWD Wells Fargo ACH	Reconciled
1003972	18-Jul-24	SUKLE ADVERTISING INC.	4,068.75	IRWD Wells Fargo ACH	Reconciled
1003973	18-Jul-24	TETRA TECH, INC	36,248.00	IRWD Wells Fargo ACH	Reconciled
1003974	18-Jul-24	WATER TREATMENT CHEMICALS INC	20,016.00	IRWD Wells Fargo ACH	Reconciled
1003975	18-Jul-24	WATERSMART SOFTWARE INC	16,402.87	IRWD Wells Fargo ACH	Reconciled
1003976	18-Jul-24	WEST COAST SAFETY SUPPLY INC	2,117.66	IRWD Wells Fargo ACH	Reconciled
1003977	18-Jul-24	WESTAMERICA COMMUNICATIONS, INC.	4,275.38	IRWD Wells Fargo ACH	Reconciled
1003978	18-Jul-24	WOODARD & CURRAN INC	68,213.75	IRWD Wells Fargo ACH	Reconciled
1004006	25-Jul-24	CALIFORNIA BARRICADE RENTAL, INC.	4,774.93	IRWD Wells Fargo ACH	Reconciled
1004007	25-Jul-24	CANNON CORPORATION	6,643.50	IRWD Wells Fargo ACH	Reconciled
1004008	25-Jul-24	CIMARRON ENERGY, INC	29,060.29	IRWD Wells Fargo ACH	Reconciled
1004009	25-Jul-24	CITY OF IRVINE	8,649.17	IRWD Wells Fargo ACH	Reconciled
1004010	25-Jul-24	DRAKE TRAFFIC CONTROL SERVICES INC	6,320.00	IRWD Wells Fargo ACH	Reconciled
1004011	25-Jul-24	E.J. MEYER COMPANY	333,916.35	IRWD Wells Fargo ACH	Reconciled

**IRVINE RANCH WATER DISTRICT
AP DISBURSEMENTS AND VOIDS FOR JULY 2024**

CHECK OR ELECTRONIC #	PAYMENT DATE	SUPPLIERS	PAYMENT AMOUNT	PAYMENT METHOD	STATUS
1004012	25-Jul-24	EHS INTERNATIONAL, INC	1,650.00	IRWD Wells Fargo ACH	Reconciled
1004013	25-Jul-24	FOUGHT, CYNTHIA J.	244.56	IRWD Wells Fargo ACH	Reconciled
1004014	25-Jul-24	GEOSYNTEC CONSULTANTS, INC.	760.00	IRWD Wells Fargo ACH	Reconciled
1004015	25-Jul-24	GM SAGER CONSTRUCTION CO, INC.	175,200.00	IRWD Wells Fargo ACH	Reconciled
1004016	25-Jul-24	HILL BROTHERS CHEMICAL COMPANY	7,535.46	IRWD Wells Fargo ACH	Reconciled
1004017	25-Jul-24	LANDCARE HOLDINGS, INC.	460.60	IRWD Wells Fargo ACH	Reconciled
1004018	25-Jul-24	OLIN CORPORATION	67,300.11	IRWD Wells Fargo ACH	Reconciled
1004019	25-Jul-24	ORANGE COUNTY AUTO PARTS CO	112.51	IRWD Wells Fargo ACH	Reconciled
1004020	25-Jul-24	ORANGE COUNTY SANITATION DISTRICT	12,511.57	IRWD Wells Fargo ACH	Reconciled
1004021	25-Jul-24	PACIFIC PARTS & CONTROLS INC	5,757.94	IRWD Wells Fargo ACH	Reconciled
1004022	25-Jul-24	PAPER DEPOT DOCUMENT DESTRUCTION LLC	330.00	IRWD Wells Fargo ACH	Reconciled
1004023	25-Jul-24	RAM AIR ENGINEERING INC	11,537.63	IRWD Wells Fargo ACH	Reconciled
1004024	25-Jul-24	RED WING SHOE STORE	461.14	IRWD Wells Fargo ACH	Reconciled
1004025	25-Jul-24	RINCON TRUCK CENTER INC.	125.85	IRWD Wells Fargo ACH	Reconciled
1004026	25-Jul-24	SI TESTING	7,450.00	IRWD Wells Fargo ACH	Reconciled
1004027	25-Jul-24	TETRA TECH, INC	40,882.25	IRWD Wells Fargo ACH	Reconciled
1004028	25-Jul-24	TOTAL RESOURCE MANAGEMENT, INC	3,221.50	IRWD Wells Fargo ACH	Reconciled
1004029	25-Jul-24	VSS SALES INC	1,920.00	IRWD Wells Fargo ACH	Reconciled
1004030	25-Jul-24	WEST COAST SAFETY SUPPLY INC	830.34	IRWD Wells Fargo ACH	Reconciled
1004031	26-Jul-24	PUBLIC RISK, INNOVATION, SOLUTIONS, AND MANAGEMENT	1,390,764.00	IRWD Wells Fargo ACH	Reconciled
SUB-TOTAL IRWD WELLS FARGO ACH DISBURSEMENTS			8,545,479.67		
2000748	3-Jul-24	BIOMAGIC INC	15,772.82	IRWD Wells Fargo PC	Reconciled
2000749	3-Jul-24	WECK LABORATORIES INC	3,833.00	IRWD Wells Fargo PC	Reconciled
2000750	11-Jul-24	ABBA TERMITE & PEST CONTROL, INC.	175.00	IRWD Wells Fargo PC	Reconciled
2000751	11-Jul-24	ACCUSOURCE, INC.	1,115.13	IRWD Wells Fargo PC	Reconciled
2000752	11-Jul-24	AMERICAN GEOTECHNICAL, INC.	1,102.50	IRWD Wells Fargo PC	Negotiable
2000753	11-Jul-24	CULLIGAN OF SANTA ANA	49,405.00	IRWD Wells Fargo PC	Reconciled
2000754	11-Jul-24	FERGUSON ENTERPRISES, LLC	6,908.76	IRWD Wells Fargo PC	Reconciled
2000755	11-Jul-24	HARRINGTON INDUSTRIAL PLASTICS LLC	45,245.24	IRWD Wells Fargo PC	Reconciled
2000756	11-Jul-24	PARKHOUSE TIRE INC	2,143.90	IRWD Wells Fargo PC	Reconciled
2000757	11-Jul-24	THOMPSON & PHIPPS INC	23,519.82	IRWD Wells Fargo PC	Reconciled
2000758	11-Jul-24	WECK LABORATORIES INC	2,710.00	IRWD Wells Fargo PC	Reconciled
2000759	18-Jul-24	ABSOLUTE STANDARDS, INC.	190.00	IRWD Wells Fargo PC	Reconciled
2000760	18-Jul-24	ACCUSOURCE, INC.	918.29	IRWD Wells Fargo PC	Reconciled
2000761	18-Jul-24	FERGUSON ENTERPRISES, LLC	1,613.19	IRWD Wells Fargo PC	Reconciled
2000762	18-Jul-24	HARRINGTON INDUSTRIAL PLASTICS LLC	173.92	IRWD Wells Fargo PC	Reconciled
2000763	18-Jul-24	IDEXX DISTRIBUTION, INC	856.61	IRWD Wells Fargo PC	Reconciled
2000764	18-Jul-24	RESOLUTE COMPANY	5,800.00	IRWD Wells Fargo PC	Negotiable
2000765	18-Jul-24	S & J SUPPLY CO INC	2,235.82	IRWD Wells Fargo PC	Reconciled
2000766	18-Jul-24	THERMO ELECTRON NORTH AMERICA LLC	2,217.83	IRWD Wells Fargo PC	Reconciled
2000767	18-Jul-24	THOMPSON & PHIPPS INC	11,526.87	IRWD Wells Fargo PC	Reconciled
2000768	25-Jul-24	INNOVATIVE MACHINE TOOL REPAIR LLC	2,383.36	IRWD Wells Fargo PC	Reconciled
2000769	25-Jul-24	NCL OF WISCONSIN INC	660.84	IRWD Wells Fargo PC	Reconciled
2000770	25-Jul-24	PARKHOUSE TIRE INC	494.03	IRWD Wells Fargo PC	Reconciled
2000771	25-Jul-24	UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA	5,449.31	IRWD Wells Fargo PC	Reconciled
2000772	25-Jul-24	UTILITY SYSTEMS SCIENCE & SOFTWARE INC.	580.00	IRWD Wells Fargo PC	Reconciled
SUB-TOTAL IRWD WELLS FARGO PC			187,031.24		
100158	8-Jul-24	BANK OF NEW YORK MELLON TRUST COMPANY NA	86,538.46	IRWD Wells Fargo Wire	Negotiable
100159	8-Jul-24	WELLS FARGO BANK, N.A.	5,184.04	IRWD Wells Fargo Wire	Negotiable
100160	8-Jul-24	WELLS FARGO BANK, N.A.	1,782.89	IRWD Wells Fargo Wire	Negotiable
100161	9-Jul-24	SUMITOMO MITSUI BANKING CORPORATION	32,263.18	IRWD Wells Fargo Wire	Negotiable
100162	9-Jul-24	SUMITOMO MITSUI BANKING CORPORATION	2,004,422.96	IRWD Wells Fargo Wire	Negotiable
100163	9-Jul-24	U.S. BANK NATIONAL ASSOCIATION	130,327.85	IRWD Wells Fargo Wire	Negotiable
100164	9-Jul-24	BANK OF AMERICA	129,836.05	IRWD Wells Fargo Wire	Negotiable
100165	9-Jul-24	BANK OF AMERICA	172,972.65	IRWD Wells Fargo Wire	Negotiable
100166	15-Jul-24	BANK OF AMERICA	32,206.02	IRWD Wells Fargo Wire	Negotiable
100167	15-Jul-24	BANK OF AMERICA	52,838.33	IRWD Wells Fargo Wire	Negotiable
100168	15-Jul-24	U.S. BANK NATIONAL ASSOCIATION	35,506.45	IRWD Wells Fargo Wire	Negotiable
100169	15-Jul-24	BANK OF AMERICA	1,000.00	IRWD Wells Fargo Wire	Negotiable
100170	15-Jul-24	BANK OF AMERICA	885.00	IRWD Wells Fargo Wire	Negotiable
100171	15-Jul-24	U.S. BANK NATIONAL ASSOCIATION	16,006.26	IRWD Wells Fargo Wire	Negotiable
100172	18-Jul-24	WELLS FARGO BANK, N.A.	1,919.01	IRWD Wells Fargo Wire	Negotiable
100173	18-Jul-24	WELLS FARGO BANK, N.A.	4,899.18	IRWD Wells Fargo Wire	Negotiable
100174	23-Jul-24	CALIFORNIA DEPARTMENT OF TAX AND FEE ADMINISTRATION	652.00	IRWD Wells Fargo Wire	Cleared
100175	23-Jul-24	SUMITOMO MITSUI BANKING CORPORATION	81,824.59	IRWD Wells Fargo Wire	Negotiable
100176	29-Jul-24	BANK OF NEW YORK MELLON TRUST COMPANY NA	13,417.12	IRWD Wells Fargo Wire	Negotiable
100177	31-Jul-24	U.S. BANK NATIONAL ASSOCIATION	54,788.21	IRWD Wells Fargo Wire	Negotiable
100178	31-Jul-24	ORANGE COUNTY WATER DISTRICT	12,441,187.20	IRWD Wells Fargo Wire	Negotiable
100179	31-Jul-24	CALIFORNIA DEPARTMENT OF TAX AND FEE ADMINISTRATION	1.76	IRWD Wells Fargo Wire	Cleared
100180	31-Jul-24	WARMINGTON HOMES	22.28	IRWD Wells Fargo Wire	Negotiable
100181	31-Jul-24	SHOGA, MUNIR	34.60	IRWD Wells Fargo Wire	Negotiable

IRVINE RANCH WATER DISTRICT
AP DISBURSEMENTS AND VOIDS FOR JULY 2024

CHECK OR ELECTRONIC #	PAYMENT DATE	SUPPLIERS	PAYMENT AMOUNT	PAYMENT METHOD	STATUS
100182	31-Jul-24	BANK OF NEW YORK MELLON TRUST COMPANY NA	2,480,637.50	IRWD Wells Fargo Wire	Negotiable
SUB-TOTAL IRWD WELLS FARGO WIRE DISBURSEMENTS			17,781,153.59		
15961	1-Jul-24	CALPERS	733,856.76	IRWD Wire	Negotiable
15962	1-Jul-24	CALPERS	4,620.74	IRWD Wire	Negotiable
15963	3-Jul-24	EMPLOYMENT DEVELOPMENT DEPARTMENT	22,606.80	IRWD Wire	Negotiable
15964	3-Jul-24	CALIFORNIA DEPARTMENT OF CHILD SUPPORT SERVICES	3,066.83	IRWD Wire	Negotiable
15965	3-Jul-24	EMPOWER RETIREMENT, LLC	216,542.37	IRWD Wire	Negotiable
15966	3-Jul-24	INTERNAL REVENUE SERVICE	318,742.58	IRWD Wire	Negotiable
15967	3-Jul-24	FRANCHISE TAX BOARD	108,504.83	IRWD Wire	Negotiable
15968	3-Jul-24	CALPERS	302,494.48	IRWD Wire	Negotiable
15969	8-Jul-24	CALPERS	303,909.60	IRWD Wire	Negotiable
15970	8-Jul-24	CALPERS	414.25	IRWD Wire	Negotiable
15971	8-Jul-24	YORK RISK SERVICES GROUP, INC.	9,464.01	IRWD Wire	Negotiable
15972	8-Jul-24	YEHLING, KIMBERLY	42.37	IRWD Wire	Negotiable
15973	15-Jul-24	CHARD SNYDER & ASSOCIATES, INC.	2,454.26	IRWD Wire	Negotiable
15974	15-Jul-24	CHARD SNYDER & ASSOCIATES, INC.	4,261.02	IRWD Wire	Negotiable
15975	15-Jul-24	CHARD SNYDER & ASSOCIATES, INC.	3,055.75	IRWD Wire	Negotiable
15976	15-Jul-24	CHARD SNYDER & ASSOCIATES, INC.	24,474.17	IRWD Wire	Negotiable
15977	18-Jul-24	YORK RISK SERVICES GROUP, INC.	7,671.68	IRWD Wire	Negotiable
15978	23-Jul-24	CALPERS	310,189.63	IRWD Wire	Negotiable
15979	23-Jul-24	CALPERS	23,852.40	IRWD Wire	Negotiable
15982	23-Jul-24	CHARD SNYDER & ASSOCIATES, INC.	3,803.99	IRWD Wire	Negotiable
15983	23-Jul-24	CHARD SNYDER & ASSOCIATES, INC.	3,813.86	IRWD Wire	Negotiable
15984	23-Jul-24	CHARD SNYDER & ASSOCIATES, INC.	384.67	IRWD Wire	Negotiable
15985	23-Jul-24	CHARD SNYDER & ASSOCIATES, INC.	3,111.86	IRWD Wire	Negotiable
15986	23-Jul-24	EMPLOYMENT DEVELOPMENT DEPARTMENT	20,924.06	IRWD Wire	Negotiable
15987	23-Jul-24	CALIFORNIA DEPARTMENT OF CHILD SUPPORT SERVICES	3,481.04	IRWD Wire	Negotiable
15988	23-Jul-24	FRANCHISE TAX BOARD	91,540.95	IRWD Wire	Negotiable
15989	23-Jul-24	INTERNAL REVENUE SERVICE	279,759.54	IRWD Wire	Negotiable
15990	23-Jul-24	EMPOWER RETIREMENT, LLC	210,855.12	IRWD Wire	Negotiable
15991	24-Jul-24	YORK RISK SERVICES GROUP, INC.	14,388.36	IRWD Wire	Negotiable
15992	25-Jul-24	CALPERS	1,081.36	IRWD Wire	Negotiable
15993	31-Jul-24	YORK RISK SERVICES GROUP, INC.	16,952.70	IRWD Wire	Negotiable
15994	31-Jul-24	CALPERS	8,631,732.00	IRWD Wire	Negotiable
15996	31-Jul-24	CHARD SNYDER & ASSOCIATES, INC.	464.61	IRWD Wire	Negotiable
15997	31-Jul-24	CALPERS	316,592.10	IRWD Wire	Negotiable
15998	31-Jul-24	EMPLOYMENT DEVELOPMENT DEPARTMENT	21,243.46	IRWD Wire	Negotiable
15999	31-Jul-24	CALIFORNIA DEPARTMENT OF CHILD SUPPORT SERVICES	3,537.34	IRWD Wire	Negotiable
16000	31-Jul-24	FRANCHISE TAX BOARD	91,295.02	IRWD Wire	Negotiable
16001	31-Jul-24	INTERNAL REVENUE SERVICE	277,546.13	IRWD Wire	Negotiable
16002	31-Jul-24	EMPOWER RETIREMENT, LLC	206,540.93	IRWD Wire	Negotiable
16003	31-Jul-24	YORK RISK SERVICES GROUP, INC.	4,962.66	IRWD Wire	Negotiable
16004	31-Jul-24	YORK RISK SERVICES GROUP, INC.	3,786.74	IRWD Wire	Negotiable
16005	31-Jul-24	CHARD SNYDER & ASSOCIATES, INC.	2,910.11	IRWD Wire	Negotiable
SUB-TOTAL IRWD BOFA WIRE DISBURSEMENTS			12,610,933.14		
SUB-TOTAL BOFA AND WELLS FARGO CHECK AND ELECTRONIC DISBURSEMENTS			43,394,109.14		
135949	11-Jul-24	BANK OF AMERICA	32,206.02	IRWD Wells Fargo Wire	Voided
135950	11-Jul-24	BANK OF AMERICA	52,838.33	IRWD Wells Fargo Wire	Voided
135951	11-Jul-24	BANK OF AMERICA	35,506.45	IRWD Wells Fargo Wire	Voided
15980	23-Jul-24	CALPERS	7,469,526.00	IRWD Wire	Voided
15981	23-Jul-24	CALPERS	1,081.36	IRWD Wire	Voided
15995	31-Jul-24	CHARD SNYDER & ASSOCIATES, INC.	2,874.91	IRWD Wire	Voided
SUB-TOTAL BOFA AND WELLS FARGO CHECK AND ELECTRONIC ISSUED AND VOIDED IN JULY 2024			7,594,033.07		
TOTAL			50,988,142.21		

Exhibit "E"

MONTHLY SUMMARY OF PAYROLL ACH PAYMENTS

**July
2024**

	AMOUNT	VENDOR	PURPOSE
7/12/2024	1,248,649.90	BANK OF AMERICA	ACH Payments for Payroll
7/26/2024	1,257,278.97	BANK OF AMERICA	ACH Payments for Payroll
	<u>\$2,505,928.87</u>		

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IRWD Gov Code 53065.5 Disclosure Report

Payment or Reimbursements for Individual charges of \$100 or more per transaction for services or product received.

01-JUL-24 to 31-JUL-24


NAME	CHECK NO.	CHECK DATE	AMOUNT	ITEM DESCRIPTION	EXPENSE JUSTIFICATION
Akiyoshi, Eric	1003980	25-Jul-24	360.81	Lodging	ESRI User Conference, San Diego, CA - July 14,2024
Akiyoshi, Eric	1003980	25-Jul-24	360.81	Lodging	ESRI User Conference, San Diego, CA - July 15, 2024
Akiyoshi, Eric	1003980	25-Jul-24	360.81	Lodging	ESRI User Conference, San Diego, CA - July 16, 2024
Akiyoshi, Eric	1003980	25-Jul-24	360.81	Lodging	ESRI User Conference, San Diego, CA - July 17, 2024
Cahatol, Justin	1003852	3-Jul-24	321.00	Membership	AWWA membership renewal
Colston, James	1003982	25-Jul-24	663.00	Other(Misc)	Provided lunch for Water Quality & Regulatory Compliance Department All Hands meeting
Jones, Morgan	1003855	3-Jul-24	105.00	Certification	SWRCB Water Distribution Operator Grade IV
Justice, Jack	1003888	11-Jul-24	103.00	Certification	CWEA Electrical and Instrumentation Grade II
Kaneshiro, Lance	1003933	18-Jul-24	112.29	Mileage	ESRI User Conference, San Diego, CA - July 15-16, 2024
Kleinau, William	1003889	11-Jul-24	108.00	Certification	CWEA Collection Systems Manager Grade III
Kleinau, William	1003989	25-Jul-24	221.00	Membership	CWEA membership renewal
O'Neill, Owen	1003993	25-Jul-24	1,100.33	Other(Misc)	Analyzer sample pump (used personal credit card. Calcard declined due to over limit purchase amount)
Perez, Cesar	1003896	11-Jul-24	221.00	Membership	CWEA membership renewal
Perez, Cesar	1003896	11-Jul-24	108.00	Certification	CWEA Mechanical Technician Grade III
Perez, Cesar	1003896	11-Jul-24	110.00	Certification	SWRCB Water Distribution Operator Grade II
Perez, Cesar	1003896	11-Jul-24	160.00	Certification	SWRCB Water Treatment Operator Grade II
Schreiner, Terrance	1003898	11-Jul-24	334.00	Certification	CWEA Electrical and Instrumentation Grade IV
Shih, Josephine	1003998	25-Jul-24	360.81	Lodging	ESRI User Conference, San Diego, CA - July 16, 2024
Shih, Josephine	1003998	25-Jul-24	360.81	Lodging	ESRI User Conference, San Diego, CA - July 17, 2024
Swan, Peer	1004001	25-Jul-24	110.55	Mileage	Southern Calif. Water Coalition's Quarterly meeting and luncheon, Temecula, CA - April 19, 2024
Swan, Peer	1004001	25-Jul-24	459.96	Airfare	ACWA 2024 Spring Conference, Sacramento, May 6-9, 2024
Swan, Peer	1004001	25-Jul-24	262.84	Lodging	ACWA 2024 Spring Conference, Sacramento, May 6, 2024
Swan, Peer	1004001	25-Jul-24	262.84	Lodging	ACWA 2024 Spring Conference, Sacramento, May 7, 2024
Swan, Peer	1004001	25-Jul-24	262.84	Lodging	ACWA 2024 Spring Conference, Sacramento, May 8, 2024
Vega, Benjamin	1003902	11-Jul-24	150.00	Certification	SWRCB Wastewater Treatment Plant Operator Grade I
Wang, Gabrielle	1003861	3-Jul-24	123.30	Other(Misc)	Payroll team welcome lunch for Jeremy Masur
Webster, Tanner	1004003	25-Jul-24	161.75	Other(Misc)	Safety shoe allowance
Withers, John	1004004	25-Jul-24	262.84	Lodging	ACWA 2024 Spring Conference, Sacramento, May 7, 2024
Withers, John	1004004	25-Jul-24	262.84	Lodging	ACWA 2024 Spring Conference, Sacramento, May 8, 2024
Zamora, Victor	1003862	3-Jul-24	156.60	Other(Misc)	Shadetree Nursery expenses
Total Amount:			\$8,307.84		

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August 26, 2024

Prepared by: A. Kuan / B. Rios /
E. Akiyoshi

Submitted by: K. Burton

Approved by: Paul A. Cook 

CONSENT CALENDAR

PLANNING AREA 40 CYPRESS VILLAGE MARINE WAY CAPITAL DOMESTIC WATER IMPROVEMENTS

SUMMARY:

Irvine Community Development Company, LLC (ICDC) is proceeding with development of Planning Area (PA) 40 Cypress Village, which includes the construction of domestic water, sanitary sewer, and recycled water improvements. As part of the development, ICDC will construct IRWD capital domestic water facilities under an existing Supplemental Reimbursement Agreement. Staff recommends that the Board:

- Authorize the General Manager to accept ICDC's construction contract with Shoffeitt Pipeline, Inc. in the amount of \$795,843.25 for the PA 40 Cypress Village Marine Way Capital Domestic Water Improvements, and
- Authorize a budget increase for Project 12510 in the amount of \$693,000, from \$507,000 to \$1,200,000, for the PA 40 Cypress Village Marine Way Capital Domestic Water Improvements.

BACKGROUND:

ICDC is moving forward with the development of PA 40 Cypress Village. As part of the development, ICDC will design and construct IRWD's capital domestic water facilities located within Marine Way between Sand Canyon Avenue and Ridge Valley. The installation of utilities within Marine Way will allow for the commercial development of several parcels located within the triangular area between Interstate 5 (I-5) Freeway, California State Route 133 (SR 133) and the elevated SR 133 Toll Road Ramp Connectors to the I-5 Freeway as shown in Exhibit "A". The required IRWD capital facilities are documented in the Planning Area 40 – Marine Way Sites Study Area Addendum dated October 31, 2022, prepared by Stantec Consulting Services, Inc., and all subsequent updates.

The design and construction of the IRWD capital facilities will be performed under the terms of the Master Reimbursement Agreement between IRWD and ICDC approved by the Board in May 1997 and as further refined in a Supplemental Reimbursement Agreement dated January 2012.

Marine Way Capital Domestic Water Improvements:

The PA 40 Cypress Village Marine Way Capital Domestic Water Improvements consists of approximately 2,000 feet of 12-inch domestic water pipeline. ICDC retained Stantec Consulting Services, Inc. to prepare the plans and received bids from four contractors ranging from \$795,843.25 to \$1,277,866.44. ICDC recommends awarding the construction contract to the low

bidder, Shoffeitt Pipeline, Inc. for a bid amount of \$795,843.25 as shown in Exhibit “B”. In addition, ICDC has received consultant proposals for engineering design, surveying, geotechnical observation and testing, construction support services, and field archeological / paleontological monitoring. Staff has reviewed the consultant proposals and the construction bids and found the amounts to be acceptable. A cost summary for the PA 40 Cypress Village Marine Way Capital Domestic Water Improvements is shown below.

Construction (Shoffeitt Pipeline, Inc.)	\$795,843.25
Engineering Design (Stantec Consulting, Inc.)	\$49,399.52
Construction Support (Stantec Consulting, Inc.)	\$8,800.00
Survey Services (Stantec Consulting, Inc.)	\$4,320.00
Geotechnical Services (GMU Geotechnical, Inc.)	\$19,129.00
Archeological/Paleontological (LSA Associates, Inc.)	\$7,730.00
ICDC Administration Fee (1%)	<u>\$7,958.43</u>
	\$893,180.20

FISCAL IMPACTS:

Project 12510 is included in the Fiscal Year 2024-25 Capital Budget and requires a budget increase as follows:

Project No.	Current Budget	Addition <Reduction>	Total Budget
12510	\$507,000	\$693,000	\$1,200,000

ENVIRONMENTAL COMPLIANCE:

Construction of capital domestic water facilities for Cypress Village is subject to California Environmental Quality Act (CEQA). In conformance with the California Code of Regulations Title 14, Chapter 3, Article 7 an Environmental Impact Report was certified by the City of Irvine, the lead agency on August 12, 2008 (SCH# 2000071014).

COMMITTEE STATUS:

This item was reviewed by the Engineering and Operations Committee on August 21, 2024.

RECOMMENDATION:

THAT THE BOARD AUTHORIZE THE GENERAL MANAGER TO ACCEPT IRVINE COMMUNITY DEVELOPMENT COMPANY’S CONSTRUCTION CONTRACT WITH SHOFFEITT PIPELINE, INC. IN THE AMOUNT OF \$795,843.25, AND AUTHORIZE A BUDGET INCREASE FOR PROJECT 12510 IN THE AMOUNT OF \$693,000, FROM \$507,000 TO \$1,200,000, FOR THE PLANNING AREA 40 CYPRESS VILLAGE MARINE WAY CAPITAL DOMESTIC WATER IMPROVEMENTS.

Consent Calendar: Planning Area 40 Cypress Village Marine Way Capital Domestic Water
Improvements
August 26, 2024
Page 3

LIST OF EXHIBITS:

Exhibit A – Location Map

Exhibit B – Bid Summary, PA 40 Cypress Village Marine Way Capital Domestic Water
Improvements

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Exhibit "A"

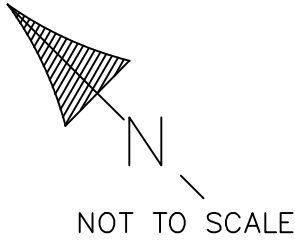
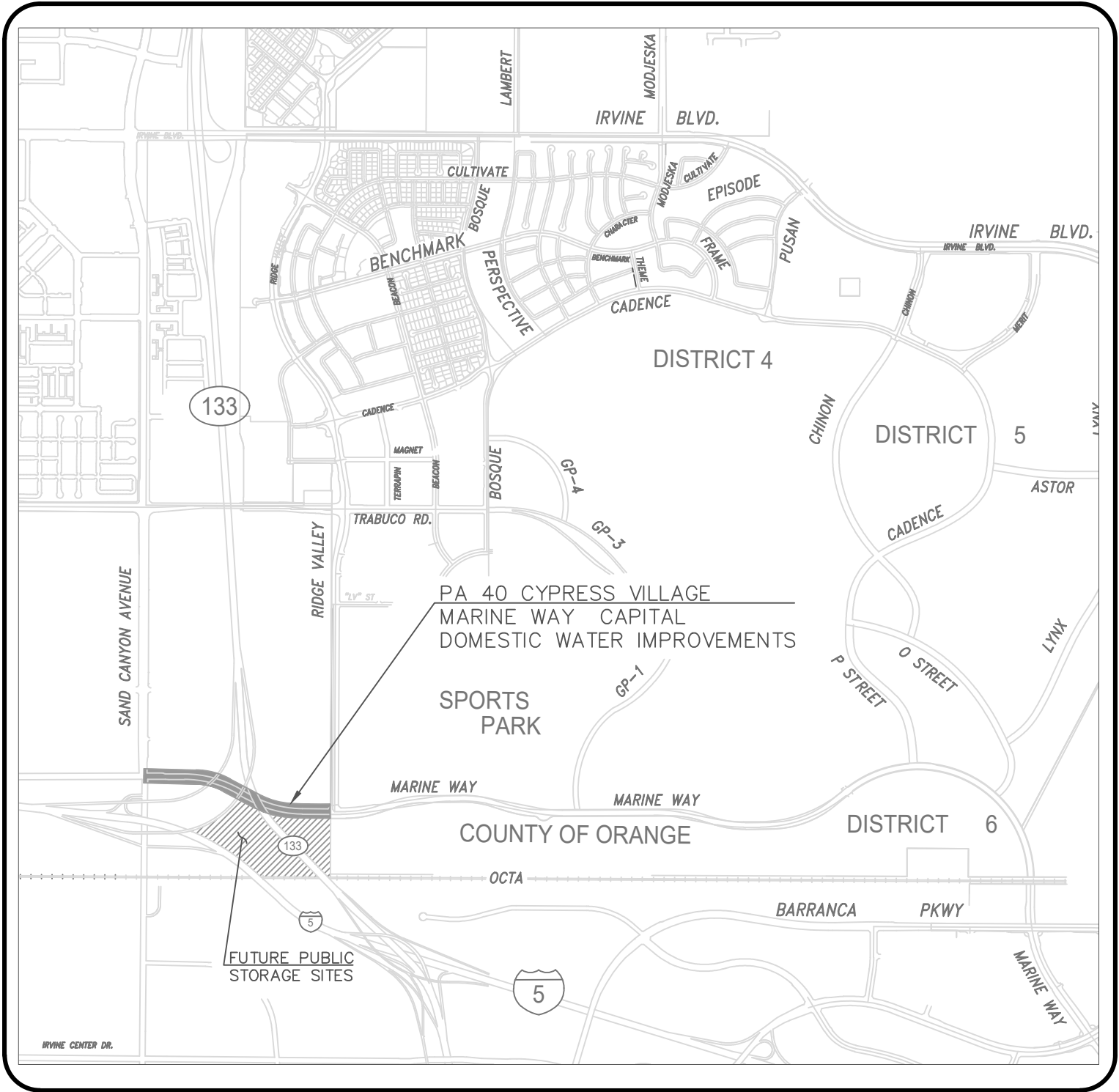


EXHIBIT "A"
LOCATION MAP

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Exhibit "B"

BID SUMMARY
PLANNING AREA 40
6720 MARINE WAY SELF STORAGE
IRWD AND SCE PUBLIC UTILITY INFRASTRUCTURE IMPROVEMENTS
CONTRACT "B1" - WET UTILITIES (PREVAILING WAGE)
TASK/PC ID: LD-5085.ST.01.cn01
BID PACKAGE NO. B00554

c: Mike Morse PRE-BID MEETING DATE: April 17, 2024
Bill Martin BID OPENING DATE: May 22, 2024
N/A WITNESSED BY: J. Favela
File with Bid Key Map E. Marioneaux
Erica Marioneaux - Cost Matrix

DECLINED PRIOR TO PRE-BID: N/A
NO SHOW AT PREBID: NA
DID NOT SUBMIT: NA

ENGINEER'S ESTIMATE	LOW BIDDER	2ND BIDDER	3RD BIDDER	4TH BIDDER
Stantec	Shoiffeit	L&S Construction	Fydaq	Paulus

II. IRWD CAPITAL DELETABLE IMPROVEMENTS
 (Developer may or may not award the Deletable Section)


G. GENERAL												
32. MOBILIZATION (NOT TO EXCEED 2% OF CONTRACT PRICE SECTIONS F-G)	1 LS	\$10,000.00	\$10,000.00	\$5,500.00	\$5,500.00	\$8,000.00	\$8,000.00	\$2,500.00	\$2,500.00	\$17,858.11	\$17,858.11	
33. DEVELOP CONSTRUCTION WATER (SECTIONS F-G)	1 LS	\$10,000.00	\$10,000.00	\$2,500.00	\$2,500.00	\$4,000.00	\$4,000.00	\$5,000.00	\$5,000.00	\$5,952.70	\$5,952.70	
34. PAYMENT AND PERFORMANCE BONDS (SECTIONS F-G)	1 LS	\$10,000.00	\$10,000.00	\$15,700.00	\$15,700.00	\$16,000.00	\$16,000.00	\$8,482.00	\$8,482.00	\$4,500.00	\$4,500.00	
35. TRAFFIC CONTROL (SECTIONS F-G)	1 LS	\$20,000.00	\$20,000.00	\$4,500.00	\$4,500.00	\$26,500.00	\$26,500.00	\$126,518.00	\$126,518.00	\$108,671.51	\$108,671.51	
36. INTERIM EROSION AND SEDIMENT CONTROL (SECTIONS F-G)	1 LS	\$5,000.00	\$5,000.00	\$1,500.00	\$1,500.00	\$7,500.00	\$7,500.00	\$1,500.00	\$1,500.00	\$5,952.70	\$5,952.70	
H. DOMESTIC WATER IMPROVEMENTS - IRWD CAPITAL												
37. CONSTRUCT 12" PVC C900 DR14 DOMESTIC WATER MAIN WITH BEDDING AND BACKFILL PER IRWD STD W-17	1,999 LF	\$300.00	\$599,700.00	\$292.75	\$585,207.25	\$310.00	\$619,690.00	\$248.00	\$495,752.00	\$409.53	\$818,650.47	
38. CONSTRUCT 8" PVC C900 DR14 DOMESTIC WATER MAIN WITH BEDDING AND BACKFILL PER IRWD STD W-17	124 LF	\$200.00	\$24,800.00	\$229.00	\$28,396.00	\$270.00	\$33,480.00	\$612.00	\$75,888.00	\$386.73	\$47,954.52	
39. CONSTRUCT 6" PVC C900 DR14 DOMESTIC WATER MAIN WITH BEDDING AND BACKFILL PER IRWD STD W-17	23 LF	\$300.00	\$6,900.00	\$225.00	\$5,175.00	\$295.00	\$6,785.00	\$1,044.00	\$24,012.00	\$452.60	\$10,409.80	
40. INSTALL 12" BUTTERFLY VALVE CL250 (FEXFE) PER IRWD STD W-17	3 EA	\$5,000.00	\$15,000.00	\$5,100.00	\$15,300.00	\$7,650.00	\$22,950.00	\$5,540.00	\$16,620.00	\$7,747.60	\$23,242.80	
41. INSTALL 12" RESILIENT WEDGE GATE VALVE (FEXFE) PER IRWD STD. W-22	1 EA	\$5,000.00	\$5,000.00	\$4,500.00	\$4,500.00	\$6,000.00	\$6,000.00	\$6,288.00	\$6,288.00	\$6,163.33	\$6,163.33	
42. INSTALL 8" GATE VALVE CL150 (FEXPO) PER IRWD STD W-22	3 EA	\$2,500.00	\$7,500.00	\$2,800.00	\$8,400.00	\$3,200.00	\$9,600.00	\$3,515.00	\$10,545.00	\$4,922.35	\$14,767.05	
43. INSTALL 6" GATE VALVE CL150 (FEXPO) PER IRWD STD W-22	1 EA	\$2,500.00	\$2,500.00	\$1,990.00	\$1,990.00	\$2,200.00	\$2,200.00	\$2,590.00	\$2,590.00	\$4,001.79	\$4,001.79	
44. INSTALL 12" FEXPO ADAPTER	11 EA	\$750.00	\$8,250.00	\$525.00	\$5,775.00	\$1,000.00	\$11,000.00	\$1,061.00	\$11,671.00	\$1,268.46	\$13,953.06	
45. INSTALL 2" COPPER SERVICE TYPE "K" AND METER BOX FOR A FUTURE 2" METER PER IRWD STD W-2; METER TO BE INSTALLED PER SEPARATE PLAN IN THE FUTURE	2 EA	\$4,500.00	\$9,000.00	\$6,900.00	\$13,800.00	\$11,200.00	\$22,400.00	\$19,949.00	\$39,898.00	\$11,194.78	\$22,389.56	
46. INSTALL 6" DOMESTIC WATER TEMPORARY FLUSH-OUT PER W-12 FOR FUTURE FH ASSEMBLY AND DETAIL C ON SHEET 3	1 EA	\$4,000.00	\$4,000.00	\$2,500.00	\$2,500.00	\$3,700.00	\$3,700.00	\$3,127.00	\$3,127.00	\$13,489.73	\$13,489.73	
47. INSTALL DOMESTIC WATER TEMPORARY FLUSH-OUT PER W-12 FOR FUTURE 8" DDC INSTALLATION	2 EA	\$4,000.00	\$8,000.00	\$2,850.00	\$5,700.00	\$3,800.00	\$7,600.00	\$3,127.00	\$6,254.00	\$13,489.73	\$26,979.46	
48. REMOVE EXISTING DW FLUSH-OUT AND JOIN EXISTING 12" DW PVC	1 EA	\$1,000.00	\$1,000.00	\$4,500.00	\$4,500.00	\$4,600.00	\$4,600.00	\$6,665.00	\$6,665.00	\$20,005.64	\$20,005.64	
49. JOIN EXISTING PIPE AND INSTALL WELD-ON TAPPING SLEEVE PER DETAIL ON SHEET 4	1 EA	\$25,000.00	\$25,000.00	\$6,900.00	\$6,900.00	\$25,000.00	\$25,000.00	\$102,918.00	\$102,918.00	\$38,716.90	\$38,716.90	
50. INSTALL 8" DOMESTIC WATER TEMPORARY FLUSH-OUT PER W-12 FOR FUTURE FH ASSEMBLY AND DETAIL B ON SHEET 3	1 EA	\$4,000.00	\$4,000.00	\$2,850.00	\$2,850.00	\$3,800.00	\$3,800.00	\$3,127.00	\$3,127.00	\$13,489.73	\$13,489.73	
I. TRENCH REPAIR												
51. CONSTRUCT ASPHALT TRENCH REPAIR PER COI STD. 223, ALTERNATIVE "B"	1 LS	\$100,000.00	\$100,000.00	\$75,150.00	\$75,150.00	\$172,000.00	\$172,000.00	\$280,213.00	\$280,213.00	\$60,717.58	\$60,717.58	
TOTAL IRWD DELETABLE BID PRICE			\$875,650.00		\$795,843.25		\$1,012,805.00		\$1,229,568.00		\$1,277,866.44	

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August 26, 2024

Prepared by: B. Rios / E. Akiyoshi

Submitted by: K. Burton

Approved by: Paul A. Cook 

CONSENT CALENDAR

PLANNING AREA 51 HERITAGE FIELDS MARINE WAY STAGE 3 CAPITAL FACILITIES

SUMMARY:

Heritage Fields, LLC is proceeding with development of Planning Area 51 (Great Park), which includes the construction of streets, storm drains, domestic water, sanitary sewer, and recycled water improvements. As part of the development, Heritage Fields will construct IRWD capital facilities under an existing Supplemental Reimbursement Agreement (SRA). Staff recommends that the Board:

- Authorize the General Manager to accept Heritage Fields' construction contract with L&S Construction, Inc. in the amount of \$2,031,738 for the Planning Area 51 Marine Way Stage 3 Capital Facilities Improvements Project;
- Authorize the addition of Planning Area 51 Marine Way Stage 3 Domestic Water Capital Facilities Project 13107 in the amount of \$710,000 to the Fiscal Year (FY) 2024-25 Capital Budget;
- Authorize the addition of Planning Area 51 Marine Way Stage 3 Sanitary Sewer Capital Facilities Project 13109 in the amount of \$1,200,000 to the FY 2024-25 Capital Budget; and
- Authorize the addition of Planning Area 51 Marine Way Stage 3 Recycled Water Capital Facilities Project 13110 in the amount of \$900,000 to the FY 2024-25 Capital Budget.

BACKGROUND:

Heritage Fields is moving forward with the Planning Area 51 Marine Way Stage 3 construction. As shown in Exhibit "A", Marine Way Stage 3 will construct street improvements and IRWD capital domestic water, sanitary sewer and recycled water facilities from just east of the County Property line to the intersection with future street Lynx. The required IRWD capital facilities are documented in the September 2016 Planning Area 51 Sub-Area Master Plan Update and all subsequent addendums and updates prepared by Stantec.

The design and construction of the IRWD facilities will be performed by Heritage Fields, LLC under the terms of the Master Reimbursement Agreement approved by the Board in August 2012 and as further refined in the SRA dated November 25, 2019.

Marine Way Stage 3 Capital Improvements:

The Marine Way Stage 3 Capital Improvements consist of installing approximately 2,800 feet of 12-inch diameter domestic water pipeline, 1,400 feet of 18-inch sanitary sewer pipeline, 2,600 feet of recycled water pipeline and all required appurtenances. Heritage Fields retained

Proactive Engineering to prepare the design plans and received bids from three contractors. Heritage Fields recommends awarding the construction contract to the lowest bidder, L&S Construction Inc., for a bid amount of \$2,031,738 as shown in Exhibit “B”. In addition, Heritage Fields has received consultant proposals for geotechnical observation and testing, surveying, construction support services, and field archeological and paleontological monitoring. Staff has reviewed the consultant proposals and the construction bids and find the amounts to be acceptable. A summary of the Marine Way Stage 3 Capital Improvements costs are shown below:

Design (Proactive)	\$44,800.00
Construction (L&S)	\$2,031,738.00
Geotechnical Services (Engeo)	\$35,100.00
Surveying / Field Coordination (Hunsaker)	\$65,800.00
Construction Engineering (Proactive)	\$11,440.00
Archeo / Paleo Monitoring	\$12,925.00
Heritage Fields Administration Fee (1%)	<u>\$20,317.38</u>
	\$2,222,120.38

FISCAL IMPACTS:

Staff requests the addition of Projects 13107, 13109 and 13110 to the Fiscal Year 2024-25 Capital Budget as follows. All projects will be funded 100% by ID’s 1112 and 2212.

Project No.	Current Budget	Addition <Reduction>	Total Budget
13107	\$0	\$ 710,000	\$ 710,000
13109	\$0	\$1,200,000	\$1,200,000
13110	\$0	\$ 900,000	\$ 900,000
	\$0	\$2,810,000	\$2,810,000

ENVIRONMENTAL COMPLIANCE:

Construction of capital sanitary sewer facilities for the Great Park Development is subject to California Environmental Quality Act. In conformance with the California Code of Regulations Title 14, Chapter 3, Article 7 an Environmental Impact Report was certified by the City of Irvine, the lead agency on December 12, 2023 (SCH# 2002101020).

COMMITTEE STATUS:

This item was reviewed by the Engineering and Operations Committee on August 21, 2024.

RECOMMENDATION:

THAT THE BOARD AUTHORIZE THE GENERAL MANAGER TO ACCEPT HERITAGE FIELDS' CONSTRUCTION CONTRACT WITH L&S CONSTRUCTION, INC. IN THE AMOUNT OF \$2,031,738 FOR THE PLANNING AREA 51 MARINE WAY STAGE 3 CAPITAL FACILITIES IMPROVEMENTS PROJECT; AND AUTHORIZE THE ADDITION OF PROJECTS 13107, 13109, AND 13110 IN THE RESPECTIVE AMOUNTS OF \$710,000, \$1,200,000 AND \$900,000 TO THE FISCAL YEAR 2024-25 CAPITAL BUDGET FOR THE PLANNING AREA 51 MARINE WAY STAGE 3 CAPITAL IMPROVEMENTS PROJECT.

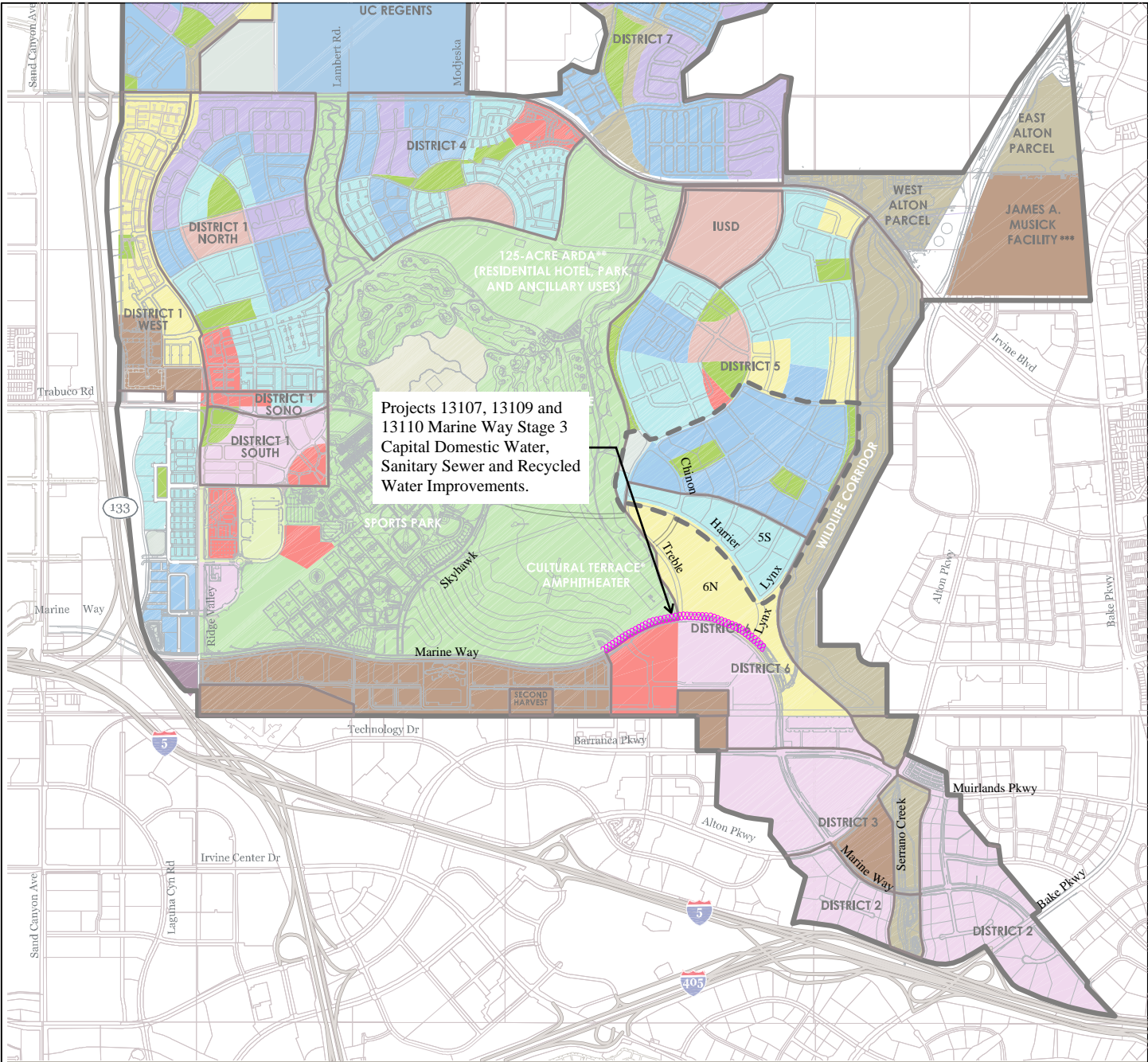
LIST OF EXHIBITS:

Exhibit "A" – Location Map

Exhibit "B" – Bid Summary, Marine Way Stage 3 Capital Improvements

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Exhibit "A"



Projects 13107, 13109 and 13110 Marine Way Stage 3 Capital Domestic Water, Sanitary Sewer and Recycled Water Improvements.

LOCATION MAP

not to scale

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Exhibit "B"

PROJECT: Marine Way Stage 3 Wet Utility Improvements
IRWD Code 8166 Sewer, Water and Recycled Water

FILE NO.: xxxxx
DATE: 3/29/2024

OWNER: Heritage Fields El Toro, LLC

BID SPREAD CODE 8166

ENGINEER'S ESTIMATE

L&S - LOW

LEATHERWOOD

FYDAQ

CAPITAL - MARINE WAY STAGE 3

Capital - Marine Way Stage 3 (Code 8166)

A Capital - Marine Way Stage 3 (Code 8166)					
A.1	SUB-TOTAL, SUBSECTION A.1 - General Items				\$ 55,100.00
A.2	SUB-TOTAL, SUBSECTION A.2 - MWS3 Sewer - Capital Code 8166				\$ 915,495.00
A.4	SUB-TOTAL, SUBSECTION A.4 - MWS3 Domestic Water - Capital Code 8166				\$ 493,660.00
A.6	SUB-TOTAL, SUBSECTION A.6 - MWS3 Recycled Water - Capital Code 8166				\$ 618,120.00
A.8	SUB-TOTAL, SUBSECTION A.8 - Additional Capital Construction Items on Plans not Identified in the Bid CPS (List Items)				\$ -
TOTAL CAPITAL CONTRACT PRICE SCHEDULE					\$ 2,082,375.00

\$ 51,620.00
\$ 888,290.00
\$ 482,974.00
\$ 608,854.00
\$ -
\$ 2,031,738.00

\$ 73,950.00
\$ 909,110.00
\$ 520,325.00
\$ 591,310.00
\$ -
\$ 2,094,695.00

\$ 21,332.40
\$ 946,055.00
\$ 845,033.00
\$ 632,207.00
\$ -
\$ 2,144,627.40

CAPITAL IMPROVEMENTS - Marine Way Stage 3

NO.	CODE	General Items	QTY	UNIT	Code 7902	
					UNIT PRICE	AMOUNT
001	130-01	Mobilization, (Not to Exceed 2% of Section A)	1	LS	\$ 23,200.00	\$ 23,200.00
002	130-01	Develop Construction Water Supply & Storage	1	LS	\$ 5,800.00	\$ 5,800.00
003	130-01	Performance, Labor and Payment Bond	1	LS	\$ 20,300.00	\$ 20,300.00
004	130-01	Erosion Control - SWPPP & BMPs	1	LS	\$ 2,900.00	\$ 2,900.00
005	130-01	Traffic Control	1	LS	\$ 2,900.00	\$ 2,900.00
A.1	SUB-TOTAL, SUBSECTION A.1 - General Items					\$ 55,100.00

UNIT PRICE	AMOUNT
\$ 20,300.00	\$ 20,300.00
\$ 5,800.00	\$ 5,800.00
\$ 19,720.00	\$ 19,720.00
\$ 2,900.00	\$ 2,900.00
\$ 2,900.00	\$ 2,900.00
\$ 51,620.00	

UNIT PRICE	AMOUNT
\$ 40,600.00	\$ 40,600.00
\$ 5,800.00	\$ 5,800.00
\$ 23,200.00	\$ 23,200.00
\$ 2,900.00	\$ 2,900.00
\$ 1,450.00	\$ 1,450.00
\$ 73,950.00	

UNIT PRICE	AMOUNT
\$ 4,350.00	\$ 4,350.00
\$ 870.00	\$ 870.00
\$ 14,372.40	\$ 14,372.40
\$ 870.00	\$ 870.00
\$ 870.00	\$ 870.00
\$ 21,332.40	

NO.	CODE	MWS3 Sewer - Capital Code 8166	QUAN	UNIT	UNIT PRICE	AMOUNT
006	130-05	Furnish and install 18" PVC Green C900 (DR18) sewer main including sewer indicator tape per IRWD std. dwg. S-6 and specifications, bedding, backfill, pressure test, complete.	1,004	LF	\$ 480.00	\$ 481,920.00
007	130-02	Manage sewer pre-trench excavation material for deep sewer, complete	1	LS	\$ 75,000.00	\$ 75,000.00
008	130-05	Furnish and install 18" PVC Green C900 (DR18) sewer main including sewer indicator tape per IRWD std. dwg. S-6 and specifications, bedding, backfill, pressure test, complete.	355	LF	\$ 275.00	\$ 97,625.00
009	130-05	Furnish and install 15" PVC Green (SDR35) sewer main including sewer indicator tape per IRWD std. dwg. S-6 and specifications, bedding, backfill, pressure test, complete.	91	LF	\$ 200.00	\$ 18,200.00
010	130-06	Furnish and install 6" PVC SDR 35 sewer lateral including sewer indicator tape per IRWD std. dwg. S-6 and specifications, bedding, backfill, pressure test, frame and cover, concrete pad, fittings, complete.	30	LF	\$ 250.00	\$ 7,500.00
011	130-10	Construct 60" diameter manhole per IRWD std. dwg. S-1 with 30" diameter manhole frame and cover, complete.	1	EA	\$ 18,000.00	\$ 18,000.00
012	130-10	Construct 72" diameter manhole per IRWD std. dwg. S-1 with 36" diameter manhole frame and cover, complete.	3	EA	\$ 35,000.00	\$ 105,000.00
013	130-20	Furnish and install temporary terminal cleanout per IRWD std. dwg. S-5 and specifications, complete	2	EA	\$ 2,500.00	\$ 5,000.00
014	130-05	Furnish and Install 30" steel casing per IRWD std. dwg. S-7 and specifications with minimum wall thickness of 0.50 inches, complete	60	LF	\$ 500.00	\$ 30,000.00
015	130-05	Furnish and install casing test station per IRWD std. dwg. CP-3 and specifications including wires, anode, and pull box, complete	2	EA	\$ 3,000.00	\$ 6,000.00
016	130-05	Join Existing sewer per IRWD specifications, complete	2	EA	\$ 10,000.00	\$ 20,000.00
017	130-05	Furnish and install cap and plug for 18" PVC sewer, complete	1	EA	\$ 2,500.00	\$ 2,500.00
018	130-02	Remove and dispose of existing temporary cleanout, complete	1	EA	\$ 7,500.00	\$ 7,500.00
019	130-02	Remove and dispose of existing brick and mortar plug off site, furnish and install brick and mortar plug, and fill existing channel with concrete per details per plan, complete	1	EA	\$ 2,500.00	\$ 2,500.00
020	130-02	Remove and dispose of existing 72" sewer manhole off site, including base, shaft and frame and cover, backfill and compaction, complete	1	EA	\$ 10,000.00	\$ 10,000.00
021	130-02	Remove and dispose of existing 18" PVC C-900 pipe including trenching, backfill and compaction, complete	38	LF	\$ 250.00	\$ 9,500.00
022	130-25	Base pavement adjust manhole to grade per IRWD specifications, complete	5	EA	\$ 1,000.00	\$ 5,000.00
023	130-25	Cap pavement adjust manhole to grade per IRWD specifications, complete	5	EA	\$ 1,000.00	\$ 5,000.00
024	130-10	Reconstruct top of existing manhole to raise to finish grade	1	EA	\$ 1,750.00	\$ 1,750.00
025	130-95	Perform and provide copy of video of sewer main to IRWD inspector per IRWD specifications, complete	1	LS	\$ 7,500.00	\$ 7,500.00
A.2	SUB-TOTAL, SUBSECTION A.2 - MWS3 Sewer - Capital Code 8166					\$ 915,495.00

UNIT PRICE	AMOUNT
\$ 470.00	\$ 471,880.00
\$ 75,000.00	\$ 75,000.00
\$ 260.00	\$ 92,300.00
\$ 190.00	\$ 17,290.00
\$ 230.00	\$ 6,900.00
\$ 18,000.00	\$ 18,000.00
\$ 34,000.00	\$ 102,000.00
\$ 2,500.00	\$ 5,000.00
\$ 490.00	\$ 29,400.00
\$ 3,000.00	\$ 6,000.00
\$ 9,000.00	\$ 18,000.00
\$ 2,000.00	\$ 2,000.00
\$ 7,500.00	\$ 7,500.00
\$ 2,000.00	\$ 2,000.00
\$ 8,500.00	\$ 8,500.00
\$ 240.00	\$ 9,120.00
\$ 990.00	\$ 4,950.00
\$ 990.00	\$ 4,950.00
\$ 1,500.00	\$ 1,500.00
\$ 6,000.00	\$ 6,000.00
\$ 888,290.00	

UNIT PRICE	AMOUNT
\$ 475.00	\$ 476,900.00
\$ 50,000.00	\$ 50,000.00
\$ 355.00	\$ 126,025.00
\$ 285.00	\$ 25,935.00
\$ 155.00	\$ 4,650.00
\$ 16,000.00	\$ 16,000.00
\$ 31,000.00	\$ 93,000.00
\$ 2,000.00	\$ 4,000.00
\$ 310.00	\$ 18,600.00
\$ 2,300.00	\$ 4,600.00
\$ 10,000.00	\$ 20,000.00
\$ 1,500.00	\$ 1,500.00
\$ 500.00	\$ 500.00
\$ 500.00	\$ 500.00
\$ 7,000.00	\$ 7,000.00
\$ 700.00	\$ 26,600.00
\$ 560.00	\$ 2,800.00
\$ 600.00	\$ 3,000.00
\$ 14,000.00	\$ 14,000.00
\$ 13,500.00	\$ 13,500.00
\$ 909,110.00	

UNIT PRICE	AMOUNT
\$ 450.00	\$ 451,800.00
\$ 80,000.00	\$ 80,000.00
\$ 435.00	\$ 154,425.00
\$ 250.00	\$ 22,750.00
\$ 125.00	\$ 3,750.00
\$ 19,000.00	\$ 19,000.00
\$ 29,900.00	\$ 89,700.00
\$ 2,500.00	\$ 5,000.00
\$ 500.00	\$ 30,000.00
\$ 7,500.00	\$ 15,000.00
\$ 2,500.00	\$ 5,000.00
\$ 1,500.00	\$ 1,500.00
\$ 3,500.00	\$ 3,500.00
\$ 3,500.00	\$ 3,500.00
\$ 20,000.00	\$ 20,000.00
\$ 385.00	\$ 14,630.00
\$ 650.00	\$ 3,250.00
\$ 650.00	\$ 3,250.00
\$ 15,000.00	\$ 15,000.00
\$ 5,000.00	\$ 5,000.00
\$ 946,055.00	

NO.	CODE	MWS3 Domestic Water - Capital Code 8166	QUAN	UNIT	UNIT PRICE	AMOUNT
026	131-05	Furnish and Install 12" PVC Waterline Pipe, C-900, DR 14, w/ Trenching, Bedding & Backfill per IRWD Std. W-17 including all Fittings, Appurtenances and Thrust Blocks per IRWD Std. W-16 and W-19 and as Shown on the Plans, Complete	2,893	LF	\$ 120.00	\$ 347,160.00
027	131-35	Furnish and Install 12" Butter Fly Valve CL-150B (FE x FE) and valve box per IRWD standard drawing W-22 and specifications, complete	13	EA	\$ 7,000.00	\$ 91,000.00

UNIT PRICE	AMOUNT
\$ 118.00	\$ 341,374.00
\$ 6,800.00	\$ 88,400.00

UNIT PRICE	AMOUNT
\$ 135.00	\$ 390,555.00
\$ 6,000.00	\$ 78,000.00

UNIT PRICE	AMOUNT
\$ 141.00	\$ 407,913.00
\$ 6,500.00	\$ 84,500.00

						ENGINEER'S ESTIMATE	
028	131-05	Furnish and install temporary flush-out assemble per IRWD standard drawing W-12 and specifications, complete	3	EA	\$ 3,500.00	\$ 10,500.00	
029	131-05	Furnish and Install 1" air-vac assemble per IRWD standard drawing W-11 and specifications, complete	1	EA	\$ 3,500.00	\$ 3,500.00	
030	131-95	Chlorinate & Pressure Test Pipeline, including Disposal of Chlorinated Water, per IRWD Standards and Specifications, Complete	1	LS	\$ 12,000.00	\$ 12,000.00	
031	131-15	Base pavement adjust valve can to grade per IRWD specifications, or Requested by Developer including Extra Move, complete	13	EA	\$ 1,000.00	\$ 13,000.00	
032	131-15	Cap pavement adjust valve can to grade per IRWD specifications, or Requested by Developer including Extra Move, complete	13	EA	\$ 1,000.00	\$ 13,000.00	
033	131-05	Remove and dispose temporary flush-out and Join existing 12" PVC per IRWD Specifications, complete	1	EA	\$ 3,500.00	\$ 3,500.00	
A.4	SUB-TOTAL, SUBSECTION A.4 - MWS3 Domestic Water - Capital Code 8166					\$ 493,660.00	

L&S - LOW	
\$ 3,200.00	\$ 9,600.00
\$ 6,200.00	\$ 6,200.00
\$ 10,500.00	\$ 10,500.00
\$ 900.00	\$ 11,700.00
\$ 900.00	\$ 11,700.00
\$ 3,500.00	\$ 3,500.00
\$ 482,974.00	

LEATHERWOOD	
\$ 3,600.00	\$ 10,800.00
\$ 6,300.00	\$ 6,300.00
\$ 15,500.00	\$ 15,500.00
\$ 520.00	\$ 6,760.00
\$ 570.00	\$ 7,410.00
\$ 5,000.00	\$ 5,000.00
\$ 520,325.00	

FYDAQ	
\$ 5,500.00	\$ 16,500.00
\$ 7,370.00	\$ 7,370.00
\$ 5,000.00	\$ 5,000.00
\$ 625.00	\$ 8,125.00
\$ 625.00	\$ 8,125.00
\$ 7,500.00	\$ 7,500.00
\$ 545,033.00	

NO.	CODE	MWS3 Recycled Water - Capital Code 8166	QUAN	UNIT	UNIT PRICE	AMOUNT
034	132-02	Furnish and Install 16" PVC Purple Waterline Pipe, C-900, DR 14, w/ Trenching, Bedding & Backfill per IRWD Std. W-17 including all Fittings, Appurtenances and Thrust Blocks per IRWD Std. W-16 and W-19 and as Shown on the Plans, Complete	2,666	LF	\$ 180.00	\$ 479,880.00
035	132-02	Furnish and Install 8" PVC Purple Waterline Pipe, C-900, DR 14, w/ Trenching, Bedding & Backfill per IRWD Std. W-17 including all Fittings, Appurtenances and Thrust Blocks per IRWD Std. W-16 and W-19 and as Shown on the Plans, Complete	128	LF	\$ 80.00	\$ 10,240.00
036	132-15	Furnish and Install 16" Butter Fly Valve (FE x FE) and valve box per IRWD standard drawing W-22 and specifications, complete	7	EA	\$ 8,500.00	\$ 59,500.00
037	132-15	Furnish and Install 8" Gate Valve (FE x FE) and valve box per IRWD standard drawing W-22 and specifications, complete	2	EA	\$ 3,000.00	\$ 6,000.00
038	132-02	Furnish and Install 2" air-vac assemble per IRWD standard drawing W-11 and specifications, complete	1	EA	\$ 9,000.00	\$ 9,000.00
039	132-20	Furnish and Install Blow off assembly (case 3) per IRWD standard drawing W-14 and specifications, with 6" valve at tee, complete	1	EA	\$ 15,000.00	\$ 15,000.00
040	132-05	Furnish and install temporary flush-out assemble per IRWD standard drawing W-12 and specifications, complete	2	EA	\$ 3,500.00	\$ 7,000.00
041	131-95	Chlorinate & Pressure Test Pipeline, including Disposal of Chlorinated Water, per IRWD Standards and Specifications, Complete	1	LS	\$ 8,000.00	\$ 8,000.00
042	132-15	Base pavement adjust valve can to grade per IRWD specifications, or Requested by Developer including Extra Move, complete	10	EA	\$ 1,000.00	\$ 10,000.00
043	132-15	Cap pavement adjust valve can to grade per IRWD specifications, or Requested by Developer including Extra Move, complete	10	EA	\$ 1,000.00	\$ 10,000.00
044	132-05	Remove and Dispose of 16" blind flange and join existing, complete	1	EA	\$ 3,500.00	\$ 3,500.00
A.6	SUB-TOTAL, SUBSECTION A.6 - MWS3 Recycled Water - Capital Code 8166					\$ 618,120.00

UNIT PRICE	AMOUNT
\$ 179.00	\$ 477,214.00
\$ 80.00	\$ 10,240.00
\$ 8,200.00	\$ 57,400.00
\$ 2,800.00	\$ 5,600.00
\$ 8,700.00	\$ 8,700.00
\$ 14,000.00	\$ 14,000.00
\$ 3,200.00	\$ 6,400.00
\$ 7,500.00	\$ 7,500.00
\$ 900.00	\$ 9,000.00
\$ 900.00	\$ 9,000.00
\$ 3,800.00	\$ 3,800.00
\$ 608,854.00	

UNIT PRICE	AMOUNT
\$ 165.00	\$ 439,890.00
\$ 115.00	\$ 14,720.00
\$ 10,000.00	\$ 70,000.00
\$ 3,600.00	\$ 7,200.00
\$ 10,800.00	\$ 10,800.00
\$ 13,700.00	\$ 13,700.00
\$ 4,900.00	\$ 9,800.00
\$ 7,800.00	\$ 7,800.00
\$ 520.00	\$ 5,200.00
\$ 570.00	\$ 5,700.00
\$ 6,500.00	\$ 6,500.00
\$ 591,310.00	

UNIT PRICE	AMOUNT
\$ 182.00	\$ 485,212.00
\$ 85.00	\$ 10,880.00
\$ 8,745.00	\$ 61,215.00
\$ 3,525.00	\$ 7,050.00
\$ 9,500.00	\$ 9,500.00
\$ 22,350.00	\$ 22,350.00
\$ 5,500.00	\$ 11,000.00
\$ 5,000.00	\$ 5,000.00
\$ 625.00	\$ 6,250.00
\$ 625.00	\$ 6,250.00
\$ 7,500.00	\$ 7,500.00
\$ 632,207.00	

NO.	CODE	Additional Capital Construction Items on Plans not Identified in the Bid CPS (List Items)	QUAN	UNIT	UNIT PRICE	AMOUNT
045					\$ -	
046					\$ -	
047					\$ -	
048					\$ -	
049					\$ -	
050					\$ -	
A.8	SUB-TOTAL, SUBSECTION A.8 - Additional Capital Construction Items on Plans not Identified in the Bid CPS (List Items)					\$ -

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A	TOTAL - MARINE WAY STAGE 3 IRWD CODE 8166 - CAPITAL					\$ 2,082,375.00
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\$ 2,031,738.00

\$ 2,094,695.00

\$ 2,144,627.40

August 26, 2024
Prepared by: M. Robinson / E. Akiyoshi
Submitted by: K. Burton
Approved by: Paul A. Cook 

CONSENT CALENDAR

FISCAL YEARS 2023-24 AND 2024-25 GENERAL REPLACEMENTS AND MODIFICATIONS PROJECTS BUDGET INCREASES

SUMMARY:

The Fiscal Year (FY) 2023-24 General System Replacements and Modifications (Gen Sys Mods) projects have experienced increased spending associated with emergency pipeline repairs and reimbursement expenditures to raise valves and manholes to grade following City street rehabilitation projects. Staff anticipates the expenditure rates to continue through the remainder of FY 2024-25 and the FY 2023-24 and FY 2024-25 Gen Sys Mods projects require budget increases. Staff recommends that the Board authorize budget increases for the following projects:

- Project 11774 FY 2023-24 Domestic Water Gen Sys Mods in the amount of \$967,000, from \$6,663,000 to \$7,600,000;
- Project 11777 FY 2023-24 Recycled Water Gen Sys Mods in the amount of \$1,037,000, from \$2,663,000 to \$3,700,000;
- Project 11850 FY 2024-25 Domestic Water Gen Sys Mods in the amount of \$3,517,000, from \$6,283,000 to \$9,800,000;
- Project 11851 FY 2024-25 Recycled Water Gen Sys Mods in the amount of \$3,597,000, from \$2,103,000 to \$5,700,000; and
- Project 11852 FY 2024-25 Sanitary Sewer Gen Sys Mods in the amount of \$1,815,000, from \$1,785,000 to \$3,600,000.

BACKGROUND:

IRWD's Gen Sys Mods projects encompass a variety of capital activities, including emergency pipeline repairs, mechanical and electrical asset replacements, industrial coatings repairs, meter upgrades, and reimbursement for raising valves and manholes to grade following City street rehabilitation projects.

Due to increased activity and expenditures in FY 2023-24, staff recommends budget increases of \$967,000 for Project 11774 and \$1,037,000 for Project 11777. For FY 2024-25, staff expects this elevated activity to persist, along with additional raising valves and manholes to grade projects for \$4.6 million in the Cities of Irvine and Lake Forest. As a result, staff recommends budget increases of \$3,517,000 for Project 11850, \$3,597,000 for Project 11851, and \$1,815,000 for Project 11852.

FISCAL IMPACTS:

Projects 11774, 11777, 11850, 11851, 11852 are included in the FY 2023-24 and FY 2024-25 Capital Budgets. Budget increases shown in the following table are required to fund the projects.

<u>Project No.</u>	<u>Current Budget</u>	<u>Addition <Reduction></u>	<u>Total Budget</u>
11774	\$6,633,000	\$967,000	\$7,600,000
11777	\$2,663,000	\$1,037,000	\$3,700,000
11850	\$6,283,000	\$3,517,000	\$9,800,000
11851	\$2,103,000	\$3,597,000	\$5,700,000
11852	\$1,785,000	\$1,815,000	\$3,600,000

ENVIRONMENTAL COMPLIANCE:

Not Applicable.

COMMITTEE STATUS:


This item was reviewed by the Engineering and Operations Committee on August 21, 2024.

RECOMMENDATION:

THAT THE BOARD AUTHORIZE BUDGET INCREASES TO FISCAL YEAR 2023-24 FOR PROJECT 11774 IN THE AMOUNT OF \$967,000, FROM \$6,663,000 TO \$7,600,000, AND FOR PROJECT 11777 IN THE AMOUNT OF \$1,037,000, FROM \$2,663,000, TO \$3,700,000; AND AUTHORIZE BUDGET INCREASES TO FISCAL YEAR 2024-25 FOR PROJECT 11850 IN THE AMOUNT OF \$3,517,000, FROM \$6,283,000, TO \$9,800,000, PROJECT 11851 IN THE AMOUNT OF \$3,597,000, FROM \$2,103,000, TO \$5,700,000, AND PROJECT 11852 IN THE AMOUNT OF \$1,815,000, FROM \$1,785,000, TO \$3,600,000.

LIST OF EXHIBITS:

None.

August 26, 2024
Prepared by: A. Murphy / M. Cortez
Submitted by: K. Burton
Approved by: Paul A. Cook 

CONSENT CALENDAR

TRUNK SEWER PROTECTION WITHIN SAN DIEGO CREEK AT STATE ROUTE 133 CONTRACT CHANGE ORDER AND FINAL ACCEPTANCE

SUMMARY:

The Trunk Sewer Protection within San Diego Creek at State Route 133 is complete. The contractor, Charles King Company, completed the required work and the project has received final inspection. Staff recommends that the Board:

- Approve Contract Change Order 1 in the credit amount of \$1,803,000, and
- Accept construction of the Trunk Sewer Protection within San Diego Creek at State Route 133.

BACKGROUND:

The Trunk Sewer Protection within San Diego Creek at State Route 133 (SR133) installed a temporary sanitary sewer bypass system to safely divert and convey sewer flow around the construction area of California Department of Transportation's project to widen its SR133 bridge over the San Diego Creek in Irvine. IRWD owns a 36-inch vitrified clay pipe trunk sewer that crosses San Diego Creek below grade. A segment of this trunk sewer runs parallel to and between two pier foundations of the bridge. Caltrans' proposed bridge widening requires extending the bridge's pier foundations; one of the piers will be extended to within a few feet of IRWD's trunk sewer. As such, staff worked with Caltrans to devise an approach to enable Caltrans to construct the widened bridge without impacting IRWD's sewer. The approach consisted of several components:

- Caltrans made several changes to its pier foundation design to provide as much clearance as possible to the sewer;
- Caltrans' plans included protect-in-place measures for IRWD's sewer, i.e. installing steel plating and installation of a berm over the sewer in Caltrans' construction area to mitigate the loading effect of construction equipment moving over the sewer;
- IRWD would take a segment of the trunk sewer out of service by operating a pumped bypass sewer system in its place during Caltrans' construction of the pier foundation extensions;
- Immediately prior to and after construction of the pier foundation extensions nearest to the trunk sewer, IRWD would perform a video inspection of the trunk sewer to confirm any evidence of pipe damage or failure; and
- Caltrans would provide IRWD a construction window to complete a repair of the sewer should any damage be observed in the inspection video.

Consent Calendar: Trunk Sewer Protection within San Diego Creek at State Route 133 Contract Change Order and Final Acceptance

August 26, 2024

Page 2

Charles King Company (CKC) was awarded the construction contract on December 12, 2023. Caltrans mobilized to the San Diego Creek in April 2024 and installed the required protect-in-place measures and began work on the pier foundations that were located away from IRWD's trunk sewer. After completion of those pier extensions, CKC installed the bypass sewer in June 2024. It was successfully tested and put into service for three weeks while Caltrans completed the extension of bridge Piers 3 and 4, which were nearest to the trunk sewer. The inspection videos of the existing 36-inch trunk sewer performed after Caltrans' construction revealed there was no damage to IRWD's sewer.

Project Title:	Trunk Sewer Protection within San Diego Creek at State Route 133
Project No.:	12125
Design Engineer:	Woodard & Curran
Construction Management by:	IRWD Staff
Contractor:	Charles King Company
Original Contract Cost:	\$2,593,600
Final Contract Cost:	\$790,600
Original Contract Days:	293
Final Contract Days:	263
Final Change Order Approved On:	August 26, 2024

Contract Change Order No. 1:

Contract Change Order No. 1 (CCO1) accounts for a decrease in the quantities of Bid Item 3 (Rental of Bypass Sewer) and Bid Item 4 (Operation and Maintenance of Bypass Sewer), and for the deletion of Bid Items 6 through 12 (work items related to repairing the existing trunk sewer if required).

The original quantities for Bid Items 3 and 4 were eight weeks and 32 days, respectively. Since Caltrans' completed construction of the bridge foundation extensions for Piers 3 and 4 faster than anticipated, the sewer bypass rental was reduced from eight weeks to seven weeks and the bypass operation was reduced from 32 days to 18 days, leading to a credit of \$21,000 and \$184,000, respectively.

As mentioned above, no sewer line damage was revealed in the inspection video after Caltrans' construction of Piers 3 and 4. Therefore, Bid Items 6 through 12 for the sewer repair and replacement items were not required. The deletion of these six bid items resulted in a credit of \$1,597,200.

CCO1 is in the credit amount of \$1,803,000 and includes a credit of 30 contract days for the deletion of the sewer repair and replacement scope of work. The project was completed prior to

the adjusted substantial completion date of August 31, 2024. CCO1 is provided as Exhibit “A” and a summary of change orders is provided as Exhibit “B”.

FISCAL IMPACTS:

Trunk Sewer Protection within San Diego Creek at State Route 133, Project 12125, is included in the FY 2023-24 Capital Budget. The budget is sufficient to fund the final construction.

ENVIRONMENTAL COMPLIANCE:

This project is subject to California Environmental Quality Act. In conformance with California Code of Regulations Title 14, Chapter 3, Article 6, an Initial Study / Mitigated Negative Declaration (IS / MND) was prepared by Caltrans for the State Route 133 Operational Improvements project inclusive of IRWD’s Trunk Sewer Protection Project. This IS / MND was adopted by Caltrans on March 24, 2020, and revalidated by Caltrans on April 25, 2023. IRWD acting as a responsible agency approved the IS / MND on December 11, 2023, and filed a Notice of Determination with the County of Orange on December 12, 2023.

COMMITTEE STATUS:

This item was not reviewed by a Committee.

RECOMMENDATION:

THAT THE BOARD APPROVE CONTRACT CHANGE ORDER NO. 1 IN THE CREDIT AMOUNT OF \$1,803,000, ACCEPT CONSTRUCTION OF THE TRUNK SEWER PROTECTION WITHIN SAN DIEGO CREEK AT STATE ROUTE 133, AUTHORIZE THE GENERAL MANAGER TO FILE A NOTICE OF COMPLETION, AND AUTHORIZE THE PAYMENT OF THE RETENTION 35 DAYS AFTER THE DATE OF RECORDING THE NOTICE OF COMPLETION FOR PROJECT 12125.

LIST OF EXHIBITS:

- Exhibit “A” – Construction Change Order No. 1
- Exhibit “B” – Construction Change Order Summary

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Exhibit "A"
CONTRACT CHANGE ORDER



Irvine Ranch Water District

15600 Sand Canyon Avenue
P.O. Box 57000
Irvine, CA 92619-7000
(949) 453-5300

C.O. No. 1

Final

Project No. 12125

Trunk Sewer Protection Within San Diego Creek at State Route 133

Project Title

Date: 8/12/2024

THE FOLLOWING CHANGE TO CONTRACT, DRAWINGS AND SPECIFICATIONS IS PROPOSED.	\$ ADDITIONS	\$ DELETIONS	DAYS ±
1. Bid Item 3-Bypass Rental-Reduction of one weekly rental cycle at the unit price of \$21,000/ Week		\$ 21,000.00	
2. Bid Item 4-Bypass Operation-Reduction of 14 days at the unit price of \$13,200 per day.		\$ 184,800.00	
3. Deletion of Bid Item 6-Sewer Removal and Replacement		\$ 426,000.00	
4. Deletion of Bid Item 7-Sewer End Connections		\$ 59,000.00	
5. Deletion of Bid Item 8-Trench Safety Measures for Sewer		\$ 46,000.00	
6. Deletion of Bid Item 9-Dewatering for Sewer Replacement		\$ 238,000.00	
7. Deletion of Bid Item 10-CIPP Short Liner for Spot Repair		\$ 185,000.00	
8. Deletion of Bid Item 11-Operation of Bypass for Sewer Repairs		\$ 475,200.00	
9. Deletion of Bid Item 12-Rental of Bypass for Sewer Repairs		\$ 168,000.00	
The Substantial Completion Date is reduced by 30 days from September 30 to August 31, 2024 due to the deletion of the sewer repair scope.			-30
TOTAL	\$ -	\$ 1,803,000.00	-30

DAYS ±

1. NET AMOUNT THIS CHANGE ORDER	=	\$ (1,803,000.00)	-30
2. ORIGINAL CONTRACT AMOUNT	=	\$ 2,593,600.00	293
3. TOTAL PREVIOUS CHANGE ORDER(S)	=	\$ -	0
4. TOTAL BEFORE THIS CHANGE ORDER (2+ 3)	=	\$ 2,593,600.00	293
5. PROPOSED REVISED CONTRACT AMOUNT TO DATE (1+4)	=	\$ 790,600.00	263

We hereby agree to make the above change subject to the terms of this change order for the credit amount of:

One Million Eight Hundred Three Thousand and No/100

----- Dollars

8/12/24

Charles King Company.

, Steve Radaich

Date

Contractor

By:

SIGNATURE	DATE	APPROVAL LEVEL REQUIRED
<u>Alex Murphy</u> IRWD Engineer or Consulting Engineer	<u>08/12/2024</u> Date	Department Director Approval Required <input type="checkbox"/>
<u>Malcolm A Cortez</u> Engineering Manager	<u>8/13/24</u> Date	Executive Director Approval Required <input type="checkbox"/>
<u>Kevin L Burton</u> Executive Director of Technical Services	<u>8/13/24</u> Date	General Manager Approval Required <input type="checkbox"/>
		Board Approval Required <input checked="" type="checkbox"/>
		640743
		Purchase Order No.

NOTE: The documents supporting this Change Order, including any drawings and estimates of cost, if required are attached hereto and made a part hereof. This Change Order shall not be considered as such until it has been signed by the Owner and the Contractor. Upon final approval, distribution of copies will be made as required. The parties mutually agree the pricing set forth in this Change Order are complete and fair compensation for the entirety of the work authorized under this Change Order and that no additional compensation is warranted nor shall it be allowed.

CHANGES: All workmanship and materials called for by this Change Order shall be fully in accord with the original Contract Documents insofar as the same may be applied without conflict to the conditions set forth by this Change Order. The time for completing the contract will not be extended unless expressly provided for in this Change Order.

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**Trunk Sewer Protection Within San Diego Creek at State Route 133
PR 12125
Construction Change Order Summary**

Contractor: Charles King Company
Design Engineer: Woodard & Curran
Award Date: 12/12/2023

			Contract Amount						Contract Days				Original Completion Date:
			Original Contract Amount: \$2,593,600.00						Original Days: 293				9/30/2024
Change Order	Description	Category	Change Order Line Item Amount	Change Order Amount	Previous Change Orders	Cumulative Total of Change Orders	% of Original Contract Amount	Revised Contract Amount	Change Order Days	Previous Change Orders	Cum. Total C.O. days	Revised Total Contract Days	Revised Completion Date
1	Approved by the Board on August 26, 2024			\$ (1,803,000.00)	\$0.00	\$ (1,803,000.00)	-69.52%	\$790,600.00	-30	0	-30	263	8/31/2024
	1.1 Bid Item 3-Bypass Rental-Reduction of one weekly rental cycle at the unit price of \$21,000/ Week	A	\$ (21,000.00)										
	1.2 Bid Item 4-Bypass Operation-Reduction of 14 days at the unit price of \$13,200 per day.	A	\$ (184,800.00)										
	1.3 Deletion of Bid Item 6-Sewer Removal and Replacement	A	\$ (426,000.00)										
	1.4 Deletion of Bid Item 7-Sewer End Connections	A	\$ (59,000.00)										
	1.5 Deletion of Bid Item 8-Trench Safety Measures for Sewer Replacement	A	\$ (46,000.00)										
	1.6 Deletion of Bid Item 9-Dewatering for Sewer Replacement	A	\$ (238,000.00)										
	1.7 Deletion of Bid Item 10-CIPP Short Liner for Spot Repair	A	\$ (185,000.00)										
	1.8 Deletion of Bid Item 11-Operation of Bypass for Sewer Repairs	A	\$ (475,200.00)										
	1.9 Deletion of Bid Item 12-Rental of Bypass for Sewer Repairs	A	\$ (168,000.00)										
	Contract Time Adjustment	A							-30				

Category	Total Amount	% of Original Contract
A - Owner Directed Change	-\$1,803,000.00	-69.52%
B - Differing/Unknown Condition	\$ -	0.00%
C - External Agency, Regulatory, and/or Permit Required Change	\$ -	0.00%
D - Design Oversight	\$ -	0.00%
Total Change Order Amount (A + B + C + D)	\$ (1,803,000.00)	-69.52%

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August 26, 2024
Prepared by: M. Lindsay / N. Palacio
Submitted by: F. Sanchez / P. Weghorst
Approved by: Paul A. Cook 

CONSENT CALENDAR

FARM LEASES ON IRWD PROPERTIES IN PALO VERDE IRRIGATION DISTRICT

SUMMARY:

IRWD owns 3,106 acres of farmland within the Palo Verde Irrigation District (PVID). IRWD manages these properties through tenant farm leases and contract farming arrangements. The current lease on IRWD's Williams property expires on September 30, 2024. IRWD's Martin and Holt properties are currently farmed under contract arrangements. In June, IRWD solicited proposals to lease these properties from seven interested parties; four proposals were received. Staff recommends that the Board authorize the General Manager to execute a five-year lease agreement with E&S Farming LLC for the Williams and Martin properties at \$335 per acre, and an amendment to the existing lease agreement with Van Dyke Farms to extend the lease term and include the Holt property starting at \$275 per acre, subject to non-substantive changes.

BACKGROUND:

PVID, located in Riverside and Imperial Counties, is adjacent to the Colorado River. PVID has the highest priority rights to water from the Colorado River in California. PVID delivers approximately 450,000 acre-feet (AF) of water per year to 91,400 acres of productive farmland on a first priority basis. Additional water is provided on a third priority basis to approximately 16,000 acres of land located in the adjacent "mesa" area.

In 2016 and 2017, IRWD acquired 3,106 acres of farmland in PVID of which 2,845 acres are water toll acres. All the water toll acres are enrolled in the existing PVID and Metropolitan Water District Following Program. The locations of IRWD's properties in PVID are depicted in Exhibit "A".

Existing IRWD Farm Leases:

IRWD currently administers four farm leases and two contract farming arrangements on its properties. IRWD receives payments for rent and water toll associated with each of the leases, as well as proceeds from hay sales for the contract farmed parcels. (Note that IRWD refers to each property using the name of the previous owner.) The current farm lease with E&S Farming for the Williams property is ending on September 30, 2024. E&S Farming has leased this property since 2017 when IRWD purchased the Williams property. The Martin and Holt properties are currently contract farmed. Pursuing a long-term lease for the Martin and Holt properties would reduce staff time needed to administer and annually track hay sales and operating expenditures. A summary of IRWD's existing farm leases and contract arrangements in PVID is provided as Exhibit "B".

Request for Proposals:

In June, staff solicited a request for proposals from seven local qualified and interested parties to lease all or a portion of 1,821 acres making up the Williams, Martin, and Holt properties. IRWD received four proposals ranging from \$200 to \$335 per acre for various parcels. Exhibit “C” provides a summary of the terms of the four proposals. The proposals were received from E&S Farming, Poole Farming, Red River Farms, and Van Dyke Farms.

Overview of Proposals:

IRWD has long-standing relationships with two of the proposers. E&S Farming has leased the Williams property since 2017, and Van Dyke Farms has leased the Eaton property since 2016. Staff has reviewed the four proposals and recommends a new five-year lease with E&S Farming for both the Williams and Martin properties at \$335 per acre and an amendment to the existing lease with Van Dyke Farms to extend the lease term until July 31, 2029 and include the Holt property starting at \$275 per acre. The proposed lease with E&S Farming is provided as Exhibit “D”. The proposed lease amendment with Van Dyke Farms is provided as Exhibit “E”.

FISCAL IMPACTS:

IRWD receives payments for rent, water toll, and proceeds from hay sales on properties owned in PVID. IRWD also receives payments on fallowed areas through the PVID and Metropolitan Fallowing Program. These payments are applied as offsets to IRWD’s cost of water.

ENVIRONMENTAL COMPLIANCE:

Not applicable.

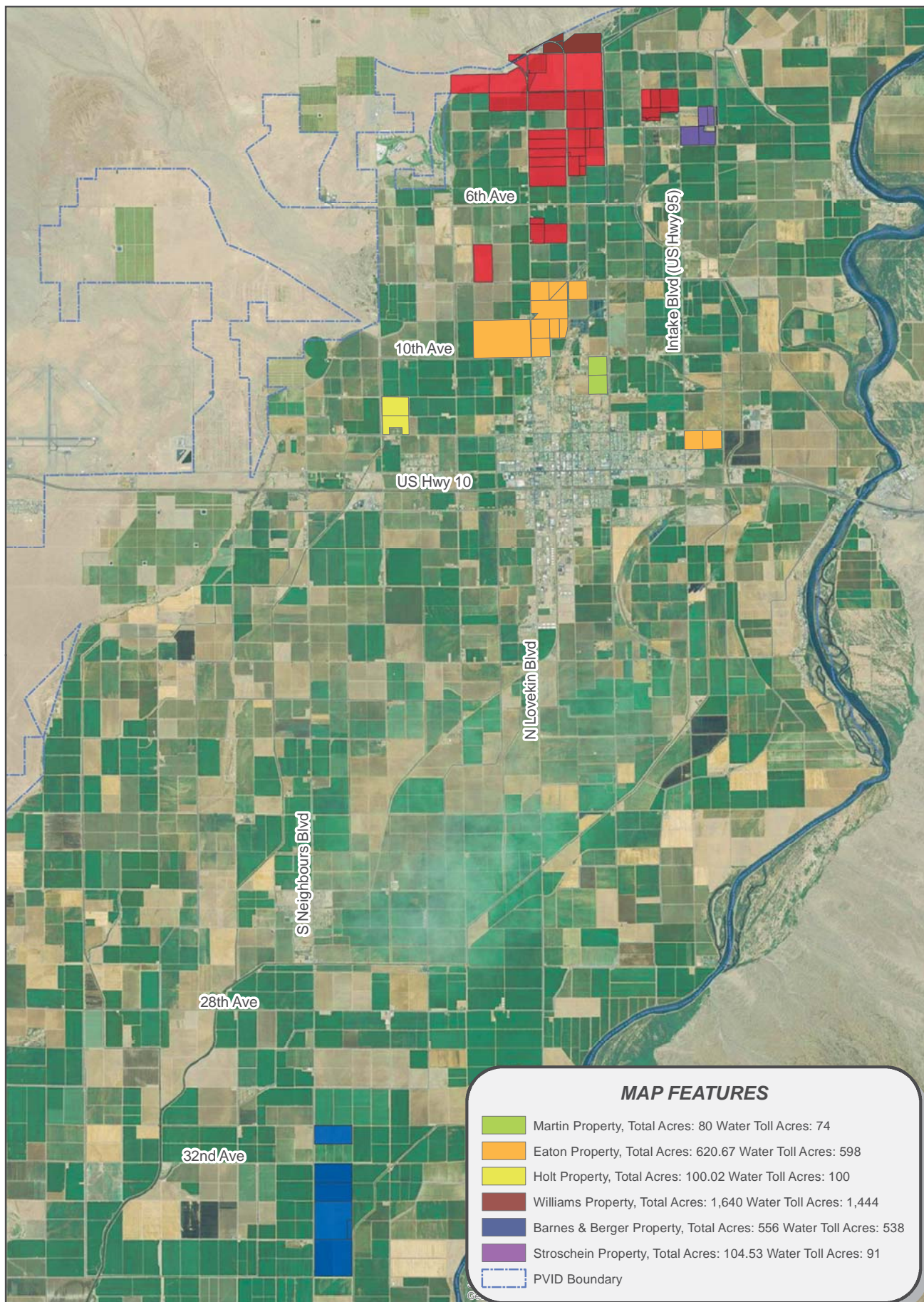
RECOMMENDATION:

THAT THE BOARD AUTHORIZE THE GENERAL MANAGER TO EXECUTE A FIVE-YEAR LEASE AGREEMENT WITH E&S FARMING LLC FOR THE WILLIAMS AND MARTIN PROPERTIES AT \$335 PER ACRE, AND AN AMENDMENT TO THE EXISTING LEASE WITH VAN DYKE FARMS TO EXTEND THE LEASE TERM AND INCLUDE THE HOLT PROPERTY STARTING AT \$275 PER ACRE, SUBJECT TO NON-SUBTANTIVE CHANGES.

LIST OF EXHIBITS:

- Exhibit “A” – Location map of IRWD owned properties in PVID
- Exhibit “B” – Summary of IRWD Farm Leases and Contract Arrangements
- Exhibit “C” – Summary Terms for PVID Leases
- Exhibit “D” – Proposed Lease with E&S Farming
- Exhibit “E” – Proposed Lease Amendment with Van Dyke Farms

IRWD PVID Owned Properties



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Exhibit "B"

Summary of IRWD Farm Leases and Contract Arrangements

PVID Property: Existing Leases	Parcel Details		Existing Lease Terms				
Property	Acres	Water Toll Acres	Lessee	Lease Start Date	End Date	Term (years)	Annual Rent Rate (\$ per farmed ac)
Eaton	620	598	Van Dyke Farms	9/1/2023	8/31/2027	4	9/23 -8/24: \$275 9/24-8/25: \$280 9/25-8/26: \$285 9/26-8/27: \$290
Barnes-Berger ¹	560	538	Coxco LLC	1/1/2022	12/31/2025	4	\$275
Williams	1,641	1,444	E & S Farming	9/30/2021	9/30/2024	3	\$290
Stroschein ²	103	91	Joey Deconinck Farms	1/1/2023	12/31/2027	5	1/23-12/23: \$280 1/24-12/24: \$285 1/25-12/25: \$290 1/26-12/26: \$295 1/27-12/27: \$300
Holt ³	100	100	Chairel Hay Inc	12/1/2016	Not Applicable: Contract Farming		
Martin ³	80	74	Coxco LLC	7/1/2016	Not Applicable: Contract Farming		

¹ Coxco LLC subleasing Barnes-Berger property as of October 2023.

² Lease extension executed by Amendment 1. Term extended from 12/31/2022 to 12/31/2027.

³ Property Managers. Management agreements executed, no end dates. Monthly management.

Note: This page is intentionally left blank.

Exhibit "C"

Summary of Proposed Terms for PVID Leases

Proposal Submitted by	Company Information	Parcels / Acreage	Lease Term	Price per Acre	Annual Rent Expected	Requests Extension
E&S Farming	E&S Farming LLC is the current lessee of the Williams Ranch and has been an established California Limited Liability Company since 2017.	Williams Property (1,641) OR All 1,820.96 <i>(if required to lease)</i>	October 1, 2024, to October 1, 2029 (5 Years)	\$335	\$549,735 to \$610,021	YES
Poole Farming	Poole Farming, LLC and its management were established in 2009. Leadership has 60 years of farming experience and expertise.	All Parcels: 1820.96 acres	October 1, 2024, to September 30, 2029 (5 Years)	\$325 (Williams), \$250 (Holt/Martin)	\$578,325	NO
Red River Farms	Red River Farms (RRF), is a family-owned general partnership that has farmed in the Blythe area for 70 years. RRF currently farms a total of 7,000 acres, in the Cibola Valley of Arizona and in the Palo Verde Valley. (Board Member)	All Parcels: 1820.96 acres	October 1, 2024, to December 31, 2029 (5 Years)	\$275 (Year 1), \$281 (Year 2), \$286 (Year 3), \$292 (Year 4), \$298 (Year 5)	Year 1 \$500,764, Year 2 \$511,690, Year 3 \$520,795, Year 4 \$531,720, Year 5 \$542,646	YES
Van Dyke Farms	Van Dyke Farms is the current lessee of the Eaton Property and has been farming in California since 1971. (Board Member)	260 acres (Holt/Williams)	October 1, 2024, to July 31, 2029 (5 Years)	\$275 (Holt), \$200 to \$275 (160 ac of Williams)	\$65,050	YES

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Exhibit "D"

AGRICULTURAL LEASE (E&S Farming)

This Agricultural Lease (this “**Lease**”) is made as of _____, 2024, (the “**Effective Date**”) by and between IRVINE RANCH WATER DISTRICT (“**District**” or “**Lessor**”) and E&S FARMING, LLC (or Symon and Eileen Attema, DBA Cottonwood Dairy) (“**Lessee**”).

The District owns property comprising approximately 1,720 gross acres, of which 1,518 acres are irrigable, located in Blythe, California, in Riverside County, as further described in Exhibit A, inclusive of irrigation lines and other improvements located thereon (the “**Leased Premises**”).

The District intends to lease to Lessee and Lessee intends to lease from the District the Leased Premises, subject to the terms and conditions set forth in this Lease.

The parties therefore agree as follows:

1. **Lease:** District leases to Lessee and Lessee leases from District the Leased Premises as further described in this Lease.
2. **Term; Option to Extend:** The term of this Lease is five (5) years, commencing October 1, 2024, and terminating on September 30, 2029, unless extended as specified below. If the term of this Lease is not extended, Lessee shall quit and surrender possession of the Leased Premises to the District in as good order and condition as the Leased Premises was delivered to Lessee, reasonable use and wear excepted. Lessee shall be responsible for ensuring that all crops are removed. If, upon expiration of the Term, there remain crops stored on the Leased Premises, Lessee shall have until October 31, 2029 to remove any crops. If crops are not removed by October 31, 2029, Lessee agrees to pay on November 1, 2029 a penalty fee of two and one-half cents per crop bale or uncut equivalent. Any crops not removed by November 30, 2029, will be disposed of by the District as it sees fit without any compensation to Lessee. If there shall be, at the end of the term, any crop that has been cut but not baled, Lessee shall have the right to bale and haul said crop, but in no event shall Lessee be given more than fifteen (15) days after the end of the term to remove said crops or they shall be deemed abandoned to the District.

Lessee shall have one (1) option (“**Option**”) to extend the term of this Lease for an additional two (2) years upon the same terms and conditions as contained in this Lease (the “**Option Term**”). In order to be effective, Lessee must provide written notice to the District on or before June 1 of the calendar year on which the Lease termination would otherwise become effective. Lessee shall have no other right to extend the term beyond the option term unless otherwise agreed by the District. If the Option is exercised, the Rent for the Option Term will be agreed upon by the Parties under mutually acceptable terms.

3. **Authorized Use:** The Leased Premises are leased to Lessee for the purpose of planting, growing and harvesting of crops (but not cannabis) and related activities only, including pasturing sheep. Lessee shall not use, or permit to be used, any of the Leased Premises for any other purpose. Lessee’s use of the Property, including the application of pesticides, herbicides, and fertilizers, shall comply with all applicable laws, ordinances and regulations. All operations

incident to the Leased Premises shall be carried out in accordance with the best course of husbandry prevailing in the vicinity of the Leased Premises, and on failure of Lessee to do so, District reserves the right, after having given thirty (30) days' notice to Lessee, to take necessary remedial measures at the expense of Lessee, for which Lessee agrees to reimburse District on demand.

4. **Rent Payments:** For the use of the Leased Premises, Lessee shall pay to District as rent the annual sum of \$335 per adjusted farmable acre as further described in Exhibit A. Farmable acres shall be calculated as the 1,518 irrigable acres reduced by the number of acres which must be kept fallow pursuant to District's following obligation referenced in Paragraph 9. The farmable acres shall be adjusted to exclude acreage that is identified as not farmable, as further described in Exhibit A. The following period is from August 1 to July 31 of each year of this Lease. The quantity of farmable acres required to be kept fallowed for the next following period is known by June 1 of each year. An initial rental payment for October 1, 2024 - January 31, 2025 will be due upon execution of this Agreement, after which Lessee shall pay the annual rent per adjusted farmable acre during the term of this Lease in advance in two (2) semi-annual installments each, on January 31 and July 31 of each year of the Lease term. Rental payments must be postmarked or received by the due date to be considered timely made, and will be considered late if received after the due date, unless transmitted by mail and postmarked no later than the due date.

5. **Late Rent Charges:** Lessee acknowledges that late payment by Lessee to District of any rent shall cause the District to incur costs not contemplated by this lease, the exact amount of such costs being extremely difficult and impracticable to fix. Such costs include, without limitation, processing and accounting charges. Therefore, if any amount of rent due from Lessee is not received by District when due, for any cause, Lessee shall pay to District an additional sum of ten percent (10%) of the overdue rent as a late charge. The parties agree that this late charge represents a fair and reasonable estimate of the costs that District will incur by reason of late payment by Lessee. Acceptance of any late charge shall not constitute a waiver of Lessee's default with respect to the overdue amount, and is in addition to any and all other rights and remedies available to District.

6. **Water Tolls and Other Taxes:** Lessee shall pay, as additional rent, Lessee's share of the water toll levied by the Palo Verde Irrigation District ("**PVID**") for the associated adjusted farmable acres. Lessee shall also pay any personal property taxes assessed against Lessee's personal property or improvements on the Property; and all other taxes, charges, assessments, fees and penalties not specifically provided to be paid by District herein.

7. **Real Property Taxes and Other PVID Assessments:** District shall pay all ad valorem real property taxes and other annual assessments levied by PVID against the Property that are not payable by Lessee.

8. **Utilities:** Lessee shall pay all costs of operating and maintaining the Property, except as otherwise provided.

9. **Fallowing Obligation:**

- A. Lessee acknowledges that District has entered into or been assigned a land fallowing agreement with PVID and Metropolitan Water District of Southern California ("**MWD**") under which District (and the Lessee) are obligated not to irrigate a portion of the acres of the Leased Premises.
- B. On August 1 of each year, District will be notified by MWD of a fallowing call for the next year pursuant to the fallowing agreement. District shall notify Lessee of the term of the fallowing call and quantity of acres that are to remain fallow.
- C. District and Lessee will cooperate on identifying the fields to be fallowed and submitting the Land Designation Form to MWD pursuant to the fallowing agreement.
- D. By April 1 of each year of the Lease, Lessee may request from the District in writing to rotate other fallowed acres onto the Leased Premises. If the District approves the rotation of other fallowed areas, Lessee shall continue to pay the rent on the farmable acres of the Leased Premises per Section 4. If the Lease is terminated for any reason, Lessee agrees to transfer out any fallowed acres in excess of the required fallowed acres for the Leased Premise (i.e. that were transferred in) within 30 days of the termination of the Lease.
- E. Lessee shall implement the land management measures described in the attached Exhibit B on the fallowed areas. Lessee shall commence fallowing the specified lands not later than the date specified in the fallowing call and shall continue to maintain those areas in a fallowed condition throughout the period specified in the fallowing call.
- F. Notwithstanding any other provision of this Lease, Lessee shall not benefit under the Lease for any temporary or emergency fallowing program or change in fallowing pursuant to MWD's seasonal land fallowing program.

10. **Notices:** Any notice, demand, request, consent, approval, or communication that either party desires or is required to give to the other party or any other person shall be in writing and shall be delivered personally or sent by either United States Postal Service, registered or certified mail, return receipt requested with the postage prepaid, or by overnight courier, addressed to the other party at the address set forth below. Either party may change its address by notifying the other party of the change of address by compliance with this section. Notice shall be deemed communicated within forty-eight (48) hours from the time of mailing or deposit with the overnight courier.

If to District:
Attention: General Manager
Irvine Ranch Water District
15600 Sand Canyon Avenue
Irvine, California 92618

If to Lessee:
E&S Farming LLC
685 Foxtail Way
Norco, California 92860

11. **Assignment and Subletting:** Lessee shall not, either voluntarily or by operation of law, assign, sell, encumber, pledge or otherwise transfer all or any part of Lessee's leasehold estate hereunder, or permit the Leased Premises to be occupied by anyone other than Lessee or Lessee's employees, or sublet the Leased Premises or any portion thereof, without District's prior written consent.

12. **Maintenance:**

- A. Lessee shall, at its sole cost and expense, maintain the Leased Premises, including but not limited to the water delivery system and tiled drainage structures, in good condition and repair, in compliance with all applicable laws, ordinances, and regulations. Lessee shall keep the Leased Premises free of noxious weeds and trash and inoperable discarded equipment. Lessee shall not commit, or permit others to commit, any act on the Leased Premises that would constitute waste or a nuisance.
- B. Lessee shall make diligent effort to prevent the spread of all noxious weeds, rodents and other vertebrate pests on the Leased Premises during the term of this Lease and further agrees to take reasonable measures to protect the Leased Premises from infestation of insects, spiders, mites, snails, shrimps, and other such pests. Lessee shall make a diligent effort to prevent infestation of organisms that may produce disease in plants or animals and that come onto or are delivered on the Leased Premises during the term of this Lease and that might damage crops or animals grown or maintained on the Leased Premises after the term of this Lease. If Lessee fails to make the diligent efforts described in the prior two sentences, then District reserves the right, after having given thirty (30) days' notice to Lessee, to take necessary remedial measures at Lessee's expense for which Lessee shall reimburse District on demand.
- C. In the event the farming operations as conducted by Lessee are not in keeping with the accepted farming practices or are being conducted in a manner not satisfactory to District, then the District may, at its option, cause the necessary work to be done to ensure that said operations are satisfactory to District, and Lessee shall pay to District the costs and expense incurred thereby.

- D. Lessee shall not construct or maintain any permanent improvements on the Leased Premises, or make alterations or additions to the existing improvements beyond routine maintenance, without the prior written consent of District. Additions to or alterations of the Leased Premises, except trade fixtures, immediately become a part of the Leased Premises.

13. **Other Improvements:** Prior to commencing construction of any improvements on the Leased Premises, Lessee shall provide the District with a written request, and obtain the District's written approval for proposed improvements. Lessee's request shall include registered engineer's certified construction plans and specifications. Within ninety (90) calendar days of completion of Lessee's construction of approved improvements on the Leased Premises, as well as completion of any alterations by Lessee of the Leased Premises, or any restorations or reconstruction on the Leased Premises, Lessee shall deliver to the District a complete set of "as-built" plans/specifications for the particular improvements. Lessee shall not commence construction on the Leased Premises prior to obtaining all applicable federal, state, and local permits for any approved uses, construction, or improvement on the Leased Premises. Copies of required permits must be submitted to Lessor prior to construction/installation.

14. **Labor and Other Farm Expenses:** Lessee shall, at its own risk and expense, provide and properly pay for all labor, farm implements, tools, seed, and other materials and services of whatsoever kind or nature which may be used for the permitted uses on the Leased Premises and the performance of Lessee's other obligations under this Lease, and District shall not be liable for any part thereof.

15. **Disclaimer of Warranty-Leased Premises Suitability:** District makes no warranty of the suitability of the Leased Premises' soils, irrigation facilities or other growing conditions for the permitted uses, prevailing climatic conditions, and/or other factors that might pertain to the ability to successfully produce crops pursuant to this lease. Lessee has made its own independent investigation of the suitability of the growing conditions on the Leased Premises. District cannot and does not guarantee that the irrigation facilities located on the Leased Premises will furnish any specified amount of water. District shall not be liable to Lessee nor responsible for any damage to crops, or otherwise, due to the failure of irrigation facilities or unavailability of the water supply.

16. **Lease Subject to Existing Rights of Others:** This Lease is subject to (a) all existing easements, servitudes, licenses and rights-of-way for canals, ditches, levies, roads, highways and telegraph, telephone and electric power lines, pipelines and other purposes, whether recorded or not; and (b) rights of other lessees under any existing or future oil, gas and mineral lease or leases affecting the entire or any part of the Leased Premises, whether recorded or not.

17. **Oil, Gas, and Minerals Rights:** All rights and all minerals, oil, gas and other hydrocarbons located on or under the Leased Premises are particularly reserved to District and are particularly excepted from the Leased Premises. Lessee expressly grants to District, and to the lessee of the oil, gas and mineral rights, and to District's agents and licensees, a right of entry and a right-of-way of ingress and egress into, over and on, the Leased Premises during the term of this Lease for exploration, drilling, and mining of minerals, oil, gas and other hydrocarbons on the Leased Premises. In the event that during the term of this Lease such exploration activities

are carried on and such activities result in destruction of a growing crop, then, in such event, District agree to reimburse Lessee in such amounts as shall be determined to be reasonable for Lessee's actual costs and expenses incident to the production of said crops thus destroyed.

18. **Subordination:** This Lease shall be subordinated to any mortgages or deeds of trust that may subsequently be placed on the Leased Premises, to all advances made under them, to the interest on all obligations secured by them, and to all renewals, replacements, and extensions of them.

19. **Entry by District:** Lessee shall permit District, and its agents and assigns, at all reasonable times to enter the Leased Premises and to use the roads established on the Leased Premises now and in the future, for the purpose of inspection, compliance with the terms of this Lease, exercise of all rights under this Lease, posting notices, and all other lawful purposes. Lessee shall supply District and its agents and assigns with keys and other instruments necessary to enter the Leased Premises.

20. **Abandonment:** Lessee shall not vacate or abandon the Leased Premises at any time during the term of this Lease. If Lessee does abandon, vacate or surrender the Leased Premises, or is dispossessed by process of law or otherwise, then the District shall keep any personal property belonging to Lessee and left on the Leased Premises for a reasonable time, but in no event longer than 15 days after District gives Lessee notice to remove that property from the Leased Premises, after which time, if it has not been reclaimed by Lessee, it shall be treated by District as abandoned.

21. **Insecticides and Herbicides:** Lessee shall not use any insecticide or herbicide or similar compound in its use of the Leased Premises which will impair the suitability of the Leased Premises for the production of any crops which might be raised after the term of this Lease. Lessee's use of any such insecticides or herbicides shall be at Lessee's sole cost and expense and Lessee shall pay all costs to the District arising out of or relating to use of insecticides or herbicides.

22. **Compliance with Law; Indemnification:** Lessee shall, at its sole cost and expense, comply with all requirements of all local, state, federal and other governmental entities which may now or hereafter be in force pertaining to either the Leased Premises or the condition of any of the improvements thereon, and Lessee shall faithfully observe in the use of the Leased Premises all ordinances, regulations, rules, statutes, laws or other requirements of local, state, federal and other governmental entities having authority over the Leased Premises. Lessee shall use no toxic or hazardous substances on the Leased Premises except such substances which are regularly used in similar agricultural operations and the use of which is consistent with sound environmental practices. All use of toxic or hazardous substances shall be in full compliance with all federal, state and local statutes, laws, regulations, rules, ordinances and other requirements. Lessee shall insure that all individuals using toxic or hazardous substances are fully trained in the use, application and disposal of such substances and are fully licensed for their use. Lessee shall comply with Health and Safety Code Section 25359.7(b) by notifying District, in writing, within thirty (30) days of any hazardous substance that comes onto or beneath the Leased Premises, including any hazardous substance stored on the Leased Premises. In the event of any spill or other introduction into the environment of any toxic or hazardous

substance, Lessee or Lessee's agents or employees who become aware of the spill or other introduction shall telephonically notify all appropriate governmental or quasi-governmental entities, as well as District, within twelve (12) hours of first becoming aware of the spill or other introduction. Lessee shall electronically notify and also mail by overnight mail a written notice of the spill or other introduction to all appropriate governmental or quasi-governmental agencies and to District. Lessee shall defend, indemnify and hold harmless District, its officers, agents and employees, from any and all suits, damages, penalties and /or fines arising out of or related to any toxic or hazardous substance release. Lessee shall be responsible for cleaning any toxic or hazardous substance release, or leak, at Lessee's own cost, and shall return the Leased Premises to District free and clean of any toxic or hazardous substance that was not present at the initiation of this Lease. Lessee shall not be liable to District for any spill, release or deposit of any hazardous or toxic substances, materials or waste on the Leased Premises occurring prior to any one of the Lessees first taking possession of the Leased Premises under this or any prior Lease. If this Lease is terminated for a breach of the promises or representations made in this paragraph, or for any other reason, Lessee shall not be released from Lessee's obligations herein. The obligations of this paragraph survive the termination or expiration of this Lease. As used herein the term "toxic or hazardous substances" shall include any substance contained in any federal, state or local list of toxic or hazardous substances. It shall also include any substance which is generally recognized as carcinogenic or otherwise toxic or hazardous by reputable medical authorities.

23. Nonliability of District for Damages; Insurance:

- A. Lessee agree to keep District free from all liability and claim for damages arising from any injury from any cause to any person, including Lessee, or to property of any kind belonging to anyone, including Lessee, while in, upon, or in any way connected with the Leased Premises, including the flooding of county roads or neighboring lands because of improper or inadequate drainage or escaping irrigation waters, during the term of this Lease, or any occupancy under this Lease.
- B. Without limiting Lessee's indemnification of the District, and prior to commencement of Lease, Lessee shall obtain, provide and maintain at its own expense during the term of this Lease, the following policies of insurance of the type and amounts described below and in a form satisfactory to the District on an annual basis. Any requested modifications by Lessee to required insurance coverages and limits shall be permitted, as approved by the District's Risk Manager. Insurers shall possess a policyholders' Rating of A- (or higher) and Financial Size Category of VII (or larger) in accordance with the latest edition of Best's Key Rating Guide, unless otherwise approved by District's Risk Manager.

1. **Commercial General Liability Insurance.** Lessee shall maintain a commercial general liability insurance policy with coverage on an “occurrence” basis, including products and completed operations, property damage, bodily injury, personal injury, and, with limits no less than \$1,000,000 per occurrence, \$2,000,000 aggregate.
2. **Automobile Liability Insurance.** Lessee shall maintain an automobile liability insurance policy covering bodily injury and property damage for all activities of the Lessee arising out of or in connection with this Lease, including coverage for any owned, hired, and non-owned, rented, or leased vehicles, in an amount not less than \$1,000,000 combined single limit for each accident.
3. **Workers’ Compensation Insurance.** Lessee shall maintain a workers’ compensation insurance policy (Statutory Limits) as required by state law, and if required to do so also maintain Employer’s Liability Insurance (with limits not less than \$1,000,000). Lessee shall submit to District, along with the certificate of insurance, a Waiver of Subrogation Endorsement in favor of the District, its directors, officers, employees, and agents.
4. **Property Insurance.** Upon commencement of construction of any property improvements and betterments, or installation of equipment, with approval of District, Lessee shall obtain and maintain insurance on its equipment, improvements, and betterments. Policy shall be provided for replacement value on an “all risk” basis. There shall be no coinsurance penalty provision in any such policy.
5. **Pollution Liability Insurance.** The District may require pollution liability coverage, with a limit of no less than \$2 million per claim and in the aggregate, whenever the intended use of the property under this Lease involves pollution risk to the environment or neighboring properties, including, but not limited to, the potential discharge, dispersal, release, or escape of contaminants or pollutants into or upon land, the atmosphere, watercourse, or body of water. Coverage shall provide for liability arising out of sudden, accidental, and gradual pollution, and remediation. All activities contemplated in this Lease shall be specifically scheduled on the policy as “covered operations.”
6. **Umbrella or Excess Policy.** Lessee may use umbrella or excess policies to provide the liability limits as required in this Lease.

Other Provisions:

1. **Additional Insured.** General liability, automobile liability and all other applicable policies including excess/umbrella liability policies, shall provide, or be endorsed to provide, that the District, its directors, officers, employees, and agents, are additional insureds under such policies.

2. **Primary Non-Contributory.** For any claims related to this Lease, the Lessee's insurance, including umbrella/excess coverage, must be primary and non-contributory. Any insurance or self-insurance maintained by the District, its directors, officers, employees, and agents will be excess of the Lessee's insurance and will not contribute to such insurance.
3. **Waiver of Subrogation.** All insurance coverage maintained pursuant to this Lease must be endorsed to waive subrogation against District, its directors, officers, employees, and agents, or must specifically allow Lessee to waive its right of recovery prior to a loss. This provision applies regardless of whether District has received a waiver of subrogation endorsement from the insurer.
4. **Notice of Cancellation.** Lessee shall oblige its broker and insurers to provide IRWD with a 30-day notice of cancellation (except for nonpayment for which a ten-day notice is required) or nonrenewal of coverage for each required coverage. If the Lessee's insurers are unwilling to provide such notice, then Lessee shall notify District immediately if Lessee fails to renew any of the required insurance coverages or insurer's cancellation or non-renewal.
5. **Requirements Not Limiting.** Requirements of specific coverage features or limits contained in this Section are not intended as a limitation on coverage, limits, or other requirements, or a waiver of any coverage normally provided by any insurance. If the Lessee maintains broader coverage and/or higher limits than the minimums shown above, District requires and is entitled to the broader coverage and/or the higher limits maintained by the Lessee.
6. **Separation of Insureds.** A severability of interests provision must apply for all additional insureds ensuring that Lessee's insurance applies separately to each insured against whom claim is made or suit is brought, except with respect to the insurer's limits of liability. The policies shall not contain any cross-liability exclusions.
7. **Self-Insured Retentions.** Any deductibles or self-insured retentions must be declared in writing.
8. **Timely Notice of Claims.** Lessee shall give District prompt and timely notice of claims made, or suits instituted that arise out of or result from Lessee's performance under this Agreement, and that involve or may involve coverage under any of the required liability policies.
9. **Pass Through Clause.** Lessee agrees to ensure that its subcontractors, and any other party who is brought onto or involved in the activities by Lessee under this agreement (hereinafter collectively "subcontractor"), provide the same minimum insurance coverage and endorsements required of Lessee. Lessee agrees to monitor and review all such coverage and assumes all responsibility for ensuring that such coverage is provided in conformity with the requirements of this section.

24. **Remedies of District on Default:** If Lessee shall fail to comply with each and every one of the covenants, agreements and conditions set forth herein to be performed by said Lessee, District shall have, in addition to other rights or remedies available by law, the right of reentry, after having given fifteen (15) days' notice, and the right to take possession of all crops, harvested or unharvested, and to remove all persons and property from the Leased Premises. Title to any such crops or Lessee's personal property that District elects to retain or dispose of on expiration of the fifteen day period shall vest in the District. Lessee waives all claims against District for any damage resulting from District's retention or disposition of any such alterations or Lessee's personal property. Lessee shall be liable to District for District's costs for storing, removing, and disposition of any alterations or Lessee's personal property.

25. **No Benefit From Increased Fallowing:** Notwithstanding any other provision of the Lease, Lessee shall not benefit under the Lease for any temporary or emergency fallowing program or change in fallowing pursuant to MWD's seasonal land fallowing program.

26. **Termination Without Cause:** Notwithstanding any other provision of this Lease, either the Lessor or the Lessee may terminate the Lease upon one (1) year's written notice to the other Party. Lessee shall pay the prorated rental amount due of any portion of the calendar year in which the termination becomes effective. In the event of a termination by Lessor, Lessor shall compensate Lessee for the loss of crop in the ground at the time of Lease termination. The amount of compensation will be calculated based on the annual amortized crop establishment cost per acre and will be prorated for the remainder of time from the date of Lease termination.

27. **Termination With Cause:** Violation of any term or condition of the Lease or this Amendment will be cause for termination of the Lease, unless corrected within thirty (30) days after Lessor's written notice to Lessee of the violation. In the event of a termination for cause, Lessee will have no right to compensation for any crops that remain on the Leased Premises at the time of termination.

28. **Insolvency; Receiver:** Any one of the following constitutes a breach of this Lease by Lessee:

- A. The appointment of a receiver to take possession of all or substantially all assets of Lessee; or
- B. A general assignment by Lessee for the benefit of creditors; or
- C. An action taken or suffered by Lessee under any insolvency or bankruptcy act.

29. **Surrender of Premises:**

- A. On expiration or earlier termination of the Lease, Lessee shall surrender to District the Leased Premises and all Lessee's improvements and alterations to the Leased Premises in good condition (except for ordinary wear and tear), except for alterations that Lessee has the right to remove or is obligated to remove under this Lease. Lessee shall remove all its personal property and perform all restoration made necessary by the removal of any alterations or personal property within the time stated in this section. If Lessee fails to surrender the Leased Premises to District on expiration as required by this section, Lessee shall hold District harmless from all damages resulting from Lessee's failure to surrender the Leased Premises, including, without limitation, claims made by a succeeding tenant resulting from Tenant's failure to surrender the Leased Premises.
- B. At the expiration or earlier termination of the Lease, Lessee shall remove, at Lessee's expense, all crops pursuant to Section 2 and all equipment placed on the Leased Premises by Lessee. Lessee will return the Leased Premises clear of all weeds and rubbish and in the same condition as the Leased Premises were provided to Lessee at the commencement of the Lease.

30. **Holding Over:** If Lessee, with District's written consent, remains in possession of the Leased Premises after expiration or termination of the term, or after the date in any notice given by District to Lessee terminating this lease, such possession by Lessee shall be deemed to be a month-to-month tenancy terminable on thirty (30) days' written notice given at any time by either party. All provisions of this Lease, except those pertaining to term, shall apply to the month-to-month tenancy.

31. **No Waiver:** No waiver of any default or breach of any covenant of this Lease by either party shall be implied from any omission by either party to take action on account of such default if such default persists or is repeated.

32. **Governing Law:** The rights and liability of the parties made under this Lease shall be interpreted in accordance with the laws of the State of California.

33. **Integration:** This Lease constitutes the complete expression of the agreement between the parties and supersedes any prior agreements, whether written or oral, concerning the subject of this Lease. Any prior agreements between the Parties are terminated as of the Effective Date and be of no further force and effect. Any modification of or addition to this Lease must be in writing signed by both parties.

34. **Counterparts:** This Lease may be executed in counterparts and/or by electronic signature, each of which shall be deemed an original but both of which together shall constitute one and the same agreement.

District	Lessee
IRVINE RANCH WATER DISTRICT	E&S Farming LLC
By: _____ Paul Cook, General Manager	By: _____ Symon Attema, Owner
Address: 15600 Sand Canyon Avenue Irvine, California 92618	Address: 685 Foxtail Way Norco, California 92860
Approved as to form:	
By: _____ General Counsel	

**Exhibit A
Leased Premises**

Assessor Parcel No.	Farm Field No.	MWD Program Field No.	MWD Program Qualified Acres	PVID Parcel No.	Total Acres	Water Toll Acres	Adjusted Farmable Acres
815-180-018	27	65359-001	63	716001	77.87	63	63
827-120-010-3 827-140-001-7 POR	25	65359-010	18 n/a	508005	18.4	18	18
827-130-005-0 827-140-001-7 POR	25	65359-011	n/a 17	508006	18.4	17	17
830-050-004	26	65359-003	9	517013	9.7	9	9
830-050-008	26	65359-002	28	517012	28.58	28	28
830-050-010	26	65359-004	49	517014	48.5	49	49
827-040-005 POR	6, 6A	65359-013	40	505013	40	40	147
827-040-005 POR	5-5A	65359-014	38	505016	40	38	
827-040-005 POR	7-8	65359-015	38	505014	35.45	38	
827-040-005 POR	7-8	65359-016	38	505015	35.45	38	
827-040-004 POR	11, 29	65359-012	25	505012	30.74	25	25
827-040-004 POR	n/a	n/a	n/a	505018	2.8	2	2
827-040-004 POR	9-10	65359-017	38	505010	40	38	38
827-040-004 POR	9-10	65359-018	38	505011	40	38	38
827-072-001 827-072-002	41 40	65359-005	17 26	504010	40	43	43
827-072-003	40	65359-006	33	504011	40	33	33
827-072-004	42	65359-007	19	504012	20	19	19
827-072-005	42	65359-008	7	504013	7.43	7	7
827-072-010	43	65359-009	9	504014	10	9	9
827-120-002-6 827-120-001-5	19	65359-019	77	508015	79.24	77	77
827-040-006-3 POR	12	65359-030	22	505008	22	22	22
827-040-006-3 POR 827-040-003-0	12 15	65359-034	15 7	505009	26.26	22	22
827-050-003-1	4	65359-029	38	505007	40	38	38
827-050-007 827-050-005-3	22 23	65359-022	36 35	505003	75.2	71	71
827-050-001-9	3	65359-023	36	505004	40	36	36
827-050-002-0 POR	1-2	65359-024	38	505005	40	38	38
827-050-002-0 POR	1-2	65359-025	39	505006	40	39	39
827-120-003-7 827-120-004-8	20	65359-027	73	508018	78.85	73	73
827-120-007-1 827-120-006-0	24	65359-037	40	508011	40	40	40
827-120-011-4	24	65359-038	40	508013	40	40	40

827-120-005-9		24		53	508019	55.4	53	53
827-120-008-2		n/a	65359-028	n/a				
827-130-012-6	POR	21	65359-036	39	508008	40	39	39
827-130-012-6	POR	21	65359-026	39	508007	38.5	39	39
827-030-003-9	POR	13	65359-032	59	506007	64	59	59
827-030-003	POR	16	65359-035	98	506008	118.28	100	17
827-020-004-9								
827-020-018	POR	n/a	n/a	n/a	916001	40	0	0
827-020-018-2	POR	14	65359-031	10	506006	40	10	0
827-020-002								
827-020-001		28	65359-999	3	506014	35.62	9	9
827-020-003								
815-180-011		18		13				
815-180-006		n/a	65359-033	n/a	716002	27.5	13	13
815-180-003		n/a		n/a				
827-040-001-8		n/a	n/a	n/a	505017	0.4	0	0
830-030-004	POR	17	65359-020	38	518014	40	38	38
830-030-004	POR	17	65359-021	36	518015	36.37	36	36
839-150-002		M-1	63952-001	37	529038	40	38	38
839-150-001		M-2	63952-002	36	529039	40	36	36
TOTAL:				1507		1720.94	1518	1418

EXHIBIT "B"

Land Management Measures

EXHIBIT F

LAND MANAGEMENT MEASURES

Land management measures to control weed growth and wind erosion are an integral part of the PVID/Metropolitan Forbearance and Fallowing Program. PVID and Metropolitan have agreed that each Participating Landowner would be required to implement these land management measures as a condition for participation in the Program, and that implementation of these land management measures would be an obligation of each Participating Landowner under the terms of the applicable Landowner Agreement.

The Program-related land management measures do not preempt other measures required by federal, state or local agencies for farmlands within their jurisdiction, but are to be implemented in conjunction with any other required measures.

Weed Control

Weed and invasive plant growth on irrigated fields due to rainfall or water seepage from canals or from neighboring irrigated farmland (especially along the outside borders of non-irrigated fields) would be controlled by the Landowner. Control measures would be undertaken by the Landowner to prevent the spread of these plants, their consumptive use of water and associated issues concerning the spread of plant disease, insects and other pests. Weeds and other invasive plants would be controlled using measures of each Landowner's choice, including chemical, biological or mechanical methods.

Only chemicals approved for use by the California Department of Food and Agriculture would be allowed to be used for controlling weeds. As with all farm-related activities in the PVID, Landowner shall obtain all proper local, state and federal permits for the use of herbicides, pesticides and insecticides. Also, Landowner shall comply with applicable regulations that pertain to solid waste management and air quality that apply when handling or disposing of farm residues and trash.

Erosion Control

To protect soil resources within the Palo Verde Valley and to maintain Landowner's eligibility for U. S. Department of Agriculture (USDA) benefits (excluding existing programs that fund the reduction or elimination of production of any agricultural crop), Landowner shall implement wind erosion control measures for Fallowed Land. The measures may include the following:

Stubble Residue and Sod Remnants

Leaving Fallowed Lands with stubble or sod remnants to lower wind speeds at the soil surface and provide a root system to help hold soil in place and minimize wind erosion.

Clod Plowing

For crops that would not leave an adequate stubble residue (such as cotton and many vegetable or melon crops) clod plowing may be implemented. The term clod plowing refers to the practice of tilling a field when it is wet so that large, damp clumps of soil are produced. These wet clumps break down into clods of soil that have a low susceptibility to wind erosion because they contain a relatively hard crust that minimized detachment of soil particles.

Cloddy soil remains effective only as long as a hard crust remains on the clods. Rain can wear on soil crusts reducing their effectiveness. During episodes of wind erosion, transported soil particles can also abrade soil crusts. Accordingly, clod plowing must occasionally be repeated in order for this management measure to continue to minimize wind erosion from Fallowed Land. The maximum continuous period that any single episode of clod plowing shall be used as an erosion control measure on Fallowed Land shall be three (3) years. After three (3) years, one of the following shall be implemented:

- The Fallowed Land will be subjected to a new round of clod plowing conducted when the soil has adequate moisture to allow development of new clods
- The Fallowed Land will be returned to active, irrigated production and Landowner will commence Fallowing other Program Qualified Land

For Program Qualified Land on which the soil types have been classified as Highly Erodible Land (HEL) by the National Resource Conservation Service, Landowner will conduct the Fallowing in accordance with the Farm Service Agency Conservation Plans developed for those lands.

Remedial Measures

In the event that Metropolitan or PVID determine through inspection of the Fallowed Land that additional erosion control measures are required, it shall give written notice to Landowner to implement additional measures at Landowner's cost. The requirement to implement such additional measures shall be based on "noticeable wind erosion" as evidenced by wind-borne soil deposition (such as deposits of fine material adjacent to wind barriers), lack of soil crusts on clods, or the visible transport of topsoil by the wind. Additional erosion control measures that may be required include:

- Spreading mulch or manure over eroding soils
- Seeding a cover crop if natural precipitation is adequate for this purpose, provided that only shallow rooted cover crops are used
- Conducting additional clod plowing to reestablish a thick crust on clods within the affected area, and utilizing the addition of mulch to improve effectiveness

The use of water other than natural rainfall to implement any of the erosion control measures may result in a deduction from payments by Metropolitan to Landowner in accordance with subsection 11.1.1.5 (Deduction for Deficient Saved Water).

Exhibit "E"

AMENDMENT NO. 1 TO AGRICULTURAL LEASE

This AMENDMENT NO. 1 TO AGRICULTURAL LEASE (the "**Amendment**") is dated _____, 2024 ("**Effective Date**") and is between IRVINE RANCH WATER DISTRICT (the "**Lessor**") and VAN DYKE FARMS, INC., a California corporation ("**Lessee**"). The Lessor and the Lessee together are the "**Parties**."

The District owns property comprising approximately 100.02 gross acres, of which 100 acres are irrigable, located in Blythe, California, in Riverside County, known as Assessor's Parcel Nos. 821-160-010 and 821-160-00 (the "**Holt Property**."

The Parties entered into an *Agricultural Lease* dated October 1, 2023 (the "**Lease**"), which expires by its terms on August 31, 2027. The Parties intend by this Amendment to amend the definition of Leased Premises to include the Holt Property, extend the term of the Lease, and make certain other changes to the provisions of the Lease.

The Parties therefore amend the Lease as follows:

1. Leased Premises: The Leased Premises, as defined in the lease, is hereby amended to include the Holt Property in addition to the prior leased area. A depiction of the new Leased Premises is attached as Exhibit A.

2. Term Extensions: The term of the Lease, as set forth in Section 2 of the Lease, is hereby extended by approximately two (2) years, from August 31, 2027 to July 31, 2029, subject to the same terms and conditions as set forth in the Lease, except as modified herein. The dates for removal of crops described in Section 2 of the Lease will correspondingly be extended by two years.

3. Rent: Beginning as of the Effective Date, Lessee shall pay Lessor as rent for the new Leased Premises the annual sum as further described in the rent schedule contained in Exhibit B of this Amendment. Lessee shall pay the annual rent per farmable acre during the term of the Lease in advance in two (2) semi-annual installments each on January 31 and July 31 of each year of the Lease Term. A rental payment for farmable acres of the Holt Property for the period of October 1, 2024 - January 31, 2025 will be due upon execution of this Agreement. Rental payments must be postmarked or received by the due date to be considered timely made, and will be considered late if received after the due date, unless transmitted by mail and postmarked no later than the due date.

4. No Benefit From Increased Fallowing: Notwithstanding any other provision of the Lease, Lessee shall not benefit under the Lease for any temporary or emergency fallowing program or change in fallowing pursuant to MWD's seasonal land fallowing program.

5. Termination Without Cause: Notwithstanding any other provision of the Lease, either the Lessor or the Lessee may terminate the Lease upon one (1) year's written notice to the other Party. Lessee shall pay the prorated rental amount due of any portion of the calendar year in which the termination becomes effective. In the event of a termination by Lessor, Lessor shall compensate Lessee for the loss of crop in the ground at the time of Lease termination. The

amount of compensation will be calculated based on the annual amortized crop establishment cost per acre and will be prorated for the remainder of time from the date of Lease termination.

6. Termination With Cause: Violation of any term or condition of the Lease or this Amendment will be cause for termination of the Lease, unless corrected within thirty (30) days after Lessor's written notice to Lessee of the violation. In the event of a termination for cause, Lessee will have no right to compensation for any crops that remain on the Leased Premises at the time of termination.

7. Lease Provisions To Remain In Effect: Except as modified in this Amendment, all terms and provisions of the Lease will be and remain in full force and effect.

The Parties are signing this Amendment as of the Effective Date.

Date: _____

IRVINE RANCH WATER DISTRICT

By: _____

Paul A. Cook
General Manager

Approved as to Form:

By: _____
Hanson Bridgett, LLP

Date: _____

VAN DYKE FARMS, INC.

By:
Its:

Exhibit A Leased Premises

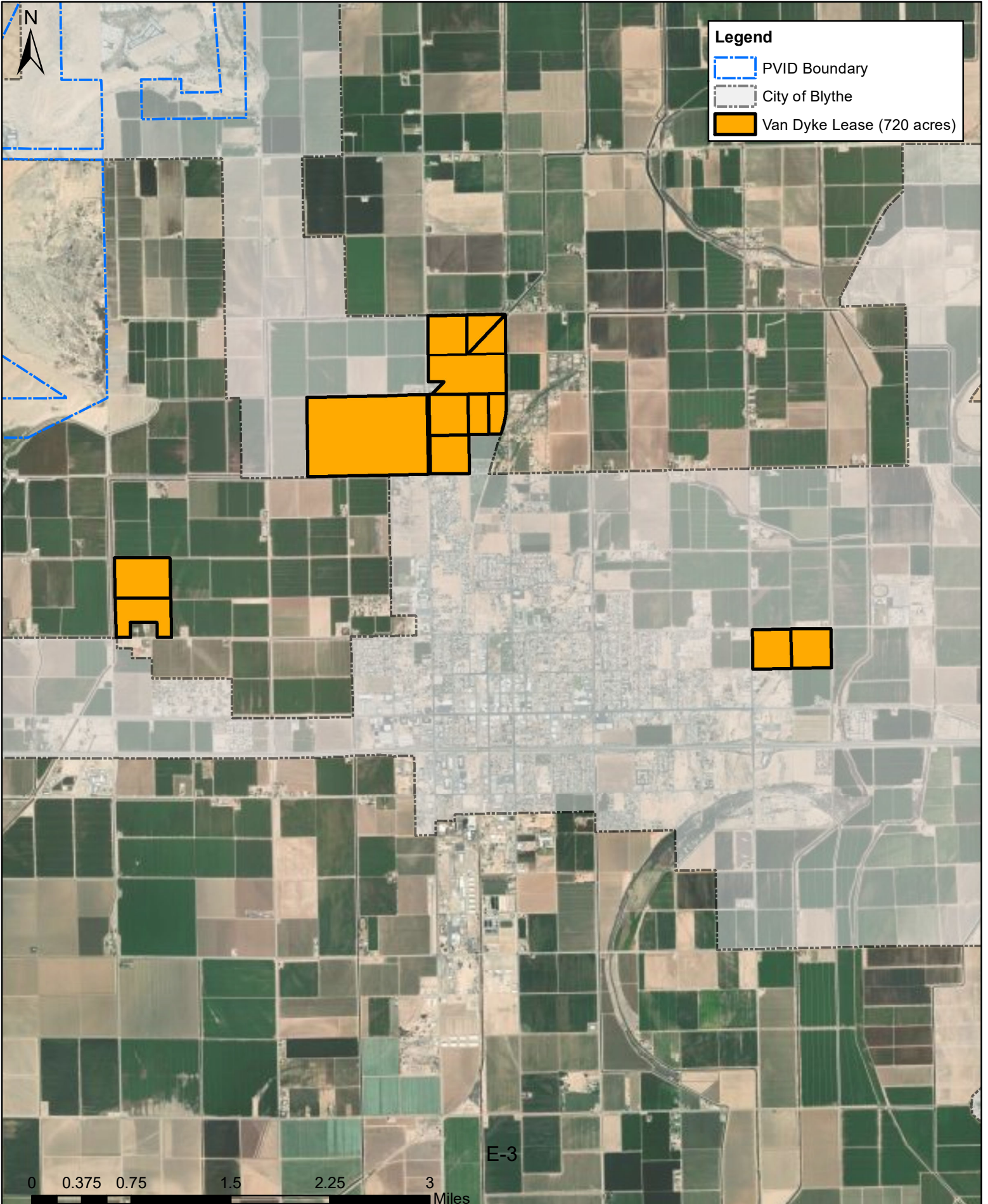



Exhibit B

Rent Schedule

<p>Year 1: Oct 2024-Jul 2025¹</p> <p><i>payable in semi-annual installments upon execution of the Amendment and January 31, 2025</i></p>	<p>Holt Property- \$275 per acre. Annual rent calculated by multiplying the per-acre rent value by the number of farmable acres (100 irrigable acres minus fallowed acres during that following year)</p> <p>Prior leased area- \$280 per acre. Annual rent calculated by multiplying the per-acre rent value by the number of farmable acres (598 irrigable acres minus fallowed acres during that following year)</p>
<p>Year 2: Aug 2025-Jul 2026</p> <p><i>payable in semi-annual installments on July 31, 2025 and January 31, 2026</i></p>	<p>Holt Property- \$280 per acre. Annual rent calculated by multiplying the per-acre rent value by the number of farmable acres (100 irrigable acres minus fallowed acres during that following year)</p> <p>Prior leased area- \$285 per acre. Annual rent calculated by multiplying the per-acre rent value by the number of farmable acres (598 irrigable acres minus fallowed acres during that following year)</p>
<p>Year 3: Aug 2026-Jul 2027</p> <p><i>payable in semi-annual installments on July 31, 2026 and January 31, 2027</i></p>	<p>Holt Property- \$285 per acre. Annual rent calculated by multiplying the per-acre rent value by the number of farmable acres (100 irrigable acres minus fallowed acres during that following year)</p> <p>Prior leased area- \$290 per acre. Annual rent calculated by multiplying the per-acre rent value by the number of farmable acres (598 irrigable acres minus fallowed acres during that following year)</p>
<p>Year 4: Aug 2027-Jul 2028</p> <p><i>payable in semi-annual installments on July 31, 2027 and January 31, 2028</i></p>	<p>Holt Property- \$290 per acre. Annual rent calculated by multiplying the per-acre rent value by the number of farmable acres (100 irrigable acres minus fallowed acres during that following year)</p> <p>Prior leased area- \$295 per acre. Annual rent calculated by multiplying the per-acre rent value by the number of farmable acres (598 irrigable acres minus fallowed acres during that following year)</p>
<p>Year 5: Aug 2028-Jul 2029</p> <p><i>payable in semi-annual installments on July 31, 2028 and January 31, 2029</i></p>	<p>Holt Property- \$295 per acre. Annual rent calculated by multiplying the per-acre rent value by the number of farmable acres (100 irrigable acres minus fallowed acres during that following year)</p> <p>Prior leased area- \$300 per acre. Annual rent calculated by multiplying the per-acre rent value by the number of farmable acres (598 irrigable acres minus fallowed acres during that following year)</p>

¹ Rent for the Holt Property for the period of October 1, 2024 – January 31, 2025 is due upon execution of the Amendment. Rent for the prior leased area has already been paid through January 31, 2025. The next rent payment due for the prior leased area will be for the February 1, 2025-July 31, 2025 billing period.

August 26, 2024
Prepared by: R. Mori / A. Uk
Submitted by: K. Burton / P. Weghorst
Approved by: Paul A. Cook 

ACTION CALENDAR

SYPHON RESERVOIR IMPROVEMENTS VARIANCE AND FINAL ENVIRONMENTAL IMPACT REPORT ADDENDUM NO. 1

SUMMARY:

The AECOM design team has made significant progress on the Syphon Reservoir Improvement Project and is now advancing to the design to the 100% completion level. As the design progressed, AECOM and staff identified additional engineering services that are required to successfully complete the design. In parallel, staff advanced the development of the mitigation package that is required to offset the environmental impacts of the project, as identified in the Syphon Reservoir Improvement Project (SRIP) Final Environmental Impact Report (FEIR). A primary component of the mitigation package is the design and construction of off-site wetlands and riparian habitat that will be located adjacent to the San Joaquin Marsh. Environmental review of the proposed construction for the offsite habitat has been completed, and Addendum No. 1 to the FEIR has been prepared. Staff recommends that the Board:

- Authorize the General Manager to execute Variance No. 3 in the amount of \$660,000 with AECOM for additional engineering design services, and
- Approve Addendum No. 1 to the FEIR, including the determinations set forth in the addendum, approve the modifications to the project consisting of off-site habitat as mitigation for the Syphon Reservoir Improvement Project and authorize staff to post and file a Notice of Determination.

BACKGROUND:

Improvements to Syphon Reservoir are needed to resolve challenges associated with having insufficient seasonal storage for recycled water supplies. Each year, recycled water demands fluctuate considerably due to variations in weather patterns. IRWD's recycled water storage reservoirs allow IRWD to store recycled water produced at IRWD's treatment plants during periods of low demand (generally in the winter) and then use the storage during periods of high demand (generally in the summer). Without adequate seasonal storage, recycled water produced during the winter in excess of available storage is lost to ocean disposal, and IRWD must then purchase costly supplemental imported water to meet summer demands.

In February 2021, IRWD contracted with AECOM to design improvements to Syphon Reservoir that would expand the storage capacity of the reservoir to about 5,000 acre-feet (AF) to meet the projected seasonal storage needs. AECOM completed the 90% design and is advancing to final design, which is estimated for completion in June 2025. Major project facilities include the zoned earthen embankment dam, spillway, inclined inlet / outlet, algae filtration, and disinfection systems. The project also includes modification of the Sand Canyon Avenue and Portola Parkway intersection and construction of a new site access road from that intersection to Syphon Reservoir to establish a new, dedicated access road into the site separate from the existing shared

site access road through the Crean Lutheran High School Athletics Complex. The construction of the site access improvements is underway and is scheduled for completion in November 2024.

Dams in California are regulated by the Department of Water Resources Division of Safety of Dams (DSOD). As part of the approval process for a new or replacement dam, each design submittal is transmitted to DSOD for review. To date, staff transmitted the 30%, 60%, and 90% design submittals to DSOD. DSOD completed reviews of the 30% and 60% submittals and is currently reviewing the 90% submittal. The 30% and 60% DSOD design reviews resulted in the identification of review comments and requests for additional engineering services that AECOM was tasked to address and resolve.

In June 2021, IRWD established an Independent Design & Safety Review Panel (IDSRP), which is comprised of five nationally recognized dam professionals with expertise in dam design, geotechnical and geological considerations, seismic considerations, hydrology, hydraulic structures, risk-informed decision making, and constructability. The purpose of the IDSRP is to provide an objective, third-party peer review of the design, engineering, and overall safety of the project and to provide comments, ideas, and recommendations that will be evaluated, addressed, and incorporated into the design. The IDSRP conducted comprehensive project reviews at the 30%, 60%, and 90% design completion levels. Each design review resulted in the identification of review comments, information requests, and requests for additional engineering analyses that AECOM was tasked to address and resolve.

Variance No. 3:

Since starting the preliminary design in February 2021, AECOM has made significant progress on the project and is now advancing to the 100% design completion level. As the design progressed, AECOM and staff identified additional engineering services that are required to be completed that were not included in the original scope of work. AECOM submitted Variance No. 3 in the amount of \$660,000 for the additional services that are required to successfully complete the project.

The additional services have been grouped into three distinct categories as summarized below. The cost of the additional services by category is provided below, and a summary of each additional service is described in greater detail in Variance No. 3, which is provided as Exhibit "A".

Additional Services Resulting from DSOD Design Review Comments	\$189,800
Additional Services Resulting from IDSRP Design Review Comments	\$114,880
Additional Services Resulting from Design Development	\$355,320

Staff reviewed the variance request and recommends that the Board authorize the General Manager to execute Variance No. 3 in the amount of \$660,000 with AECOM for the additional engineering design services described herein.

Addendum No. 1 to the FEIR:

In September 2017, IRWD contracted with Environmental Science Associates to prepare an Environmental Impact Report for the overall project. The FEIR was adopted by the IRWD Board of Directors at its July 26, 2021, meeting. A Notice of Determination was filed with the Orange County Clerk-Recorder and the CA State Clearinghouse on July 27, 2021.

The FEIR determined that construction of the expanded reservoir would result in impacts to woody riparian and freshwater marsh habitats and specified that creation of both on-site and off-site riparian / wetland habitat would be needed to assure that no net loss of such habitats would occur and to provide appropriate compensation for temporary loss of habitat value. Mitigation Measure BIO-4 in the FEIR stated that off-site land would be set aside for creation or restoration of habitat. In 2023, after consultation with United States Fish and Wildlife Service (USFWS) and the California Department of Fish and Wildlife (CDFW), the off-site mitigation area was selected as the 33.4-acre IRWD property in the San Joaquin Marsh south of Campus Drive. USFWS and CDFW have accepted the overall mitigation package in concept and agreed that the implementation of proposed onsite riparian / wetland mitigation and off-site mitigation at the San Joaquin Marsh site would adequately compensate for all impacts to riparian and wetland habitat and associated wildlife identified in the FEIR.

Environmental review of the proposed construction for the offsite habitat has been completed, and Addendum No. 1 to the FEIR has been prepared. The purpose of the Addendum is to describe and evaluate the potential environmental effects associated with the construction of the proposed off-site habitat. A location map of the off-site mitigation site is provided as Exhibit “B”.

Findings of Addendum No. 1 to FEIR:

The construction of off-site habitat for the Syphon Reservoir Improvement Project would not change the regulatory framework, impact discussion, mitigation measures, or significant conclusions as described in the FEIR. Environmental review of the construction of off-site habitat has been completed, and Addendum No. 1 to the FEIR has been prepared. Based on the information and analysis in the proposed Addendum No. 1, the Determination section of the addendum sets forth the proposed determinations by IRWD that no conditions described in the California Environmental Quality Act (CEQA) calling for the preparation of a subsequent EIR have occurred. A copy of Addendum No. 1 is provided as Exhibit “C”.

Project Schedule:

The dam design is nearing completion and will be completed in accordance with the following schedule milestones:

Final Design Complete and Final Plans Approved	June 2025
Construction Bid Opening	September 2025
Notice of Award – Construction	October 2025

FISCAL IMPACTS:

The Syphon Reservoir Improvements, Project 03808, is included in the FY 2024-25 Capital Budget. Sufficient budget is available to fund the recommendations presented herein.

Grant Funding:

Syphon Reservoir has been awarded both federal and state grant funding. To date, the project has received \$24.5 million in federal Title XVI grant funding from the Bureau of Reclamation. The project was also originally awarded \$15 million in state grant funding from the State Water Resources Control Board's (State Board) Water Recycling Funding Program. After the State's significant budget deficit in FY 2023-2024, that grant award was reduced to \$5 million in the spring of 2024. Recently, the State Board restored an additional \$3 million of the original grant to the project, bringing the total grant award to \$8 million with the possibility of further grant funding restoration before April 2025.

ENVIRONMENTAL COMPLIANCE:

Section 15164 of CEQA Guidelines provides for the preparation of an addendum to a previously certified EIR by a lead agency or a responsible agency if some changes or additions to the project are necessary but none of the conditions described in CEQA calling for preparation of a subsequent EIR have occurred. Based on the information and analysis in the proposed Addendum No. 1, the Determination section of the Addendum sets forth the determinations by IRWD that none of such conditions have occurred.

COMMITTEE STATUS:

This item was reviewed by the Engineering and Operations Committee on August 21, 2024.

RECOMMENDATION:

THAT THE BOARD AUTHORIZE THE GENERAL MANAGER TO EXECUTE VARIANCE NO. 3 IN THE AMOUNT OF \$660,000 WITH AECOM FOR ADDITIONAL ENGINEERING DESIGN SERVICES FOR PROJECT 03808, AND APPROVE THE PROPOSED ADDENDUM NO. 1 TO THE SYPHON RESERVOIR IMPROVEMENT PROJECT FINAL ENVIRONMENTAL IMPACT REPORT, INCLUDING THE DETERMINATIONS SET FORTH IN ADDENDUM NO. 1, APPROVE THE MODIFICATIONS TO THE PROJECT CONSISTING OF THE OFF-SITE HABITAT AS MITIGATION FOR THE SYPHON RESERVOIR IMPROVEMENTS PROJECT AND AUTHORIZE STAFF TO POST AND FILE A NOTICE OF DETERMINATION.

LIST OF EXHIBITS:

- Exhibit "A" – AECOM Variance No. 3
- Exhibit "B" – Off-site Mitigation Location Map
- Exhibit "C" – Addendum No. 1 to the Syphon Reservoir Improvements Final EIR

IRVINE RANCH WATER DISTRICT
PROFESSIONAL SERVICES VARIANCE

Project Title: Syphon Reservoir Improvement Project

Project No.: 03808 Date: 07/22/2024
Purchase Order No.: 628959 Variance No.: 3

Originator: IRWD ENGINEER/CONSULTANT Other (Explain) _____

Description of Variance (*attach any back-up material*):

Additional engineering services to address additional design review comments from DSOD and the Independent Design and Safety Review Panel and for additional items identified during design development. The scope of work is summarized in the attached AECOM variance request letter.

Engineering & Management Cost Impact:

Classification	Manhours	Billing Rate	Labor \$	Direct Costs	Subcon. \$	Total \$
Additional engineering services per attached AECOM letter	3,996	Varies	659,660	340	0	660,000
Total \$ =						660,000

Schedule Impact:

Task No.	Task Description	Original Schedule	Schedule Variance	New Schedule
--	Additional engineering services per attached AECOM letter	N/A	None	N/A

Required Approval Determination:

Total Original Contract	\$ <u>4,747,749</u>	<input type="checkbox"/> Director: Cumulative total of Variances less than or equal to \$75,000.
Previous Variances \$	<u>178,835</u>	<input type="checkbox"/> Executive Director: Cumulative total of Variances less than or equal to \$125,000.
This Variance \$	<u>660,000</u>	<input type="checkbox"/> General Manager: Cumulative total of Variances less than or equal to \$200,000.
Total Sum of Variances	\$ <u>838,835</u>	<input checked="" type="checkbox"/> Board: Cumulative total of Variances greater than \$200,000.
New Contract Amount	\$ <u>5,586,584</u>	
Percentage of Total Variances to Original Contract	<u>17.7</u> %	

ENGINEER/CONSULTANT: AECOM
Company Name

Michael Smith 07/22/2024
Project Engineer/Manager Date

B. C. P. 07/22/2024
Engineer's/Consultant's Management Date

IRVINE RANCH WATER DISTRICT

Kevin L Burton 7/24/24
Department Director Date

General Manager/Board Date

IRVINE RANCH WATER DISTRICT

PROFESSIONAL SERVICES VARIANCE REGISTER

Project Title: <u>Syphon Reservoir Improvement Project</u>				
Project No.: <u>03808</u> Project Manager: <u>Rich Mori</u>				
Variance No.	Description	Dates		Variance Amount
		Initiated	Approved	
1	Additional engineering services and RIDM support	11/28/2022	12/02/2022	\$0
2	Additional engineering services to address IDSRP preliminary design review comments	11/30/2022	12/02/2022	\$178,835
3	Additional engineering services to address additional DSOD and IDSRP design review comments and for additional items identified during design development	07/22/2024		\$660,000

July 22, 2024

Mr. Rich Mori, P.E.
Engineering Manager – Capital Projects
Irvine Ranch Water District
15600 Sand Canyon Avenue
Irvine, California 92618

Subject: Variance Request No. 3 for Syphon Reservoir Improvements Project, PR 03808
Additional Engineering Services

Dear Rich,

This letter provides a description of additional engineering services and a fee estimate related to the Syphon Reservoir Improvements Project (SRIP). These services will be provided for Irvine Ranch Water District (IRWD), referred to herein as the District.

AECOM is currently providing design services for the District's Syphon Reservoir Improvement Project (SRIP). AECOM has recently been asked by the California Division of Safety of Dams (DSOD) and the District's Independent Design and Safety Review Panel (IDSRP) to provide additional services during the final design phase of the project. Also, additional tasks have been identified that will need to be completed during final design development. The scope of work and budget for these additional services are summarized below.

Scope of Work

Task 1: Additional Tasks Resulting from DSOD Design Review Comments

A. Incorporate IRWD, OCPW, Caltrans, and APWA detail sheets. DSOD has requested that all standard details that are referenced in the construction plans be included in the plan set. AECOM will add all standard details to the plan set from agencies including IRWD, Orange County Public Works, Caltrans, and American Public Works Association. This will add 43 sheets to the plan set and require edits to the details to tailor them for the project improvements.

B. Incorporate IRWD standard specifications and associated revisions. DSOD has requested that IRWD standard specifications be included in the Project Manual. AECOM will revise the IRWD standard specification sections as needed to tailor them for the project improvements. This will add 31 specification sections to the Project Manual.

C. Perform additional strength and stability analysis for DSOD. DSOD performs their own evaluation of the embankment material strengths and stability and indicates that the undrained strength cohesion used by AECOM was not conservative enough, and that using 33rd percentile strengths typically used in dam embankment design may not be reflective of how the dam may be constructed. They are requiring lower bound strength parameters. DSOD has not provided additional details on their strength estimation but is requiring AECOM modify the strength parameters used in the embankment design to use more conservative values. This will take several meetings and presentations to resolve the strength parameters. The new strength parameters will require AECOM to completely update all the stability analysis and to design a bench in the upstream slope to satisfy stability requirements. This will result in significant rework of the foundation excavation, reservoir grading, material balance, updating Final Design Report and the drawing package. This task includes additional meetings, presentations, calculation packages, updating Final Design Report, updating upstream slope of the dam to accommodate a bench, revising foundation excavation, updating material balance, regrading reservoir, and updating dam plan drawings (plan, cross sections, instrumentation sheets, etc.)

D. Additional DSOD meetings. Additional virtual meetings have been requested by DSOD to discuss and coordinate various topics of the final design. This includes resolving foundation criteria, compaction criteria, seepage partition walls, compaction of initial lifts on foundation, and others. A total of six additional meetings with DSOD are required.

Task 2: Additional Tasks Resulting from IDSRP Design Review Comments

A. Additional access and site security measures for spillway inlet and dissipator structures, including emergency access ladder system. The IDSRP recommended additional personnel access and site security measures be provided for the spillway inlet and dissipator structures. The access measures include OSHA complaint ladders and landings that will allow access into and out of these structures. Site security measures will include additional chain link fencing with 3-strand barb wire around the perimeter of the structures to prevent trespassers from entering the structures. These are deep structures, and District staff concurred with the implementation of the IDSRP's recommendations.

B. Inlet/outlet conduit access evaluation and additional details for manway access on inclined inlet/outlet structure. The IDSRP recommended that AECOM provide a maintenance access evaluation for the reservoir inlet/outlet conduit, particularly for the portion of the conduit that is within the proposed reservoir. AECOM will evaluate how IRWD maintenance staff can enter the conduit for future inspections, condition assessments, and repairs. AECOM will then design the necessary improvements, which likely will include the addition of a bolted manway access on the inclined inlet/outlet structure and all associated plans, sections, and details.

C. Inlet/outlet conduit special encasement design under embankment loads, sloped inlet/outlet structure functionality after seismic deformation, and design of additional isolation valve at downstream dam toe. The IDSRP requested that AECOM prepare three dimensional structural and seismic settlement modeling and calculations for the proposed concrete encased inlet/outlet conduit that will be installed under the proposed. The structural evaluation of the conduit encasement was requested to analyze the conduit as a composite structure (steel and concrete) and check for the rigidity of the pipe encasement under the estimated vertical load. The sloped inlet/outlet structure will be checked for functionality after seismic deformation of the slope. AECOM will submit a calculation package and special plan set details for IDSRP review. The IDSRP also recommended that AECOM provide an additional buried butterfly valve for the portion of the inlet/outlet conduit between the Emergency Outlet Structure and the Treatment Building. The additional isolation valve will allow the conduit to be closed to prevent a sinkhole from forming at the downstream toe of the dam in the case of a line break in this portion of piping.

D. Seepage partition wall redesign. AECOM provided a seepage partition wall design inside the embankment dam for the 60% submittal that was reviewed by the IDSRP. The IDSRP recommended revisions to the partition wall design due to concerns with potential cracking of the concrete partition walls as a result of embankment settlement or seismic loading. This will require a redesign of the partition walls using earthen materials, revisions to the Final Design Report, plans, sections, and details by AECOM. Implementation of this approach also resulted in additional discussion with DSOD on the basis of design for the revised seepage partition walls.

E. Reevaluation of seepage drainage blanket thickness. The IDSRP reviewed the proposed dam's seepage drainage blanket plans and calculations prepared by AECOM. The IDSRP asked AECOM to consider more conservative parameters to verify that there will be adequate capacity in the blanket to carry the seepage. This resulted in the need for additional seepage analysis, updating the Final Design Report, and modifying the blanket thickness on the plans and sections.

Task 3: Additional Tasks Resulting from Design Development

A. Consolidate Dam and Treatment Buildings sheets. AECOM prepared separate 60% design packages of construction plans and specifications for the dam and reservoirs improvements (Package 1) and the Treatment Building (Package 2). This approach was directed by IRWD staff at the start of the project since at that time it was unknown whether the dam and treatment building would be constructed under a single construction package. After completion of the 60% design, AECOM and IRWD staff determined that combining both projects into a single construction package would be the best approach for constructing the

Mr. Rich Mori, P.E.
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July 22, 2024

project. The estimated budget for this task provides for the engineering, drafting, and technical editing work to consolidate the documents.

B. Build America Buy America (BABA) vendor outreach. AECOM will provide BABA vendor outreach for the design phase of the project. This task includes preparation of a spreadsheet for the specified construction products and equipment on the project, which identifies if these items conform to BABA requirements. This determination is important because the District received federal government funding for this project, which mandates the BABA requirements. AECOM will contact the product vendors for all specified products on this project to inquire if their products meet BABA requirements. This task is for initial outreach to equipment vendors only and not for implementing BABA purchasing requirements into the contract documents. The District will use this initial information to aid in its determination as to whether an exemption to BABA requirements will be pursued with the funding agency.

C. Additional sheets for Highline Canal access road improvements, Crean Lutheran High School walking trail, and WQ access ramp. The District asked AECOM to provide precise grading and drainage design for the Highline Canal access road, Crean Lutheran High School walking trail from their sports complex up to the Highline Canal road, and a concrete-lined access ramp that will allow the District's amphibious vehicle to drive from the dam crest road down to the floor of Syphon Reservoir. These improvements were not part of the original design scope, and eight additional design drawings will be required to incorporate these items.

D. Drainage analysis and improvements for rerouting the Highline Canal drainage into the City of Irvine storm drain system. AECOM will provide hydrology and hydraulic analysis in accordance with the County of Orange Hydrology Manual to reroute drainage from the Highline Canal access road and hillside slopes into the City of Irvine storm drain system that runs under Portola Parkway. This drainage previously flowed into terrace drains, down drains, the existing Syphon Reservoir, and into the existing syphon pipe. AECOM determined that rerouting this surface drainage into the existing 48-inch RCP storm drain that discharges into the City of Irvine's reinforced box culvert on Portola Parkway would improve the overall surface drainage flow patterns and civil site layout. This drainage analysis was not included in the original scope of work.

E. Additional SCE Service Plan submittal coordination. AECOM will provide additional coordination and conduct additional meetings with Southern California Edison (SCE) and IRWD to finalize the SCE Service Plan. This work will include additional Auto-turn software analysis to optimize location of the proposed portable generator connection box, transformer, PME switch, and related appurtenances.

F. Additional site improvements (seepage pump station, CCTV security cameras, ADAS panel, weather station). At completion of the 60% design, AECOM determined that additional

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improvements would be required to incorporate recently developed District standards related to various items including site security and dam instrumentation. AECOM will design additional site improvements including a dam seepage system pump station, CCTV security cameras for the Treatment Building, Dam Control Building, and spillway structures, Automatic Data Acquisition Systems (ADAS) panel, and weather station. These items were not included in the original scope of work and will improve the security and operability of the project improvements in accordance with District standards and requirements.

G. Deep soil mixing design for Treatment Building. After completing the geotechnical investigation for the project, AECOM concluded that ground improvement deep soil mixing is required to improve the foundation of the proposed Treatment Building. Soft compressible soils were encountered in the downstream area of the existing dam that were discovered during the additional geotechnical investigation. As the building would be founded partially on well compacted soils and partially on soft compressible soils, it was concluded that ground improvement of the soft soils was required. This will require developing a ground improvement program, associated technical specifications, and additional plans for the Treatment Building foundation improvement.

H. Prepare isometric drawings for chemical metering pumps and leak detection system (3 sheets). At the District's request, AECOM will prepare isometric drawings for the chemical metering pumps inside the Chemical Room of the Treatment Building to provide an improved three-dimensional layout of the chemical feed system. AECOM will also design a leak detection system for the chemical feed lines that will run underground outside the Treatment Building.

I. Develop pre-selected equipment specifications and fixed-price proposals for Amiad filters and Milton Roy chemical feed pumps. The District has standardized on specific vendors for the algae filtration and chemical feed equipment for its facilities. As such, AECOM will develop pre-selected equipment specifications and procure fixed price vendor proposals for the Amiad algae filters and Milton Roy chemical feed pumps that are proposed for the Treatment Building. This approach allows the District to negotiate the cost for the equipment prior to bidding to ensure that the equipment is available to all bidding contractors at the same fixed cost.

J. Establish construction water supply from Zone C at Eastwood RW Pump Station (2 sheets). AECOM has determined that the preferred construction water supply can be provided by adding a temporary pressure reducing valve assembly within the pump room of the Eastwood Recycled Water Pump Station. This valve will allow Zone C water to be reduced in pressure and supplied to the existing Syphon Zone piping, that runs to the project site. This approach will provide for cost-effective construction water at the project site and will also eliminate the need for extensive above-ground temporary construction water piping. AECOM will prepare two new sheets to show the design modifications needed at the Eastwood Pump Station and

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for the piping connection at the project site.

K. Prepare OCFA Fuel Modification Plan. The Orange County Fire Authority has requested that AECOM prepare a Fuel Modification Plan, which was not included in our original scope of services. The Fuel Modification Plan is a vegetation management code that requires landscaped areas adjacent to new structures be dedicated for permanent vegetation management activities to reduce the effects of a wildfire. The Fuel Modification Program brings fire-safe landscaping and construction features together to improve community safety and reduce property loss during wildfire emergencies. This task accounts for the effort needed to meet with OCFA, prepare the Fuel Modification Plan, and obtain approval of the plan from OCFA.

L. Additional BABA support (optional). This is an optional task that will only be used if the District is unable to obtain an exemption to the BABA requirements imposed by the federal funding agency providing funds to the project. Without an exemption, AECOM will be required to completely revise the technical specifications to only identify vendors and equipment manufacturers that comply with BABA requirements. This will require extensive research, outreach, and revision to the technical specifications. This task and associated budget will only be used by AECOM with written approval from the District.

Fee Estimate:

A summary of the estimated budget request for the proposed variance is provided below. The cost breakdown of total fee for variance request is provided as Attachment A.

Task No.	Description	Budget Requested
1.	Additional Tasks Resulting from DSOD Design Review Comments	\$189,800
2.	Additional Tasks Resulting from IDSRP Design Review Comments	\$114,880
3.	Additional Tasks Resulting from Design Development	\$355,320
	TOTAL	\$660,000

If you have any questions or comments, please contact me at (714) 697-5239 or via e-mail at michael.g.smith@aecom.com.

Mr. Rich Mori, P.E.
Variance Request No. 3
July 22, 2024

Sincerely,
AECOM Technical Services, Inc.



Michael Smith, PE, GE
Project Manager, Principal Engineer



Bryan C. Paine, PE
Deputy Project Manager, Vice President

Attachment:

Attachment A - Cost Breakdown of Total Fee for Variance Request No. 3

Attachment A
Cost Breakdown of Total Fee for Variance Request No. 3

Cost Breakdown of Total Fee for Variance No. 3
Irvine Ranch Water District
Syphon Reservoir Improvement Project - Additional Services
July 22, 2024

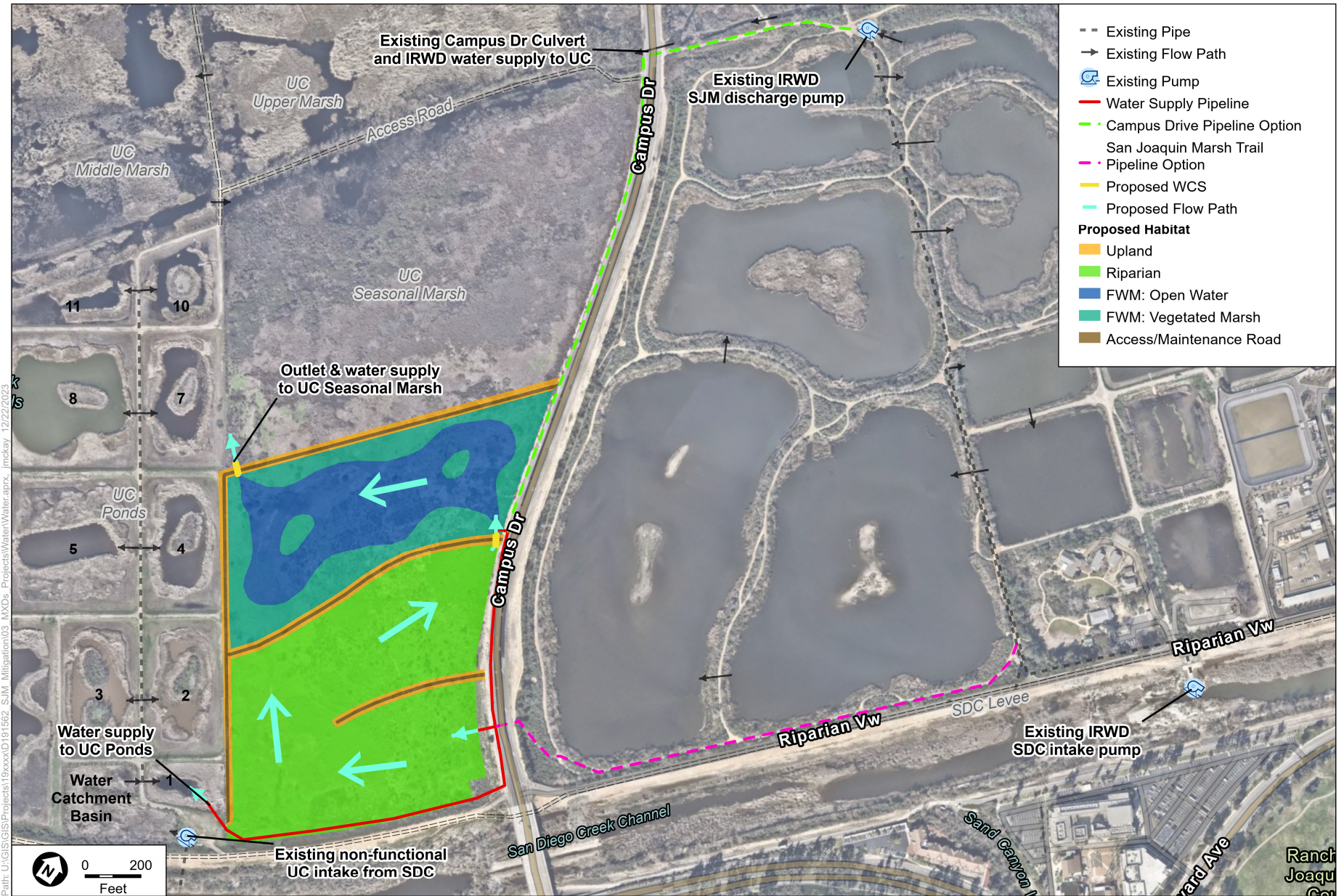
Task No.	Task Description	AECOM Labor Hours and Billing Rate								AECOM TOTAL HOURS	AECOM LABOR COSTS	AECOM DIRECT COSTS & MATERIALS ¹	TOTAL	
		Project Manager / Principal Engineer / Architect	Senior Specialist / Consultant	Deputy Project Manager / Senior Engineer	Senior Engineer / Scientist / Geologist / Architect	Project Engineer / Scientist / Geologist / Architect	Senior Staff Engineer / Scientist / Geologist	Staff Engineer / Scientist / Geologist	Senior Designer / Estimator / Scheduler					Drafter / GIS / Graphics / Tech Editor
		\$280	\$250	\$220	\$190	\$150	\$130	\$110	\$160					\$100
Variance No. 3														
1.	Additional Tasks Resulting from DSOD Design Review Comments													
	A. Incorporate IRWD, OCPW, Caltrans, APWA standard detail sheets (43 new sheets)		40		80	86		86	172		464	\$ 75,080	\$ 75,080	
	B. Incorporate IRWD standard specifications and associated revisions (31 specification sections)	16	16	8	124			60		40	264	\$ 44,400	\$ 44,400	
	C. Perform additional strength and stability analysis for DSOD	40	16		80	120			80		336	\$ 61,200	\$ 61,200	
	D. Additional DSOD meetings (6 meetings)	8			16				24		48	\$ 9,120	\$ 9,120	
	Subtotal Task 1	64	72	8	300	206		146	276	40	1112	\$ 189,800	\$ -	\$ 189,800
2.	Additional Tasks Resulting from IDSRP Design Review Comments													
	A. Additional access and site security measures for spillway inlet and dissipator structures, including emergency access ladder system (8 sheets)	8	24	40		80		60	120		332	\$ 54,840	\$ 54,840	
	B. Inlet/outlet conduit access evaluation and additional details for manway access on inclined inlet/outlet structure	4	8	4	4	40		24	2		86	\$ 13,720	\$ 13,720	
	C. Inlet/outlet conduit special encasement design under embankment loads, sloped inlet/outlet structure functionality after seismic deformation, and design of additional isolation valve at downstream dam toe	8	40	16	4	64		24	2		158	\$ 29,080	\$ 29,080	
	D. Seepage partition wall redesign	4			12			24	24		64	\$ 9,880	\$ 9,880	
	E. Reevaluation of seepage drainage blanket thickness	4			16				20		40	\$ 7,360	\$ 7,360	
	Subtotal Task 2	28	72	60	36	184		132	168		680	\$ 114,880	\$ -	\$ 114,880
3.	Additional Tasks Resulting from Design Development													
	A. Consolidate Dam and Treatment Buildings sheets		16		40	80			100	244	480	\$ 64,000	\$ 64,000	
	B. Build America Buy America (BABA) vendor outreach		4				80				84	\$ 11,400	\$ 11,400	
	C. Additional drawings for Highline Canal access road improvements, Crean Lutheran High School Walking Trail, and WQ access ramp (8 sheets)	8	24	40	40	120			160		392	\$ 68,240	\$ 68,240	
	D. Drainage analysis and improvements for rerouting the Highline Canal drainage into the City of Irvine storm drain system		8			40	60			40	148	\$ 19,800	\$ 19,800	
	E. Additional SCE Service Plan submittal coordination	4	2		40				40		86	\$ 15,620	\$ 15,620	
	F. Additional site improvements (seepage pump station, CCTV security cameras, ADAS panel, weather station)	8	24		48		24		80		184	\$ 33,280	\$ 33,280	
	G. Deep soil mixing design for Treatment Building	8			60			24	40		132	\$ 22,680	\$ 22,680	
	H. Prepare isometric drawings for chemical metering pumps and leak detection system (3 sheets)	8	8			40			80		136	\$ 23,040	\$ 23,040	
	I. Develop pre-selected equipment specifications and fixed-price proposals for Amiad filters and Milton Roy chemical feed pumps	8	16		60	40			40		164	\$ 30,040	\$ 30,040	
	J. Establish construction water supply from Zone C at Eastwood RW Pump Station (2 sheets)	4	12		24	8		16	40		104	\$ 18,040	\$ 18,040	
	K. Prepare OCFA Fuel Modification Plan	2	4		32			16	60		114	\$ 19,000	\$ 19,180	
	L. Additional BABA support (optional)	12	16	24		40	80			8	180	\$ 29,840	\$ 30,000	
	Subtotal Task 3	62	134	64	344	368	244	56	640	292	2204	\$ 354,980	\$ 340	\$ 355,320
	TOTAL	154	278	132	680	758	244	334	1084	332	3,996	\$ 659,660	\$ 340	\$ 660,000

Notes & Assumptions:

1.) Direct Costs / Materials provided with no markup and include costs such as mileage to meetings/site and reproduction.

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Exhibit "B"



SOURCE: ESA, 2023; Mapbox, 2023; IRWDNAIP

Note: FWM=Freshwater Marsh, SDC=San Diego Creek, WCS=Water Control Structure

SRIP Off-Site Mitigation Project

Figure 2
Proposed SRIP Off-Site Mitigation Project



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Exhibit “C”

**A COPY OF EXHIBIT “C” CAN BE OBTAINED FROM THE
DISTRICT SECRETARY AND IS AVAILABLE FOR
DOWNLOAD AT THE FOLLOWING LINK:**

https://www.irwd.com/images/pdf/construction/Syphon/SRIP_Addendum_8.13.24_COMBINED.pdf

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August 26, 2024

Prepared by: J. Burk / R. Mori

Submitted by: K. Burton

Approved by: Paul A. Cook



ACTION CALENDAR

ORANGE HEIGHTS ZONE 5 TO 6 AND ZONE C+ TO E BOOSTER PUMP STATIONS CONSULTANT SELECTION

SUMMARY:

The Irvine Community Development Company (ICDC) is currently developing the Orange Heights neighborhood located in the City of Orange, along Santiago Canyon Road between the 261 Toll Road and Jamboree Road. ICDC completed the Sub Area Master Plan (SAMP) update for Orange Heights, which proposes new Zone 5 to 6 domestic water and Zone C+ to E recycled water booster pump stations to serve the new development. Staff solicited proposals from five engineering firms for the design of the proposed pump stations. Staff recommends that the Board authorize the General Manager to execute a Professional Services Agreement with Lee + Ro in the amount of \$836,760 for engineering design services for the Orange Heights Zone 5 to 6 and Zone C+ to E Pump Stations, Projects 07136 and 07139.

BACKGROUND:

Orange Heights, which is divided into northern and southern sections by Santiago Canyon Road, consists of approximately 200 acres of low to medium-density residential units and over 200 acres of open space and landscaped areas. The Orange Heights SAMP update describes various IRWD infrastructure improvements required to serve the development, including new domestic water and recycled water pump stations and a new domestic water reservoir.

The proposed Zone 5 to 6 and Zone C+ to E pump stations, located next to the existing Zone 5 to 8 pump station on Santiago Canyon Road as shown in Exhibit "A", will supply domestic water and recycled water to the Orange Heights community. The proposed Zone 5 to 6 domestic water pump station will feed the proposed 2.4 million gallons (MG) Zone 6 domestic water reservoir that will serve the northern section of the development and, after reducing pressure through a pressure reducing valve, will serve the southern section. The proposed Zone C+ to E recycled water pump station will directly feed the entire Orange Heights development through a closed-loop system.

The design of these pump stations has been started and stopped multiple times over the past 20 years based on ICDC's decisions to start and stop work on the development over that same period of time. In 2016, IRWD selected Lee + Ro as the design engineer through a competitive proposal process. At that time, Lee + Ro had completed a draft Preliminary Design Report (PDR) when ICDC stopped work on the development, and staff paused the design work accordingly. In 2022, ICDC notified IRWD that the development was being started again. Rather than requesting new proposals for the pump station design, IRWD negotiated an updated scope and fee with Lee + Ro and authorized Lee + Ro to continue advancing the design. In 2023, at the completion of the final PDR, ICDC again stopped work on the development, and staff paused the design work again.

Earlier this year, ICDC notified IRWD that the development was being started again. Since so much time had passed since the initial Request for Proposals (RFP) in 2016, and the fact that several members of Lee + Ro’s original design team, including the project manager, had left Lee + Ro, staff issued a new RFP for the design of the pump stations. This approach allowed staff to evaluate new design teams and to obtain updated fee proposals for the design work.

Consultant Selection:

Staff issued an RFP for engineering design services to five design firms, including Brown & Caldwell, Lee + Ro, Stantec, Tetra Tech, and West Yost. Staff received proposals from Lee + Ro and Stantec. The other three firms declined to submit citing heavy existing workloads and schedule conflicts with their primary pump station design staff.

While both firms provided proposals that met the project objectives, Lee + Ro’s approach to the project exceeded that presented by the other firm. In addition, Lee + Ro has successfully completed several recent projects for IRWD and is well-versed with IRWD’s standard drawings, technical specifications, and construction plan requirements. Lee + Ro also demonstrated the most relevant pump station experience with many recent pump station projects that closely match the scope of this project. With Lee + Ro’s historical knowledge and previous experience on the project, they are well-suited to complete the project in accordance with the aggressive schedule milestones. The consultant selection matrix is provided as Exhibit “B”, and Lee + Ro’s scope of work and fee proposal as Exhibit “C”.

Staff recommends that the Board authorize the General Manager to execute a Professional Services Agreement, in the amount of \$836,760, with Lee + Ro since their design approach, schedule, and staff hours are consistent with the project goals and objectives.

Design Schedule:

The design phase will be completed in accordance with the following schedule milestones.

Kick-Off Meeting	September 2024
Preliminary Design Report Validation Submittal	December 2024
Final Plans Approved	August 2025
Bid Opening and Notice of Award (Construction)	October 2025

FISCAL IMPACTS:

The Orange Heights Zone 5 to 6 and Zone C+ to E Booster Pump Stations, Projects 07136 and 07139 respectively, are included in the Fiscal Year 2024-25 Capital Budget. The existing budgets are sufficient to fund the recommendation presented herein.

ENVIRONMENTAL COMPLIANCE:

This project is subject to the California Environmental Quality Act (CEQA). In compliance with CEQA, the California Public Resources Code Section 21000 et. seq., and per the California CEQA Guidelines in the Code of Regulations, Title 14, Division 6, Chapter 3, as lead agency, the City of Orange filed a Notice of Determination with the County of Orange on November 8, 2005. In 2016, the City of Orange prepared an Addendum to Santiago Hills Environmental Impact Report (EIR) to address changes in the development since certification, including the construction of the Orange Heights Zone 5 to 6 and Zone C+ to E Booster Pump Stations and the Orange Heights Zone 6 Reservoir. The City of Orange approved the Addendum on July 12, 2016, and filed a Notice of Determination with the County of Orange on July 15, 2016.

COMMITTEE STATUS:

This item was reviewed by the Engineering and Operations Committee on August 21, 2024.

RECOMMENDATION:

THAT THE BOARD AUTHORIZE THE GENERAL MANAGER TO EXECUTE A PROFESSIONAL SERVICES AGREEMENT WITH LEE + RO IN THE AMOUNT OF \$836,760 FOR ENGINEERING DESIGN SERVICES FOR THE ORANGE HEIGHTS ZONE 5 TO 6 AND ZONE C+ TO E BOOSTER PUMP STATIONS, PROJECTS 07136 AND 07139.

LIST OF EXHIBITS:

- Exhibit "A" – Location Map
- Exhibit "B" – Consultant Selection Matrix
- Exhibit "C" – Scope of Work and Fee Proposal

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Exhibit "A"
ORANGE HEIGHTS LOCATION MAP



PROJECT LOCATION

EXISTING ZONE 5-8
PUMP STATION

PROPOSED ZONE
5-6 & C+ - E PUMP
STATION

EXISTING 6 MG
ZONE 5
RESERVOIR

EXISTING 2.4 MG
ZONE C+
RESERVOIR

NORTH

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Exhibit "B"

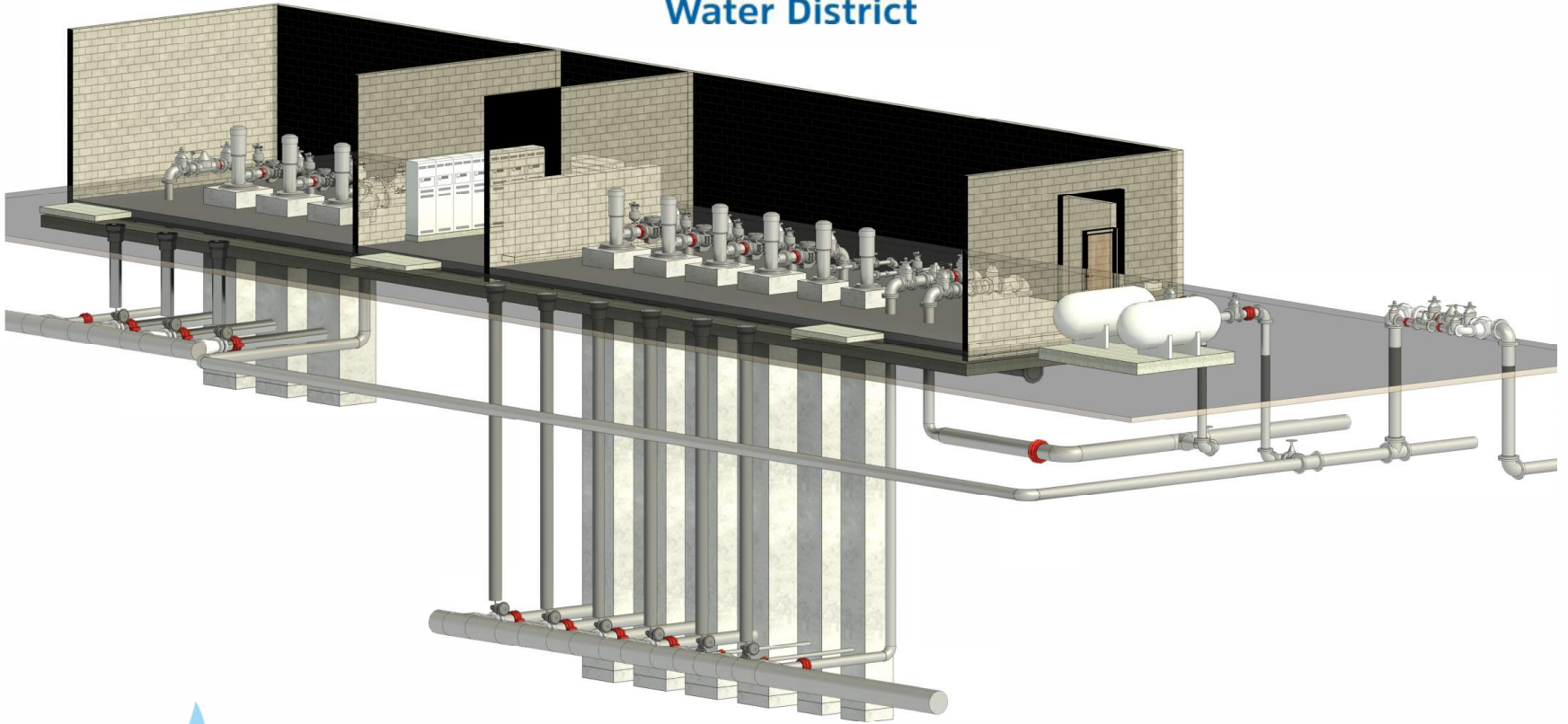
CONSULTANT SELECTION MATRIX

Orange Heights Zn 5 to 6 and Zn C+ to E Booster Pump Stations					
Item	Description	Weights	Stantec	Lee & Ro	
A	<u>TECHNICAL APPROACH</u>				
1	Project Understanding	30%	2	1	
2	Project Approach	30%	1	2	
3	Project Team	40%	2	1	
	<u>Weighted Score</u>		1.7	1.3	
	Ranking of Consultants		2	1	
B	<u>SCOPE OF WORK</u>				
TASK		Task Hours	FEE	Task Hours	FEE
1	Project Management	236	\$83,676	304	\$73,402
2	Preliminary Design	796	\$278,019	756	\$220,813
3	Final Design	3,441	\$904,887	2,871	\$527,303
2.A	Surge Study	(included in Task 3 above)		14	\$15,242
	TOTAL ENGINEERING SERVICES FEE	4,473	\$1,266,581	3,945	\$836,760
C	<u>OTHER</u>				
	Number of Drawings	103		112	
	Engineering Services Fee per Design Drawing	\$8,785		\$4,708	
	Sub Consultants				
	Electrical	In-House		In-House	
	Structural	Peterson Structural Engrs.		In-House	
	Architectural	Gillis + Panichapan		In-House	
	Geotechnical	NMG Geotechnical		Ninyo & Moore	
	Mechanical	In-House		In-House	
	Hydraulic Analysis/Pump Selection	In-House		In-House	
	Survey	In-House		The Prizm Group	
	Surge Analysis	In-House		Flow Science	
	Potholing	T2 Utility Services		Underground Solutions	
	Exceptions taken to IRWD Std. Contract	None		None	
	Insurance (Professional & General Liability)	Yes		Yes	

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Irvine Ranch
Water District



PROPOSAL FOR

Engineering Design Services for the Orange Heights Zone 5 to 6 and Zone C + to E Pump Stations Project

August 6, 2024

Proposal by:

LEE+RO

INFRASTRUCTURE ENGINEERS

1199 South Fullerton Road
City of Industry, CA 91748

626-912-3391 lee-ro.com

1. SCOPE

Background Information:

It appears that market conditions and housing development are back in full swing for the Irvine Company. Round three, here we come!

LEE + RO was originally awarded this project back in 2016, but market conditions turned against the Irvine Company and the project was shelved. Prior to being shelved, we were pressed to “put down our pencils” and wrap up the PDR to a stopping point. LEE + RO was able to issue a summary draft version of the PDR back in 2017.

Five years later, economic conditions became favorable again, and the Irvine Company had IRWD re-kick off the project for the second time in 2022. The developer made some changes to their development plans and by this time, IRWD had also installed a new reservoir at the site. For round two of the project, LEE + RO was able to use the existing contract vehicle with IRWD. LEE + RO completed a comprehensive PDR in 2023. Then for the second time, the Irvine Company again shelved the project.

Now, here we are in 2024 and unfortunately our existing contract would be almost ten years old by now, and has long since expired, and the project was also closed out by Contracts.

Even though almost ten years have passed since this project first started, we essentially have the same team available at LEE + RO to work on this project. Providing a positive rewarding work environment at LEE + RO has allowed for great success in long-term staff retention. This staff retention at LEE + RO allows synergies for a collaborative work environment that pays off for our clients allowing for speed and efficiency in our designs.

Having the same design team will allow LEE + RO to pick this project back up for the third time and hit the ground running.

Eric Lovering, will be the Principal-in-Charge for this contract. Eric Lovering’s first exposure to IRWD was back in 2006 for the Foothill Zone 6A BPS. Eric was the PM for that project and his counterpart at IRWD was none other than Rich Mori. Over the last 20 years both Eric Lovering and Rich Mori have moved up through the ranks at their respective organizations and have become industry leaders. Over the years, Eric and Rich have had numerous opportunities working together as they each rose through the ranks. Both Eric and Rich now manage a team of project managers under them supporting numerous successful capital projects every year.

Below are some examples of past IRWD projects, all of which Eric Lovering had a significant role or part in:

- *Santiago Canyon Pump Station Improvements (4-Sites)*
- *Turtle Rock Zone 3 Reservoir Chloramine Booster Station*
- *Michelson Water Recycling Plant, Unit Substation T1*
- *Hidden Canyon Zone 3 to 4 Domestic Water and Zone B to C Recycled Water Booster Pump Station*
- *IIC East Zone A to B Booster Pump Station Upgrades*
- *Turtle Rock Pump Station*
- *Foothill Ranch Zone 6A Pump Station*

IRWD has many new hires, and many of the engineers we worked with previously at IRWD are no longer there. So, for those of you who are reading this and are not that familiar with LEE + RO, here is a quick recap.

LEE + RO is a certified SBE engineering company, with big firm experience. LEE + RO has a proud history and culture of providing innovative solutions to complex and unique problems. LEE + RO is a well-established industry leader and subject matter expert in pump station design in California. LEE + RO has been entrusted to engineer a wide variety of pump stations for our clients, and we have a large library of pump station projects to lean on, all of which had their unique engineering obstacles that we were able to successfully overcome.

In California, we design about a dozen pump station projects every year, which account for about half of our business. The other half is water/wastewater treatment plants and linear pipeline projects.

WHY CHOOSE LEE + RO

- Core Business is water / Wastewater
- Proven Experience
- \$100m+ Yearly Infrastructure Projects

And the heart of every pump station project, one must start with the hydraulics. Afterall, moving water from one location to the next is the sole purpose of a pump station. Eric Lovering, LEE + RO’s Chief Engineer, can be quoted almost daily as stating, “the pump station can only operate where the pump curve intercepts the system curve, ***No Exceptions!***”

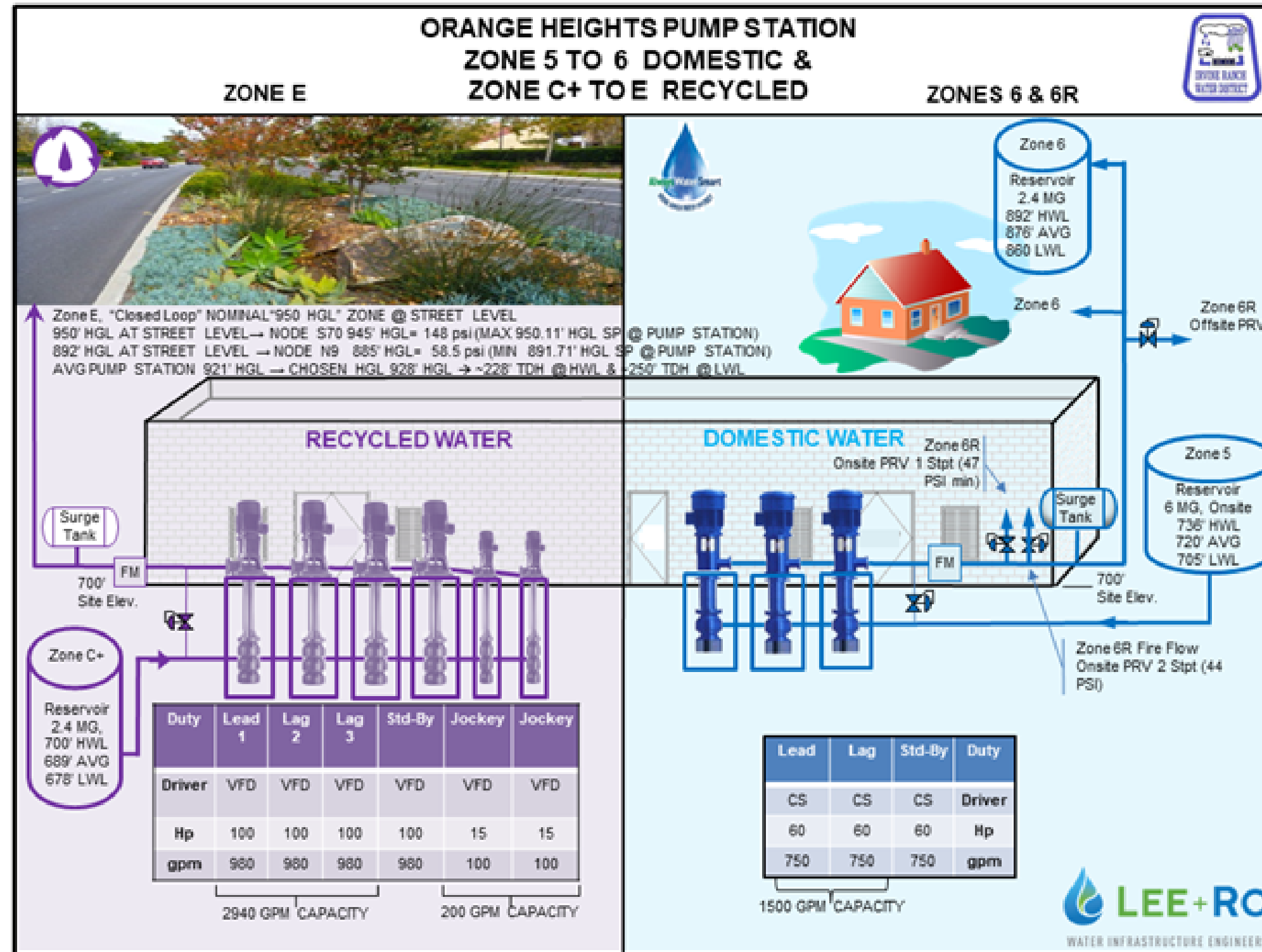
LEE + RO is also a well-established industry leader in the discipline of Electrical and Instrumentation and Controls when it comes to pump stations. Our electrical and I&C engineers have worked closely with Joel Nash over the years ensuring a smooth implementation of the projects.

ABOUT LEE + RO
BY THE NUMBERS

- 95% Repeat Business
- 1200+ Projects Completed
- 40+ Years Focused on Water

LEE + RO Methodology to Accomplish the Scope of Work:

Since we wrote the PDR, we won't regurgitate the technical scope of work in detail, and our proposal herein will concentrate on how we will perform the work to ensure that a high-quality final product is issued to IRWD. We take no exception to the SCOPE OF WORK as written in the RFP. We have, however, included additional optional services if desired. The following graphic produced by LEE + RO summarizes the overall project in one simple exhibit.



The LEE + RO team is looking forward to restarting the engineering design services for the Orange Heights Zone 5 to 6 and Zone C+ to E Pump Stations Project. During the PDR stage, we worked closely with IRWD Engineering, Maintenance, and Operations Staff to develop a consensus layout that best serves all parties' interests.

PDR Validation Thru Final Design:

We plan to move very quickly with the validation of the PDR. LEE + RO originally produced this document last year and there doesn't appear to be any changed conditions to necessitate redoing any portions of the PDR. LEE + RO will review the existing hydraulic modeling report and confirm that none of the conditions have changed. We will wrap up any loose ends such as the perimeter fence/wall, roof type/details, and advance the grading design.

We will schedule the geotechnical borings to occur during the first week after an NTP is provided. After we have confirmed that the Irvine Company has not changed their modeling and design intent, we will release our

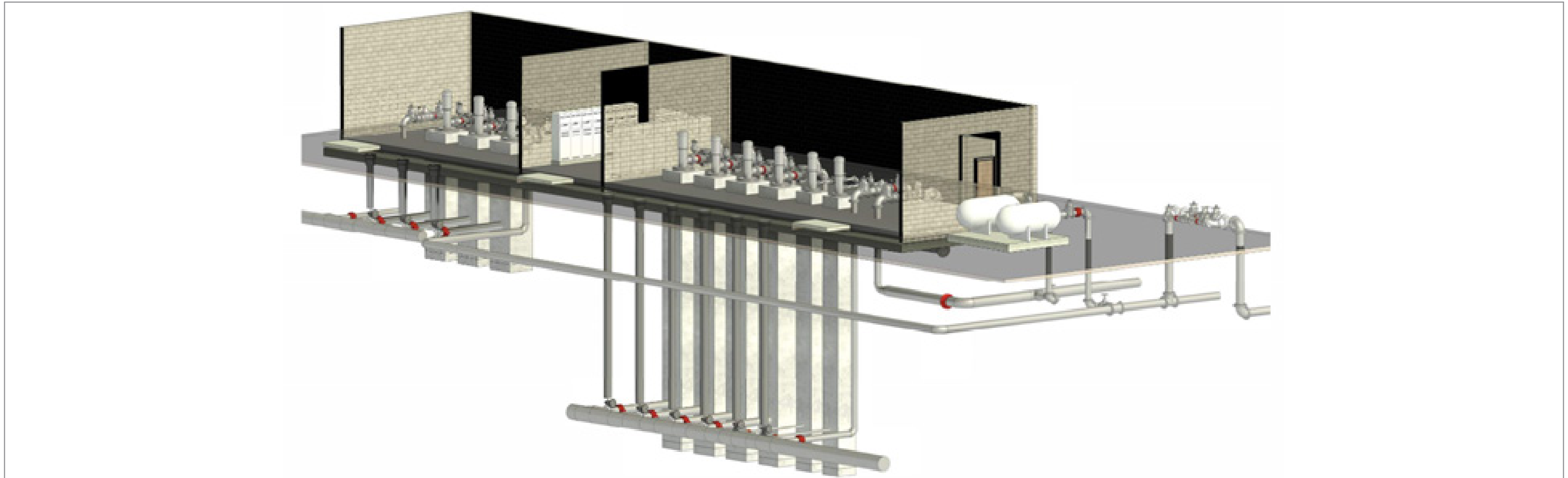
subconsultant, Flow Science, to complete the remaining Zone C+ to E surge study. In parallel with the PDR Validation, we will engage SCE for undergrounding, pole removal, and new electrical service.

To further clarify, we do not plan on changing or re-issuing the PDR. We will, however, issue a letter-style report as an addendum to further advance and enhance the original PDR.

Per the RFP, the 60% Design Submittal is not due until March 2025. We can easily accelerate the schedule and move up that date and all the subsequent dates by several months. We are able to do this because at LEE + RO we have completely transitioned to 3D modeling. In terms of traditional drawing production, there is a large drafting effort to go from a 30% to a 60% design. Traditional 30% designs mostly comprise only

plans to confirm the overall layout, and then for the development of the 60% design, we would begin manually cutting sections. All that goes out the window now. The use of 3D drafting allows for quick section cuts and 3D isometric drawings with just a few clicks of the mouse.

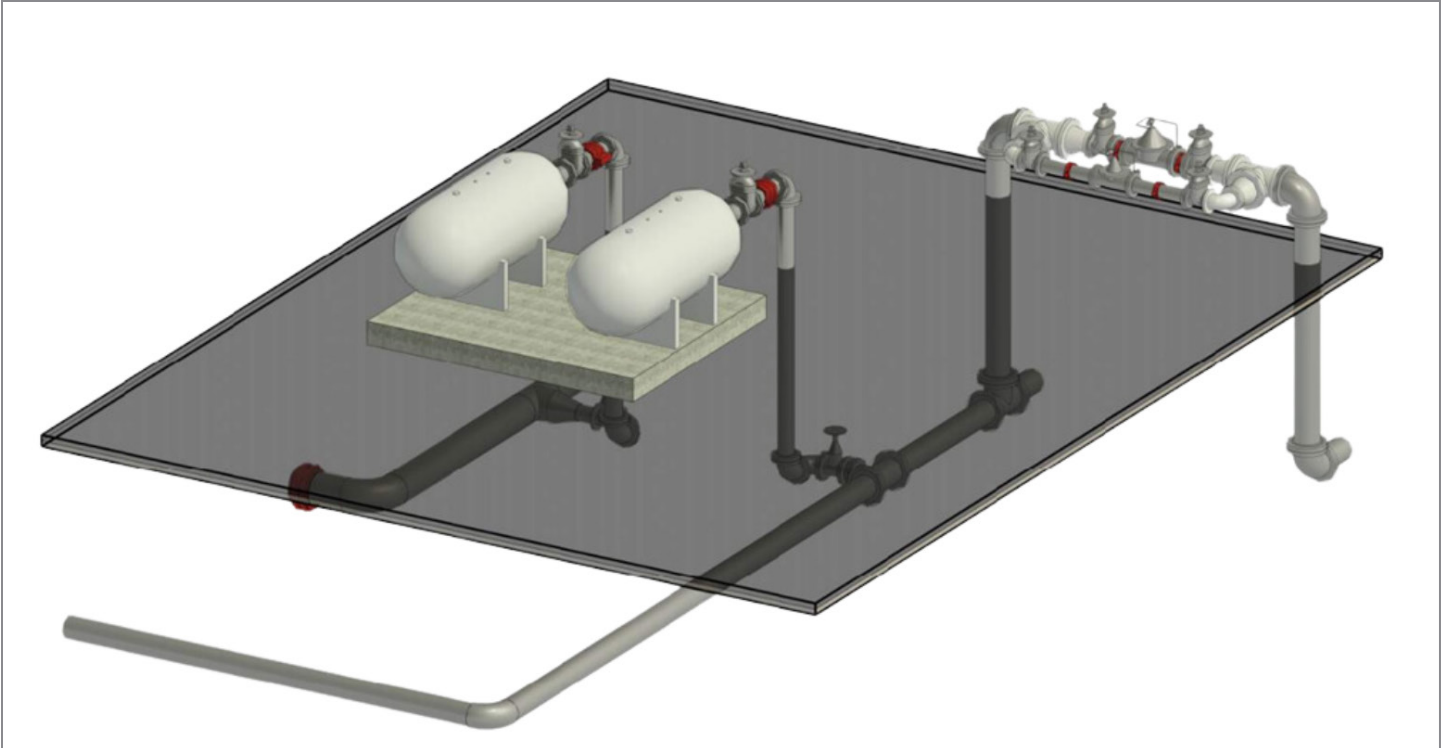
The 3D drawings presented in this proposal are not just pretty pictures. These 3D exhibits are scaled 3D models ready for cutting plans and section sheets.



3D Modeling:

For the development of the Booster Pump Station, we utilized Revit BIM (Building Information Modeling) software, which offers significant advantages over traditional 2D software. Revit enables us to create a comprehensive and highly detailed 3D model that integrates all aspects of the design, including architectural, structural, and MEP (mechanical, electrical, plumbing) systems. This approach allows for better visualization and understanding of the project, facilitating more informed decision-making, and reducing the risk of errors and omissions. A list of benefits from using Revit BIM software follows:

1. **Enhanced Collaboration:** Revit's collaborative environment allows our multidisciplinary teams to work concurrently on the same model, ensuring seamless integration and coordination. This reduces rework and enhances communication among stakeholders.
2. **Increased Efficiency:** Revit's intelligent model-based process streamlines workflows and automates repetitive tasks, significantly increasing productivity. Changes made to the model are automatically updated throughout all views, schedules, and documentation, ensuring consistency and accuracy.
3. **Improved Accuracy:** Revit's parametric components and data-rich environment allow for precise design and documentation. This leads to more accurate quantity takeoffs, cost estimates, and scheduling, providing a reliable basis for project planning and execution.
4. **Clash Detection:** With Revit, we can perform clash detection during the design phase, identifying and resolving conflicts between different building systems before construction begins. This proactive approach minimizes costly on-site changes and delays.
5. **Lifecycle Management:** Revit BIM provides valuable data that can be used throughout the lifecycle of the pump station, from design and construction to operation and maintenance. This ensures the facility is managed efficiently and effectively over its entire lifespan.



Surge Study: LEE + RO will utilize Flow Science, our subconsultant who did the original surge studies. We have included both the C+ to E and the Zone 5 to 6 as separate line items in the proposal. We don't anticipate the need to update the Zone 5 to 6 study, but to be conservative, we have kept the line item in the fee proposal as insurance.

Geotechnical Report: Ninyo & Moore will provide the Geotechnical Report. Based on our review of the previous geotechnical report, regional geologic and seismic information, and our experience at the site, the geology is complex in the site vicinity, including several inactive faults that cross the reservoir site. The geologic units at the reservoir site include existing fill, landslide deposits, several sedimentary bedrock units, and volcanic bedrock of the El Modeno Volcanics. Based on previous geologic mapping at the site, the proposed pump station building is anticipated to be underlain by sandstone bedrock of the Topanga Formation and siltstone/claystone bedrock of the La Vida Member of the Puente formation, which is in fault contact. There is limited groundwater information in the site area. Groundwater was encountered during a previous geotechnical study (Kleinfelder, 2015)

at an elevation of approximately 659, which is deeper than the anticipated excavations for the pump cans. The project area is not located in a Seismic Hazard Zone for soil liquefaction or within a zone of required investigation for active faulting.

The domestic water pump station will have pump cans that extend approximately 15 feet below the finish floor elevation of the pump station, while the recycled water pump station pump cans will extend to approximately 35 feet below the finish floor elevation.

Subsurface exploration consists of the drilling, logging, and sampling of four hollow-stem auger (HSA) borings to evaluate the subsurface conditions up to approximately 45 feet deep, or refusal, whichever occurs first. The borings will be observed and logged by a representative of our firm. Representative soil and bedrock samples will be collected from the borings for laboratory testing. Boreholes will be backfilled with the drill cuttings and excess soil cuttings, if any, will be spread on-site.

Survey: If deemed necessary, the Prizm Group will perform a supplemental ground topographic survey of the site to resurvey areas that may have changed since the

original survey was completed in 2022. The effort budgeted is up to one full day of onsite survey.

Potholing: Though not specifically listed in the RFP, we have added an optional potholing line item in the fee proposal. If it is later determined potholing is required, we will utilize Underground Solutions. We have budgeted for 6 potholes.

Anticipated Drawing List: Below is a list of anticipated drawings for the project.

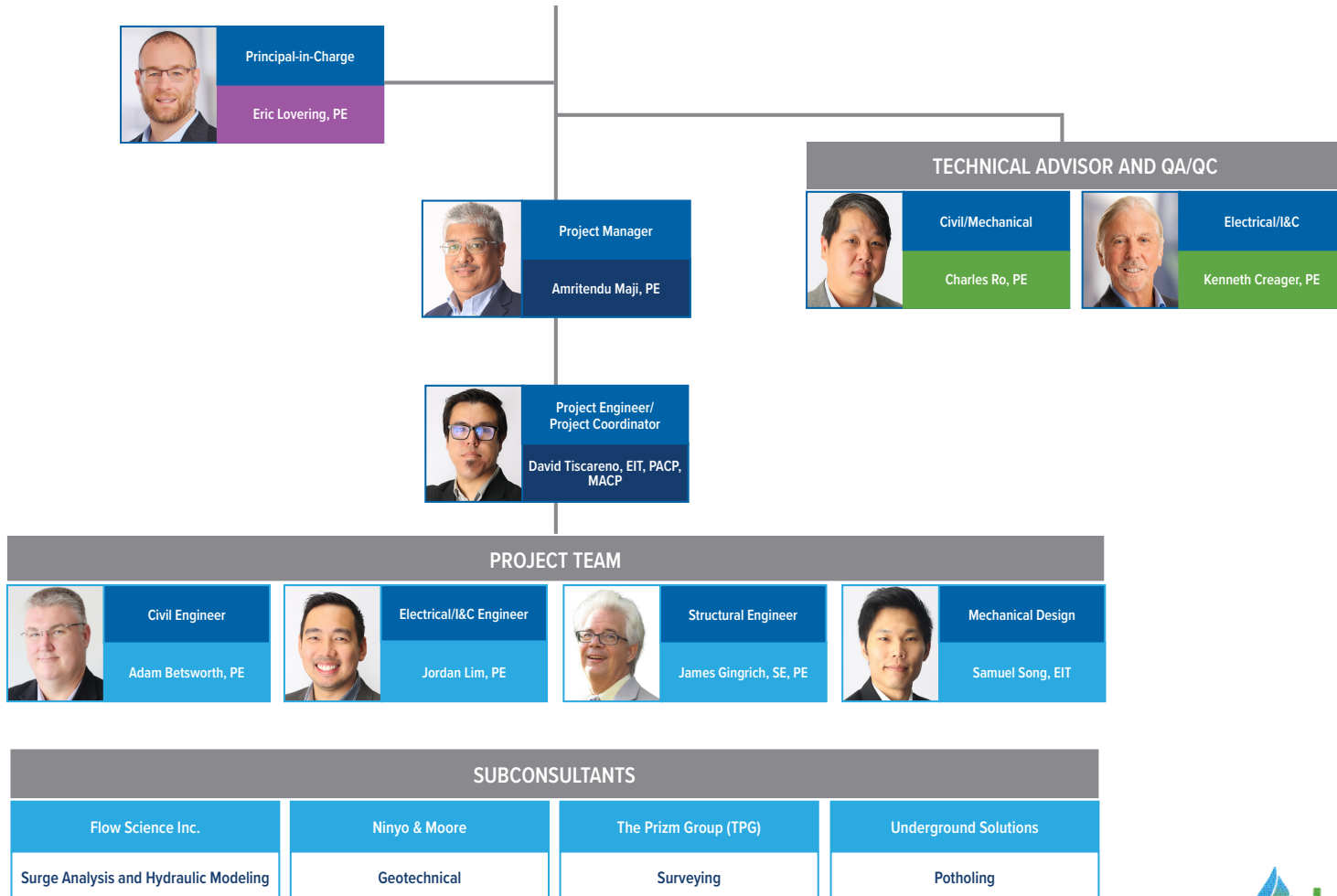
GENERAL		
Sheet	Dwg #	Descriptions
1	G-1	Title Sheet
2	G-2	Location & Vicinity Maps & Drawing Index
3	G-3	General Notes - 1
4	G-4	General Notes - 2
5	G-5	Symbols & Abbreviations
DEMOLITION		
6	D-1	Site Demolition Plans - 1
7	D-2	Site Demolition Plans - 2
8	D-3	Site Demolition Plans - 3
9	D-4	Site Demolition Plans - 4
CIVIL		
10	C-1	Yard Piping Plan
11	C-2	Paving And Grading Plan
12	C-3	Paving And Grading Profiles
13	C-4	Wall And Signage Plan
14	C-5	Civil Details - 1
15	C-6	Civil Details - 2
16	C-7	Civil Details - 3
17	C-8	Facilities Area Improvement Plan - 1 (Figure 6.7)
18	C-9	Facilities Area Improvement Plan - 2 (Figure 6.8)
19	C-10	Facilities Area Improvement Plan - 3 (Figure 6.9)
20	C-11	Facilities Area Improvement Plan - 4 (Figure 6.10)
21	C-12	Manhole Sewer Connection Details
ARCHITECTURAL		
22	A-1	Architectural Abbreviations, Notes , & Schedules
23	A-2	Architectural Floor Plan
24	A-3	Architectural Roof Plan
25	A-4	Architectural Elevations - 1
26	A-5	Architectural Elevations - 2
27	A-6	Architectural Detail - 1
28	A-7	Architectural Detail - 2
29	A-8	Architectural 3d Isometric - 1
30	A-9	Architectural 3d Isometric - 2
STRUCTURAL		
31	S-1	Structural Abbreviations & Notes
32	S-2	Structural Floor Plan
33	S-3	Structural Roof Framing Plan
34	S-4	Structural - Surge Tank Foundation Plan & Details
35	S-5	Structural Sections - 1
36	S-6	Structural Sections - 2
37	S-7	Structural Details - 1
38	S-8	Structural Details - 2
39	S-9	Structural Details - 3
40	S-10	Structural Details - 4
41	S-11	Structural Details - 5
42	S-12	Structural Details - 6
43	S-13	Structural 3d Isometric - 1
44	S-14	Structural 3d Isometric - 2
45	S-15	Structural 3d Isometric - 3
46	S-16	Backwash Pump Pads
MECHANICAL		
47	M-1	Mechanical Materials List & General Notes
48	M-2	Mechanical Floor Plan
49	M-3	Mechanical Sections - 1
50	M-4	Mechanical Sections - 2
51	M-5	Mechanical Sections - 3
52	M-6	Surge Tank(S) Plan
53	M-7	Surge Tank(S) Section And Details
54	M-8	Mechanical Details - 1
55	M-9	Mechanical Details - 2
56	M-10	Mechanical Details - 3
57	M-11	Mechanical Details - 4
58	M-12	Mechanical Details - 5
59	M-13	Mechanical Facilities Area Improvement Plan (Figure 6.11)
60	M-14	Mechanical Details - 3d Isometric - 1
61	M-15	Mechanical Details - 3d Isometric - 2
62	M-16	Mechanical Details - 3d Isometric - 3
Plumbing		
63	P-1	Building Drainage Plan
64	P-2	Restroom Plan And Sections
HVAC		
65	HVAC-1	Hvac Plan
66	HVAC-2	Hvac Schedule
67	HVAC-3	Hvac Details
ELECTRICAL		
68	E-1	Electrical Symbols & Abbreviations
69	E-2	Electrical Overall Site Plan
70	E-3	Electrical Enlarge Site Plan (Surge Tank(S))
71	E-4	Electrical Power Plan
72	E-5	Electrical Control And Signal Plan
73	E-6	Electrical Single Line Diagram
74	E-7	Electrical Panel Elevations
75	E-8	Electrical Cable And Conduit Schedule - 1
76	E-9	Electrical Cable And Conduit Schedule - 2
77	E-10	Electrical Grounding & Lighting Plan
78	E-11	Electrical Lighting Schedule
79	E-12	Electrical Details - 1
80	E-13	Electrical Details - 2
81	E-14	Control Schematic - Variable Speed Pumps
82	E-15	Control Schematic - Constant Speed Pumps
83	E-16	Control Schematic - Ventilation Fans
84	E-17	Plc Panel Layout
85	E-18	Control Panel Power Wiring - 1
86	E-19	Control Panel Power Wiring - 2
87	E-20	Control Panel I/O Wiring - 1
88	E-21	Control Panel I/O Wiring - 2
89	E-22	Control Panel I/O Wiring - 3
90	E-23	Control Panel I/O Wiring - 4
91	E-24	Control Panel I/O Wiring - 5
92	E-25	Control Panel I/O Wiring - 6
93	E-26	Control Panel I/O Wiring - 7
94	E-27	Control Panel I/O Wiring - 8
95	E-28	Control Panel I/O Wiring - 9
96	E-29	Control Panel I/O Wiring - 10
97	E-30	Control Panel I/O Wiring - 11
98	E-31	Control Panel I/O Wiring - 12
99	E-32	Ups Panel Power Distribution And Controls
100	E-33	Communication Equipment Details
101	E-34	Electrical Modifications Backwash Pumps
102	E-35	Interim Electrical Plans
103	E-36	Interim Electrical Single Line
INSTRUMENTATION		
104	I-1	Instrumentation Symbols & Abbreviations
105	I-2	Process Instrumentation Diagram - Domestic Water Pumps
106	I-3	Process Instrumentation Diagram - Recycled Water Pumps
107	I-4	Process Instrumentation Diagram - Pump Station General
108	I-5	Process Instrumentation Diagram - Surge Tank(S)
109	I-6	Process Instrumentation Diagram - Generator
110	I-7	Communication Block Diagram
111	I-8	Instrumentation Details - 1
112	I-9	Instrumentation Details - 2

2. TEAM

The proposed project team organization is shown below in **Exhibit 2-1** and identifies the roles and responsibilities of each of the key team members, as well as those of our subconsultant team members. A brief synopsis of key team members' experience follows. Detailed resumes for LEE + RO team members are included in **Appendix A**.



**Exhibit 2-1
 Organizational Chart**





LICENSE/CERTIFICATION
Civil Engineer, CA #87036

EDUCATION
MS, Engineering Mechanics,
University of Arizona

MS, Civil Engineering,
University of Southern
Illinois

BS, Civil Engineering,
Jadavpur University

Amritendu Maji, PE | Project Manager

Amritendu Maji is a California-registered civil engineer and project manager with over 25 years of progressive experience in the planning, design, construction, and administration of public works projects. He has been responsible for preparing plans and specifications, construction cost estimates, bid documents, and permit applications for site development, roadways, water & wastewater conveyance, and distribution facilities, including pipelines, pump stations and reservoirs, and stormwater and flood control facilities. He has considerable experience in hydraulics and hydraulic modeling, as well as the preparation of feasibility studies and technical reports. He has provided constructability review and QA/QC of technical reports, plans & specifications, construction cost estimates, and other bid documents. He has provided construction administration and support services, including construction site visits, conducting progress meetings, review of shop drawings, responding to RFIs, analysis & preparation of change orders, start-up & commissioning, and review & approval of contractors' pay requests and project closeout. He also has considerable experience in the preparation of permits, including the Federal Section 404 (Clean Water Act) for work in wetlands, Section 408 (Rivers and Harbors Act) for federally constructed structures like levees and floodwalls, and permits from the State Transportation and Development offices for work in and around State and Federal Highways, etc.

Amritendu's Relevant Experience Includes:

- Orange Heights Zone 5 to 6 Domestic Water and Zone C+ to D Recycled Water Booster Pump Station Project, Irvine Ranch Water District
- Santiago Canyon Pump Station Improvements Project, Irvine Ranch Water District
- Prado Booster Station Upgrade Project, City of Colton
- Saddleback Pump Station Auxiliary Pump and Engine Replacement, Moulton Niguel Water District, Mission Viejo



LICENSE/CERTIFICATION
Engineer-In-Training
#169413

NASSCO PACP AND MACP,
#U-614-06021725

EDUCATION
BS, Civil Engineering,
California State Polytechnic
University, Pomona

David Tiscareno, EIT/PACP/MACP | Project Engineer / Project Coordinator

David is a Civil Engineer in Training specializing in water and wastewater projects, including pump station, pipeline, treatment plant, and reservoir projects. David has gained valuable experience over the last 8 years working on numerous small to large water and wastewater projects covering planning, design, and construction administration for design. His project experience includes the development of specifications and providing design support, preparation of hydraulic calculations, permit preparation, and coordination. Aside from design support experience, David has provided construction administration support, including assistance with RFPs, RFIs, submittals, and change orders. David is also a GIS expert. He holds NASSCO Pipeline Assessment Certification Program (PACP) and Manhole Assessment Certification Program (MACP) certifications. His construction management and inspection services project experience and responsibilities have included construction inspection, quality control, owner representation, field documentation, progress payment reviews, and permit coordination.

David's Relevant Experience Includes:

- Booster Pump Station 3501 Replacement, Coachella Valley Water District, Desert Hot Springs
- Santiago Canyon Pump Stations Improvements, Irvine Ranch Water District
- Potable Water Steel Reservoir Seismic Retrofits Project, Moulton Niguel Water District, Laguna Niguel
- Prado Booster Station Upgrade Project, City of Colton



Adam Betsworth, PE | Civil Engineer

As a licensed professional engineer, Adam Betsworth has over 19 years of municipal civil, infrastructure, engineering, design, and construction experience in water and wastewater conveyance systems, as well as land development experience. He's worked with AutoCAD for more than 21 years and is an expert with Civil 3D. Adam's municipal work includes but is not limited to: potable and recycled water pipelines, wastewater treatment plants, lift stations, trunk sewers, potable and recycled water reservoirs, and booster pump stations. His work in land development covered commercial grading plans, street plans, sewer, water, recycled, and transmission lines, storm drain plans, channels, traffic control plans, tract maps, legal descriptions, and writing complex exhibits and reports. Adam has supervised and trained employees in various tasks and the use of Civil 3D. He has calculated and resolved complex mathematical/engineering problems and formulas to meet project specifications. He has presented project designs to clients, from concept to 3D model designs using Civil 3D in conjunction with product samples and presentation material.

LICENSE/CERTIFICATION
Civil Engineer, CA #C73790

EDUCATION
BS, Civil Engineering,
California State Polytechnic
University, Pomona

Adam's Relevant Experience Includes:

- Orange Heights Zone 5 to 6 Domestic Water and Zone C+ to D Recycled Water Booster Pump Station Project, Irvine Ranch Water District
- Santiago Canyon Pump Station Improvements, Irvine Ranch Water District
- Catala Pump Station and Pipelines Planning & PDR, Santa Clarita Valley Water Agency
- Final Design for the Matthews/Romoland Booster Station, Eastern Municipal Water District



Jordan Lim, PE | Electrical & I&C Engineer

Jordan is a California-registered Electrical Engineer with 5 years of experience specializing in water and wastewater infrastructure projects, including pump stations, pipelines, treatment plants, and reservoir projects. Jordan has gained valuable experience working on numerous small to large water and wastewater projects covering planning, design, and construction administration. His project experience includes providing engineering and design support, development of specifications, development of control schematics, P&IDs, electrical analysis to conduct conductor pull and derating calculations, permit preparation, and discipline coordination. Jordan is skilled in engineering software, including AutoCAD, MicroStation, ETAP, and PullPlanner. Aside from his design support experience, Jordan has provided construction administration support, including assistance with RFPs, RFI, submittals and change order requests.

LICENSE/CERTIFICATION
Electrical Engineer
CA #E24462

EDUCATION
BS, Electrical Engineering,
California State University,
Fullerton

Jordan's Relevant Experience Includes:

- Santiago Canyon Pump Station Improvements, Irvine Ranch Water District
- Saddleback Pump Station Auxiliary Pump and Engine Replacement and Portable Generator Connection Project, Moulton Niguel Water District, Aliso Viejo
- Prado Booster Station Upgrade Project, City of Colton
- Final Design for the Matthews/Romoland Booster Station, Eastern Municipal Water District.



LICENSE/CERTIFICATION
Structural Engineer,
CA #S3023

Civil Engineer, CA #C34701

EDUCATION
BS, Civil Engineering
(Structural Option),
California State Polytechnic
University, Pomona

Graduate Courses In
Structural Dynamics &
Advanced Structural
Analysis, California State
University, Los Angeles

James Gingrich, PE/SE | Structural Engineer

James Gingrich is a California registered structural engineer with over 32 years of structural analysis, engineering, design, constructability analysis, value engineering, project coordination, and construction management experience. He has been the structural project manager, QA/QC reviewer, and lead structural engineer for planning, investigation and condition assessment, preparation of preliminary & final design, seismic analysis and upgrading, and construction phase engineering services for a wide variety of concrete and steel structures for water conveyance and pumping facilities, water storage, treatment, and distribution facility projects for Metropolitan Water District (MWD) of Southern California. His experience and expertise include rehabilitation & retrofit engineering & designs for existing facilities. His representative experience includes lead designer for the Lake Matthew Outlet Facilities, Colorado River Aqueduct Pumping Plant Seismic Upgrades, and Oxidation Retrofit (Ozone Disinfection) Projects for MWD's Mills Jensen, Weymouth, Skinner, and Diemer Water Treatment Plants.

James' Relevant Experience Includes:

- Booster Pump Station 3501 Replacement, Coachella Valley Water District
- Hyperion Secondary Effluent Pumping Station (HSEPS) Expansion Project, Hyperion Treatment Plant (HTP), West Basin Municipal Water District (WBMWD), Carson
- Seal Beach Pump Station Replacement, Orange County Sanitation District
- Pump Station 2 (PS 2) Reliability Improvements, City of San Diego.



LICENSE/CERTIFICATION
Engineer-in-Training
#1661415

EDUCATION
BS, Civil Engineering
California State University,
Pomona

Samuel Song, EIT | Mechanical Design

Mr. Song is a Civil Engineer in Training with 8 years of experience specializing in water and wastewater projects, including pump stations, pipelines, treatment plants, and reservoir projects. Mr. Song has gained valuable experience working on numerous small to large water and wastewater projects covering planning, design, and construction administration. His project experience includes the development of specifications and providing design support, preparation of hydraulic calculations, and coordination. Mr. Song is skilled in engineering software, including AutoCAD, MicroStation, SAP2000, and AFT Fathom. Aside from his design support experience, Mr. Song has provided construction administration support, including assistance with RFPs, RFIs, submittals, and change orders.

Samuel's Relevant Experience Includes:

- Turtle Rock Zone 3 Reservoir Chloramine Booster Station, Irvine Ranch Water District
- Prado Booster Station Upgrade Project, City of Colton
- Saddleback Pump Station Auxiliary Pump and Engine Replacement, Moulton Niguel Water District, Mission Viejo
- Meridian Lift Station Replacement, San Bernardino Municipal Water District



Charles Ro, PE | Technical Advisor and QA/QC (Civil/Mechanical)

Charles Ro has 20 years of highly diversified water and wastewater facility design and construction management experience. He has served as Principal-in-Charge, project manager, project engineer, construction manager and construction inspector for treatment plants, pump stations, storage reservoirs, and water mains and sewer projects. Charles has meaningful design experience with anaerobic digestion, gas handling, and dewatering; pump station; and odor control facilities. Charles has construction management and inspection experience with treatment plants, sewers and recycled water pipeline projects. Charles' field experience working on a variety of water and wastewater infrastructure projects lends a broad perspective on design and construction projects.

Charles' Relevant Experience Includes:

- Orange Heights Zone 5 to 6 Domestic Water and Zone C+ to D Recycled Water Booster Pump Station Project, Irvine Ranch Water District
- Prado Booster Station Upgrade Project, City of Colton
- Seal Beach Pumping Station Replacement, Orange County Sanitation District
- Parker Canyon Recycled Water Reservoir and Bourdet Pump Station, Walnut Valley Water District, Walnut CA

LICENSE/CERTIFICATION
Civil Engineer, CA #C80535

NASSCO Pipeline
Assessment Certification
Program (PACP)
#U-512-15438

EDUCATION
BS, Civil Engineering,
California State University,
Los Angeles



Kenneth Creager, PE | Technical Advisor and QA/QC (Electrical and I&C)

Charles Ro has 20 years of highly diversified water and wastewater facility design and construction management experience. He has served as Principal-in-Charge, project manager, project engineer, construction manager and construction inspector for treatment plants, pump stations, storage reservoirs, and water mains and sewer projects. Charles has meaningful design experience with anaerobic digestion, gas handling, and dewatering; pump station; and odor control facilities. Charles has construction management and inspection experience with treatment plants, sewers and recycled water pipeline projects. Charles' field experience working on a variety of water and wastewater infrastructure projects lends a broad perspective on design and construction projects.

Charles' Relevant Experience Includes:

- Ely Booster Station Hazard Mitigation Project, Sonoma County Water Agency
- Electrical System Improvements at 7 Station Facilities, Moulton Niguel Water District, California
- Seal Beach Pumping Station Replacement, Orange County Sanitation District
- Replacement of Switchgear & MCC at Cajalco Intake Plant, West Municipal Water District

LICENSE/CERTIFICATION
Civil Engineer, CA #C80535

NASSCO Pipeline
Assessment Certification
Program (PACP)
#U-512-15438

EDUCATION
BS, Civil Engineering,
California State University,
Los Angeles



LICENSE/CERTIFICATION
Civil Engineer, CA #C70807

Electrical Engineer,
CA #E18727

EDUCATION
BS, Aeronautical
Engineering,
University of California,
Davis

Eric Lovering, PE | Principal-In-Charge

Eric Lovering has over 20 years of process mechanical/electrical/ instrumentation & controls (I&C) system engineering and project management experience with water and wastewater treatment plants, pump stations, industrial facilities, and standby power generation. He maintains two California PE licenses – “Civil” and “Electrical.” Eric’s core competencies include pump station hydraulics and pump selection, mechanical equipment, piping systems, and electrical & control systems engineering. His project experience includes system analysis, alternative studies, vendor selection, engineering, design, construction, PLC programming, start-up & commissioning, troubleshooting, and O&M consultation. Eric has hands-on experience with pumping equipment, diesel and gas-driven generators, variable frequency drives (VFDs), motor control centers, low-voltage and medium-voltage power distribution, and I&C systems. Eric’s multidisciplinary experience makes him an effective project manager and multidiscipline engineering team leader. His communication skills keep clients well informed, and he effectively identifies critical path items that are required to drive the projects to successful completion. Eric is LEE + RO’s Chief Engineer, and he often serves in the role of project lead technical advisor.

Eric’s Relevant Experience Includes:

- Orange Heights Zone 5 to 6 Domestic Water and Zone C+ to D Recycled Water Booster Pump Station Project, Irvine Ranch Water District
- IIC East Zone A to B Booster Pump Station Upgrades, Irvine Ranch Water District
- Hidden Canyon Zone 3 to 4 Domestic Water and Zone B to C Recycled Water Booster Pump Station, Irvine Ranch Water District
- Turtle Rock Zone B+ Recycled Water System Upgrading Project, Irvine Ranch Water District

SUBCONSULTANT BIOGRAPHIES

For those services that LEE + RO does not self-perform, we have included the following sub-consultant team members.

Flow Science Inc. | Hydraulic Modeling and Surge Analysis

Flow Science, established in 1983, provides specialty-consulting services for problems involving fluid motion, transport, and water quality. Since its establishment, the firm has successfully completed more than 1,100 surge protection design projects. The firm has substantial experience in performing transient analyses for existing and new systems and in the preparation of design specifications for surge protection equipment. The firm combines practical field application experience with the mathematical expertise in the analysis of water hammer. Flow Science specializes in the hydraulic analysis of steady and unsteady flow in water and wastewater systems, including both open channel and closed pipeline flows. The firm has performed surge analyses on systems ranging from less than 1 to over 5,000 mgd for water agencies and municipalities throughout the U.S. Flow Science is a Small Business Enterprise.

Ninyo & Moore | Geotechnical

Ninyo & Moore, a certified MBE, has been headquartered in San Diego since 1986, and offers consulting services in all aspects of geotechnical engineering, engineering geology, and environmental sciences. Ninyo & Moore has offices throughout California, and in Arizona, Nevada, Colorado, Utah, and Texas. The firm is fully committed to being responsive, cost-efficient, and thorough in meeting its clients' project needs and objectives. The quality of Ninyo & Moore's personnel base has become widely recognized. Ninyo & Moore will perform the required services from our San Diego Corporate office, which has 101 staff professionals.

The Prizm Group (TPG) | Surveying

The Prizm Group (TPG) | Surveying TPG was formed in 1998 with the corporate office in Norco, California. The background of the principal included design engineering and surveying of public works projects throughout Southern California. TPG provides surveying services to civil engineering companies and public agencies. By providing services to such entities TPG has participated in numerous projects for both private and public agencies, including cities and water districts such as Rancho California Water District, the cities of Corona, Azusa, Indio and Eastern Municipal Water District. TPG is regular subconsultant on LEE + RO projects.

Underground Solutions | Potholing

Underground Solutions, Inc. (USI) has been in the locating and vacuum excavation utility potholing service business since 2003. USI and their team of highly qualified operators and management are committed to perform fast, safe and accurate utility locating services. Their high velocity use of air-driven excavation delivers the power to cut precise holes into the earth without damaging the utility being located. Their "dry" system provides a more economical and environmentally friendly method of excavation.




AVAILABILITY

AVAILABILITY MATRIX

KEY PERSONNEL	ROLE	% OF TIME COMMITTED ON PROJECT	OFFICE LOCATION
Amritendu Maji, PE	Project Manager	65	City of Industry
David Tiscareno, EIT	Project Engineer/Project Coordinator	50	City of Industry
Adam Betsworth, PE	Civil Engineer	65	City of Industry
Jordan Lim, PE	Electrical/I&C Engineer	65	City of Industry
James Gingrich, PE	Structural Engineer	50	City of Industry
Samuel Song, EIT	Mechanical Design	50	City of Industry
Charles Ro, PE	Technical Advisor (QA/QC)	35	City of Industry
Kenneth Creager, PE	Technical Advisor (QA/QC)	10	City of Industry
Eric Lovering, PE	Principal in Charge	10	San Diego

3. EXPERIENCE

LEE+RO's representative and relevant projects are introduced below. Following these project descriptions, we have included a matrix (Exhibit 3-1) that lists many of our other domestic potable water and recycled water pump station projects.

Project Description	
	<p>Santiago Hills II Zone 5 to 6 Domestic Water and Zone C+ to D Recycled Water Booster Pump Station Project Irvine Ranch Water District</p> <p>LEE + RO to design the Santiago Hills II Domestic and Recycled Water Pump Station for a new 398-acre medium- and high-density residential development. In addition to designing the pump line up to meet IRWD's hydraulic demands, a key design feature was working with IRWD to develop the best way to layout the multiple facilities to be housed at Santiago Hills II; to transform the facility from a pump station site into a "campus." The domestic water pump station consists of four (4) 15 HP and two (2) 100 HP variable frequency drive pumps including standby pumps with combined total capacity 1,500 gpm and the recycled water pump station consists of four (4) 15HP variable frequency drive pumps with a combined total capacity of 1,300 gpm. Both stations have 5hp jockey pumps. The scope of work included hydraulic analysis and modeling, and PDR phase engineering services. This job was postponed after the issuance of the Preliminary Design Report. The project included perimeter wall and access, masonry building, mechanical equipment, and yard piping, and instrumentation and controls.</p> <p>Client Reference: Irvine Ranch Water District Joel Nash, Project Manager (949) 453-5869, nash@irwd.com</p> <p>Cost: N/A - N/A – the project was postponed after issuance of PDR</p> <p>Date Services Provided: June 2016</p>
	<p>Santiago Canyon Pump Station Improvements Irvine Ranch Water District</p> <p>This project will increase pumping capacity at Manning, Read, Shaw, and Williams Pump Stations to meet the Tier 1 fire flows in their respective service zones to provide improved reliability and upgrade the facilities to current District standards. LEE + RO updated the existing hydraulic model for the Santiago Canyon area consisting of several pressure zones and ran the model for existing, interim, and buildout conditions for average day, max day plus fire flow, and peak hour scenarios. Global fire flow analyses were performed with and without the proposed pump station and future pipeline improvements. The model results were used not only to confirm and select the proposed pumps and pressure-reducing valves at the four pump stations, but also to confirm the master-planned pipeline improvements.</p> <p>Client Reference: Irvine Ranch Water District Alex Murphy, Project Manager (949) 453-5863, murphy@irwd.com</p> <p>Cost: \$4 Million</p> <p>Date Services Provided: May 2019</p>
	<p>IIC East Zone A to B Booster Pump Station Upgrades Irvine Ranch Water District</p> <p>LEE + RO provided preliminary design, final design, bid phase and engineering services during construction for this \$2 million recycled water pump station upgrades project. The old existing IIC East Zone A to B Recycled Water Pump Station was equipped with four (4) vertical turbine pumps (three duty and one standby), with one spare pump can available to receive a future fifth pump. This upgrades project added additional pumping capacity (to 10,700 gpm) with a 5th pump and included all new pump motors, a new 1200A electrical utility service, new main switchboard, and new MCC, two new VFDs and three new soft starters, new instrumentation and controls, new 7.5 ton ac cooling unit, new LED lighting, new PLC controls, and networking equipment. A hydraulic transient analysis was performed to ensure that the Zone A and B pipelines had adequate surge protection during a pump power failure and/or startup of the booster pump station. Based on the surge study, installation of surge mitigation equipment was not necessary.</p> <p>Client Reference: Irvine Ranch Water District Scott Toland Now at Eastern Municipal Water Dist. (951) 928-3766 X 4471, @ EMWD, tolands@emwd.org</p> <p>Cost: \$2 Million</p> <p>Date Services Provided: May 2017</p>

Project Description

Hidden Canyon Zone 3 to 4 Domestic Water & Zone B to C Recycled Water Booster Pump Station | Irvine Ranch Water District

LEE + RO provided engineering design services for this combined domestic water/fire flow and recycled water pump station facility for a new 255-acre medium- and high-density residential development. The \$2.3 million domestic water pump station consists of four (4) 15 HP VFD driven vertical turbine pumps and two (2) 100 HP constant speed pumps, including standby pumps with a combined total capacity of 2,170 gpm and the \$1.9 million recycled water pump station consists of four (4) 15 HP variable frequency drive pumps with a combined total capacity of 475 gpm.

Determining the most efficient site layout for this Domestic Water – Fire Flow – Recycled Water pump station required close coordination with IRWD’s Engineering and Operations staff. The scope of work included hydraulic analysis and modeling, PDR, final design, and bid & construction phase engineering services. The project elements included a CMU masonry building, CMU perimeter walls with gated vehicular access, mechanical equipment and yard piping, and instrumentation and controls. The final design included the preparation of a Project Manual describing sequencing associated with connections and tie-ins to existing facilities, utility research, permit coordination, and all civil, structural, mechanical, HVAC, and architectural elements.

Client Reference:

Irvine Ranch Water District
 Scott Toland (now at Eastern Municipal Water District)
 (951) 928-3766 X 4471, @ EMWD, tolands@emwd.org

Cost: \$4.2 Million

Date Services Provided: March 2014

Turtle Rock Zone 3 Reservoir Chloramine Booster Station | Irvine Ranch Water District

The Turtle Rock Zone 3 Reservoir (TR Z3 Res) is located at 13½ Minaret Drive in Irvine and supplies water to the surrounding Turtle Rock neighborhood and the Zone 3 to 4 Pump Station (TR Z4 PS) which serves the uppermost portion of the neighborhood. IRWD has experienced degraded water quality at the TR Z3 Res due to nitrification caused by the loss of chlorine residual, excess free ammonia and low water supply turnover. Currently, IRWD doses chlorine and ammonia at the Turtle Rock Zone 1 to 3 Pump Station to reduce nitrification in the system but this process is susceptible to chemical precipitation in the pipe where the chemical is injected and has required multiple replacements of the injection pipe. This project will install a chloramine booster station at TR Z3 Res similar to chloramine booster stations that are in service at multiple reservoirs throughout IRWD’s potable system to address and avoid the nitrification and in-pipe chemical precipitation issues

Client Reference:

Irvine Ranch Water District
 Alex Murphy, Project Manager
 (949) 453-5863, murphy@irwd.com

Cost: \$3.9 Million

Date Services Provided: March 2021

Michelson Water Recycling Plant Unit Substation T-1 Replacement | Irvine Ranch Water District

Unit Substation T-1 is comprised of two 5kV load breaks, a 1000kVA transformer, and multiple 480V distribution sections. The existing equipment shall be replaced in kind and at the same location to accommodate the existing conduits and conductors. The F1 and F2 feeders will be interrupted during construction, which will affect downstream Unit Substations T-2, T-9, T-3, and T-10 and/ the recently installed battery energy storage system (BESS). The 5kV power to the downstream unit substations and BESS shall be maintained during construction. Substation T-1 also distributes 480V power to DSB-200 and MCC-301, which provides power to critical treatment processes. The 480V power shall be maintained during the construction process without the extended use of temporary generators. A primary component of the Project will be the development of a construction phasing plan to ensure continuous, uninterrupted operation of MWRP during the construction period.

Client Reference:

Irvine Ranch Water District
 Joel Nash, Project Manager
 (949) 453-5569, @irwd.com

Cost: \$3 Million

Date Services Provided: 2018



Project Description

Prado Booster Pump Station Upgrade Project | City of Colton

The City of Colton owns, operates, and maintains the Prado Booster Station. The existing potable water booster pump station housed two 75 HP horizontal split case centrifugal pumps with room for a third pump. The station also included electrical switchgear, motor starters, meter and main breakers, RTU, outdoor transformer, instrumentation and controls, propeller meter, and exposed piping.

The objective of this project was to provide redundancy by installing a new three-pump lineup and improve efficiency by installing variable frequency drives (VFDs) on each pump motor. The project elements included three new vertical pumps and motors with new Variable Frequency Drives (VFD); new piping, valving, instrumentation, and appurtenances; removing and replacing the existing MCC; all new electrical conduits and conductors; complete instrumentation and controls design; SCADA design for booster station remote monitoring system; new emergency generator transfer switch sized for new pump station electrical loads; new portable emergency generator connection; new station lighting; new HVAC system, pump station security system upgrades; replacement of skylights with functional roof hatches for pump/ motor removal. This project was completed in 2022 and is currently in service.

Client Reference:

City of Colton

Jess Soto, Project Manager
(909) 370-5065, jsoto@colton.ca.gov

Cost: \$1.8 Million

Date Services Provided: August 2021

Booster Pump Station 3501 Replacement | Coachella Valley Water District

CVWD Booster Pump Station 3501 is located in Desert Hot Springs, CA. The station had reached the end of its useful life and the District had experienced capacity and supply issues in the high zone and desired a new pumping facility that would provide service through the year 2030.

The existing site included two above-ground steel reservoirs, six (6) vertical turbine pumps of various sizes that supply water to the Sky Valley Pressure Zone, a portable emergency generator, a surge tank, and connections to an existing lower pressure zone. The new \$3.3 million booster pump station project included four (4) new 200 hp vertical turbine pumps with reduced voltage soft starts, instrumentation and controls, a new 1,200A electrical service and utility transformer, a new electrical building with HVAC to house the new switchboard, ATS, MCC and electrical panels and SCADA panel, a new chemical storage building, a new air compressor for the surge tank, a new 750kW stationary diesel-fueled emergency generator and load bank. New fill and drain piping (yard piping) were provided for the existing reservoirs to optimize the site layout and operations. New seismic valves were installed at the reservoir connections. The existing pump station remained online throughout the construction process and was not demolished until the new booster pump station was commissioned and fully operational.

Client Reference:

Coachella Valley Water District

Jesse Aguilar, Project Manager
(760) 398-2661 ext. 2511, jaguilar@cvwd.org

Cost: 3.3 Million

Date Services Provided: December 2017

Miramar Pump Station Rehabilitation and Upgrading Project | San Diego County Water Authority

LEE + RO provided engineering services for the rehabilitation and upgrade of the pump station's facilities to ensure that the pump station was fully operational - delivering up to 40 MGD to member agencies during emergency water disruptions, such as those caused by earthquakes. The station was placed into operation in 1979 and much of the pump station's 2.3 kV electrical system was obsolete and no longer supported by the original manufacturers. This upgrade project included a comprehensive condition assessment report, hydraulic and surge analysis, and structural seismic analysis. The scope of work for this \$4.1 million project included civil, structural, mechanical, electrical and instrumentation & controls engineering for replacement of pumps, seismic reinforcement, forced air ventilation, conversion to a 4.16kV electrical distribution system and replacement of all electrical equipment, addition of automatic pump controls, and SCADA integration. The site is adjacent to a residential neighborhood, thus requiring special considerations for noise abatement designs and new perimeter fencing. The project also included a new flow control facility. The flow control facility consists of two triple offset isolation butterfly valves, a venturi meter, and a motorized cone valve to deliver metered water to the Miramar Treatment Plant clear wells.

Client Reference:

San Diego County Water Authority

Gary Olvera, Project Manager
(858) 522-6600, golvera@sdcwa.org

Cost: 4.1 Million

Date Services Provided: November 2015



Project Description

Catala Pump Station and Pipelines Planning & PDR | Santa Clarita Valley Water Agency

LEE + RO is providing engineering services for the evaluation of alternative siting locations and pipe routing along with final recommendations, preparation of a preliminary design report (PDR) and 30% preliminary design plans for the selected solution. Santa Clarita Valley Water Agency (SCV Water) seeks to construct a new potable water pump station including associated suction and force main piping to supply the Catala Pressure Zone from the Bouquet Pressure Zone. This Project is the highest priority supply project recommended in Santa Clarita Water Division's 2013 Water Master Plan to provide adequate capacity for expansion and future growth, increase operational flexibility, and increase system reliability. The suction pipeline will connect to an existing water main south of the intersection of Bouquet Canyon Road and Newhall Ranch Road. The discharge pipeline will connect to an existing Mesa Tank supply line further north on Bouquet Canyon Road.

Client Reference:

Santa Clarita Valley Water Agency

Jason Yim, Principal Engineer
(661) 513-1277, jyim@scvwa.org

Cost: 15 Million

Date Services Provided: January 2023

Earl Schmidt Filtration Plant Improvement, Washwater Return and Sludge System Improvements | Santa Clarita Valley Water Agency

SCVWA owns and operates the 56 MGD capacity Earl Schmidt Filtration Plant (ESFP) that treats State Project Water (SPW) from Castaic Lake. The main ESFP processes consist of an ozone injection system, ten contact clarifiers, ten filters, and two storage reservoirs. The flash mixing pumps mix water and coagulants and convey it to the contact clarifiers, followed by filtration through filters. Filtered water is disinfected with chlorine and flows by gravity to storage reservoirs before distribution. The washwater (WW) from the clarifiers and filters is stored in WW basins and pumped to the head of the plant, and the collected solids are treated in a gravity sludge thickener, and, finally, in drying beds. The WW return system consists of two WW basins (400,000 gallons each), a chemical injection and inline mixer system, and two packaged treatment units (PTUs). There is one sludge thickener and two sludge drying beds. The supernatant in WW basins is pumped to the PTUs, and the settled sludge is conveyed to the sludge thickeners and drying beds.

The California Department of Public Health (DPH) Cryptosporidium Action Plan (CAP) includes a 2 nephelometric turbidity units (NTU) recycled water turbidity limit and also regulates the total recycle water flow to be less than 10% of the plant flow. The existing ESFP WW return system meets the 10% of recycle flow requirement; however, the current WW system limitations prevent maximizing the WW recycle flow up to 10 percent. In addition, the current washwater return system cannot consistently reduce turbidity in the return line to less than 2 NTU. LEE + RO evaluated the WW return and sludge handling system and identified the necessary washwater return system improvements to cost-effectively achieve full compliance with the DPH requirements.

The project includes the construction of two new 620,000-gallon capacity WW basins with automatic sludge scraper system and floating decanters, a WW basin effluent wet well, upsizing of various conveyance piping, a new sludge thickener, new sludge drying bed, electrical, and various site improvements. The total construction cost is \$18 million. Construction is ongoing and will be completed in March 2024.

Client Reference:

Santa Clarita Valley Water Agency

Jason Yim, Principal Engineer
(661) 513-1277, jyim@scvwa.org

Cost: 18 Million

Date Services Provided: June 2015

Saddleback Pump Station Auxiliary Pump and Engine Replacement | Moulton Niguel Water District

The pump at the auxiliary pump station (Aux PS) at Moulton Niguel Water District's (District) Saddleback Pump Station and Reservoir facility is currently driven by a propane-fueled engine through a right-angled gear drive. The District desires to replace the existing engine with a new diesel-fueled engine, upgrade the gear drive with a new gear drive and upgrade the existing vertical turbine pump to a new vertical turbine pump capable of delivering 4,740 gpm at a discharge head of 313 feet of Total Dynamic Head (TDH). The work will also include modifications to the existing building, piping and electrical system including site work. Also, a new portable generator connection will be provided at the Saddleback Pump Station building. The District is using the Preliminary Design Technical Memorandum (PDTM) prepared by LEE + RO as the basis of design for this project. The PDTM recommended this alternative and the pumping capacity. In addition to the pump, gear and engine replacements, additional work includes evaluation of existing engine structural foundation supports, evaluation of existing building structure for the installation of a roll up door to aid with future maintenance work, and piping modifications to tie in the recirculation line at the Aux PS to the reservoir.

Client Reference:

Moulton Niguel Water District

Bryan Hong, Senior Engineer
(949) 281-8269, bhong@mnwd.com

Cost: \$149,953

Date Services Provided: May 2019

Pump Station 2 (PS2) Reliability and Force Main Surge Protection Upgrades | City of San Diego, CA

PS2, San Diego's largest pump station, was constructed in 1963, and conveys all wastewater flows from the San Diego Metro Wastewater System through two 87-inch diameter force mains and Point Loma Tunnel to the Point Loma Wastewater Treatment Plant (PLWTP). PS2 has a design capacity of 432 mgd and houses a total of eight (8) pumps: six are driven by 2,250 HP electric motors, and two others are driven by 2,500 HP natural gas engines. PS2 currently has three feeds from SDG&E. However, the present setup does not meet the EPA Class I Reliability Criteria and major sewage spills could occur at PS2. LEE + RO evaluated many alternatives employing turbines and/or engine generators. The project also included force main hydraulic study and mitigation of hydraulic surge on the dual force mains to the PLWTP. The selected alternative in the final design includes: (1) replace two engine driven pumps with two 2,250 HP motors driven through new VFDs, (2) install two natural gas engine generators rated at 3,000 kW each, which will be available to pumps at all times for force main surge protection during multiple pump operation, and (3) install two 4,000 kW diesel engine emergency generators. The project includes an 8,000 sq. ft. and 45 ft. high building to house the generators, cooling systems, electrical, and cranes. The existing raw sewage shell and tube exchangers will be modified and retained as a part of the engine cooling system.

Client Reference:

City of San Diego, CA

Ivan Hoffman, Project Manager
(619) 533-5196, ihoffman@sandiego.gov

Cost: 56 Million

Date Services Provided: May 2016

Exhibit 5-1: Fee Estimate

Labor Category: E8 Managing Engineer; E7 Supervising Engineer; E5 Senior Engineer; E4 Engineer; E3 Associate Engineer; E2 Assistant Engineer; T4 Designer; T2 Assistant Designer; A1 Administrative Assistant/Word Processor	E8	E7	E5	E4	E3	E2	T4	T2	A1	Total Hours	Total Labor	Other Direct Costs	Sub-Consultant Fees	TOTAL
Project Tasks	\$317	\$284	\$213	\$187	\$177	\$131	\$163	\$121	\$95					
Task 1 Project Management														
A. Preparation of Project Status		12	52							64	\$14,484			\$14,484
B. Meetings and Workshops	8	42	42		42					134	\$30,844	\$600		\$31,444
C. Quality Assurance/Quality Control	60		30				8		8	106	\$27,474			\$27,474
Subtotal Task 1, Project Management	68	54	124	0	42	0	8	0	8	304	\$72,802	\$600	\$0	\$73,402
Task 2 Preliminary Design Report Validation Memorandum														
- Validtion Memorandum (Including 30% 3D Drawings/ Modeling)	40	80	80	160		8	120	60	4	552	\$110,608	\$250		\$110,858
A. Surge Study - Pressure Surge Analysis of Zone C+ to E Pump Station and Recycled Water System	8					8			4	20	\$3,964		\$18,300	\$22,264
B. Geotechnical Investigation	2					8			4	14	\$2,062		\$38,735	\$40,797
C. Surveying Services	2					8			4	14	\$2,062		\$4,320	\$6,382
D. Hydraulic Model	40				16					56	\$15,512		\$0	\$15,512
E. Additional Facility Evaluations. (\$25K - Potholing Budget)	4			20	38		30	8		100	\$17,592	\$23	\$7,385	\$25,000
Subtotal Task 2, Preliminary Design Report Validation Memorandum	96	80	80	180	54	32	150	68	16	756	\$151,800	\$273	\$68,740	\$220,813
Task 3: Final Design														
A. Project Manual	4	12	16	8	40				40	120	\$20,460			\$20,460
B. Construction Plans (Fees included in Task 3.G.)														
C. Electrical/Instrumentation (Fees included in Task 3.G.)														
D. SCE Final Service Plan	4		40				8			52	\$11,092	\$150		\$11,242
E. Project Schedule		12				8				20	\$4,456			\$4,456
F. Opinion of Probable Construction Cost		4	4	4	4	60				76	\$11,304			\$11,304
G. Design Deliverables														
3.G.1 60% Deliverable	50	80	200	80	250	90	120	150	16	1036	\$191,400	\$150		\$191,550
3.G.2 90% Deliverable	32	60	160	60	200	60	120	100	16	808	\$148,924	\$150		\$149,074
3.G.3 100% Deliverable	12	30	80	40	200	40	50	50	8	510	\$92,444	\$150		\$92,594
3.G.4 Final Design Deliverable	8	10	20	20	40	20	20	20	4	162	\$29,136	\$150		\$29,286
H. Addenda Preparation and Pre-Bid Meeting										0	\$0			\$0
3.H.1 Plan Revisions (25 hrs)	1			15			9			25	\$4,589			\$4,589
3.H.2 Specification Revisions (10 hrs)	1		1	8						10	\$2,026			\$2,026
3.H.3 Bidder Questions (40 hrs)	2	4	4	30						40	\$8,232			\$8,232
3.H.4 Pre-Bid Meeting			6		6					12	\$2,340	\$150		\$2,490
Subtotal Task 3, Final Design	114	212	531	265	740	278	327	320	84	2871	\$526,403	\$900	\$0	\$527,303
Without Optional Task	278	346	735	445	836	310	485	388	108	3,931	\$751,005	\$1,773	\$68,740	\$821,518
Optional Task														
2.A Surge Study - Pressure Surge Analysis of Zone 5 to 6 Pump Station and Domestic Water System	2					8			4	14	\$2,062		\$13,180	\$15,242
With Optional Task	280	346	735	445	836	318	485	388	112	3,945	\$753,067	\$1,773	\$81,920	\$836,760